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United States
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Plant Inventory No. 195

EXCHANGE Rec'd

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Plant Material Introduced
June 1 to December 31, 1986
(Nos. 503486 to 506218)



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Plant Inventory No. 195 is a historical record of accessioned plant germplasm; it is not a listing of plant material for distribution. Questions about data organization and proper plant identification in this inventory should be directed to the authors.

Thanks are expressed to the following persons associated with the Plant Introduction Office for their contributions to Plant Inventory No. 195: L.G. Garner and R.A. Norris for continued excellence in handling all aspects of the computer system operation; V. Binstock for taxonomic review of the manuscript. Assistance by J. Mowder, Database Management Unit, with software and hardware problems is appreciated. Services performed by the University of Maryland were provided through a cooperative agreement.

This inventory is the first to be generated through the national database known as the Germplasm Resources Information Network (GRIN).

Sharon Stern, faculty research assistant
Department of Botany, University of Maryland
College Park, MD 20742

and
George A. White, agriculturalist
Plant Introduction Office
Beltsville Agricultural Research Center
Beltsville, MD 20705

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Issued July 1987

PI 503486 to 503506. *Hordeum vulgare* L. POACEAE Barley

Donated by Gymer, P.T., Joseph Nickerson Research Centre, Nickerson RPB Limited, Rothwell, Lincoln, United Kingdom. Received April 1986.

- PI 503486 origin: United Kingdom. cultivar: Concert. pedigree: Maris Otter/Sonja. remarks: Two-row type. Cultivar. Seed.
- PI 503487 origin: United Kingdom. cultivar: Fulmar. pedigree: Maris Otter/Sonja. remarks: Two-row type, Malting barley. Cultivar. Seed.
- PI 503488 origin: United Kingdom. cultivar: Lion. pedigree: RPB 26-73 E/Igri. remarks: Two-row type. Cultivar. Seed.
- PI 503489 origin: United Kingdom. cultivar: Nevada. pedigree: RPB 26-73 E/Igri. remarks: Two-row type. Cultivar. Seed.
- PI 503490 donor id: NRPB 80-5218. origin: United Kingdom. pedigree: Igri//Igri/RPB 59-74. remarks: Two-row type. Cultivated. Seed.
- PI 503491 donor id: NRPB 80-5248. origin: United Kingdom. pedigree: RPB 5161-74/Igri. remarks: Two-row type. disease resistance: Resistant to mildew and leaf-rust. Cultivated. Seed.
- PI 503492 donor id: NRPB 80-5292 A. origin: United Kingdom. pedigree: Igri/Maris Trojan. remarks: Two-row type. Cultivated. Seed.
- PI 503493 donor id: NRPB 80-5292 F. origin: United Kingdom. pedigree: Igri/Maris Trojan. remarks: Two-row type. Cultivated. Seed.
- PI 503494 donor id: NRPB 80-5304. origin: United Kingdom. pedigree: Igri//Sonja/Keg. remarks: Two-row type. Malting barley. Cultivated. Seed.
- PI 503495 donor id: NRPB 81-5233. origin: United Kingdom. pedigree: Sonja/RPB 5011-75. remarks: Two-row type. Cultivated. Seed.
- PI 503496 donor id: RPB 44-73. origin: United Kingdom. pedigree: LD 9619/Inra 10-66. remarks: Two-row type. disease resistance: Resistant to mildew. Cultivated. Seed.
- PI 503497 donor id: RPB 5011-75. origin: United Kingdom. remarks: Two-row type. Cultivated. Seed.

PI 503486 to 503506-continued

- PI 503498 donor id: RPB 5032-75. origin: United Kingdom. remarks: Two-row type. Cultivated. Seed.
- PI 503499 donor id: RPB 5022-76 B. origin: United Kingdom. pedigree: *Jotun/Dayton//Franger/4 Dayton. remarks: Six-row type. cold tolerance: Resistant to cold. Cultivated. Seed.
- PI 503500 donor id: RPB 5022-76D. origin: United Kingdom. pedigree: *Jotun/Dayton//Franger/4 Dayton. remarks: Six-row type. cold tolerance: Resistant to cold. Cultivated. Seed.
- PI 503501 donor id: RPB 5029-76. origin: United Kingdom. pedigree: *Uzu/Jaydee//5 Mob 475. remarks: Two-row type. Cultivated. Seed.
- PI 503502 donor id: RPB 5149-77. origin: United Kingdom. remarks: Two-row type. Cultivated. Seed.
- PI 503503 donor id: RPB 5032-78. origin: United Kingdom. pedigree: Banteng/MG 66502//Sonja. remarks: Six-row type. Cultivated. Seed.
- PI 503504 donor id: RPB 5240-78. origin: United Kingdom. pedigree: Video/RPB 784-73. remarks: Two-row type. Cultivated. Seed.
- PI 503505 donor id: RPB 5247-78. origin: United Kingdom. pedigree: Melta/Maris Otter/3/Senta//CI 8256/Inra 36. remarks: Two-row type. Cultivated. Seed.
- PI 503506 donor id: RPB 5265-78. origin: United Kingdom. pedigree: Eng. 43-64-98/Sonja//Inra 656. remarks: Two-row type. Cultivated. Seed.

PI 503507 to 503512. Zea mays L. POACEAE Field corn

Donated by Chavez, A.M., Prog. Coop. de Investigaciones en Maiz, Univ. Nacional Agraria - La Molina, Apartado 456, Lima, Peru. Received April 1986.

- PI 503507 donor id: Ancash 210. origin: Peru. Cultivated. Seed.
- PI 503508 donor id: Ancash 238. origin: Peru. Cultivated. Seed.
- PI 503509 donor id: Ancash 261. origin: Peru. Cultivated. Seed.
- PI 503510 donor id: Ancash 499. origin: Peru. Cultivated. Seed.
- PI 503511 donor id: Apurimac 77. origin: Peru. Cultivated. Seed.

PI 503507 to 503512-continued

PI 503512 donor id: Huanuco 119. origin: Peru. Cultivated. Seed.

PI 503513 to 503515. *Lycopersicon hirsutum* Humb. & Bonpl. SOLANACEAE

Donated by Rick, C.M., Department of Vegetable Crops, University of California, Davis, California, United States. Received through M. Holle - F. Delgado de la Flor collections of 1984. Received May 1986.

PI 503513 donor id: 8405. origin: Peru. collector: M. Holle and F. Delgado. collector id: 8405. locality: Santo Domingo, Morropon Province, Piura Department. elevation: 500m. Wild. Seed.

PI 503514 donor id: 8413. origin: Peru. collected: March 21, 1984. collector: M. Holle and F. Delgado. collector id: 8413. locality: Carrizo, 37km from Ayabaca, Ayabaca Province, Piura Department. elevation: 800m. Wild. Seed.

PI 503515 donor id: 8416. origin: Peru. collected: March 21, 1984. collector: M. Holle and F. Delgado. collector id: 8416. locality: Pte. Tordopa, Ayabaca Province, Piura Department. elevation: 1600m. Wild. Seed.

PI 503516. *Lycopersicon pennellii* (Correll) D'Arcy SOLANACEAE

Donated by Rick, C.M., Department of Vegetable Crops, University of California, Davis, California, United States. Received through M. Holle - F. Delgado de la Flor collections of 1984. Received May 1986.

PI 503516 donor id: 8429. origin: Peru. collected: March 27, 1984. collector: M. Holle and F. Delgado. collector id: 8429. locality: Bayovar, Piura Department. elevation: 30m. Wild. Seed.

PI 503517 to 503524. *Lycopersicon pimpinellifolium* (L.) Miller
SOLANACEAE Currant tomato

Donated by Rick, C.M., Department of Vegetable Crops, University of California, Davis, California, United States. Received through M. Holle - F. Delgado de la Flor collections of 1984. Received May 1986.

PI 503517 donor id: 8401. origin: Peru. collected: March 20, 1984. collector: M. Holle and F. Delgado. collector id: 8401. locality: Desvio Chulucanas, Morropon Province, Piura Department. elevation: 170m. Wild. Seed.

PI 503517 to 503524-continued

- PI 503518 donor id: 8403. origin: Peru. collected: March 20, 1984. collector: M. Holle and F. Delgado. collector id: 8403. locality: From Chalaco, 1.0km, Morropon Province, Piura Department. elevation: 200m. Wild. Seed.
- PI 503519 donor id: 8404. origin: Peru. collected: March 20, 1984. collector: M. Holle and F. Delgado. collector id: 8404. locality: Porropon-Chalaco, 25km, Desvio Carrasquillo, Morropon Province, Piura Department. elevation: 350m. Wild. Seed.
- PI 503520 donor id: 8417. origin: Peru. collected: March 21, 1984. collector: M. Holle and F. Delgado. collector id: 8417. locality: Camino a Sullana, Sullana Province, Piura Department. elevation: 100m. Wild. Seed.
- PI 503521 donor id: 8418. origin: Peru. collected: March 22, 1984. collector: M. Holle and F. Delgado. collector id: 8418. locality: San Francisco de Chocon Querecotillo, Piura Department. elevation: 50m. Wild. Seed.
- PI 503522 donor id: 8425. origin: Peru. collected: March 24, 1984. collector: M. Holle and F. Delgado. collector id: 8425. locality: La Huaca-Sullana, Piura Department. Wild. Seed.
- PI 503523 donor id: 8431. origin: Peru. collected: March 19, 1984. collector: M. Holle and F. Delgado. collector id: 8431. locality: Campus, University Nacional de Piura, Castilla, Piura Province, Piura Department. elevation: 100m. Wild. Seed.
- PI 503524 donor id: 8470. origin: Peru. collected: March 1984. collector: M. Holle and F. Delgado. collector id: 8470. locality: Suarez, Tumbes Province, Tumbes Department. elevation: 70m. Wild. Seed.

PI 503525 to 503526. *Coffea arabica* L. RUBIACEAE Coffee

Donated by Central Coffee Research Institute, Coffee Research Station, P.O. 577 117, Karnataka, Chikmagalur District, India. Received May 1986.

- PI 503525 donor id: HDT 2252. origin: Portugal. origin institute: Cent. de Inv. das Ferrugens do Coffeeiro, Estacao Agronomica Nacional, Oeiras. pedigree: Selection from HDT CIFC B43. remarks: Plants have vigorous growth. Leaves leathery, variable in size. disease resistance: Resistant to coffee rust strains. Breeding Material. Plant.

PI 503525 to 503526-continued

PI 503526 **donor id:** HDT 2253. **origin:** Portugal. **origin institute:** Cent. de Inv. das Ferrugens do Coffeeiro, Estacao Agrinomica Nacional, Oeiras. **pedigree:** Selection from HDT CIFC B43. **remarks:** Plants have vigorous growth. Leaves leathery, variable in size. **disease resistance:** Resistant to coffee rust strains. **Breeding Material.** Plant.

PI 503527 to 503529. *Avena nuda* L. POACEAE Naked oat

Donated by Marshall, H.G., USDA-ARS, Department of Agronomy, Pennsylvania State University, University Park, Pennsylvania, United States. Received June 1986.

PI 503527 **origin:** United States. **cultivar:** Pennline 2005. **pedigree:** Nuprime/Noble. **remarks:** Plants 5cm taller, slightly more susceptible to lodging and 2 days later than Ogle. Leaves and sheaths glabrous. Panicles mid-sized, equilateral, and straight to flexuous. Yield high. Threshes clean. Groat and test weight high. Spring Annual. **Breeding Material.** Seed.

PI 503528 **origin:** United States. **cultivar:** Pennline 9010. **pedigree:** Noble*2/Nuprime. **remarks:** Plants moderately short, excellent lodging resistance, with early maturity. Leaves and sheaths glabrous. Panicle mid-sized, equilateral and straight to slightly flexuous. Yield high. Threshes clean. Test weight good. Spring Annual. **Breeding Material.** Seed.

PI 503529 **origin:** United States. **cultivar:** Pennline 9433. **pedigree:** Pennline 116/Bates. **remarks:** Plants short with lodging resistance. Leaves and sheaths glabrous. Panicle mid-sized, equilateral and straight to slightly flexuous. Yield high. Test weight above average. Spring Annual. **Breeding Material.** Seed.

PI 503530. *Crataegus mollis* (Torrey & A. Gray) Scheele ROSACEAE Downy hawthorn

Donated by Bismarck Plant Materials Center, USDA-SCS, P.O. Box 1458, Bismarck, North Dakota, United States. Received through National Plant Materials Center, USDA-SCS, Beltsville, Maryland Received May 1986.

PI 503530-continued

PI 503530 donor id: T 5731. origin: Canada. other id: ND-20. other id: Mich-1229. locality: Canada Agricultural Research Station, Morden, Manitoba. remarks: Maturity early. Useful as windbreak and ornamental. Adapted to North and South Dakota, eastern Wyoming, Montana and Minnesota, on rich bottomlands and rocky hillsides. Wild. Seed.

PI 503531. *Gleditsia triacanthos* L. CAESALPINIACEAE Honeylocust

Donated by Bismarck Plant Materials Center, USDA-SCS, P.O. Box 1458, Bismarck, North Dakota, United States. Received through National Plant Materials Center, USDA-SCS, Beltsville, Maryland Received May 1986.

PI 503531 donor id: T 11850. origin: United States. other id: ND-1879. other id: MDN-10435. locality: Southern Great Plains Field Station, Woodward, Oklahoma. remarks: Plants thornless. Resistant to cold in North Dakota. Useful as windbreak. Adapted to South Dakota, Southern Minnesota and Zone 4 of North Dakota, in moist, well-drained bottomland. cold tolerance: Resistant to cold. drought tolerance: Resistant to drought. salt tolerance: Tolerant to salt. Wild. Plant.

PI 503532 to 503546. *Cynara scolymus* L. ASTERACEAE Artichoke

Donated by Perrino, P., Istituto del Germoplasma, Via Amendola, 165/A, 70126 Bari, Italy. Received May 1986.

PI 503532 origin: Italy. cultivar: Baycampasa. Cultivar. Seed.

PI 503533 origin: Italy. cultivar: Catanese. Cultivar. Seed.

PI 503534 origin: Italy. cultivar: EB 5 - EB 9. Cultivar. Seed.

PI 503535 origin: Italy. cultivar: Green globe thornless-green globe. Cultivar. Seed.

PI 503536 origin: Italy. cultivar: Locale di Cuneo. Cultivar. Seed.

PI 503537 origin: Italy. cultivar: Mazzaferata di Termoli - Ogni Mese. Cultivar. Seed.

PI 503538 origin: Italy. cultivar: Mazzaferata di Toscana. Cultivar. Seed.

PI 503539 origin: Italy. cultivar: Pasquaiolo - Testa di Ferro. Cultivar. Seed.

PI 503532 to 503546-continued

- PI 503540 **origin:** Italy. **cultivar:** Romanesco. Cultivar. Seed.
- PI 503541 **origin:** Italy. **cultivar:** Spinoso di Palermo. Cultivar. Seed.
- PI 503542 **origin:** Italy. **cultivar:** Spinoso sardo. Cultivar. Seed.
- PI 503543 **origin:** Italy. **cultivar:** Verde di Castellamare. Cultivar. Seed.
- PI 503544 **origin:** Italy. **cultivar:** Verde di Pesaro. Cultivar. Seed.
- PI 503545 **origin:** Italy. **cultivar:** Verde di Putignano. Cultivar. Seed.
- PI 503546 **origin:** Italy. **cultivar:** Violetto. Cultivar. Seed.

PI 503547. *Avena sativa* L. POACEAE Common oat

Donated by McMullen, M.S., Agronomy Department, North Dakota State University, Fargo, North Dakota, United States. Received May 1986.

- PI 503547 **origin:** United States. **cultivar:** Steele. **pedigree:** RL3038/Dal//Noble. **remarks:** Plants 97cm tall. Leaves glabrous, yellow green. Maturity late. **disease resistance:** Resistant to crown and stem rust, and to yellow dwarf virus. Spring Annual. Cultivar. Seed.

PI 503548 to 503550. *Medicago sativa* subsp. *viscosa* (Reichb.) Gunn
FABACEAE

Donated by VIR, Leningrad, USSR. Received March 1986.

- PI 503548 **donor id:** VIR 27723. **origin:** Soviet Union. **locality:** Herson region, USSR. Seed.
- PI 503549 **donor id:** VIR 35676. **origin:** Soviet Union. **locality:** Krasnodar Territory, USSR. Seed.
- PI 503550 **donor id:** VIR 41985. **origin:** Soviet Union. **locality:** Daghestan ASSR. Seed.

PI 503551 to 503552. *Triticum aestivum* L. POACEAE Common wheat

Donated by Konzak, C.F., Department of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received June 1986.

PI 503551 to 503552-continued

PI 503551 **donor id:** Burt M860 Line c. **origin:** United States.
pedigree: Mutant of Burt, CI 12696 induced by gamma radiation. **remarks:** Soft white type. Height reduced. Plant waxy. Yield good. Winter Annual. Cultivated. Seed.

PI 503552 **donor id:** Karcag 522 M7K. **origin:** United States.
pedigree: Mutant of Karcag, induced by gamma radiation. **remarks:** Hard red type. Height reduced. Karcag M522 line M7 mutant induced by Viglasi in Hungary. Winter Annual. Cultivated. Seed.

PI 503553 to 503555. *Triticum durum* Desf. POACEAE Durum wheat

Donated by Konzak, C.F., Department of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received June 1986.

PI 503553 **donor id:** Vic SD1 Line b. **origin:** United States.
pedigree: Selection from mutagen-treated Vic. **remarks:** Height reduced. Cultivated. Seed.

PI 503554 **donor id:** Z83251-4. **origin:** United States. **pedigree:** Vic Brown Chaff Mutant/Vic SD1. **remarks:** Height reduced. Cultivated. Seed.

PI 503555 **origin:** Italy. **cultivar:** Icaro. **pedigree:** Mutagen-induced mutant semi-dwarf form cv Anhinga. **remarks:** Height reduced. Cultivated. Seed.

PI 503556 to 503558. *Arachis hypogaea* L. FABACEAE Peanut

Donated by Peanut Research Institute, Shan Dong Province, Lai Xi County, Peoples Republic of China. Received May 1986.

PI 503556 **origin:** China, Peoples Repub of. **cultivar:** Dong Ming chi. **remarks:** Small peanut. Cultivated. Seed.

PI 503557 **origin:** China, Peoples Repub of. **remarks:** Rough skin peanut (Ma Pe). Cultivated. Seed.

PI 503558 **origin:** China, Peoples Repub of. **cultivar:** Xing Tai Si Yin Zi. Cultivated. Seed.

PI 503559 to 503577. *Zea mays* L. POACEAE Field corn

Donated by Drees, M., Native Seeds/SEARCH, Tucson, Arizona, United States. Received January 1986.

PI 503559 to 503577-continued

- PI 503559 donor id: GN84. origin: Mexico. other id: A-4610.
other id: Z18-007. locality: E.A. Pena & M.J.M. Duarte
farm, Maicova, Sonora. latitude: 28 deg. 23 min. N.
longitude: 108 deg. 40 min. W. elevation: 1530m.
remarks: Preliminary race identification Tabloncillo &
Gordo. Fruit medium to large. Mean row number 10.1. Seeds
white and yellow, flint/flour type. Cultivated. Seed.
- PI 503560 donor id: GN8485B. origin: Mexico. local name: Azul.
other id: A-4600. other id: Z14-006. locality: Farm, El
Seis. latitude: 29 deg. 05 min. N. longitude: 108 deg.
22 min. W. elevation: 2200m. remarks: Preliminary race
identification Maiz Azul. Mean row number 10.9. Seeds
blue, flint/flour type. Cultivated. Seed.
- PI 503561 donor id: GN8485C. origin: Mexico. local name: Blanco.
other id: A-4609. other id: Z10-004. locality: Farm, El
Seis. latitude: 29 deg. 05 min. N. longitude: 108 deg.
22 min. W. elevation: 2200m. remarks: Preliminary race
identification Blando/Tabloncillo. Mean row number 11.7.
Seeds white/blue, flint/flour type. Cultivated. Seed.
- PI 503562 donor id: GN84203. origin: United States. other id:
A-4607. other id: Z0317. locality: C. Honanie,
Kykotsmovi, Arizona. latitude: 35 deg. 52 min. N.
longitude: 110 deg. 37 min. W. remarks: Preliminary race
identification Pueblo. Mean row number 14. Seeds blue,
flour type. Cultivated. Seed.
- PI 503563 donor id: GN84182. origin: United States. local name:
Huun. other id: A-4604. other id: Z01-012. locality:
A. Cooley farm, lower Santan near Sacaton, Arizona.
latitude: 33 deg. 07 min. N. longitude: 114 deg. 41 min.
W. remarks: Preliminary race identification Pima-Papago.
Fruit small to medium. Mean row number 11.3. Seeds
white/yellow, flour/ flint type. Cultivated. Seed.
- PI 503564 donor id: GN84198. origin: United States. other id:
A-4611. other id: Z03-020. locality: N. Fred farm,
Bacabi, Arizona. latitude: 35 deg. 55 min. N.
longitude: 110 deg. 39 min. W. remarks: Preliminary race
identification Pueblo. Mean row number 12.8. Seeds
blue/white, red flour/semi-dent type. Cultivated. Seed.
- PI 503565 donor id: GN84200. origin: United States. other id:
A-4596. other id: Z04-017. locality: T. Lamson farm,
Hotevilla, Arizona. latitude: 35 deg. 55 min. N.
longitude: 110 deg. 40 min. W. remarks: Preliminary race
identification Pueblo. Mean row number 13.3. Seeds white,
flour/semi-dent type. Cultivated. Seed.

PI 503559 to 503577-continued

- PI 503566 donor id: GN84201. origin: United States. local name: Blue corn. other id: A-4597. other id: Z03-018. locality: T. Lamson farm, Hotevilla, Arizona. latitude: 35 deg. 55 min. N. longitude: 110 deg. 40 min. W. remarks: Preliminary race identification Pueblo. Mean row number 12.5. Seeds blue, flour type. Cultivated. Seed.
- PI 503567 donor id: GN84209. origin: United States. local name: Quotsa kai. other id: A-4613. other id: Z04-015. locality: E. Sekawooyeoma farm, Hotevilla, Arizona. latitude: 35 deg. 55 min. N. longitude: 110 deg. 40 min. W. remarks: Preliminary race identification Pueblo. Mean row number 11.6. Seeds white/pink, flour/semi-dent type. Cultivated. Seed.
- PI 503568 donor id: GN84211. origin: United States. local name: Nahav kumi, or Southern Paiute. other id: A-4599. other id: Z10-010. locality: M. Lehi farm, Hidden Springs, Arizona. latitude: 36 deg. 11 min. N. longitude: 111 deg. 23 min. W. remarks: Preliminary race identification Pueblo. Fruit medium to large. Mean row number 12.0. Seeds blue/yellow/red/white/ spotted, flour type. Cultivated. Seed.
- PI 503569 donor id: MD8414. origin: Mexico. local name: Batchi. other id: A-4602. other id: Z11-007. locality: R. Urrea farm, Sanael, Sonora. latitude: 27 deg. 30 min. N. longitude: 109 deg. 27 min. W. elevation: 90m. remarks: Preliminary race identification Tuxpeno. Fruit small to large, thick. Mean row number 13.8. Seeds clear/yellow/pink, flint/flour/dent type. Cultivated. Seed.
- PI 503570 donor id: MD8465. origin: Mexico. local name: Blando/Totahu:n. other id: A-4603. other id: Z20-003. locality: E.A. Pena & M.J.M. Duarte farm, Maicova, Sonora. latitude: 28 deg. 23 min. N. longitude: 108 deg. 40 min. W. elevation: 1530m. remarks: Preliminary race identification Blando de Sonora. Fruit medium to large. Mean row number 10.4. Seeds white, flour type. Cultivated. Seed.
- PI 503571 donor id: MD8466. origin: Mexico. local name: Tuthu:n. other id: A-4612. other id: Z14-004. locality: E.P. Valesquez farm, Maicova, Sonora. latitude: 28 deg. 23 min. N. longitude: 108 deg. 40 min. W. elevation: 1530m. remarks: Preliminary race identification Maiz Azul. Fruit medium to large. Mean row number 11. Seeds blue, flint/flour type. Cultivated. Seed.

PI 503559 to 503577-continued

- PI 503572 donor id: GN8485A. origin: Mexico. other id: A-4606. other id: Z14-005. locality: Farm, El Seis. latitude: 29 deg. 05 min. N. longitude: 108 deg. 22 min. W. elevation: 2200m. remarks: Preliminary race identification Maiz Azul. Mean row number 11.6. Seeds red striped, flint/flour type. Cultivated. Seed.
- PI 503573 donor id: MD8487. origin: United States. local name: Huun. other id: A-4608. other id: Z01-010. locality: M. Andrews farm, Papago Reservation, Choulic, Arizona. latitude: 31 deg. 10 min. N. longitude: 114 deg. 10 min. W. remarks: Preliminary race identification Pima-Papago. Fruit small. Mean row number 10.6. Seeds white, flour type. Cultivated. Seed.
- PI 503574 donor id: MD8491. origin: Mexico. local name: Chapalote. other id: A-4595. other id: Z02-008. locality: F.U. Cruz farm, near Rio Fuerte, Capomas, Sinaloa. latitude: 26 deg. 25 min. N. longitude: 108 deg. 31 min. W. elevation: 190m. remarks: Preliminary race identification Chapalote. Fruit tiny to medium. Mean row number 12.9. Seeds brown/tan/yellow, popcorn type. Cultivated. Seed.
- PI 503575 donor id: MD8503. origin: Mexico. local name: Ocho de Carrera. other id: A-4605. other id: Z26-001. locality: Farm, El Fuerte, Capomas, Sinaloa. latitude: 26 deg. 25 min. N. longitude: 108 deg. 31 min. W. elevation: 190m. remarks: Preliminary race identification Tabloncillo Perla. Fruit long, slender. Mean row number 8. Seeds white, clear, flint/flour/dent type. Cultivated. Seed.
- PI 503576 donor id: MD8506. origin: Mexico. local name: Cacabatchi. other id: A-4598. other id: Z07-011. locality: F.U. Cruz farm, El Fuerte, Capomas, Sinaloa. latitude: 26 deg. 25 min. N. longitude: 108 deg. 31 min. W. elevation: 190m. remarks: Preliminary race identification Maiz Dulce. Fruit medium. Mean row number 13.2. Seeds yellow, sweet type. Cultivated. Seed.
- PI 503577 donor id: MD8507. origin: Mexico. local name: Tosabatchi. other id: A-4601. other id: Z20-010. locality: A. Vega farm, El Fuerte, Capomas, Sinaloa. latitude: 26 deg. 25 min. N. longitude: 108 deg. 31 min. W. elevation: 190m. remarks: Preliminary race identification Blando de Sonora. Mean row number 11.3. Fruit brittle. Seeds white, flour type. Cultivated. Seed.

PI 503578. *Triticum boeoticum* Boiss. POACEAE Wild einkorn

Donated by Waines, J.G., Department of Plant Sciences, University of California, Riverside, California, United States. Selection from the B.L. Johnson collection. Received June 1986.

PI 503578 donor id: G 2539. origin: Iran. locality: Northwest, 47km of Shahabad. elevation: 1500m. Primitive Cultivar. Seed.

PI 503579 to 503580. *Brassica pekinensis* (Lour.) Rupr. BRASSICACEAE Chinese cabbage

Donated by Ahn, W.S., Rural Development Administration, Ministry of Agriculture & Fishery, 250 Seodun Dong, Suweon, Korea. Received through G.A. White, Germplasm Introduction and Evaluation Laboratory, USDA-ARS, Beltsville, Maryland. Received June 1986.

PI 503579 origin: Korea, Republic of. remarks: Female parent of Sambok, known as 60 days. Cultivated. Seed.

PI 503580 origin: Korea, Republic of. remarks: Male parent of Sambok, known as TFFL. Cultivated. Seed.

PI 503581. *Capsicum annuum* L. SOLANACEAE Pimiento

Donated by Ahn, W.S., Rural Development Administration, Ministry of Agriculture & Fishery, 250 Seodun Dong, Suweon, Korea. Received through G.A. White, Germplasm Introduction and Evaluation Laboratory, USDA-ARS, Beltsville, Maryland. Received June 1986.

PI 503581 origin: Korea, Republic of. cultivar: Daepoong. remarks: Hot pepper. Cultivar. Seed.

PI 503582. *Salvia officinalis* L. LAMIACEAE Garden sage

Donated by Kisgeci, J., Faculty of Agriculture Novi Sad, Institute of Field and Vegetable Crops, 21000 Novi Sad, M. Gorkog 30, Yugoslavia. Received July 1986.

PI 503582 origin: Yugoslavia. locality: Dalmatia region. Seed.

PI 503583 to 503593. *Cichorium endivia* var. *crispum* Lam. ASTERACEAE Endive

Donated by Institut fur Zuchtungsforschung, Quedlinburg, German Democratic Republic. Received April 1986.

PI 503583 donor id: CICH 14/77. origin: German Democratic Repub. cultivar: Agidi - Salat. Cultivated. Seed.

PI 503583 to 503593-continued

- PI 503584 donor id: CICH 1/76. origin: German Democratic Repub.
cultivar: Balkan 1941:1290. Cultivated. Seed.
- PI 503585 donor id: CICH 9/81. origin: German Democratic Repub.
cultivar: Cordonella Barese. Cultivar. Seed.
- PI 503586 donor id: CICH 16/75. origin: German Democratic Repub.
cultivar: Imperial. Cultivar. Seed.
- PI 503587 donor id: CICH 30/81. origin: German Democratic Repub.
cultivar: Indivia Riccia Grossa di Pancaliari.
Cultivated. Seed.
- PI 503588 donor id: CICH 23/77. origin: Italy. cultivar: Italien
1950:228. Cultivated. Seed.
- PI 503589 donor id: CICH 11/77. origin: German Democratic Repub.
cultivar: Italienische Gruene. Cultivated. Seed.
- PI 503590 donor id: CICH 12/76. origin: German Democratic Repub.
cultivar: Meaux. Cultivar. Seed.
- PI 503591 donor id: CICH 26/78. origin: German Democratic Repub.
cultivar: Pavia. Cultivar. Seed.
- PI 503592 donor id: CICH 13/78. origin: German Democratic Repub.
cultivar: Ruffec. other id: NSL 95236. Cultivar. Seed.
- PI 503593 donor id: CICH 27/80. origin: Spain. cultivar: Spanien
1978:SNR:364. Cultivated. Seed.

PI 503594 to 503600. *Cichorium endivia* var. *latifolium* Lam. ASTERACEAE
Escarolle

Donated by Institut fur Zuchtungsforschung, Quedlinburg, German
Democratic Republic. Received April 1986.

- PI 503594 donor id: CICH 34/78. origin: German Democratic Repub.
cultivar: Balkan 1942:131 Tripolis. Cultivated. Seed.
- PI 503595 donor id: CICH 31/78. origin: German Democratic Repub.
cultivar: Bordeaux. Cultivar. Seed.
- PI 503596 donor id: CICH 33/75. origin: German Democratic Repub.
cultivar: Breiter Gruener Vollh. Cultivar. Seed.
- PI 503597 donor id: CICH 42/76. origin: German Democratic Repub.
cultivar: Escariol Gruener. Cultivar. Seed.
- PI 503598 donor id: CICH 32/75. origin: German Democratic Repub.
cultivar: Gruener Riesen. Cultivar. Seed.

PI 503594 to 503600-continued

PI 503599 **donor id:** CICH 40/77. **origin:** Italy. **cultivar:** Italien 1950:470 Cosenza. Cultivated. Seed.

PI 503600 **donor id:** CICH 41/80. **origin:** German Democratic Repub. **remarks:** Leaves red. Cultivated. Seed.

PI 503601. *Cichorium intybus* L. ASTERACEAE Chicory

Donated by Institut fur Zuchtungsforschung, Quedlinburg, German Democratic Republic. Received April 1986.

PI 503601 **origin:** German Democratic Repub. **cultivar:** Pegasus. Cultivar. Seed.

PI 503602 to 503643. *Lactuca sativa* L. ASTERACEAE Lettuce

Donated by Institut fur Zuchtungsforschung, Quedlinburg, German Democratic Republic. Received April 1986.

PI 503602 **donor id:** LAC 1/74. **origin:** German Democratic Repub. **cultivar:** Attraktion. **remarks:** Butterhead type. Seeds white. Cultivar. Seed.

PI 503603 **origin:** German Democratic Repub. **cultivar:** Bianka. **remarks:** Butterhead type. Seeds brown. Cultivar. Seed.

PI 503604 **donor id:** LAC 2/74. **origin:** German Democratic Repub. **cultivar:** Bismarck. **remarks:** Butterhead type. Seeds white. Cultivar. Seed.

PI 503605 **donor id:** LAC 80/74. **origin:** German Democratic Repub. **cultivar:** Brauner Winter. **remarks:** Butterhead type. Seeds white. Cultivar. Seed.

PI 503606 **donor id:** LAC 68/73. **origin:** German Democratic Repub. **cultivar:** Brunetta. **remarks:** Butterhead type. Seeds white. Cultivar. Seed.

PI 503607 **donor id:** LAC 81/73. **origin:** German Democratic Repub. **cultivar:** Bunte Forellen. **remarks:** Romaine type. Seeds white. Cultivar. Seed.

PI 503608 **donor id:** LAC 84/73. **origin:** German Democratic Repub. **cultivar:** Dippes Futura. **remarks:** Butterhead type. Seeds white. Cultivar. Seed.

PI 503609 **origin:** German Democratic Repub. **cultivar:** Divalo. **remarks:** Butterhead type. Cultivar. Seed.

PI 503602 to 503643-continued

- PI 503610 **origin:** German Democratic Repub. **cultivar:** Dua.
remarks: Butterhead type. Cultivar. Seed.
- PI 503611 **donor id:** LAC 89/74. **origin:** German Democratic Repub.
cultivar: Fruhlingsgruss. **remarks:** Butterhead type.
Cultivar. Seed.
- PI 503612 **donor id:** LAC 7/74. **origin:** German Democratic Repub.
cultivar: Furchtenichts. **remarks:** Butterhead type.
Cultivar. Seed.
- PI 503613 **donor id:** LAC 69/73. **origin:** German Democratic Repub.
cultivar: Gigant. **remarks:** Butterhead type. Cultivar.
Seed.
- PI 503614 **donor id:** LAC 90/74. **origin:** German Democratic Repub.
cultivar: Gravitas. **remarks:** Butterhead type. Cultivar.
Seed.
- PI 503615 **donor id:** LAC 94/79. **origin:** German Democratic Repub.
cultivar: Hilmar. **remarks:** Butterhead type. Cultivar.
Seed.
- PI 503616 **donor id:** LAC 95/79. **origin:** German Democratic Repub.
cultivar: Hitzkopf. **remarks:** Butterhead type. Cultivar.
Seed.
- PI 503617 **donor id:** LAC 96/74. **origin:** German Democratic Repub.
cultivar: Hoffmanns Aurora. **remarks:** Butterhead type.
Cultivar. Seed.
- PI 503618 **donor id:** LAC 99/74. **origin:** German Democratic Repub.
cultivar: Kison. **remarks:** Butterhead type. Cultivar.
Seed.
- PI 503619 **donor id:** LAC 37/73. **origin:** German Democratic Repub.
cultivar: Krauser Treib. **remarks:** Butterhead type.
Cultivar. Seed.
- PI 503620 **origin:** German Democratic Repub. **cultivar:** Laresta.
remarks: Leaf type. Cultivar. Seed.
- PI 503621 **origin:** German Democratic Repub. **cultivar:** Mona.
remarks: Butterhead type. Cultivar. Seed.
- PI 503622 **origin:** German Democratic Repub. **cultivar:** Muck.
remarks: Butterhead type. Cultivar. Seed.
- PI 503623 **origin:** German Democratic Repub. **cultivar:** Pirat.
remarks: Leaf type. Cultivar. Seed.

PI 503602 to 503643-continued

- PI 503624 donor id: LAC 12/74. origin: German Democratic Repub.
cultivar: Prefere. remarks: Romaine type. Cultivar.
Seed.
- PI 503625 donor id: LAC 13/74. origin: German Democratic Repub.
cultivar: Prinz v. Loewenstein. remarks: Leaf type.
Cultivar. Seed.
- PI 503626 donor id: LAC 42/74. origin: German Democratic Repub.
cultivar: Quedlinburg Dickkopf. remarks: Butterhead
type. Cultivar. Seed.
- PI 503627 donor id: LAC 43/74. origin: German Democratic Repub.
cultivar: Quedlinburg Durana. remarks: Butterhead type.
Cultivar. Seed.
- PI 503628 donor id: LAC 135/74. origin: German Democratic Repub.
cultivar: Ramses. remarks: Romaine type. Cultivar.
Seed.
- PI 503629 donor id: LAC 135/74. origin: German Democratic Repub.
cultivar: Ramses. remarks: Butterhead type. Cultivar.
Seed.
- PI 503630 donor id: LAC 137/74. origin: German Democratic Repub.
cultivar: Rheingold. remarks: Butterhead type.
Cultivar. Seed.
- PI 503631 origin: German Democratic Repub. cultivar: Start.
remarks: Butterhead type. Cultivar. Seed.
- PI 503632 donor id: LAC 64/73. origin: German Democratic Repub.
cultivar: Tempo. remarks: Butterhead type. Cultivar.
Seed.
- PI 503633 origin: German Democratic Repub. cultivar: Verna.
remarks: Butterhead type. Cultivar. Seed.
- PI 503634 donor id: LAC 19/74. origin: German Democratic Repub.
cultivar: Victoria. remarks: Butterhead type. Cultivar.
Seed.
- PI 503635 origin: German Democratic Repub. cultivar: Winter
Butterkopf. remarks: Butterhead type. Cultivar. Seed.
- PI 503636 donor id: LAC 22/74. origin: German Democratic Repub.
cultivar: Winter v. Stuttgart. remarks: Butterhead type.
Cultivar. Seed.

PI 503602 to 503643-continued

- PI 503637 donor id: LAC 325/79. origin: Soviet Union. cultivar: CSSR Nr. 31 b. remarks: Butterhead type. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503638 donor id: K 5674/82. origin: Soviet Union. cultivar: CSSR 1981:54. remarks: Butterhead type. Seeds white. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503639 donor id: K 5676/82. origin: Soviet Union. cultivar: CSSR 1981:90. remarks: Leaf type. Seeds white. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503640 donor id: K 5676/82. origin: Soviet Union. cultivar: CSSR 1981:90. remarks: Butterhead type. Seeds white. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503641 donor id: K 5641/82. origin: Italy. cultivar: Suditalien 1981:7456. remarks: Butterhead type. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503642 donor id: K 5675/82. origin: Soviet Union. cultivar: CSSR 1981:81. remarks: Butterhead type. Seeds white. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.
- PI 503643 donor id: K 5892/83. origin: Soviet Union. cultivar: Georgian SSR 1982:362. remarks: Butterhead type. received as: Lactuca sativa conv. incocta var. cap. Cultivated. Seed.

PI 503644. Avena sativa L. POACEAE Common oat

Donated by Marshall, H.G., USDA-ARS, Department of Agronomy, Pennsylvania State University, University Park, Pennsylvania, United States. Received June 1986.

- PI 503644 donor id: PA 8098-13900. origin: United States. cultivar: Hercules. pedigree: Dal/Noble. remarks: Plants 5cm taller, more resistant to lodging and 2 days later than Ogle. Leaves and sheaths glabrous. disease resistance: Resistant to loose smut. Cultivar. Seed.

PI 503645 to 503864. Zea mays L. POACEAE Field corn

Donated by Sevilla P., R., Programa Cooperativo De Investigaciones en Maiz, Universidad Nacional Agraria, La Molina, Lima, Peru.
Received June 1986.

PI 503645	donor id: Ancash 35.	origin: Peru.	Cultivated.	Seed.
PI 503646	donor id: Ancash 36.	origin: Peru.	Cultivated.	Seed.
PI 503647	donor id: Ancash 39.	origin: Peru.	Cultivated.	Seed.
PI 503648	donor id: Ancash 40.	origin: Peru.	Cultivated.	Seed.
PI 503649	donor id: Ancash 43.	origin: Peru.	Cultivated.	Seed.
PI 503650	donor id: Ancash 49.	origin: Peru.	Cultivated.	Seed.
PI 503651	donor id: Ancash 50.	origin: Peru.	Cultivated.	Seed.
PI 503652	donor id: Ancash 189.	origin: Peru.	Cultivated.	Seed.
PI 503653	donor id: Ancash 210.	origin: Peru.	Cultivated.	Seed.
PI 503654	donor id: Ancash 212.	origin: Peru.	Cultivated.	Seed.
PI 503655	donor id: Ancash 223.	origin: Peru.	Cultivated.	Seed.
PI 503656	donor id: Ancash 224.	origin: Peru.	Cultivated.	Seed.
PI 503657	donor id: Ancash 260.	origin: Peru.	Cultivated.	Seed.
PI 503658	donor id: Ancash 302.	origin: Peru.	Cultivated.	Seed.
PI 503659	donor id: Ancash 375.	origin: Peru.	Cultivated.	Seed.
PI 503660	donor id: Ancash 385.	origin: Peru.	Cultivated.	Seed.
PI 503661	donor id: Apurimac 31.	origin: Peru.	Cultivated.	Seed.
PI 503662	donor id: Apurimac 92.	origin: Peru.	Cultivated.	Seed.
PI 503663	donor id: Apurimac 242.	origin: Peru.	Cultivated.	Seed.
PI 503664	donor id: Arequipa 48.	origin: Peru.	Cultivated.	Seed.
PI 503665	donor id: Arequipa 49.	origin: Peru.	Cultivated.	Seed.
PI 503666	donor id: Arequipa 73.	origin: Peru.	Cultivated.	Seed.
PI 503667	donor id: Arequipa 74.	origin: Peru.	Cultivated.	Seed.
PI 503668	donor id: Arequipa 77.	origin: Peru.	Cultivated.	Seed.

PI 503645 to 503864-continued

PI 503669 donor id: Arequipa 82. origin: Peru. Cultivated. Seed.
PI 503670 donor id: Arequipa 128. origin: Peru. Cultivated.
Seed.
PI 503671 donor id: Cuzco 09. origin: Peru. Cultivated. Seed.
PI 503672 donor id: Cuzco 107. origin: Peru. Cultivated. Seed.
PI 503673 donor id: Cuzco 278. origin: Peru. Cultivated. Seed.
PI 503674 donor id: Cuzco 316. origin: Peru. Cultivated. Seed.
PI 503675 donor id: Cuzco 320. origin: Peru. Cultivated. Seed.
PI 503676 donor id: Cuzco 343. origin: Peru. Cultivated. Seed.
PI 503677 donor id: Cuzco 344. origin: Peru. Cultivated. Seed.
PI 503678 donor id: Cuzco 352. origin: Peru. Cultivated. Seed.
PI 503679 donor id: Cuzco 354. origin: Peru. Cultivated. Seed.
PI 503680 donor id: Cuzco 356. origin: Peru. Cultivated. Seed.
PI 503681 donor id: Cuzco 363. origin: Peru. Cultivated. Seed.
PI 503682 donor id: Cuzco 364. origin: Peru. Cultivated. Seed.
PI 503683 donor id: Cuzco 365. origin: Peru. Cultivated. Seed.
PI 503684 donor id: Cuzco 367. origin: Peru. Cultivated. Seed.
PI 503685 donor id: Cuzco 369. origin: Peru. Cultivated. Seed.
PI 503686 donor id: Cuzco 370. origin: Peru. Cultivated. Seed.
PI 503687 donor id: Cuzco 371. origin: Peru. Cultivated. Seed.
PI 503688 donor id: Cuzco 372. origin: Peru. Cultivated. Seed.
PI 503689 donor id: Huancavelica 28. origin: Peru. Cultivated.
Seed.
PI 503690 donor id: Huancavelica 174. origin: Peru. Cultivated.
Seed.
PI 503691 donor id: Huancavelica 175. origin: Peru. Cultivated.
Seed.
PI 503692 donor id: Huancavelica 177. origin: Peru. Cultivated.
Seed.

PI 503645 to 503864-continued

PI 503693 donor id: Huancavelica 179. origin: Peru. Cultivated. Seed.

PI 503694 donor id: Huancavelica 181. origin: Peru. Cultivated. Seed.

PI 503695 donor id: Huanuco 119. origin: Peru. Cultivated. Seed.

PI 503696 donor id: Junin 21. origin: Peru. Cultivated. Seed.

PI 503697 donor id: Junin 43. origin: Peru. Cultivated. Seed.

PI 503698 donor id: Junin 50. origin: Peru. Cultivated. Seed.

PI 503699 donor id: Junin 61. origin: Peru. Cultivated. Seed.

PI 503700 donor id: Junin 139. origin: Peru. Cultivated. Seed.

PI 503701 donor id: Junin 141. origin: Peru. Cultivated. Seed.

PI 503702 donor id: Junin 150. origin: Peru. Cultivated. Seed.

PI 503703 donor id: Junin 151. origin: Peru. Cultivated. Seed.

PI 503704 donor id: Junin 153. origin: Peru. Cultivated. Seed.

PI 503705 donor id: Junin 154. origin: Peru. Cultivated. Seed.

PI 503706 donor id: Junin 158. origin: Peru. Cultivated. Seed.

PI 503707 donor id: Junin 160. origin: Peru. Cultivated. Seed.

PI 503708 donor id: Junin 161. origin: Peru. Cultivated. Seed.

PI 503709 donor id: Junin 162. origin: Peru. Cultivated. Seed.

PI 503710 donor id: Junin 163. origin: Peru. Cultivated. Seed.

PI 503711 donor id: Junin 164. origin: Peru. Cultivated. Seed.

PI 503712 donor id: Junin 187. origin: Peru. Cultivated. Seed.

PI 503713 donor id: Junin 193. origin: Peru. Cultivated. Seed.

PI 503714 donor id: Junin 197. origin: Peru. Cultivated. Seed.

PI 503715 donor id: Junin 201. origin: Peru. Cultivated. Seed.

PI 503716 donor id: Lambayeque 10. origin: Peru. Cultivated. Seed.

PI 503645 to 503864-continued

PI 503717	donor id: Lambayeque 25.	origin: Peru.	Cultivated. Seed.
PI 503718	donor id: Lambayeque 26.	origin: Peru.	Cultivated. Seed.
PI 503719	donor id: Lambayeque 28.	origin: Peru.	Cultivated. Seed.
PI 503720	donor id: Lambayeque 29.	origin: Peru.	Cultivated. Seed.
PI 503721	donor id: Lambayeque 30.	origin: Peru.	Cultivated. Seed.
PI 503722	donor id: Lambayeque 35.	origin: Peru.	Cultivated. Seed.
PI 503723	donor id: Lambayeque 36.	origin: Peru.	Cultivated. Seed.
PI 503724	donor id: Lambayeque 37.	origin: Peru.	Cultivated. Seed.
PI 503725	donor id: Lambayeque 38.	origin: Peru.	Cultivated. Seed.
PI 503726	donor id: Lambayeque 39.	origin: Peru.	Cultivated. Seed.
PI 503727	donor id: Lambayeque 40.	origin: Peru.	Cultivated. Seed.
PI 503728	donor id: Lambayeque 42.	origin: Peru.	Cultivated. Seed.
PI 503729	donor id: Lambayeque 43.	origin: Peru.	Cultivated. Seed.
PI 503730	donor id: Lambayeque 44.	origin: Peru.	Cultivated. Seed.
PI 503731	donor id: Lambayeque 45.	origin: Peru.	Cultivated. Seed.
PI 503732	donor id: Lambayeque 46.	origin: Peru.	Cultivated. Seed.
PI 503733	donor id: Lambayeque 48.	origin: Peru.	Cultivated. Seed.

PI 503645 to 503864-continued

PI 503734	donor id: Lambayeque 50. Seed.	origin: Peru.	Cultivated.
PI 503735	donor id: Lambayeque 52. Seed.	origin: Peru.	Cultivated.
PI 503736	donor id: Lambayeque 53. Seed.	origin: Peru.	Cultivated.
PI 503737	donor id: Lambayeque 54. Seed.	origin: Peru.	Cultivated.
PI 503738	donor id: Lambayeque 55. Seed.	origin: Peru.	Cultivated.
PI 503739	donor id: Lambayeque 56. Seed.	origin: Peru.	Cultivated.
PI 503740	donor id: Lambayeque 57. Seed.	origin: Peru.	Cultivated.
PI 503741	donor id: Lambayeque 58. Seed.	origin: Peru.	Cultivated.
PI 503742	donor id: Lambayeque 59. Seed.	origin: Peru.	Cultivated.
PI 503743	donor id: Lambayeque 62. Seed.	origin: Peru.	Cultivated.
PI 503744	donor id: Lambayeque 63. Seed.	origin: Peru.	Cultivated.
PI 503745	donor id: Lambayeque 64. Seed.	origin: Peru.	Cultivated.
PI 503746	donor id: Lambayeque 65. Seed.	origin: Peru.	Cultivated.
PI 503747	donor id: Lambayeque 66. Seed.	origin: Peru.	Cultivated.
PI 503748	donor id: Lambayeque 68. Seed.	origin: Peru.	Cultivated.
PI 503749	donor id: Lambayeque 74. Seed.	origin: Peru.	Cultivated.
PI 503750	donor id: Lambayeque 75. Seed.	origin: Peru.	Cultivated.

PI 503645 to 503864-continued

PI 503751	donor id: Lambayeque 76. Seed.	origin: Peru.	Cultivated.
PI 503752	donor id: Lambayeque 79. Seed.	origin: Peru.	Cultivated.
PI 503753	donor id: Lambayeque 81. Seed.	origin: Peru.	Cultivated.
PI 503754	donor id: Lambayeque 83. Seed.	origin: Peru.	Cultivated.
PI 503755	donor id: Lambayeque 84. Seed.	origin: Peru.	Cultivated.
PI 503756	donor id: Lambayeque 85. Seed.	origin: Peru.	Cultivated.
PI 503757	donor id: Lambayeque 86. Seed.	origin: Peru.	Cultivated.
PI 503758	donor id: Lambayeque 89. Seed.	origin: Peru.	Cultivated.
PI 503759	donor id: Lambayeque 92. Seed.	origin: Peru.	Cultivated.
PI 503760	donor id: Lambayeque 95. Seed.	origin: Peru.	Cultivated.
PI 503761	donor id: Lambayeque 96. Seed.	origin: Peru.	Cultivated.
PI 503762	donor id: Lambayeque 97. Seed.	origin: Peru.	Cultivated.
PI 503763	donor id: Lambayeque 100. Seed.	origin: Peru.	Cultivated.
PI 503764	donor id: Lambayeque 103. Seed.	origin: Peru.	Cultivated.
PI 503765	donor id: Lambayeque 104. Seed.	origin: Peru.	Cultivated.
PI 503766	donor id: Lambayeque 105. Seed.	origin: Peru.	Cultivated.
PI 503767	donor id: Lambayeque 107. Seed.	origin: Peru.	Cultivated.

PI 503645 to 503864-continued

PI 503768	donor id: Lambayeque 109. Seed.	origin: Peru.	Cultivated.
PI 503769	donor id: Lambayeque 110. Seed.	origin: Peru.	Cultivated.
PI 503770	donor id: Lambayeque 111. Seed.	origin: Peru.	Cultivated.
PI 503771	donor id: Lambayeque 112. Seed.	origin: Peru.	Cultivated.
PI 503772	donor id: Lambayeque 113. Seed.	origin: Peru.	Cultivated.
PI 503773	donor id: Lambayeque 114. Seed.	origin: Peru.	Cultivated.
PI 503774	donor id: Lambayeque 117. Seed.	origin: Peru.	Cultivated.
PI 503775	donor id: Lambayeque 118. Seed.	origin: Peru.	Cultivated.
PI 503776	donor id: Lambayeque 119. Seed.	origin: Peru.	Cultivated.
PI 503777	donor id: Lambayeque 120. Seed.	origin: Peru.	Cultivated.
PI 503778	donor id: Lambayeque 130. Seed.	origin: Peru.	Cultivated.
PI 503779	donor id: Lambayeque 131. Seed.	origin: Peru.	Cultivated.
PI 503780	donor id: Lambayeque 132. Seed.	origin: Peru.	Cultivated.
PI 503781	donor id: Lambayeque 133. Seed.	origin: Peru.	Cultivated.
PI 503782	donor id: Lambayeque 134. Seed.	origin: Peru.	Cultivated.
PI 503783	donor id: Lambayeque 136. Seed.	origin: Peru.	Cultivated.
PI 503784	donor id: Lambayeque 137. Seed.	origin: Peru.	Cultivated.

PI 503645 to 503864-continued

PI 503785 donor id: Lambayeque 138. origin: Peru. Cultivated. Seed.

PI 503786 donor id: Lambayeque 140. origin: Peru. Cultivated. Seed.

PI 503787 donor id: Lambayeque 141. origin: Peru. Cultivated. Seed.

PI 503788 donor id: Lima 94. origin: Peru. Cultivated. Seed.

PI 503789 donor id: Lima 98. origin: Peru. Cultivated. Seed.

PI 503790 donor id: Lima 99. origin: Peru. Cultivated. Seed.

PI 503791 donor id: Lima 100. origin: Peru. Cultivated. Seed.

PI 503792 donor id: Lima 101. origin: Peru. Cultivated. Seed.

PI 503793 donor id: Lima 102. origin: Peru. Cultivated. Seed.

PI 503794 donor id: Lima 103. origin: Peru. Cultivated. Seed.

PI 503795 donor id: Lima 104. origin: Peru. Cultivated. Seed.

PI 503796 donor id: Piura 02. origin: Peru. Cultivated. Seed.

PI 503797 donor id: Piura 3. origin: Peru. Cultivated. Seed.

PI 503798 donor id: Piura 136. origin: Peru. Cultivated. Seed.

PI 503799 donor id: Piura 137. origin: Peru. Cultivated. Seed.

PI 503800 donor id: Piura 138. origin: Peru. Cultivated. Seed.

PI 503801 donor id: Piura 139. origin: Peru. Cultivated. Seed.

PI 503802 donor id: Piura 140. origin: Peru. Cultivated. Seed.

PI 503803 donor id: Piura 141. origin: Peru. Cultivated. Seed.

PI 503804 donor id: Piura 142. origin: Peru. Cultivated. Seed.

PI 503805 donor id: Piura 143. origin: Peru. Cultivated. Seed.

PI 503806 donor id: Piura 144. origin: Peru. Cultivated. Seed.

PI 503807 donor id: Piura 145. origin: Peru. Cultivated. Seed.

PI 503808 donor id: Piura 146. origin: Peru. Cultivated. Seed.

PI 503809 donor id: Piura 147. origin: Peru. Cultivated. Seed.

PI 503645 to 503864-continued

PI 503810	donor id: Piura 148.	origin: Peru.	Cultivated.	Seed.
PI 503811	donor id: Piura 150.	origin: Peru.	Cultivated.	Seed.
PI 503812	donor id: Piura 151.	origin: Peru.	Cultivated.	Seed.
PI 503813	donor id: Piura 152.	origin: Peru.	Cultivated.	Seed.
PI 503814	donor id: Piura 153.	origin: Peru.	Cultivated.	Seed.
PI 503815	donor id: Piura 154.	origin: Peru.	Cultivated.	Seed.
PI 503816	donor id: Piura 155.	origin: Peru.	Cultivated.	Seed.
PI 503817	donor id: Piura 157.	origin: Peru.	Cultivated.	Seed.
PI 503818	donor id: Piura 158.	origin: Peru.	Cultivated.	Seed.
PI 503819	donor id: Piura 159.	origin: Peru.	Cultivated.	Seed.
PI 503820	donor id: Piura 160.	origin: Peru.	Cultivated.	Seed.
PI 503821	donor id: Piura 161.	origin: Peru.	Cultivated.	Seed.
PI 503822	donor id: Piura 162.	origin: Peru.	Cultivated.	Seed.
PI 503823	donor id: Piura 163.	origin: Peru.	Cultivated.	Seed.
PI 503824	donor id: Piura 164.	origin: Peru.	Cultivated.	Seed.
PI 503825	donor id: Piura 165.	origin: Peru.	Cultivated.	Seed.
PI 503826	donor id: Piura 166.	origin: Peru.	Cultivated.	Seed.
PI 503827	donor id: Piura 168.	origin: Peru.	Cultivated.	Seed.
PI 503828	donor id: Piura 169.	origin: Peru.	Cultivated.	Seed.
PI 503829	donor id: Piura 171.	origin: Peru.	Cultivated.	Seed.
PI 503830	donor id: Piura 172.	origin: Peru.	Cultivated.	Seed.
PI 503831	donor id: Piura 173.	origin: Peru.	Cultivated.	Seed.
PI 503832	donor id: Piura 174.	origin: Peru.	Cultivated.	Seed.
PI 503833	donor id: Piura 175.	origin: Peru.	Cultivated.	Seed.
PI 503834	donor id: Piura 176.	origin: Peru.	Cultivated.	Seed.
PI 503835	donor id: Piura 177.	origin: Peru.	Cultivated.	Seed.

PI 503645 to 503864-continued

PI 503836	donor id: Piura 178.	origin: Peru.	Cultivated.	Seed.
PI 503837	donor id: Piura 180.	origin: Peru.	Cultivated.	Seed.
PI 503838	donor id: Piura 182.	origin: Peru.	Cultivated.	Seed.
PI 503839	donor id: Piura 183.	origin: Peru.	Cultivated.	Seed.
PI 503840	donor id: Piura 184.	origin: Peru.	Cultivated.	Seed.
PI 503841	donor id: Piura 185.	origin: Peru.	Cultivated.	Seed.
PI 503842	donor id: Piura 186.	origin: Peru.	Cultivated.	Seed.
PI 503843	donor id: Piura 190.	origin: Peru.	Cultivated.	Seed.
PI 503844	donor id: Piura 196.	origin: Peru.	Cultivated.	Seed.
PI 503845	donor id: Piura 199.	origin: Peru.	Cultivated.	Seed.
PI 503846	donor id: Piura 205.	origin: Peru.	Cultivated.	Seed.
PI 503847	donor id: Piura 206.	origin: Peru.	Cultivated.	Seed.
PI 503848	donor id: Piura 207.	origin: Peru.	Cultivated.	Seed.
PI 503849	donor id: Piura 208.	origin: Peru.	Cultivated.	Seed.
PI 503850	donor id: Piura 209.	origin: Peru.	Cultivated.	Seed.
PI 503851	donor id: Piura 210.	origin: Peru.	Cultivated.	Seed.
PI 503852	donor id: Piura 212.	origin: Peru.	Cultivated.	Seed.
PI 503853	donor id: Piura 216.	origin: Peru.	Cultivated.	Seed.
PI 503854	donor id: Piura 217.	origin: Peru.	Cultivated.	Seed.
PI 503855	donor id: Piura 218.	origin: Peru.	Cultivated.	Seed.
PI 503856	donor id: Piura 222.	origin: Peru.	Cultivated.	Seed.
PI 503857	donor id: Piura 224.	origin: Peru.	Cultivated.	Seed.
PI 503858	donor id: Piura 225.	origin: Peru.	Cultivated.	Seed.
PI 503859	donor id: Piura 229.	origin: Peru.	Cultivated.	Seed.
PI 503860	donor id: Piura 230.	origin: Peru.	Cultivated.	Seed.
PI 503861	donor id: Tacna 35.	origin: Peru.	Cultivated.	Seed.

PI 503645 to 503864-continued

PI 503862 donor id: Tumbes 04. origin: Peru. Cultivated. Seed.

PI 503863 donor id: Tumbes 13. origin: Peru. Cultivated. Seed.

PI 503864 donor id: Tumbes 17. origin: Peru. Cultivated. Seed.

PI 503865. *Anthyllis vulneraria* L. FABACEAE

Donated by Attila Szabo, T., Institutul Agronomic, Gradina Agrobotanica, Str. Manastur 3, Clug-Napoca, Romania. Received June 1986.

PI 503865 donor id: AV-F1-85;SZTA. origin: Romania. locality: Sincrai. Seed.

PI 503866. *Astragalus cicer* L. FABACEAE Cicer milkvetch

Donated by Attila Szabo, T., Institutul Agronomic, Gradina Agrobotanica, Str. Manastur 3, Clug-Napoca, Romania. Received June 1986.

PI 503866 donor id: CN-ASCI-1. origin: Romania. locality: Sfintu-Gheorghe, TL. Cultivated. Seed.

PI 503867. *Medicago sativa* nsubsp. *varia* (Martyn) Arcang. FABACEAE

Donated by Attila Szabo, T., Institutul Agronomic, Gradina Agrobotanica, Str. Manastur 3, Clug-Napoca, Romania. Received June 1986.

PI 503867 origin: Romania. locality: Murighiol. Seed.

PI 503868. *Melilotus alba* Medikus FABACEAE White sweetclover

Donated by Attila Szabo, T., Institutul Agronomic, Gradina Agrobotanica, Str. Manastur 3, Clug-Napoca, Romania. Received June 1986.

PI 503868 donor id: MA-23a-85;SZTA. origin: Romania. locality: Sfintu-Gheorghe, Delta Dun. Seed.

PI 503869. *Melilotus officinalis* Lam. FABACEAE Yellow sweetclover

Donated by Attila Szabo, T., Institutul Agronomic, Gradina Agrobotanica, Str. Manastur 3, Clug-Napoca, Romania. Received June 1986.

PI 503869-continued

PI 503869 donor id: MO-F29-85;SZTA. origin: Romania. locality:
Cluj. Seed.

PI 503870. *Trifolium arvense* L. FABACEAE Rabbit-foot clover

Donated by Attila Szabo, T., Institutul Agronomic, Gradina
Agrobotanica, Str. Manastur 3, Cluj-Napoca, Romania. Received June
1986.

PI 503870 donor id: TR-70.4.G-85. origin: Romania. locality:
Cluj-Napoca. Seed.

PI 503871. *Miscanthus nepalensis* (Trin.) Hackel POACEAE Nepal silver
grass

Donated by Lehmkuhl, J., Grass Land Ecology Project, Kathmandu,
Nepal. Received July 1986.

PI 503871 origin: Nepal. collected: December 22, 1985. locality:
Open canopy, rocky with thin soil, 30 degree slope,
northern exposure. Sunny and shaded sites. Pinus
Wallichiana forest, Damen. elevation: 2280m. Wild.
Seed.

PI 503872. *Lycopersicon lycopersicum* (L.) Karsten SOLANACEAE Tomato

Donated by Division of Plant & Seed Control, Private Bag X179,
Pretoria 0001, South Africa. Received June 1986.

PI 503872 origin: South Africa. cultivar: Rodade. Cultivar.
Seed.

PI 503873. *Carica papaya* L. CARICACEAE Papaya

Donated by Brinsbury, W., 15 Gibson Place, Howick, Auckland, New
Zealand. Received June 1986.

PI 503873 origin: French Polynesia. locality: Roadside, west of
Pharmacie, Moorea. remarks: Plants 1 m high.
Cultivated. Seed.

PI 503874. *Triticum monococcum* L. POACEAE Einkorn

Donated by Small Grain Centre, Grain Crops Research Institute,
Private Bag X29, Bethlehem, 9700, South Africa. Received July
1986.

PI 503874-continued

PI 503874 donor id: A 544. origin: South Africa. remarks: 2n = 14. insect resistance: Resistant to *Diuraphis noxia*. Breeding Material. Seed.

PI 503875 to 503876. *Triticum* hybrid POACEAE

Donated by Small Grain Centre, Grain Crops Research Institute, Private Bag X29, Bethlehem, 9700, South Africa. Received July 1986.

PI 503875 donor id: ENT 15. origin: South Africa. pedigree: ISWRN 68 - 243/A 544 (*T. monococcum*). other id: 77S4-1. insect resistance: Resistant to *Diuraphis noxia*. Breeding Material. Seed.

PI 503876 donor id: ENT 82. origin: South Africa. pedigree: ISWRN 69 - 555/A 544 (*T. monococcum*). other id: 74S16-2. insect resistance: Resistant to *Diuraphis noxia*. Breeding Material. Seed.

PI 503877 to 503878. *Triticum aestivum* L. POACEAE Common wheat

Donated by Small Grain Centre, Grain Crops Research Institute, Private Bag X29, Bethlehem, 9700, South Africa. Received July 1986.

PI 503877 donor id: T81/13. origin: South Africa. insect resistance: Resistant to *Diuraphis noxia*. Breeding Material. Seed.

PI 503878 donor id: T81/18. origin: South Africa. insect resistance: Resistant to *Diuraphis noxia*. Breeding Material. Seed.

PI 503879. *Fagopyrum esculentum* Moench POLYGONACEAE Buckwheat

Donated by Bonsall, W., Scatterseed Project, P.O. Box 1167, Farmington, Maine, United States. Received July 1986.

PI 503879 origin: United States. local name: Soldier Pond. collected: April 1985. locality: St. John's Valley, Soldier Pond, Maine. Cultivated. Seed.

PI 503880. *Hordeum vulgare* L. POACEAE Barley

Donated by Metcalfe, D.R., Research Station - De Recherche, Agriculture Canada, 195 Dafoe Road, Winnipeg, Manitoba R3T 2M9, Canada. Received June 1986.

PI 503880-continued

PI 503880 donor id: TR212. origin: Canada. cultivar: Ellice.
pedigree:
CI5791/Parkland//Betzes/3/Betzes/Piroline/4/Akka/5/ D D D
D Centennial/6/Klages/7/Cambrinus/Tern. remarks: Plants
medium tall, 2-row type. Maturity medium. Awns rough.
Seeds white, amber. Resistant to lodging and shattering.
Yield good. Malting quality good. Disease resistance.
Spring Annual. Cultivar. Seed.

PI 503881 to 504169. Zea mays L. POACEAE Field corn

Donated by CIMMYT, Mexico, D.F., Mexico. Received through Pioneer
Hi-Bred International, Inc., Dept. of Corn Breeding, Homestead, FL.
Received July 1986.

PI 503881 donor id: Azteca. origin: Mexico. Cultivated. Seed.

PI 503882 donor id: Azteca Tuxpeno. origin: Mexico. Cultivated.
Seed.

PI 503883 donor id: Barbados 2. origin: Barbados. Cultivated.
Seed.

PI 503884 donor id: Barbados GP 1. origin: Barbados. Cultivated.
Seed.

PI 503885 donor id: Barbados GP 2. origin: Barbados. Cultivated.
Seed.

PI 503886 donor id: Brasil Mezcla 3078. origin: Brazil.
Cultivated. Seed.

PI 503887 donor id: Brazil 2339. origin: Brazil. Cultivated.
Seed.

PI 503888 donor id: Brazil 2771. origin: Brazil. Cultivated.
Seed.

PI 503889 donor id: Brazil 2823. origin: Brazil. Cultivated.
Seed.

PI 503890 donor id: Brazil 2901. origin: Brazil. Cultivated.
Seed.

PI 503891 donor id: Brazil 2902. origin: Brazil. Cultivated.
Seed.

PI 503892 donor id: Brazil 2903. origin: Brazil. Cultivated.
Seed.

PI 503881 to 504169-continued

PI 503893	donor id: Brazil 2905. Seed.	origin: Brazil.	Cultivated.
PI 503894	donor id: Brazil 2906. Seed.	origin: Brazil.	Cultivated.
PI 503895	donor id: Brazil 2907. Seed.	origin: Brazil.	Cultivated.
PI 503896	donor id: Brazil 2908. Seed.	origin: Brazil.	Cultivated.
PI 503897	donor id: Brazil 2909. Seed.	origin: Brazil.	Cultivated.
PI 503898	donor id: Brazil 2910. Seed.	origin: Brazil.	Cultivated.
PI 503899	donor id: Brazil 2913. Seed.	origin: Brazil.	Cultivated.
PI 503900	donor id: Brazil 2914. Seed.	origin: Brazil.	Cultivated.
PI 503901	donor id: Brazil 2915. Seed.	origin: Brazil.	Cultivated.
PI 503902	donor id: Brazil 2919. Seed.	origin: Brazil.	Cultivated.
PI 503903	donor id: Brazil 2920. Seed.	origin: Brazil.	Cultivated.
PI 503904	donor id: Brazil 2921. Seed.	origin: Brazil.	Cultivated.
PI 503905	donor id: Brazil 2922. Seed.	origin: Brazil.	Cultivated.
PI 503906	donor id: Brazil 2923. Seed.	origin: Brazil.	Cultivated.
PI 503907	donor id: Brazil 2924. Seed.	origin: Brazil.	Cultivated.
PI 503908	donor id: Brazil 2928. Seed.	origin: Brazil.	Cultivated.
PI 503909	donor id: Brazil 2930. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503910	donor id: Brazil 2932. Seed.	origin: Brazil.	Cultivated.
PI 503911	donor id: Brazil 2935. Seed.	origin: Brazil.	Cultivated.
PI 503912	donor id: Brazil 2937. Seed.	origin: Brazil.	Cultivated.
PI 503913	donor id: Brazil 2941. Seed.	origin: Brazil.	Cultivated.
PI 503914	donor id: Brazil 2942. Seed.	origin: Brazil.	Cultivated.
PI 503915	donor id: Brazil 2943. Seed.	origin: Brazil.	Cultivated.
PI 503916	donor id: Brazil 2945. Seed.	origin: Brazil.	Cultivated.
PI 503917	donor id: Brazil 2948. Seed.	origin: Brazil.	Cultivated.
PI 503918	donor id: Brazil 2949. Seed.	origin: Brazil.	Cultivated.
PI 503919	donor id: Brazil 2950. Seed.	origin: Brazil.	Cultivated.
PI 503920	donor id: Brazil 2951. Seed.	origin: Brazil.	Cultivated.
PI 503921	donor id: Brazil 2952. Seed.	origin: Brazil.	Cultivated.
PI 503922	donor id: Brazil 2953. Seed.	origin: Brazil.	Cultivated.
PI 503923	donor id: Brazil 2954. Seed.	origin: Brazil.	Cultivated.
PI 503924	donor id: Brazil 2956. Seed.	origin: Brazil.	Cultivated.
PI 503925	donor id: Brazil 2957. Seed.	origin: Brazil.	Cultivated.
PI 503926	donor id: Brazil 2958. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503927	donor id: Brazil 2959. Seed.	origin: Brazil.	Cultivated.
PI 503928	donor id: Brazil 2960. Seed.	origin: Brazil.	Cultivated.
PI 503929	donor id: Brazil 2961. Seed.	origin: Brazil.	Cultivated.
PI 503930	donor id: Brazil 2962. Seed.	origin: Brazil.	Cultivated.
PI 503931	donor id: Brazil 2965. Seed.	origin: Brazil.	Cultivated.
PI 503932	donor id: Brazil 2966. Seed.	origin: Brazil.	Cultivated.
PI 503933	donor id: Brazil 2967. Seed.	origin: Brazil.	Cultivated.
PI 503934	donor id: Brazil 2968. Seed.	origin: Brazil.	Cultivated.
PI 503935	donor id: Brazil 2969. Seed.	origin: Brazil.	Cultivated.
PI 503936	donor id: Brazil 2971. Seed.	origin: Brazil.	Cultivated.
PI 503937	donor id: Brazil 2974. Seed.	origin: Brazil.	Cultivated.
PI 503938	donor id: Brazil 2976. Seed.	origin: Brazil.	Cultivated.
PI 503939	donor id: Brazil 2977. Seed.	origin: Brazil.	Cultivated.
PI 503940	donor id: Brazil 2979. Seed.	origin: Brazil.	Cultivated.
PI 503941	donor id: Brazil 2981. Seed.	origin: Brazil.	Cultivated.
PI 503942	donor id: Brazil 2982. Seed.	origin: Brazil.	Cultivated.
PI 503943	donor id: Brazil 2983. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503944	donor id: Brazil 2984. Seed.	origin: Brazil.	Cultivated.
PI 503945	donor id: Brazil 2985. Seed.	origin: Brazil.	Cultivated.
PI 503946	donor id: Brazil 2986. Seed.	origin: Brazil.	Cultivated.
PI 503947	donor id: Brazil 2988. Seed.	origin: Brazil.	Cultivated.
PI 503948	donor id: Brazil 2989. Seed.	origin: Brazil.	Cultivated.
PI 503949	donor id: Brazil 2990. Seed.	origin: Brazil.	Cultivated.
PI 503950	donor id: Brazil 2991. Seed.	origin: Brazil.	Cultivated.
PI 503951	donor id: Brazil 2995. Seed.	origin: Brazil.	Cultivated.
PI 503952	donor id: Brazil 2997. Seed.	origin: Brazil.	Cultivated.
PI 503953	donor id: Brazil 2999. Seed.	origin: Brazil.	Cultivated.
PI 503954	donor id: Brazil 3000. Seed.	origin: Brazil.	Cultivated.
PI 503955	donor id: Brazil 3001. Seed.	origin: Brazil.	Cultivated.
PI 503956	donor id: Brazil 3003. Seed.	origin: Brazil.	Cultivated.
PI 503957	donor id: Brazil 3004. Seed.	origin: Brazil.	Cultivated.
PI 503958	donor id: Brazil 3005. Seed.	origin: Brazil.	Cultivated.
PI 503959	donor id: Brazil 3006. Seed.	origin: Brazil.	Cultivated.
PI 503960	donor id: Brazil 3007. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503961	donor id: Brazil 3008. Seed.	origin: Brazil.	Cultivated.
PI 503962	donor id: Brazil 3009. Seed.	origin: Brazil.	Cultivated.
PI 503963	donor id: Brazil 3010. Seed.	origin: Brazil.	Cultivated.
PI 503964	donor id: Brazil 3011. Seed.	origin: Brazil.	Cultivated.
PI 503965	donor id: Brazil 3013. Seed.	origin: Brazil.	Cultivated.
PI 503966	donor id: Brazil 3014. Seed.	origin: Brazil.	Cultivated.
PI 503967	donor id: Brazil 3015. Seed.	origin: Brazil.	Cultivated.
PI 503968	donor id: Brazil 3016. Seed.	origin: Brazil.	Cultivated.
PI 503969	donor id: Brazil 3017. Seed.	origin: Brazil.	Cultivated.
PI 503970	donor id: Brazil 3019. Seed.	origin: Brazil.	Cultivated.
PI 503971	donor id: Brazil 3020. Seed.	origin: Brazil.	Cultivated.
PI 503972	donor id: Brazil 3021. Seed.	origin: Brazil.	Cultivated.
PI 503973	donor id: Brazil 3022. Seed.	origin: Brazil.	Cultivated.
PI 503974	donor id: Brazil 3026. Seed.	origin: Brazil.	Cultivated.
PI 503975	donor id: Brazil 3027. Seed.	origin: Brazil.	Cultivated.
PI 503976	donor id: Brazil 3032. Seed.	origin: Brazil.	Cultivated.
PI 503977	donor id: Brazil 3033. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503978	donor id: Brazil 3034. Seed.	origin: Brazil.	Cultivated.
PI 503979	donor id: Brazil 3035. Seed.	origin: Brazil.	Cultivated.
PI 503980	donor id: Brazil 3036. Seed.	origin: Brazil.	Cultivated.
PI 503981	donor id: Brazil 3037. Seed.	origin: Brazil.	Cultivated.
PI 503982	donor id: Brazil 3038. Seed.	origin: Brazil.	Cultivated.
PI 503983	donor id: Brazil 3039. Seed.	origin: Brazil.	Cultivated.
PI 503984	donor id: Brazil 3040. Seed.	origin: Brazil.	Cultivated.
PI 503985	donor id: Brazil 3041. Seed.	origin: Brazil.	Cultivated.
PI 503986	donor id: Brazil 3042. Seed.	origin: Brazil.	Cultivated.
PI 503987	donor id: Brazil 3047. Seed.	origin: Brazil.	Cultivated.
PI 503988	donor id: Brazil 3048. Seed.	origin: Brazil.	Cultivated.
PI 503989	donor id: Brazil 3049. Seed.	origin: Brazil.	Cultivated.
PI 503990	donor id: Brazil 3050. Seed.	origin: Brazil.	Cultivated.
PI 503991	donor id: Brazil 3052. Seed.	origin: Brazil.	Cultivated.
PI 503992	donor id: Brazil 3054. Seed.	origin: Brazil.	Cultivated.
PI 503993	donor id: Brazil 3056. Seed.	origin: Brazil.	Cultivated.
PI 503994	donor id: Brazil 3058. Seed.	origin: Brazil.	Cultivated.

PI 503881 to 504169-continued

PI 503995 donor id: Brazil 3059. origin: Brazil. Cultivated.
Seed.

PI 503996 donor id: Brazil 3063. origin: Brazil. Cultivated.
Seed.

PI 503997 donor id: Brazil 3064. origin: Brazil. Cultivated.
Seed.

PI 503998 donor id: Brazil 3065. origin: Brazil. Cultivated.
Seed.

PI 503999 donor id: Brazil 3069. origin: Brazil. Cultivated.
Seed.

PI 504000 donor id: Brazil 3158. origin: Brazil. Cultivated.
Seed.

PI 504001 donor id: Brazil 3159. origin: Brazil. Cultivated.
Seed.

PI 504002 donor id: Brazil 430. origin: Brazil. Cultivated.
Seed.

PI 504003 donor id: Capitein. origin: UNKNOWN. Cultivated. Seed.

PI 504004 donor id: Cateto SS. origin: UNKNOWN. Cultivated.
Seed.

PI 504005 donor id: Cauca 343. origin: Colombia. Cultivated.
Seed.

PI 504006 donor id: Cauca 390. origin: Colombia. Cultivated.
Seed.

PI 504007 donor id: Coahuila 25. origin: UNKNOWN. Cultivated.
Seed.

PI 504008 donor id: Coahuila 32. origin: Mexico. Cultivated.
Seed.

PI 504009 donor id: Coahuila 81. origin: Mexico. Cultivated.
Seed.

PI 504010 donor id: Com.Vandeno Precoz. origin: UNKNOWN.
Cultivated. Seed.

PI 504011 donor id: Comp. Salvadore. origin: El Salvador.
Cultivated. Seed.

PI 504012 donor id: Compuesto Blanc. origin: UNKNOWN. Cultivated.
Seed.

PI 503881 to 504169-continued

PI 504013 donor id: Compuesto Celay. origin: UNKNOWN. Cultivated.
Seed.

PI 504014 donor id: Compuesto Comit. origin: UNKNOWN. Cultivated.
Seed.

PI 504015 donor id: Compuesto Harin. origin: UNKNOWN. Cultivated.
Seed.

PI 504016 donor id: Compuesto Hondul. origin: Honduras.
Cultivated. Seed.

PI 504017 donor id: Compuesto Hondu2. origin: Honduras.
Cultivated. Seed.

PI 504018 donor id: Compuesto Hondu3. origin: Honduras.
Cultivated. Seed.

PI 504019 donor id: Compuesto Nicarl. origin: Nicaragua.
Cultivated. Seed.

PI 504020 donor id: Compuesto Nicar2. origin: Nicaragua.
Cultivated. Seed.

PI 504021 donor id: Compuesto Nicar3. origin: Nicaragua.
Cultivated. Seed.

PI 504022 donor id: Compuesto Pauli. origin: UNKNOWN. Cultivated.
Seed.

PI 504023 donor id: Compuesto Pepit. origin: UNKNOWN. Cultivated.
Seed.

PI 504024 donor id: Compuesto Tuxpe. origin: UNKNOWN. Cultivated.
Seed.

PI 504025 donor id: Corn Belt Compo. origin: UNKNOWN. Cultivated.
Seed.

PI 504026 donor id: Costa Rica 138. origin: Costa Rica.
Cultivated. Seed.

PI 504027 donor id: Costa Rica 254. origin: Costa Rica.
Cultivated. Seed.

PI 504028 donor id: Costa Rica 301. origin: Costa Rica.
Cultivated. Seed.

PI 504029 donor id: Costa Rica GP 11A. origin: Costa Rica.
Cultivated. Seed.

PI 503881 to 504169-continued

PI 504030 donor id: Costa Rica GP 17A. origin: Costa Rica.
Cultivated. Seed.

PI 504031 donor id: Costa Rica GP 19A. origin: Costa Rica.
Cultivated. Seed.

PI 504032 donor id: Costa Rica GP 23A. origin: Costa Rica.
Cultivated. Seed.

PI 504033 donor id: Costa Rica GP 33. origin: Costa Rica.
Cultivated. Seed.

PI 504034 donor id: Costa Rica GP 49. origin: Costa Rica.
Cultivated. Seed.

PI 504035 donor id: Costa Rica GP 4A. origin: Costa Rica.
Cultivated. Seed.

PI 504036 donor id: Cristal B P. origin: UNKNOWN. Cultivated.
Seed.

PI 504037 donor id: Cuba 145. origin: Cuba. Cultivated. Seed.

PI 504038 donor id: Cuba 161. origin: Cuba. Cultivated. Seed.

PI 504039 donor id: Cuba 23. origin: Cuba. Cultivated. Seed.

PI 504040 donor id: Cuba 40. origin: Cuba. Cultivated. Seed.

PI 504041 donor id: Cuba Antibarsan. origin: Cuba. Cultivated.
Seed.

PI 504042 donor id: Cuba GP 1. origin: Cuba. Cultivated. Seed.

PI 504043 donor id: Cuba GP 2. origin: Cuba. Cultivated. Seed.

PI 504044 donor id: Cuba GP 4. origin: Cuba. Cultivated. Seed.

PI 504045 donor id: Cuba GP 5. origin: Cuba. Cultivated. Seed.

PI 504046 donor id: Cuba GP 6. origin: Cuba. Cultivated. Seed.

PI 504047 donor id: Cuba GP 7. origin: Cuba. Cultivated. Seed.

PI 504048 donor id: Cuban Dent. origin: Cuba. Cultivated. Seed.

PI 504049 donor id: Cupurico. origin: UNKNOWN. Cultivated. Seed.

PI 504050 donor id: E.T.O. Amarillo. origin: UNKNOWN. Cultivated.
Seed.

PI 503881 to 504169-continued

PI 504051 donor id: El Salvador GP 11A. origin: El Salvador.
Cultivated. Seed.

PI 504052 donor id: El Salvador GP 12A. origin: El Salvador.
Cultivated. Seed.

PI 504053 donor id: El Salvador GP 1A. origin: El Salvador.
Cultivated. Seed.

PI 504054 donor id: El Salvador GP 22A. origin: El Salvador.
Cultivated. Seed.

PI 504055 donor id: Funks Waxy. origin: UNKNOWN. Cultivated.
Seed.

PI 504056 donor id: Grenada GP 1. origin: Grenada. Cultivated.
Seed.

PI 504057 donor id: Grenada GP 2. origin: Grenada. Cultivated.
Seed.

PI 504058 donor id: Grenada GP 3. origin: Grenada. Cultivated.
Seed.

PI 504059 donor id: Grenada GP 5. origin: Grenada. Cultivated.
Seed.

PI 504060 donor id: Guadeloupe GP 1A. origin: Guadeloupe.
Cultivated. Seed.

PI 504061 donor id: Guadeloupe GP 1B. origin: Guadeloupe.
Cultivated. Seed.

PI 504062 donor id: Guadeloupe GP 2. origin: Guadeloupe.
Cultivated. Seed.

PI 504063 donor id: Guadeloupe GP 4. origin: Guadeloupe.
Cultivated. Seed.

PI 504064 donor id: Guadeloupe GP 5. origin: Guadeloupe.
Cultivated. Seed.

PI 504065 donor id: Guanajuato 265. origin: Mexico. Cultivated.
Seed.

PI 504066 donor id: Guatemala 105. origin: Guatemala. Cultivated.
Seed.

PI 504067 donor id: Guatemala 107. origin: Guatemala. Cultivated.
Seed.

PI 503881 to 504169-continued

PI 504068	donor id: Guatemala 123. Seed.	origin: Guatemala.	Cultivated.
PI 504069	donor id: Guatemala 124. Seed.	origin: Guatemala.	Cultivated.
PI 504070	donor id: Guatemala 148. Seed.	origin: Guatemala.	Cultivated.
PI 504071	donor id: Guatemala 153. Seed.	origin: Guatemala.	Cultivated.
PI 504072	donor id: Guatemala 155. Seed.	origin: Guatemala.	Cultivated.
PI 504073	donor id: Guatemala 159. Seed.	origin: Guatemala.	Cultivated.
PI 504074	donor id: Guatemala 178. Seed.	origin: Guatemala.	Cultivated.
PI 504075	donor id: Guatemala 179. Seed.	origin: Guatemala.	Cultivated.
PI 504076	donor id: Guatemala 229. Seed.	origin: Guatemala.	Cultivated.
PI 504077	donor id: Guatemala 232. Seed.	origin: Guatemala.	Cultivated.
PI 504078	donor id: Guatemala 260. Seed.	origin: Guatemala.	Cultivated.
PI 504079	donor id: Guatemala 271. Seed.	origin: Guatemala.	Cultivated.
PI 504080	donor id: Guatemala 278. Seed.	origin: Guatemala.	Cultivated.
PI 504081	donor id: Guatemala 291. Seed.	origin: Guatemala.	Cultivated.
PI 504082	donor id: Guatemala 298. Seed.	origin: Guatemala.	Cultivated.
PI 504083	donor id: Guatemala 320. Seed.	origin: Guatemala.	Cultivated.
PI 504084	donor id: Guatemala 321. Seed.	origin: Guatemala.	Cultivated.

PI 503881 to 504169-continued

PI 504085	donor id: Guatemala 330. Seed.	origin: Guatemala.	Cultivated.
PI 504086	donor id: Guatemala 335. Seed.	origin: Guatemala.	Cultivated.
PI 504087	donor id: Guatemala 346. Seed.	origin: Guatemala.	Cultivated.
PI 504088	donor id: Guatemala 473. Seed.	origin: Guatemala.	Cultivated.
PI 504089	donor id: Guatemala 649. Seed.	origin: Guatemala.	Cultivated.
PI 504090	donor id: Guatemala 651. Seed.	origin: Guatemala.	Cultivated.
PI 504091	donor id: Guatemala 66. Seed.	origin: Guatemala.	Cultivated.
PI 504092	donor id: Guatemala 679. Seed.	origin: Guatemala.	Cultivated.
PI 504093	donor id: Guatemala 71. Seed.	origin: Guatemala.	Cultivated.
PI 504094	donor id: Guatemala 712. Seed.	origin: Guatemala.	Cultivated.
PI 504095	donor id: Guatemala 72. Seed.	origin: Guatemala.	Cultivated.
PI 504096	donor id: Guatemala 738. Seed.	origin: Guatemala.	Cultivated.
PI 504097	donor id: Guatemala 74. Seed.	origin: Guatemala.	Cultivated.
PI 504098	donor id: Guatemala 741. Seed.	origin: Guatemala.	Cultivated.
PI 504099	donor id: Guatemala 760. Seed.	origin: Guatemala.	Cultivated.
PI 504100	donor id: Guatemala 769. Seed.	origin: Guatemala.	Cultivated.
PI 504101	donor id: Guatemala 79. Seed.	origin: Guatemala.	Cultivated.

PI 503881 to 504169-continued

PI 504102 donor id: Guatemala 793. origin: Guatemala. Cultivated.
Seed.

PI 504103 donor id: Guatemala 794. origin: Guatemala. Cultivated.
Seed.

PI 504104 donor id: Guatemala 796. origin: Guatemala. Cultivated.
Seed.

PI 504105 donor id: Guatemala 81. origin: Guatemala. Cultivated.
Seed.

PI 504106 donor id: Guatemala 87. origin: Guatemala. Cultivated.
Seed.

PI 504107 donor id: Guatemala 88. origin: Guatemala. Cultivated.
Seed.

PI 504108 donor id: Guatemala 90. origin: Guatemala. Cultivated.
Seed.

PI 504109 donor id: Guatemala GP 1-2A. origin: Guatemala.
Cultivated. Seed.

PI 504110 donor id: Guatemala GP 1-4A. origin: Guatemala.
Cultivated. Seed.

PI 504111 donor id: Guatemala GP 2-4A. origin: Guatemala.
Cultivated. Seed.

PI 504112 donor id: Guatemala GP 4-1A. origin: Guatemala.
Cultivated. Seed.

PI 504113 donor id: Guatemala GP 4-4A. origin: Guatemala.
Cultivated. Seed.

PI 504114 donor id: Guatemala GP 6-1A. origin: Guatemala.
Cultivated. Seed.

PI 504115 donor id: Guatemala GP 8-1A. origin: Guatemala.
Cultivated. Seed.

PI 504116 donor id: Guatemala GP15-1A. origin: Guatemala.
Cultivated. Seed.

PI 504117 donor id: Guatemala GP17-3A. origin: Guatemala.
Cultivated. Seed.

PI 504118 donor id: Guatemala GP21-18A. origin: Guatemala.
Cultivated. Seed.

PI 503881 to 504169-continued

PI 504119 donor id: Guatemala GP22-2A. origin: Guatemala.
Cultivated. Seed.

PI 504120 donor id: Guatemala GP5-4A. origin: Guatemala.
Cultivated. Seed.

PI 504121 donor id: Honduras 37. origin: Honduras. Cultivated.
Seed.

PI 504122 donor id: Honduras GP 19. origin: Honduras. Cultivated.
Seed.

PI 504123 donor id: Honduras GP 3A. origin: Honduras. Cultivated.
Seed.

PI 504124 donor id: Honduras GP 4A. origin: Honduras. Cultivated.
Seed.

PI 504125 donor id: Honduras GP 6A. origin: Honduras. Cultivated.
Seed.

PI 504126 donor id: Honduras GP 8A. origin: Honduras. Cultivated.
Seed.

PI 504127 donor id: Mix 1. origin: UNKNOWN. Cultivated. Seed.

PI 504128 donor id: Narino 330 X PE. origin: UNKNOWN. Cultivated.
Seed.

PI 504129 donor id: Nicaragua 103. origin: Nicaragua. Cultivated.
Seed.

PI 504130 donor id: Nicaragua 106. origin: Nicaragua. Cultivated.
Seed.

PI 504131 donor id: Nicaragua 16. origin: Nicaragua. Cultivated.
Seed.

PI 504132 donor id: Nicaragua 77. origin: Nicaragua. Cultivated.
Seed.

PI 504133 donor id: Nicaragua 78. origin: Nicaragua. Cultivated.
Seed.

PI 504134 donor id: Nicaragua GP 64A. origin: Nicaragua.
Cultivated. Seed.

PI 504135 donor id: Nicaragua GP 65A. origin: Nicaragua.
Cultivated. Seed.

PI 504136 donor id: Nicaragua GP 73A. origin: Nicaragua.
Cultivated. Seed.

PI 503881 to 504169-continued

- PI 504137 donor id: P.D.(M.S.)6. origin: UNKNOWN. Cultivated. Seed.
- PI 504138 donor id: Panama GP 101. origin: Panama. Cultivated. Seed.
- PI 504139 donor id: Panama GP 79A. origin: Panama. Cultivated. Seed.
- PI 504140 donor id: Panama GP 80A. origin: Panama. Cultivated. Seed.
- PI 504141 donor id: Puerto Rico GP 2. origin: Puerto Rico. Cultivated. Seed.
- PI 504142 donor id: Puerto Rico GP 3. origin: Puerto Rico. Cultivated. Seed.
- PI 504143 donor id: Puerto Rico GP 4. origin: Puerto Rico. Cultivated. Seed.
- PI 504144 donor id: Puerto Rico GP 66. origin: Puerto Rico. Cultivated. Seed.
- PI 504145 donor id: Rio Grande Do Sul Grupo 2. origin: Mexico. Cultivated. Seed.
- PI 504146 donor id: Saint Croix GP 1. origin: Virgin Islands, U.S.. Cultivated. Seed.
- PI 504147 donor id: Saint Croix GP 2. origin: Virgin Islands, U.S.. Cultivated. Seed.
- PI 504148 donor id: Saint Croix GP 3. origin: Virgin Islands, U.S.. Cultivated. Seed.
- PI 504149 donor id: Saint Lucia GP 1. origin: St Lucia. Cultivated. Seed.
- PI 504150 donor id: Saint Vincent GP 1. origin: St Vincent. Cultivated. Seed.
- PI 504151 donor id: Saint Vincent GP 1A. origin: St Vincent. Cultivated. Seed.
- PI 504152 donor id: Saint Vincent GP 2A. origin: St Vincent. Cultivated. Seed.
- PI 504153 donor id: Saint Vincent GP 3. origin: St Vincent. Cultivated. Seed.

PI 503881 to 504169-continued

- PI 504154 donor id: Tamaulipas 29. origin: Mexico. Cultivated. Seed.
- PI 504155 donor id: Tobago GP 1. origin: Trinidad and Tobago. Cultivated. Seed.
- PI 504156 donor id: Tobago GP 2. origin: Trinidad and Tobago. Cultivated. Seed.
- PI 504157 donor id: Trinidad GP 1. origin: Trinidad and Tobago. Cultivated. Seed.
- PI 504158 donor id: Trinidad GP1 & 2. origin: Trinidad and Tobago. Cultivated. Seed.
- PI 504159 donor id: Tuxpantigua. origin: Mexico. Cultivated. Seed.
- PI 504160 donor id: Tuxpeno Caribe. origin: Mexico. Cultivated. Seed.
- PI 504161 donor id: Tuxpeno Francis. origin: Mexico. Cultivated. Seed.
- PI 504162 donor id: Tuxpeno Interme. origin: Korea, Republic of. Cultivated. Seed.
- PI 504163 donor id: Tuxpeno Salvado. origin: Mexico. Cultivated. Seed.
- PI 504164 donor id: Tuxpeno Sanviba. origin: Mexico. Cultivated. Seed.
- PI 504165 donor id: Usatigua. origin: UNKNOWN. Cultivated. Seed.
- PI 504166 donor id: Valle 380. origin: Colombia. Cultivated. Seed.
- PI 504167 donor id: Venezuela 441. origin: Venezuela. Cultivated. Seed.
- PI 504168 donor id: Venezuela 703. origin: Venezuela. Cultivated. Seed.
- PI 504169 donor id: Venezuela 780. origin: Venezuela. Cultivated. Seed.

PI 504170 to 504181. *Beta vulgaris* L. CHENOPODIACEAE Beet

Donated by Doney, D.L., USDA-ARS, North Dakota State University, Walster Hall, Fargo, North Dakota, United States. Sugarbeet Exploration in Italy and France, 1985. Received July 1986.

- PI 504170 donor id: WB 525. origin: Italy. local name: Leaf beet. collected: July 06, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 525. locality: Plants growing in full sun, on Western slope in silt and coarse dry sand next to home, Bocale, Calabria. latitude: 38 deg. 00 min. N. longitude: 15 deg. 38 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504171 donor id: WB 526. origin: Italy. local name: Leaf beet. collected: July 06, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 526. locality: Plants growing in partial sun, on an eastern slope, in damp silt, in a very small flower bed, Reggio de Calabria, Calabria. latitude: 38 deg. 05 min. N. longitude: 15 deg. 39 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Annual. Cultivated. Seed.
- PI 504172 donor id: WB 527. origin: Italy. local name: Leaf beet. collected: July 06, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 527. locality: Plants growing in full sun, in dry silt, in corner by garden, 500m W of Palmi, Calabria. latitude: 38 deg. 21 min. N. longitude: 15 deg. 51 min. E. elevation: 80m. remarks: Dry season. Bulk collection. Possibly weedy beet from garden next door. Annual. Primitive Cultivar. Seed.
- PI 504173 donor id: WB 529. origin: Italy. local name: Leaf beet. collected: July 07, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 529. locality: Plants growing in partial sun, in dry silt and coarse gravel on northern hillside overlooking Vibo Marina, 300m SE of Vibo Marina, Calabria. latitude: 38 deg. 42 min. N. longitude: 16 deg. 07 min. E. elevation: 120m. remarks: Dry season. Bulk collection of three plants. Annual. Primitive Cultivar. Seed.
- PI 504174 donor id: WB 531. origin: Italy. local name: Leaf beet. collected: July 08, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 531. locality: Plants growing in full sun, in dry silt and fine gravel on bank of Angitola River, between state road 522 and 110, 5000 m NE of Pizzo, Calabria. latitude: 38 deg. 46 min. N. longitude: 016 deg. 12 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Looks like an escaped landrace. Annual. Primitive Cultivar. Seed.

PI 504170 to 504181-continued

- PI 504175 donor id: WB 532. origin: Italy. local name: Leaf beet. collected: July 08, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 532. locality: Plants growing in full sun on a western slope, in dry clay, silt and fine gravel on side of road by garden, 4400m N of Intersection-Lussi, Calabria. latitude: 39 deg. 28 min. N. longitude: 016 deg. 16 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Plants used to be grown here. Annual. Primitive Cultivar. Seed.
- PI 504176 donor id: WB 533. origin: Italy. local name: Leaf beet. collected: July 08, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 533. locality: Plants growing in full sun, in dry silt and fine gravel, 1000m S of Tarsia, Calabria. latitude: 39 deg. 37 min. N. longitude: 016 deg. 16 min. E. elevation: 70m. remarks: Dry season. Bulk collection. Looks like an escaped landrace. Some red pigmentation in seed ball. Annual. Primitive Cultivar. Seed.
- PI 504177 donor id: WB 566. origin: Italy. local name: Wild beet. collected: July 16, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 566. locality: Plants growing in full sun, in very coarse dry sand, 100m S of Plo di Vignola, Sassari, Sardinia. latitude: 41 deg. 7 min. N. longitude: 9 deg. 3 min. E. elevation: 10m. remarks: Dry season. Bulk collection of one plant. Plant very erect, large. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504178 donor id: WB 570. origin: Italy. local name: Wild beet. collected: July 17, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 570. locality: Plants growing on side of road in full sun 200m from beach, in dry coarse sand, 1000m W of Sa Marigosa, Oristano, Sardinia. latitude: 39 deg. 55 min. N. longitude: 8 deg. 24 min. E. elevation: 3m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504179 donor id: WB 583. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 583. locality: Plants growing in partial sun, in damp silt at botanical garden, Cagliari, Cagliari, Sardinia. latitude: 39 deg. 12 min. N. longitude: 9 deg. 8 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.

PI 504170 to 504181-continued

PI 504180 donor id: WB 598. origin: France. local name: Wild beet. collected: July 26, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 598. locality: Plants growing in indirect sun, on a northern slope, in dry, coarse gravel and cobbles, 4000m N of Bonifacio, Ajaccio, Corsica. latitude: 46 deg. 02 min. N. longitude: 7 deg. 59 min. E. elevation: 50m. remarks: Dry season. Single plant. Looks like an escaped landrace. Annual. Wild. Seed.

PI 504181 donor id: WB 603. origin: France. local name: Wild leaf beet. collected: July 27, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 603. locality: Plants growing in indirect sun, in irrigated silt, 2000m S of Prunete, Bastia, Corsica. latitude: 42 deg. 24 min. N. longitude: 9 deg. 31 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Looks like an escaped landrace. Annual. Primitive Cultivar. Seed.

PI 504182 to 504285. *Beta vulgaris* subsp. *maritima* (L.) Arcang.
CHENOPODIACEAE

Donated by Doney, D.L., USDA-ARS, North Dakota State University, Walster Hall, Fargo, North Dakota, United States. Sugarbeet Exploration in Italy and France, 1985. Received July 1986.

PI 504182 donor id: WB 501. origin: Italy. local name: Wild beet. collected: July 02, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 501. locality: Plants growing on side of road in full sun, in coarse damp sand, acidic, 3000m N of Metaponto, Basilicata. latitude: 40 deg. 22 min. N. longitude: 16 deg. 46 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.

PI 504183 donor id: WB 502. origin: Italy. local name: Wild beet. collected: July 02, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 502. locality: Plants growing on north side of hill in partial sun, in coarse dry sand, acidic, 3500m N of Metaponto, Basilicata. latitude: 40 deg. 22 min. N. longitude: 16 deg. 46 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504184 donor id: WB 503. origin: Italy. local name: Wild beet. collected: July 02, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 503. locality: Plants growing on north side of hill in partial sun, in fine droughty gravel, acidic, near Agi River by grape orchard, 2000m E of Recoleta, Basilicata. latitude: 40 deg. 15 min. N. longitude: 16 deg. 40 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504185 donor id: WB 504. origin: Italy. local name: Wild beet. collected: July 02, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 504. locality: Plants growing in full sun, in fine droughty gravel, acidic, W side of Gannano Dam on side of road, 100m W of Gannano-Dam, Basilicata. latitude: 40 deg. 18 min. N. longitude: 16 deg. 28 min. E. elevation: 120m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504186 donor id: WB 505. origin: Italy. local name: Wild beet. collected: July 02, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 505. locality: Plants growing on south side of Sinni River on north side of hill in partial sun, in fine dry gravel, acidic, undisturbed, 1000m W of Saint Andrea, Basilicata. latitude: 40 deg. 12 min. N. longitude: 16 deg. 31 min. E. elevation: 140m. remarks: Dry season. Bulk collection. drought tolerance: Resistant to drought. Annual. Wild. Seed.
- PI 504187 donor id: WB 506. origin: Italy. local name: Wild beet. collected: July 03, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 506. locality: Plants growing on beach in full sun, in fine dry sand, close to drainage area close to sea, 1-2m N of highway 106, 200m N of C. Triento, Calabria. latitude: 39 deg. 37 min. N. longitude: 16 deg. 45 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Plants upright. salt tolerance: Tolerant to salt. Annual. Wild. Seed.
- PI 504188 donor id: WB 507. origin: Italy. local name: Wild beet. collected: July 03, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 507. locality: Plant growing in full sun, in dry silt, 250m from sea along fence line, 4000m E of Mitro Crosia, Calabria. latitude: 39 deg. 36 min. N. longitude: 16 deg. 48 min. E. elevation: 3m. remarks: Dry season. Single plant collection. drought tolerance: Resistant to drought. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504189 donor id: WB 508. origin: Italy. local name: Wild beet. collected: July 03, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 508. locality: Plants growing in full sun, in coarse dry sand, by sea but only on disturbed graded area, 1000m NW of Cariati Mari, Calabria. latitude: 39 deg. 30 min. N. longitude: 16 deg. 56 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504190 donor id: WB 510. origin: Italy. local name: Wild beet. collected: July 03, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 510. locality: Plants growing in full sun, in fine dry sand on beach, 1000m N of Pumto Alice, Calabria. latitude: 39 deg. 34 min. N. longitude: 17 deg. 09 min. E. elevation: 3m. remarks: Dry season. drought tolerance: Resistant to drought. salt tolerance: Resistant to salt. Annual. Wild. Seed.
- PI 504191 donor id: WB 511. origin: Italy. local name: Wild beet. collected: July 03, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 511. locality: Plants growing in full sun, in fine dry sand on both sides of road a short distance from beach near new construction, 500m E of Fasana, Calabria. latitude: 40 deg. 13 min. N. longitude: 17 deg. 07 min. E. elevation: 3m. remarks: Dry season. Bulk collection. disease resistance: Disease resistant. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504192 donor id: WB 512. origin: Italy. local name: Wild beet. collected: July 04, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 512. locality: Plants growing in full sun, in coarse droughty sand and cobbles, by cliffs overlooking sea, 300m N of Capa Colonna, Calabria. latitude: 39 deg. 15 min. N. longitude: 17 deg. 12 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Composite collection. Large native population with much color variation, much erect vs. prostrate variation. Some red seed clusters. disease resistance: Disease resistant. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.

- PI 504193 **donor id:** WB 513. **origin:** Italy. **local name:** Wild beet. **collected:** July 04, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 513. **locality:** Plants growing in full sun, in coarse droughty sand and cobbles, by cliffs overlooking sea, 300m N of Capa Colonna, Calabria. **latitude:** 39 deg. 15 min. N. **longitude:** 17 deg. 12 min. E. **elevation:** 3m. **remarks:** Dry season. Single plant collection. Seed clusters red. **disease resistance:** Disease resistant. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504194 **donor id:** WB 514. **origin:** Italy. **local name:** Wild beet. **collected:** July 04, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 514. **locality:** Plants growing in full sun, in coarse dry sand and cobbles, by cliffs overlooking sea, 300m N of Capa Colonna, Calabria. **latitude:** 39 deg. 15 min. N. **longitude:** 17 deg. 12 min. E. **elevation:** 3m. **remarks:** Dry season. Single plant collection type. Three very small and prostrate plants. **disease resistance:** Disease resistant. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504195 **donor id:** WB 515. **origin:** Italy. **local name:** Wild beet. **collected:** July 04, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 515. **locality:** Plants growing in full sun, in coarse dry sand and cobbles, by cliffs overlooking sea, 300m N of Capa Colonna, Calabria. **latitude:** 39 deg. 15 min. N. **longitude:** 17 deg. 12 min. E. **elevation:** 3m. **remarks:** Dry season. Single plant collection type. Three to five tall, erect, early plants. Seed clusters on some were compact at end of branch. **disease resistance:** Disease resistant. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504196 **donor id:** WB 516. **origin:** Italy. **local name:** Wild beet. **collected:** July 04, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 516. **locality:** Plants growing in full sun, in coarse dry sand and cobbles, by cliffs overlooking sea, 150m E of Capa Rizzuto, Calabria. **latitude:** 38 deg. 53 min. N. **longitude:** 17 deg. 05 min. E. **elevation:** 3m. **remarks:** Dry season. Bulk collection. **disease resistance:** Disease resistant. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504197 donor id: WB 517. origin: Italy. local name: Wild beet. collected: July 04, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 517. locality: Plants growing in full sun, in coarse dry sand and cobbles, in and around 13th century castle, even in walls of castle, La Costella, Calabria. latitude: 38 deg. 54 min. N. longitude: 17 deg. 01 min. E. elevation: 3m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504198 donor id: WB 518. origin: Italy. local name: Wild beet. collected: July 04, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 518. locality: Plants growing in full sun, in irrigated silt, only on fence line next to cement culvert, by Highway 180, 2000m NW of Cropani Marina, Calabria. latitude: 38 deg. 56 min. N. longitude: 16 deg. 47 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504199 donor id: WB 519. origin: Italy. local name: Wild beet. collector: D.L. Doney & J.S. McFarlane. collector id: WB 519. locality: Plants growing in full sun, in very fine dry sand, 150m S of Marina di Davoli, Calabria. latitude: 38 deg. 39 min. N. longitude: 16 deg. 34 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Variation in growth habit and color. One plant had a lot of mildew. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504200 donor id: WB 520. origin: Italy. local name: Wild beet. collected: July 05, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 520. locality: Plants growing in full sun, in fine dry sand, weedy area above beach, 300m W of Marina di Badolato, Calabria. latitude: 38 deg. 35 min. N. longitude: 16 deg. 33 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Two types, erect and procumbent. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504201 donor id: WB 521. origin: Italy. local name: Wild beet. collected: July 05, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 521. locality: Plants growing in full sun, in fine dry gravel, weedy area on E end of Temple Caulonia site, 20m E of Caulonia, Calabria. latitude: 38 deg. 27 min. N. longitude: 16 deg. 34 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504202 donor id: WB 522. origin: Italy. local name: Wild beet. collected: July 05, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 522. locality: Plants growing in full sun, in very fine dry sand, on beach, 2000m SW of Roccella Ionica, Calabria. latitude: 38 deg. 19 min. N. longitude: 16 deg. 24 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Some green and red types. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504203 donor id: WB 523. origin: Italy. local name: Wild beet. collected: July 06, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 523. locality: Plants growing in full sun, in silt and fine dry gravel, on N side of Hwy 106, in Condofuri Marina, Calabria. latitude: 37 deg. 55 min. N. longitude: 15 deg. 53 min. E. elevation: 10m. remarks: Dry season. Bulk collection of two plants. Annual. Wild. Seed.
- PI 504204 donor id: WB 524. origin: Italy. local name: Wild beet. collected: July 06, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 524. locality: Plants growing in full sun, in very fine dry sand, on beach between railroad and sea, Melito di Porto Salvo, Calabria. latitude: 37 deg. 54 min. N. longitude: 15 deg. 47 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Similar to vulgaris. One plant had red stem pigmentation. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504205 donor id: WB 530. origin: Italy. local name: Wild beet. collected: July 07, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 530. locality: Plants growing in full sun, in very fine sand, on beach in marine type weeds, Vibo Marina, Calabria. latitude: 38 deg. 43 min. N. longitude: 16 deg. 06 min. E. elevation: 3m. remarks: Dry season. Bulk collection of two plants. Similar to B. vulgaris. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504206 donor id: WB 534. origin: Italy. local name: Wild beet. collected: July 08, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 534. locality: Plants growing in full sun, in dry silt, on side of road 5700m E of intersection in Mandria Luci, Calabria. latitude: 39 deg. 42 min. N. longitude: 16 deg. 21 min. E. elevation: 50m. remarks: Dry season. Bulk collection. Isolated population. First B. maritima found on east side. drought tolerance: Drought tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504207 donor id: WB 535. origin: Italy. local name: Wild beet. collected: July 08, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 535. locality: Plants growing in full sun, in dry silt, 2000m W of Borgo Apollinara, Calabria. latitude: 39 deg. 42 min. N. longitude: 16 deg. 24 min. E. elevation: 50m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504208 donor id: WB 536. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 536. locality: Plants growing in full sun, in damp fine gravel, on road leading in to Hotel Bagamojo, 500m from sea, 4000m NE of Sibari, Calabria. latitude: 39 deg. 46 min. N. longitude: 16 deg. 29 min. E. elevation: 10m. remarks: Dry season. Bulk collection. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504209 donor id: WB 537. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 537. locality: Plants growing in full sun, in dry silt and fine gravel, on roadside in canyon-like area, 3000m NE of Cassano, Calabria. latitude: 39 deg. 49 min. N. longitude: 16 deg. 18 min. E. elevation: 230m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504210 donor id: WB 538. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 538. locality: Plants growing in full sun, in dry silt, on hillside, 1000m SE of Civita, Calabria. latitude: 39 deg. 49 min. N. longitude: 16 deg. 19 min. E. elevation: 350m. remarks: Dry season. Bulk collection. Area possibly grazed by sheep. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504211 donor id: WB 539. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 539. locality: Plants growing in full sun, in dry silt, on roadside, 8000m W of Torro Cerchiara, Calabria. latitude: 39 deg. 49 min. N. longitude: 16 deg. 24 min. E. elevation: 120m. remarks: Dry season. Bulk collection. Isolated population. drought tolerance: Drought tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504212 donor id: WB 540. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 540. locality: Plants growing in full sun, in dry coarse sand, near tower, 100km N of Torre Spulico, Calabria. latitude: 39 deg. 57 min. N. longitude: 16 deg. 37 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Most of the population was growing away from tower in undisturbed area. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504213 donor id: WB 541. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 541. locality: Plants growing in full sun, in dry silt and fine gravel, near road by beach, 2000m E of Scanzano, Basilicata. latitude: 40 deg. 14 min. N. longitude: 16 deg. 43 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Plants grazed. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504214 donor id: WB 542. origin: Italy. local name: Wild beet. collected: July 09, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 542. locality: Plants growing in full sun, in very dry silt and fine gravel, vacant lot near new building site, Montalbano, Basilicata. latitude: 40 deg. 17 min. N. longitude: 16 deg. 34 min. E. elevation: 250m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504215 donor id: WB 543. origin: Italy. local name: Wild beet. collected: July 10, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 543. locality: Plants growing in full sun, in damp coarse sand, acidic, 3000m N of Metaponta, Basilicata. latitude: 40 deg. 22 min. N. longitude: 16 deg. 45 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Plants procumbent. Annual. Wild. Seed.
- PI 504216 donor id: WB 544. origin: Italy. local name: Wild beet. collected: July 10, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 544. locality: Plants growing in full sun, in damp silt along canal, S of Matera on SS 380 to Ginosa, Basilicata. latitude: 40 deg. 34 min. N. longitude: 16 deg. 32 min. E. elevation: 150m. remarks: Dry season. Bulk collection. Plants look like *B. vulgaris*. Annual. Wild. Seed.

- PI 504217 donor id: WB 545. origin: Italy. local name: Wild beet. collected: July 10, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 545. locality: Plants growing in full sun, in damp silt along canal, S of Matera on SS 380 to Ginosa, Basilicata. latitude: 40 deg. 34 min. N. longitude: 16 deg. 32 min. E. elevation: 150m. remarks: Dry season. Bulk collection. Plants look like *B. vulgaris*. Annual. Wild. Seed.
- PI 504218 donor id: WB 546. origin: Italy. local name: Wild beet. collected: July 10, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 546. locality: Plants growing in full sun, in damp silt along canal and roadside, S of Matera on SS 380 to Ginosa, Basilicata. latitude: 40 deg. 34 min. N. longitude: 16 deg. 31 min. E. elevation: 150m. remarks: Dry season. Bulk collection. Procumbent type. Annual. Wild. Seed.
- PI 504219 donor id: WB 547. origin: Italy. local name: Wild beet. collected: July 11, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 547. locality: Plants growing in full sun, in dry silt on roadside on Hwy 597, 8000m SE of Oschiri, Sassari, Sardinia. latitude: 40 deg. 38 min. N. longitude: 09 deg. 06 min. E. elevation: 200m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Primitive Cultivar. Seed.
- PI 504220 donor id: WB 548. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 548. locality: Plants growing in full sun, in fine dry gravel on cliff overlooking sea, 1000m S of Alghero, Sassari, Sardinia. latitude: 40 deg. 35 min. N. longitude: 08 deg. 19 min. E. elevation: 20m. remarks: Dry season. Bulk collection. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504221 donor id: WB 549. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 549. locality: Plants growing in full sun, in very fine dry sand and rocks on beach, basic, next to old WW II bunker, Cappila Speranza, Sassari, Sardinia. latitude: 40 deg. 29 min. N. longitude: 08 deg. 21 min. E. elevation: 1m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504222 donor id: WB 550. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 550. locality: Plants growing in full sun, in fine gravel on very dry mountain 340m straight up from the sea, 9900m NW of Boxa, Nuoro, Sardinia. latitude: 40 deg. 22 min. N. longitude: 08 deg. 24 min. E. elevation: 340m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504223 donor id: WB 551. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 551. locality: Plants growing in full sun, in fine dry sand, 200m S of Bosa Marina, Nuoro, Sardinia. latitude: 40 deg. 18 min. N. longitude: 08 deg. 28 min. E. elevation: 2m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504224 donor id: WB 552. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 552. locality: Plants growing in full sun on northwest slope, in dry cobbles, Montresta, Nuoro, Sardinia. latitude: 40 deg. 23 min. N. longitude: 08 deg. 27 min. E. elevation: 370m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504225 donor id: WB 553. origin: Italy. local name: Wild beet. collected: July 13, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 553. locality: Plants growing in full sun, in dry silt, in old Nuraghi ruins, (this is a tower put together without mortar), 2000m S of Toralba, Sassari, Sardinia. latitude: 40 deg. 29 min. N. longitude: 08 deg. 43 min. E. elevation: 340m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504226 donor id: WB 554. origin: Italy. local name: Wild beet. collected: July 15, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 554. locality: Plants growing on side of road in full sun, in dry clay, 6600m E of Bassinline, Sassari, Sardinia. latitude: 40 deg. 39 min. N. longitude: 08 deg. 20 min. E. elevation: 70m. remarks: Dry season. Bulk collection. Mostly erect, some procumbent type. drought tolerance: Drought tolerant. Annual. Wild. Seed.

- PI 504227 donor id: WB 555. origin: Italy. local name: Wild beet. collected: July 15, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 555. locality: Plants growing in direct sun, on a northern slope, in very coarse desert sand and cobbles, in rocky area above beach, 1000m W of Argentiera, Sassari, Sardinia. latitude: 40 deg. 38 min. N. longitude: 08 deg. 10 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Two types. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504228 donor id: WB 556. origin: Italy. local name: Wild beet. collected: July 15, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 556. locality: Plants growing in full sun, on a southern slope 75m above sea, in dry cobbles and rocks, 700m SW of Tramanalia, Sassari, Sardinia. latitude: 40 deg. 34 min. N. longitude: 08 deg. 10 min. E. elevation: 80m. remarks: Dry season. Bulk collection. Leaves very leathery. Very windy area. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504229 donor id: WB 557. origin: Italy. local name: Wild beet. collected: July 15, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 557. locality: Plants growing on roadside in full sun, in very dry, very coarse sand and gravel, 200m W of Torre Pelosa, Sassari, Sardinia. latitude: 40 deg. 57 min. N. longitude: 08 deg. 12 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Some red and green seeded plants. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504230 donor id: WB 558. origin: Italy. local name: Wild beet. collected: July 15, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 558. locality: Plant growing on side of road in partial sun, in very coarse dry sand and gravel, 200m SW of Torre Pelosa, Sassari, Sardinia. latitude: 40 deg. 57 min. N. longitude: 08 deg. 12 min. E. elevation: 10m. remarks: Dry season. Bulk collection of one plant. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.

- PI 504231 **donor id:** WB 559. **origin:** Italy. **local name:** Wild beet. **collected:** July 15, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 559. **locality:** Plants growing in full sun near beach, in coarse dry desert sand and fine gravel, 100m E of S. Gavino a Mare, Sassari, Sardinia. **latitude:** 40 deg. 50 min. N. **longitude:** 08 deg. 24 min. E. **elevation:** 10m. **remarks:** Dry season. Bulk collection. Occurs in patches of about 10 sq. m. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504232 **donor id:** WB 560. **origin:** Italy. **local name:** Wild beet. **collected:** July 15, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 560. **locality:** Plants growing on side of road and up hill in full sun, in fine dry gravel, 300m SW of Castelsardo, Sassari, Sardinia. **latitude:** 40 deg. 55 min. N. **longitude:** 08 deg. 43 min. E. **elevation:** 10m. **remarks:** Dry season. Bulk collection. Some variation in growth habit, color, and leaf shape. **drought tolerance:** Drought tolerant. Annual. Wild. Seed.
- PI 504233 **donor id:** WB 561. **origin:** Italy. **local name:** Wild beet. **collected:** July 15, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 561. **locality:** Plants growing on side of mountain overlooking Castel Doria Lake, in full sun, in dry cobbles, 200m S of Castel Doria, Sassari, Sardinia. **latitude:** 40 deg. 54 min. N. **longitude:** 08 deg. 52 min. E. **elevation:** 170m. **remarks:** Dry season. Bulk collection. **drought tolerance:** Drought tolerant. Annual. Wild. Seed.
- PI 504234 **donor id:** WB 562. **origin:** Italy. **local name:** Wild beet. **collected:** July 16, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 562. **locality:** Plants growing in full sun, in fine dry sand on beach, Calla di Sassari, Sassari, Sardinia. **latitude:** 41 deg. 00 min. N. **longitude:** 09 deg. 36 min. E. **elevation:** 3m. **remarks:** Dry season. Bulk collection. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504235 **donor id:** WB 563. **origin:** Italy. **local name:** Wild beet. **collected:** July 16, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 563. **locality:** Plants growing in full sun, in fine damp sand on beach near stagnant water, Calla di Sassari, Sassari, Sardinia. **latitude:** 41 deg. 09 min. N. **longitude:** 09 deg. 22 min. E. **elevation:** 3m. **remarks:** Dry season. Bulk collection of one plant. Very large and erect. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.

- PI 504236 donor id: WB 564. origin: Italy. local name: Wild beet. collected: July 16, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 564. locality: Plants growing in partial and full sun on a southern slope by beach, in fine dry sand, 200m E of Porto Pozzo, Sassari, Sardinia. latitude: 41 deg. 10 min. N. longitude: 09 deg. 16 min. E. elevation: 2m. remarks: Dry season. Bulk collection. Large population. Mostly erect with large seed. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504237 donor id: WB 565. origin: Italy. local name: Wild beet. collected: July 16, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 565. locality: Plants growing in full sun, in coarse dry sand and fine gravel, 1500m SW of Santa Teresa, Sassari, Sardinia. latitude: 41 deg. 13 min. N. longitude: 09 deg. 10 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Isolated population. Growing near ice plant. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504238 donor id: WB 567. origin: Italy. local name: Wild beet. collected: July 16, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 567. locality: Plants growing in full sun, in dry cobbles and rock by the sea, Isola Rossa, Sassari, Sardinia. latitude: 41 deg. 00 min. N. longitude: 08 deg. 52 min. E. elevation: 5m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504239 donor id: WB 568. origin: Italy. local name: Wild beet. collected: July 17, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 568. locality: Plants growing in full and partial sun around buildings on experiment station, in damp clay, Oristano, Sardinia. latitude: 39 deg. 51 min. N. longitude: 08 deg. 35 min. E. elevation: 50m. remarks: Dry season. Bulk collection. May be outcrossed to *B. vulgaris*. Annual. Wild. Seed.
- PI 504240 donor id: WB 569. origin: Italy. local name: Wild beet. collected: July 17, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 569. locality: Plants growing in full sun, in dry clay, neutral, 2000m W of S. Vero Mills, Oristano, Sardinia. latitude: 35 deg. 55 min. N. longitude: 08 deg. 32 min. E. elevation: 15m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.

- PI 504241 **donor id:** WB 571. **origin:** Italy. **local name:** Wild beet. **collected:** July 17, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 571. **locality:** Plants growing in full sun along fence line of roadside, in dry clay, neutral, 4000m W of Tiria, Oristano, Sardinia. **latitude:** 39 deg. 44 min. N. **longitude:** 08 deg. 40 min. E. **elevation:** 15m. **remarks:** Dry season. Bulk collection. Variations in color and leaf shape. **heat tolerance:** Heat tolerant. Annual. Wild. Seed.
- PI 504242 **donor id:** WB 572. **origin:** Italy. **local name:** Wild beet. **collected:** July 17, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 572. **locality:** Plants growing in full sun, in dry, droughty clay and fine gravel, neutral, 6000m W of S. Nicolo d'Arcidano, Oristano, Sardinia. **latitude:** 39 deg. 30 min. N. **longitude:** 08 deg. 32 min. E. **elevation:** 10m. **remarks:** Dry season. Bulk collection. Very mature. Red and green leaf types. **drought tolerance:** Drought tolerant. **disease resistance:** Some leaf spot resistance. Annual. Wild. Seed.
- PI 504243 **donor id:** WB 573. **origin:** Italy. **local name:** Wild beet. **collected:** July 18, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 573. **locality:** Plants growing in full sun, in dry silt, very fine sand, and fine gravel, neutral, 1000m W of Saniuri, Cagliari, Sardinia. **latitude:** 39 deg. 24 min. N. **longitude:** 08 deg. 56 min. E. **elevation:** 150m. **remarks:** Dry season. Bulk collection. Red and green leaf types. **drought tolerance:** Drought tolerant. Annual. Wild. Seed.
- PI 504244 **donor id:** WB 574. **origin:** Italy. **local name:** Wild beet. **collected:** July 18, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 574. **locality:** Plants growing in full sun, in dry silt, 300m W of Moniastir Cagliari, Sardinia. **latitude:** 39 deg. 20 min. N. **longitude:** 09 deg. 03 min. E. **elevation:** 100m. **remarks:** Dry season. Bulk collection. Variations in color and leaf shape. One plant very red with fine narrow leaves. **drought tolerance:** Drought tolerant. Annual. Wild. Seed.
- PI 504245 **donor id:** WB 575. **origin:** Italy. **local name:** Wild beet. **collected:** July 18, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 575. **locality:** Plants growing on experimental farm in full sun, in dry silt, 3000m E of Ussana, Cagliari, Sardinia. **latitude:** 39 deg. 20 min. N. **longitude:** 09 deg. 08 min. E. **elevation:** 140m. **remarks:** Dry season. Bulk collection. Plants look like *B. vulgaris*. **drought tolerance:** Drought tolerant. Annual. Wild. Seed.

- PI 504246 donor id: WB 576. origin: Italy. local name: Wild beet. collected: July 18, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 576. locality: Plants growing on experimental farm in full sun, in dry silt, 3000m E of Ussana, Cagliari, Sardinia. latitude: 39 deg. 20 min. N. longitude: 09 deg. 08 min. E. elevation: 140m. remarks: Dry season. Bulk collection. Red plants from population WB 575. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504247 donor id: WB 577. origin: Italy. local name: Wild beet. collected: July 18, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 577. locality: Plants growing on experimental farm in full sun, in dry silt, 3000m NE of Ussana, Cagliari, Sardinia. latitude: 39 deg. 20 min. N. longitude: 09 deg. 08 min. E. elevation: 140m. remarks: Dry season. Bulk collection. Green plants from population WB 575. Annual. Wild. Seed.
- PI 504248 donor id: WB 578. origin: Italy. local name: Wild beet. collected: July 18, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 578. locality: Plants growing on Carletti farm in full sun, in damp silt, 5000m S of Uta, Cagliari, Sardinia. latitude: 30 deg. 15 min. N. longitude: 08 deg. 57 min. E. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504249 donor id: WB 579. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 579. locality: Plants growing in indirect sun on southern slope above beach in trees, in coarse dry sand, 500m SW of Cagliari, Torre Montorio, Sardinia. latitude: 39 deg. 11 min. N. longitude: 09 deg. 20 min. E. elevation: 5m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504250 donor id: WB 580. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 580. locality: Plants growing in full sun on southern slope, in coarse dry sand and gravel above beach, 500m W of Geremeas, Cagliari, Sardinia. latitude: 39 deg. 10 min. N. longitude: 09 deg. 22 min. E. elevation: 5m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.

- PI 504251 donor id: WB 581. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 581. locality: Plants growing in full sun on southern slope, in coarse dry sand and cobbles in little cove up from sea, surrounded by cliffs on three sides, 200m S of Icnugu, Cagliari, Sardinia. latitude: 39 deg. 09 min. N. longitude: 09 deg. 24 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Isolated population. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504252 donor id: WB 582. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 582. locality: Plants growing on side of road in full sun, in fine dry gravel, 1500m E of Solanas, Cagliari, Sardinia. latitude: 39 deg. 08 min. N. longitude: 09 deg. 26 min. E. elevation: 50m. remarks: Dry season. Bulk collection of two plants. Annual. Wild. Seed.
- PI 504253 donor id: WB 584. origin: Italy. local name: Wild beet. collected: July 19, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 584. locality: Plants growing in full sun, in damp silt in botanical garden Cagliari, Cagliari, Sardinia. latitude: 39 deg. 12 min. N. longitude: 09 deg. 08 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504254 donor id: WB 585. origin: Italy. local name: Wild beet. collected: July 20, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 585. locality: Plants growing in full sun, in dry silt and coarse sand, off road by Mobil oil refinery, 5000m N of Sarrach, Cagliari, Sardinia. latitude: 39 deg. 04 min. N. longitude: 09 deg. 02 min. E. elevation: 10m. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504255 donor id: WB 586. origin: Italy. local name: Wild beet. collected: July 20, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 586. locality: Plants growing in full sun, in dry fine sand up from beach, 1000m N of Chia, Cagliari, Sardinia. latitude: 38 deg. 55 min. N. longitude: 08 deg. 50 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Very large population. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504256 donor id: WB 587. origin: Italy. local name: Wild beet. collected: July 20, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 587. locality: Plants growing in full sun, in dry coarse gravel and cobbles, 1500m SE of Calasetta, Cagliari, Sardinia. latitude: 39 deg. 06 min. N. longitude: 08 deg. 23 min. E. elevation: 20m. remarks: Dry season. Bulk collection. Isolated population. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504257 donor id: WB 588. origin: Italy. local name: Wild beet. collected: July 20, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 588. locality: Plants growing in garbage area in full sun, in dry clay and coarse gravel, 1500m W of Bacu Abis, Cagliari, Sardinia. latitude: 39 deg. 12 min. N. longitude: 08 deg. 27 min. E. elevation: 70m. remarks: Dry season. Bulk collection. Plants very small and mature. Most seed shattered. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504258 donor id: WB 589. origin: Italy. local name: Wild beet. collected: July 22, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 589. locality: Plants growing in ditch on side of road in full sun, in damp silt, 4000m SE of Murovena, Cagliari, Sardinia. latitude: 39 deg. 23 min. N. longitude: 09 deg. 32 min. E. elevation: 10m. remarks: Dry season. Bulk collection of four plants. Annual. Wild. Seed.
- PI 504259 donor id: WB 590. origin: Italy. local name: Wild beet. collected: July 22, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 590. locality: Plants growing along fence line in full sun, in dry silt, 2000m E of Villaputzu, Cagliari, Sardinia. latitude: 39 deg. 26 min. N. longitude: 09 deg. 32 min. E. elevation: 40m. remarks: Dry season. Bulk collection. Plants erect and mature. Most seed shattered. Annual. Wild. Seed.
- PI 504260 donor id: WB 591. origin: Italy. local name: Wild beet. collected: July 22, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 591. locality: Plants growing in full sun, in fine dry gravel and cobbles, 7500m S of Serra Orrias, Nuoro, Sardinia. latitude: 40 deg. 19 min. N. longitude: 09 deg. 33 min. E. elevation: 150m. remarks: Dry season. Bulk collection. Plants small, very dry. Most seed shattered. drought tolerance: Drought tolerant. Annual. Wild. Seed.

- PI 504261 donor id: WB 592. origin: Italy. local name: Wild beet. collected: July 24, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 592. locality: Plants growing in partial and full sun, in fine dry gravel, 200m W of Libo del Sole, Sassari, Sardinia. latitude: 40 deg. 53 min. N. longitude: 09 deg. 38 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Plants mature. Most seed shattered. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504262 donor id: WB 593. origin: Italy. local name: Wild beet. collected: July 22, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 593. locality: Plants growing in full sun near the beach and a garbage pile, in fine dry sand, 500m NE of S. Teodoro, Sassari, Sardinia. latitude: 40 deg. 49 min. N. longitude: 09 deg. 42 min. E. elevation: 3m. remarks: Dry season. Bulk collection. Plants few. Seed large. One plant appeared to be biennial. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504263 donor id: WB 594. origin: Italy. local name: Wild beet. collected: July 24, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 594. locality: Plants growing on side of road in full sun, in fine dry gravel and cobbles, 1000m S of Matta'e Peru, Sassari, Sardinia. latitude: 40 deg. 39 min. N. longitude: 09 deg. 43 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Plants mature. Most seed shattered. drought tolerance: Drought tolerant. Annual. Wild. Seed.
- PI 504264 donor id: WB 595. origin: Italy. local name: Wild beet. collected: July 24, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 595. locality: Plants growing in full sun, in coarse dry gravel and cobbles 100m E of C. Comino, Nuoro, Sardinia. latitude: 40 deg. 32 min. N. longitude: 09 deg. 46 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Plants look to be semi-biennial and sugarbeet leaf type but with very thick cuticle. Seeds large. Most seed shattered. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504265 donor id: WB 596. origin: France. local name: Wild beet. collected: July 26, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 596. locality: Plants growing on road in partial sun, in coarse dry gravel, 2000m N of Bonifacio, Ajaccio, Corsica. latitude: 46 deg. 0 min. N. longitude: 07 deg. 58 min. E. elevation: 10m. remarks: Dry season. Bulk collection. Plants in two small populations. Annual. Wild. Seed.

- PI 504266 donor id: WB 597. origin: France. local name: Wild beet. collected: July 26, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 597. locality: Plants growing in field next to hotel, in full sun, in dry silt and coarse gravel, in disturbed graded area, Bonifacio, Ajaccio, Corsica. latitude: 45 deg. 98 min. N. longitude: 07 deg. 58 min. E. elevation: 4m. remarks: Dry season. Bulk collection. Plants were procumbent and segregating for leaf hairiness. Seed still green. Annual. Wild. Seed.
- PI 504267 donor id: WB 599. origin: France. local name: Wild beet. collected: July 26, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 599. locality: Plants growing in partial sun, in coarse dry gravel and cobbles, 4000m N of Bonifacio, Ajaccio, Corsica. latitude: 46 deg. 02 min. N. longitude: 07 deg. 59 min. E. elevation: 50m. remarks: Dry season. Bulk collection. Plants with some red pigmentation. Annual. Wild. Seed.
- PI 504268 donor id: WB 600. origin: France. local name: Wild beet. collected: July 27, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 600. locality: Plants growing off beach next to garbage dump on northern slope in partial sun, in fine dry and damp sand, 2000m SE of Bosca, Ajaccio, Corsica. latitude: 41 deg. 27 min. N. longitude: 09 deg. 13 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Plants were not as mature as seen in Sardinia, but in a high humidity area. Seeds mature. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504269 donor id: WB 601. origin: France. local name: Wild beet. collected: July 27, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 601. locality: Plants growing at sea level on northern slope in partial sun, in damp granite rocks, 200m N of Porto Vecchio, Ajaccio, Corsica. latitude: 41 deg. 31 min. N. longitude: 09 deg. 13 min. E. elevation: 1m. remarks: Dry season. Bulk collection. Plants erect, some phoma. Leaves quite leathery. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504270 donor id: WB 602. origin: France. local name: Wild beet. collected: July 27, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 602. locality: Plants growing in vacant lot off road on southern slope in partial sun, in fine dry gravel, Aleria, Bastia, Corsica. latitude: 42 deg. 05 min. N. longitude: 09 deg. 28 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Large population. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504271 donor id: WB 604. origin: France. local name: Wild
beet. collected: July 27, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 604. locality: Plants
growing in partial sun, in coarse dry gravel, 200m E of
la Camonica, Bastia, Corsica. latitude: 42 deg. 34 min.
N. longitude: 09 deg. 29 min. E. elevation: 10m.
remarks: Dry season. Bulk collection. Plants large,
segregating for red and green pigmentation, erect.
Annual. Wild. Seed.
- PI 504272 donor id: WB 605. origin: France. local name: Wild
beet. collected: July 28, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 605. locality: Plants
growing at mouth of river at the sea in full sun, in
coarse dry gravel, Grigione, Bastia, Corsica. latitude:
42 deg. 47 min. N. longitude: 09 deg. 26 min. E.
elevation: 3m. remarks: Dry season. Bulk collection.
Annual. Wild. Seed.
- PI 504273 donor id: WB 606. origin: France. local name: Wild
beet. collected: July 28, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 606. locality: Plants
growing in and near vineyard up river about 300m from
sea, in partial sun, in irrigated very fine sand and fine
sand, Grigione, Bastia, Corsica. latitude: 42 deg. 47
min. N. longitude: 09 deg. 56 min. E. elevation: 10m.
remarks: Dry season. Bulk collection. Looks like an
escaped landrace. Annual. Wild. Seed.
- PI 504274 donor id: WB 607. origin: France. local name: Wild
beet. collected: July 28, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 607. locality: Plants
growing off road in weedy area where road crosses gorge,
in partial sun, in dry silt and fine gravel, Erbalunga,
Bastia, Corsica. latitude: 42 deg. 50 min. N.
longitude: 09 deg. 26 min. E. elevation: 15m. remarks:
Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504275 donor id: WB 608. origin: France. local name: Wild
beet. collected: July 28, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 608. locality: Plants
growing on side of hill above church on western slope in
partial sun, in irrigated very fine sand and fine gravel,
Patrimonia, Bastia, Corsica. latitude: 42 deg. 44 min.
N. longitude: 09 deg. 19 min. E. elevation: 180m.
remarks: Dry season. Bulk collection. Looks like an old
landrace of leaf beet. Pubescent and medium thick
cuticle. Annual. Wild. Seed.

PI 504182 to 504285-continued

- PI 504276 donor id: WB 609. origin: France. local name: Wild beet. collected: July 28, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 609. locality: Plants growing in weedy area 5m from sea in full sun, in coarse dry sand, 400m N of St. Florett, Bastia, Corsica. latitude: 42 deg. 44 min. N. longitude: 09 deg. 16 min. E. elevation: lm. remarks: Dry season. Bulk collection. Large population. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504277 donor id: WB 610. origin: France. local name: Wild beet. collected: July 28, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 610. locality: Plants growing on E side of road in full sun, in dry silt and coarse gravel, I'lle Rousse, Bastia, Corsica. latitude: 42 deg. 40 min. N. longitude: 08 deg. 50 min. E. elevation: 5m. remarks: Dry season. Bulk collection. Large population of large plants. Erect green and red types. Annual. Wild. Seed.
- PI 504278 donor id: WB 611. origin: France. local name: Wild beet. collected: July 29, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 611. locality: Plants growing about 200m from beach in weedy area in full sun, in very coarse dry sand, in city limits, Calvi, Bastia, Corsica. latitude: 42 deg. 36 min. N. longitude: 08 deg. 38 min. E. elevation: 3m. remarks: Dry season. Bulk collection of one plant. Small population. Annual. Wild. Seed.
- PI 504279 donor id: WB 612. origin: France. local name: Wild beet. collected: July 29, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 612. locality: Plants growing on beach in full sun, in coarse dry sand, Ajaccio, Ajaccio, Corsica. latitude: 41 deg. 53 min. N. longitude: 08 deg. 38 min. E. elevation: lm. remarks: Dry season. Bulk collection. drought tolerance: Drought tolerant. salt tolerance: Salt tolerant. Annual. Wild. Seed.
- PI 504280 donor id: WB 613. origin: France. local name: Wild beet. collected: July 30, 1985. collector: D.L. Doney & J.S. McFarlane. collector id: WB 613. locality: Plants growing on cliffs by sea on southern slope in full sun, in dry cobbles, Ajaccio, Ajaccio, Corsica. latitude: 41 deg. 50 min. N. longitude: 08 deg. 54 min. E. elevation: lm. remarks: Dry season. Bulk collection. Small population. Very humid area. salt tolerance: Salt tolerant. Annual. Wild. Seed.

- PI 504281 **donor id:** WB 614. **origin:** France. **local name:** Wild beet. **collected:** July 30, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 614. **locality:** Plants growing in two locations near Tour de la Parata. One near the sea and one up the hill about 20m, on southern slope in full sun, in coarse dry gravel and cobbles, 13000m W of Ajaccio, Ajaccio, Corsica. **latitude:** 41 deg. 52 min. N. **longitude:** 08 deg. 28 min. E. **elevation:** 1m. **remarks:** Dry season. Bulk collection. Two large native populations. Very humid. Seed mature, damp. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.
- PI 504282 **donor id:** WB 615. **origin:** France. **local name:** Wild beet. **collected:** July 30, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 615. **locality:** Plants growing on side of road in full sun, in coarse dry gravel, Abbartello, Ajaccio, Corsica. **latitude:** 41 deg. 38 min. N. **longitude:** 08 deg. 44 min. E. **elevation:** 10m. **remarks:** Dry season. Bulk collection. Most erect. Annual. Wild. Seed.
- PI 504283 **donor id:** WB 616. **origin:** France. **local name:** Wild beet. **collected:** July 30, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 616. **locality:** Plants growing by bridge over river Taravo on side of road on southern slope in full sun, in very fine dry sand and coarse gravel, Ajaccio, Corsica. **latitude:** 41 deg. 40 min. N. **longitude:** 08 deg. 42 min. E. **elevation:** 5m. **remarks:** Dry season. Bulk collection. Annual. Wild. Seed.
- PI 504284 **donor id:** WB 617. **origin:** France. **local name:** Wild beet. **collected:** July 30, 1985. **collector:** D.L. Doney & J.S. McFarlane. **collector id:** WB 617. **locality:** Plants growing in fields and near beach in full sun, in dry fine sand, coarse sand, and coarse gravel, 400m S of Porto Pollo, Ajaccio, Corsica. **latitude:** 41 deg. 38 min. N. **longitude:** 08 deg. 41 min. E. **elevation:** 5m. **remarks:** Dry season. Bulk collection. Large population. Mature. Possibly point of origin. **drought tolerance:** Drought tolerant. **salt tolerance:** Salt tolerant. Annual. Wild. Seed.

PI 504182 to 504285-continued

PI 504285 donor id: WB 618. origin: France. local name: Wild
beet. collected: July 30, 1985. collector: D.L. Doney &
J.S. McFarlane. collector id: WB 618. locality: Plants
growing on beach in indirect sun, in dry coarse sand and
cobbles, Propriano, Ajaccio, Corsica. latitude: 41 deg.
37 min. N. longitude: 08 deg. 47 min. E. elevation: 2m.
remarks: Dry season. Bulk collection. Large population of
large, erect plants. drought tolerance: Drought
tolerant. salt tolerance: Salt tolerant. Annual. Wild.
Seed.

PI 504286. *Glycine soja* Siebold & Zucc. FABACEAE Wild soybean

Donated by Hong, E.H., Crop Experiment Station, Office of Rural
Development, Suweon, Korea, Republic of. Received through Yun-Tzu
Kiang, University of New Hampshire, Durham, New Hampshire, United
States Received July 1986.

PI 504286 donor id: 75042. origin: Korea, Republic of. locality:
Geosan, Chungheong Bug Do. latitude: 36 deg. 49 min. N.
Wild. Seed.

PI 504287 to 504290. *Glycine soja* Siebold & Zucc. FABACEAE Wild
soybean

Donated by Kaizuma, N., Iwate University, Morioka City, Iwate Ken,
Japan. Received through Yun-Tzu Kiang, University of New Hampshire,
Durham, New Hampshire. Received July 1986.

PI 504287 donor id: G. origin: Japan. collected: October 1982.
locality: Campus of Iwate University, Morioka City, Iwate
Ken. latitude: 39 deg. 45 min. N. longitude: 141 deg.
W. Wild. Seed.

PI 504288 donor id: S. origin: Japan. collected: October 1982.
locality: Shore of Shizukuishi River, 3km form Iwate
University, Morioka City, Iwate Ken. latitude: 39 deg.
40 min. N. longitude: 141 deg. W. Wild. Seed.

PI 504289 donor id: K. origin: Japan. collected: October 1982.
locality: Shore of Kitakami River, Kitakami City, Iwate
Ken. latitude: 39 deg. 20 min. N. longitude: 141 deg.
W. Wild. Seed.

PI 504290 donor id: I. origin: Japan. collected: October 1982.
locality: Shore of Iwaigawa River, Ichinoseki City, Iwate
Ken. latitude: 38 deg. 50 min. N. longitude: 141 deg.
W. Wild. Seed.

PI 504291. *Cicer judaicum* Boiss. FABACEAE

Donated by Muehlbauer, F.J., Department of Agronomy and Soils, Washington State University, 213 Johnson Hall, Pullman, Washington, United States. Received April 1986.

PI 504291 origin: Jordan. locality: Northern Jordan, near Natefh. Wild. Seed.

PI 504292 to 504293. *Oryza sativa* L. POACEAE Rice

Donated by Chang, T.T., International Rice Research Institute, P.O. Box 933, Manila, Philippines. Received August 1986.

PI 504292 origin: UNKNOWN. cultivar: IR64. other id: A 2624. Cultivated. Seed.

PI 504293 origin: UNKNOWN. cultivar: IR65. other id: A 2625. remarks: Waxy variety. Cultivated. Seed.

PI 504294 to 504312. *Zea mays* L. POACEAE Field corn

Donated by Sevilla P., R., Programa Cooperativo De Investigaciones en Maiz, Universidad Nacional Agraria, La Molina, Lima, Peru. Received August 11, 1986.

PI 504294 donor id: Lambayeque 77. origin: Peru. Cultivated. Seed.

PI 504295 donor id: Lambayeque 106. origin: Peru. Cultivated. Seed.

PI 504296 donor id: Lambayeque 154. origin: Peru. Cultivated. Seed.

PI 504297 donor id: Libertad 172. origin: Peru. Cultivated. Seed.

PI 504298 donor id: Libertad 181. origin: Peru. Cultivated. Seed.

PI 504299 donor id: Libertad 182. origin: Peru. Cultivated. Seed.

PI 504300 donor id: Libertad 187. origin: Peru. Cultivated. Seed.

PI 504301 donor id: Libertad 188. origin: Peru. Cultivated. Seed.

PI 504302 donor id: Libertad 192. origin: Peru. Cultivated. Seed.

PI 504294 to 504312-continued

- PI 504303 donor id: Libertad 193. origin: Peru. Cultivated. Seed.
- PI 504304 donor id: Libertad 194. origin: Peru. Cultivated. Seed.
- PI 504305 donor id: Libertad 195. origin: Peru. Cultivated. Seed.
- PI 504306 donor id: Libertad 196. origin: Peru. Cultivated. Seed.
- PI 504307 donor id: Libertad 197. origin: Peru. Cultivated. Seed.
- PI 504308 donor id: Libertad 198. origin: Peru. Cultivated. Seed.
- PI 504309 donor id: Libertad 199. origin: Peru. Cultivated. Seed.
- PI 504310 donor id: Libertad 200. origin: Peru. Cultivated. Seed.
- PI 504311 donor id: Lima 2. origin: Peru. Cultivated. Seed.
- PI 504312 donor id: Lima 21. origin: Peru. Cultivated. Seed.

PI 504313. *Festuca idahoensis* Elmer POACEAE Idaho fescue

Donated by Davis, A. M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for Lupinus in US. Received January 1986.

- PI 504313 donor id: D&S 7. origin: United States. collector: A.M. Davis and D.M. Stout. collector id: D&S 7. locality: Upland clay pan prairie, 6.4km E on Rhea Creek Rd, off Hwy 207 S of Heppner, than 4.8km on Sanford Canyon Road, Oregon. drought tolerance: Drought tolerant. Wild. Seed.

PI 504314. *Lathyrus nevadensis* S. Watson FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for Lupinus in US. Received January 1986.

PI 504314-continued

PI 504314 donor id: D&S 19. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 19. locality: Hwy 19, 8km N of Service Creek, Oregon. remarks: Vine. Wild. Seed.

PI 504315. *Lupinus affinis* J. Agardh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504315 donor id: D&S 26. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 26. locality: Disturbed dry road cut, Hwy 218, 1.6km W of John Day River, Oregon. remarks: Plants growing with sagebrush. Plants short, puberulent. Pods inflated. drought tolerance: Drought tolerant. Annual. Wild. Seed.

PI 504316 to 504317. *Lupinus arbustus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504316 donor id: D&S 32. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 32. locality: Upland clay pan prairie, Hwy 218, 3.2km E of Shanko, Oregon. remarks: Plants growing with bottle brush, sagebrush, cheat grass and yarrow. Plants short, glabrous. Wild. Seed.

PI 504317 donor id: D&S 50. origin: United States. collected: July 9, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 50. locality: Hwy 203, N of Baker, at county line, S of Medical Springs, Oregon. remarks: Plants growing with sage brush, cheatgrass, three awn *Lathyrus*. Maturity early. Seeds red. Wild. Seed.

PI 504318 to 504319. *Lupinus arbustus* subsp. *neolaxiflorus* D. Dunn
FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504318 to 504319-continued

PI 504318 donor id: D&S 29. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 29. locality: Hwy 218, 8km W of John Day River crossing, Oregon. elevation: 900m. remarks: Plants growing with sagebrush, bottle brush, cheatgrass, rabbit brush and yarrow. Plants glabrous. Flowers blue. Wild. Seed.

PI 504319 donor id: D&S 52. origin: United States. collector: A.M. Davis and D.M. Stout. collector id: D&S 52. locality: Hwy 97, Snow Cap Identifier turnout, 6.4km S of Shaniko, Oregon. elevation: 990m. remarks: Plants growing with sagebrush, aster, bottle brush and sneeze weed. Plants medium tall. Flowers blue. Wild. Seed.

PI 504320. *Lupinus argenteus* Pursh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504320 donor id: D&S 18. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 18. locality: Hwy 19, 8km N of Service Creek, Oregon. remarks: Plants small, glabrous. Flowers blue. Wild. Seed.

PI 504321 to 504323. *Lupinus argenteus* var. *tenellus* (Douglas ex G. Don) D. Dunn FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504321 donor id: D&S 36. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 36. locality: Ashwood Road, 4.8km E of Madras, Oregon. elevation: 900m. remarks: Plants growing with three awn, Juniper, sagebrush and cheatgrass. Plants pubescent. Flowers blue. Wild. Seed.

PI 504322 donor id: D&S 39. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 39. locality: Near reservoir on Grizzley Mtn. Road, 1.6km N of Hay Creek Ranch Headquarters, 20.8km from Madras, Oregon. elevation: 450m. remarks: Plants growing with sagebrush, cheatgrass and Juniper. Plants tall, glabrous. Wild. Seed.

PI 504321 to 504323-continued

PI 504323 **donor id:** D&S 43. **origin:** United States. **collected:** July 8, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 43. **locality:** Hwy 26, 3.2km N of Prineville, Oregon. **elevation:** 900m. **remarks:** Plants growing with sagebrush, cheatgrass, scattered Juniper. Plants tall, glabrous. Wild. Seed.

PI 504324 to 504329. *Lupinus aridus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504324 **donor id:** D&S 16. **origin:** United States. **collected:** July 7, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 16. **locality:** Hwy 207, above the John Day River, 1.6km W of Spray, Oregon. **elevation:** 555m. **remarks:** Plants growing with Juniper, sagebrush, rabbit brush and cheatgrass. Plants short. Leaves fine. Flowers blue. Wild. Seed.

PI 504325 **donor id:** D&S 35. **origin:** United States. **collected:** July 8, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 35. **locality:** Hwy 97, above Madras Valley, 22.4km S of Shaniko, Oregon. **remarks:** Plants growing with sagebrush, bottle brush, rabbit brush, Juniper, cheatgrass and yarrow. Plants pubescent. Flowers blue. Wild. Seed.

PI 504326 **donor id:** D&S 37. **origin:** United States. **collected:** July 8, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 37. **locality:** Ashwood Road, 9.6km, E of Madras, Oregon. **elevation:** 900m. **remarks:** Plants growing with Juniper, sagebrush, and three awn. Plants small, puberulent. Flowers very small, blue. Wild. Seed.

PI 504327 **donor id:** D&S 38. **origin:** United States. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 38. **locality:** In sandy blowout on Grizzley Mountain road, 1.6km N of Hay Creek Ranch Headquarters, 19.2km from Madras, Oregon. **elevation:** 300m. **remarks:** Plants growing with Juniper, sagebrush, and cheatgrass. Plants small. Flowers blue. Wild. Seed.

PI 504324 to 504329-continued

PI 504328 donor id: D&S 46. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 46. locality: Hwy 207, 6.4km from Mitchell towards Service Creek, Oregon. remarks: Plants growing with Juniper, sagebrush, ribes and mullen. Wild. Seed.

PI 504329 donor id: D&S 47. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 47. locality: Hwy 207, 6.4km from Mitchell towards Service Creek, Oregon. elevation: 900m. remarks: Plants growing with Juniper, sagebrush, and rabbit brush. Wild. Seed.

PI 504330. *Lupinus caudatus* Kellogg FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504330 donor id: D&S 84. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 84. locality: Hwy 30, 11.2km from Tonasket to Republic, Washington. remarks: Plants growing with rabbit brush and sagebrush. Plants large, pubescent. Stems coarse. Flowers lavender. Wild. Seed.

PI 504331 to 504332. *Lupinus caudatus* Kellogg subsp. *caudatus* FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504331 donor id: D&S 41. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 41. locality: Near reservoir on Grizzley Mountain Road, 1.6km N of Hay Creek Ranch Headquarters and 20.8km from Madras, Oregon. elevation: 450m. remarks: Plants growing with sagebrush, cheatgrass, and Juniper. Wild. Seed.

PI 504332 donor id: D&S 48. origin: United States. collected: July 9, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 48. locality: Hwy 26, 16km E of John Day, Oregon. elevation: 1050m. remarks: Plants growing with rabbit brush, cheatgrass, sagebrush and Medusa head. Wild. Seed.

PI 504333 to 504334. *Lupinus holosericeus* Nutt. FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504333 **donor id:** D&S 28. **origin:** United States. **collected:** July 8, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 28. **locality:** Hwy 218, 8km W of John Day river crossing, Oregon. **remarks:** Plants growing with sagebrush, bottle brush, cheatgrass, rabbit brush, and yarrow. Wild. Seed.

PI 504334 **donor id:** D&S 31. **origin:** United States. **collected:** July 8, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 31. **locality:** Hwy 218, over summit, 16km W of John Day River towards Antelope, Oregon. **remarks:** Plants growing with three awn, bottle brush, cheatgrass, and sagebrush. Plants pubescent blue-gray. Wild. Seed.

PI 504335. *Lupinus latifolius* Lindley ex J. Agardh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504335 **donor id:** D&S 77. **origin:** United States. **collected:** August 5, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 77. **locality:** Forest boundary, 19.2km from Baldy Mountain Pass towards Conconully, Washington. **remarks:** Plants growing with fir and larch. Plants medium tall, glabrous. Flowers blue. Wild. Seed.

PI 504336 to 504346. *Lupinus leucophyllus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504336 **donor id:** D&S 4. **origin:** United States. **collected:** July 7, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 4. **locality:** Off Hwy 207 S of Heppner, 6.4km E on Rhea Creek Road, then 1.6km on Sanford Canyon Road, Oregon. **elevation:** 300m. **remarks:** Plants growing with teasel, Achillea, Aristida, and Bromus tectorum. Plants medium tall, grey, hirsute. Flowers blue. Similar to plumosus race. Wild. Seed.

- PI 504337 donor id: D&S 5. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 5. locality: Upland clay prairie off Hwy 207 S of Heppner, 6.4km E on Rhea Creek Road, then 4.8km on Sanford Canyon Road, Oregon. elevation: 250m. remarks: Plants growing with Storksbill, Aristida, Guterezia, Achillea, and Bromus tectorum. Plants short, hirsute. Flowers blue. Wild. Seed.
- PI 504338 donor id: D&S 8. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 8. locality: Upper Rhea Creek Road, 17.6km from Hwy 207, S of Heppner, Oregon. elevation: 300m. remarks: Plants growing with yarrow, sagebrush, sego lily, mullen, blue flax, cheatgrass and blue grass. Plants short, hirsute. Leaves small. Pods with 2-3 seeds. Wild. Seed.
- PI 504339 donor id: D&S 10. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 10. locality: At base of basalt ledge, upper Rhea Creek Road, 27.2km E of Hwy 207, S of Heppner, Oregon. elevation: 240m. remarks: Plants growing with Crataegus, Medusa head, cheatgrass, Briza maxima, Aristida, rabbit brush, and Canada wildrye. Plants puberulent, blue-gray. Flowers blue. Wild. Seed.
- PI 504340 donor id: D&S 11. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 11. locality: Hwy 207, 11.2km S of Ruggs, Oregon. elevation: 450m. remarks: Plants growing with three awn, cheatgrass, and rabbit brush. Plants puberulent, blue-gray. Flowers blue. Approaches var. canescens. Wild. Seed.
- PI 504341 donor id: D&S 17. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 17. locality: Hwy 19, 1.6km from Service Creek junction, Oregon. remarks: Plants growing with Juniper, sage brush, and cheatgrass. Plants average height, puberulent. Wild. Seed.
- PI 504342 donor id: D&S 21. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 21. locality: Disturbed site at fossil beds, Fossil, Oregon. elevation: 795m. remarks: Plants growing with sagebrush, cheatgrass, and Salsify. Plants short, puberulent. Flowers rose colored. Wild. Seed.

PI 504336 to 504346-continued

- PI 504343 donor id: D&S 81. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 81. locality: Riverside junction, abandoned field, 17.6km from Conconully towards Omak, Washington. elevation: 600m. remarks: Plants growing with sego lily, rabbit brush, sagebrush, and plantago. Plants tall, pubescent. Flowers blue. Wild. Seed.
- PI 504344 donor id: D&S 82. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 82. locality: In old field, now pasture, road to Riverside, 20.8km from Conconully, Washington. elevation: 600m. remarks: Plants growing with rabbit brush, sagebrush, knapweed, and yarrow. Plants tall, pubescent. Maturity late. Flowers blue. Wild. Seed.
- PI 504345 donor id: D&S 85. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 85. locality: Hwy 30, 24km from Tonasket towards Republic, Washington. elevation: 750m. remarks: Plants growing with rabbit brush, sagebrush, and ponderosa pine. Plants tall, coarse, pubescent. Flowers lavender. Wild. Seed.
- PI 504346 donor id: D&S 97. origin: United States. collected: August 15, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 97. locality: Rocky, bitterroot river bench pasture, 4.8km S of Stephenville junction with Hwy 93, Montana. remarks: Plants growing with cottonwood, ponderosa pine, aspen, and knapweed. Plants medium tall, pubescent. Maturity late. Flowers blue. Wild. Seed.

PI 504347. *Lupinus leucophyllus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

- PI 504347 donor id: D&S 1. origin: United States. collected: July 7, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 1. locality: Dry hillside, Hwy 207, 3.2km S of Heppner, Oregon. elevation: 240m. remarks: Plants growing with SeGO lily, tall oatgrass, *Aristida*, *Achillea*, *Artemisia*, and *Guterezia*. Plants hirsute, silver-gray. Wild. Seed.

PI 504348. *Lupinus littoralis* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504348 donor id: D&S 96. origin: United States. collected: August 9, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 96. locality: Hwy 101, Coastal Dune, Ona Beach, S of Newport, Oregon. remarks: Plants short, glabrous (Tolerant to salt water?). salt tolerance: Salt tolerant. Wild. Seed.

PI 504349 to 504353. *Lupinus polyphyllus* Lindley FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504349 donor id: D&S 67. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 67. locality: Lake Road, 16km from Twisp, Washington. elevation: 1080m. remarks: Plants growing with ponderosa pine, spruce, fir, balsamroot, yarrow, and elderberry. Plants possibly mixture of three types: glabrous large and medium leaf, and puberulent medium leaf. Flowers blue. Wild. Seed.

PI 504350 donor id: D&S 68. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 68. locality: From Black Lake junction, 6.4km to Hwy 153, Washington. remarks: Plants growing with aspen and fir. Plants glabrous. Leaves large. Flowers light purple. Aphids on green pods. Wild. Seed.

PI 504351 donor id: D&S 73. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 73. locality: From Winthrop, 27.2km NE towards Conconully, Washington. remarks: Plants growing with lodgepole pine, fir, and spruce. Plants glabrous. Leaves thin. Flowers blue. Pods puberulent. Wild. Seed.

PI 504352 donor id: D&S 75. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 75. locality: Disturbed roadside, 1.6km from Rogers Lake junction towards Conconully, Washington. elevation: 1500m. remarks: Plants growing with lodgepole pine and fir. Plants glabrous. Flowers blue with striped standards. Wild. Seed.

PI 504349 to 504353-continued

PI 504353 donor id: D&S 79. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 79. locality: Conconully Lake Road, 4.8km above Conconully Lake, Washington. remarks: Plants growing with ponderosa pine, blueberry, and oregon grape. Plants medium tall, glabrous. Flowers blue. Wild. Seed.

PI 504354 to 504355. *Lupinus burkei* S. Watson FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504354 donor id: D&S 64. origin: United States. collected: August 4, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 64. locality: From Twisp, 20.8km on Black Canyon Road, then 14.4km on Lime Creek Road, Washington. remarks: Plants growing with ponderosa pine, fir, big bluegrass, and forest glade. Plants glabrous. Leaves large, dark green. Flowers dark blue. Wild. Seed.

PI 504355 donor id: D&S 87. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 87. locality: Turner Lake Road, 4.8km from Hwy 30, Washington. remarks: Plants growing with white pine, willow, and larch. Plants medium tall, glabrous. Flowers blue. Wild. Seed.

PI 504356. *Lupinus pusillus* Pursh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504356 donor id: D&S 27. origin: United States. collected: July 8, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 27. locality: Hwy 218, 8km W of John Day River crossing, Oregon. remarks: Plants growing with sagebrush, bottle brush, cheatgrass, rabbit brush, and yarrow. Flowers blue. Wild. Seed.

PI 504357. *Lupinus rivularis* Douglas ex Lindley FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504357 **donor id:** D&S 74. **origin:** United States. **collected:** August 5, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 74. **locality:** Rogers Lake shore, in peat bog, on road between Winthrop and Conconully, Washington. **remarks:** Plants growing with lodgepole pine, fir, and spruce. Leaves glabrous. Flowers with blue standards and white keels. Wild. Seed.

PI 504358 to 504362. *Lupinus sericeus* Pursh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504358 **donor id:** D&S 45. **origin:** United States. **collected:** July 08, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 45. **locality:** Hwy 26, 67.2km E of Prineville, Oregon. **remarks:** Plants growing with mountain mahogany, juniper, and cheatgrass. Seeds red. Wild. Seed.

PI 504359 **donor id:** D&S 49. **origin:** United States. **collected:** July 9, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 49. **locality:** Towards Baker, 16km from junction of Hwy 7 and Hwy 26, Oregon. **remarks:** Plants growing with sagebrush, Brassica, rabbit brush and Cercium. Wild. Seed.

PI 504360 **donor id:** D&S 60. **origin:** United States. **collected:** August 4, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 60. **locality:** Alfalfa field, mowed once, on Antoine Creek Road, 7.2km off Hwy 97. **remarks:** Plants puberulent. Flowers blue. Wild. Seed.

PI 504361 **donor id:** D&S 88. **origin:** United States. **collected:** August 6, 1971. **collector:** A.M. Davis and D.M. Stout. **collector id:** D&S 88. **locality:** Mt. Annie Road, 12.8km from Hwy 30, and 9.6km from Turner Lake junction, Washington. **remarks:** Plants growing with white pine, larch, fir, and strawberries. Plants medium height, glabrous. Flowers blue. Wild. Seed.

PI 504358 to 504362-continued

PI 504362 donor id: D&S 95. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 95. locality: South of Pomroy, 8km from Forest boundary, Washington. remarks: Plants growing with spruce, fir, and ponderosa pine. Plants short, puberulent. Maturity late. Flowers blue. Wild. Seed.

PI 504363 to 504364. *Lupinus sericeus* var. *egglestonianus* C. P. Smith
FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504363 donor id: D&S 56. origin: United States. collected: August 4, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 56. locality: In reseeded hillside, after E turn, 12.8km N of Waterville, Washington. elevation: 840m. remarks: Plants growing with crested wheat. Plants small, puberulent, grayish. Wild. Seed.

PI 504364 donor id: D&S 83. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 83. locality: Hwy 30, 1.6km from Republic to Tonasket, Washington. elevation: 750m. remarks: Plants growing with rabbit brush and sagebrush. Plants medium height, pubescent. Flowers blue. Wild. Seed.

PI 504365 to 504366. *Lupinus sericeus* var. *flexuosus* (Lindley ex J. Agardh) C. P. Smith FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504365 donor id: D&S 78. origin: United States. collected: August 5, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 78. locality: Roadside above Conconully Lake, 1.6km from Conconully, Washington. elevation: 600m. remarks: Plants growing with ponderosa pine, spruce, and fir. Plants medium height, puberulent. Flowers blue. Wild. Seed.

PI 504365 to 504366-continued

PI 504366 donor id: D&S 89. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 89. locality: Junction of Swamp Creek Road and Hwy 30, 40km W of Republic, Washington. elevation: 900m. remarks: Plants growing with fir and prostrate Ceanothus. Plants medium height, glabrous. Flowers blue. Wild. Seed.

PI 504367 to 504368. *Lupinus sulphureus* Douglas ex Hook. FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504367 donor id: D&S 92. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 92. locality: Hwy 21, 4.8km S of Keller, Washington. remarks: Plants growing with rabbit brush and cheatgrass. Plants tall, pubescent. Flowers blue. Wild. Seed.

PI 504368 donor id: D&S 94. origin: United States. collected: August 6, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 94. locality: Abbie Ridge game management area, 12.8km S of Forest Boundary, S of Pomeroy, Washington. remarks: Plants growing with ponderosa pine and balsam root. Plants medium height, puberulent. Flowers yellow. Wild. Seed.

PI 504369. *Poa ampla* Merr. POACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for *Lupinus* in US. Received January 1986.

PI 504369 donor id: D&S 6. origin: United States. collected: July 07, 1971. collector: A.M. Davis and D.M. Stout. collector id: D&S 6. locality: Upland clay pan prairie off Hwy 207 S of Heppner, 6.4km E of Rhea Creek Road, then 4.8km on Sanford Canyon Road, Washington. remarks: Plants growing with storksbill, yarrow, gum weed, annual three awn, and cheatgrass. Plants bunch type. drought tolerance: Drought tolerant. Wild. Seed.

PI 504370. *Poa secunda* J. S. Presl POACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. Received through 1971 Expedition for Lupinus in US. Received January 1986.

PI 504370 donor id: D&S 51. origin: United States. collector: A.M. Davis and D.M. Stout. collector id: D&S 51. locality: Hwy 203, N of Baker county line, S of Medical Springs, Oregon. remarks: Plants growing with sagebrush, cheatgrass, three awn, and Lathyrus. received as: *Poa sandbergii*.. Wild. Seed.

PI 504371. *Lupinus arbustus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for Lupinus in US. Received January 1986.

PI 504371 donor id: D&S 142. origin: United States. collected: July 13, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 142. locality: South, 10km of Newport, Pend Orielle County, Washington. Wild. Seed.

PI 504372 to 504374. *Lupinus argenteus* Pursh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for Lupinus in US. Received January 1986.

PI 504372 donor id: D&S 101. origin: United States. collected: August 22, 1983. locality: Dry southeast slope, Hwy 12, 14km S of Teasdale, Wayne County, Utah. remarks: Plants growing with ponderosa pine. Wild. Seed.

PI 504373 donor id: D&S 102. origin: United States. collected: August 22, 1983. locality: Dry east slope, Hwy 12, 14km S of Teasdale, Wayne County, Utah. remarks: Plants growing with ponderosa pine. Wild. Seed.

PI 504374 donor id: D&S 169. origin: United States. collected: July 18, 1983. locality: Squaw Butte Range Experimental area, Sect. 20, T22S, R32E, Harney County, Oregon. elevation: 1329m. remarks: Plants growing with big sagebrush, low sagebrush, and bluebunch wheatgrass. Wild. Seed.

PI 504375. *Lupinus caudatus* Kellogg FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504375 donor id: D&S 124. origin: United States. local name: Tailcup lupine. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 124. locality: Hwy 26, 2km W of Warmsprings, Jefferson County, Oregon. remarks: Plants large, hirsute. Wild. Seed.

PI 504376 to 504380. *Lupinus argenteus* var. *tenellus* (Douglas ex G. Don) D. Dunn FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504376 donor id: D&S 121. origin: United States. local name: Spurred lupine. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 121. locality: Junction of Mt. Annie Road and Hwy 20 between Omak and Twisp, Okanagan County, Washington. Wild. Seed.

PI 504377 donor id: D&S 122. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 122. locality: Mt. Annie Road, 5km from Hwy 20, between Omak and Twisp, Okanagan County, Washington. Wild. Seed.

PI 504378 donor id: D&S 123. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 123. locality: Mt. Annie Road, 10km from Hwy 20, between Omak and Twisp, Okanagan County, Washington. Wild. Seed.

PI 504379 donor id: D&S 126. origin: United States. collected: July 01, 1983. locality: Sect. 27, T33N, R26E, Okanagan County, Washington. elevation: 548m. remarks: Plants growing with bluebunch wheatgrass, yarrow, and serviceberry. Wild. Seed.

PI 504380 donor id: D&S 128. origin: United States. collected: June 21, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 128. locality: Hwy 26, 13km W of Vantage, Kittitas County, Washington. Wild. Seed.

PI 504381 to 504383. *Lupinus lepidus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504381 donor id: D&S 182. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 182. locality: Hwy 244, Starkey, 20km W of LaGrande, Umatilla County, Oregon. Wild. Seed.

PI 504382 donor id: D&S 184. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 184. locality: US Forest Service Road, 20km from Ukiah to Heppner, Umatilla County, Oregon. Wild. Seed.

PI 504383 donor id: D&S 185. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 185. locality: South, 5km of Ruggs, Morrow County, between Heppner and Spray, Oregon. Wild. Seed.

PI 504384 to 504400. *Lupinus leucophyllus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504384 donor id: D&S 117. origin: United States. collected: July 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 117. locality: Hwy 395, 10km S of Ukiah, Umatilla County, Oregon. Wild. Seed.

PI 504385 donor id: D&S 118. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 118. locality: Open upland meadow, 20km on Forest Service Rd, from Ukiah to Heppner, Morrow County, Oregon. Wild. Seed.

PI 504386 donor id: D&S 119. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 119. locality: Hwy 19, Fossil, Wheeler County, Oregon. Wild. Seed.

PI 504387 donor id: D&S 129. origin: United States. collected: July 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 129. locality: Sagebrush prairie, Hwy 244, 25km E of Ukiah, Umatilla County, Oregon. elevation: 1500m. Wild. Seed.

PI 504384 to 504400-continued

- PI 504388 donor id: D&S 130. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 130. locality: Hwy 395, 5km S of Pilot Rock, Umatilla County, Oregon. elevation: 550m. Wild. Seed.
- PI 504389 donor id: D&S 131. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 131. locality: Hwy 395, 22km S of Pilot Rock, Umatilla County, Oregon. Wild. Seed.
- PI 504390 donor id: D&S 132. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 132. locality: Hwy 395, 33km S of Pilot Rock, Umatilla County, Oregon. Wild. Seed.
- PI 504391 donor id: D&S 133. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 133. locality: Hwy 20, 7km W of Okanagan, Okanagan County, Washington. Wild. Seed.
- PI 504392 donor id: D&S 141. origin: United States. collected: July 05, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 141. locality: Hwy 82 at Big Canyon Rd junction, 2km W of Wallawa, Wallawa County, Oregon. Wild. Seed.
- PI 504393 donor id: D&S 144. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 144. locality: Between Spray and Kimberly, 16km S of junction of Hwy 19 and Hwy 207, Wheeler County, Oregon. Wild. Seed.
- PI 504394 donor id: D&S 145. origin: United States. collected: August 30, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 145. locality: Hwy 25, Wellpinit junction, Stevens County, Washington. Wild. Seed.
- PI 504395 donor id: D&S 146. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 146. locality: Hwy 20, 30km E of Tonasket, Okanagan County, Washinton. Wild. Seed.
- PI 504396 donor id: D&S 156. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 156. locality: Near Mitchell Creek summit, 30km S of junction of Hwy 19 and Hwy 207. elevation: 1100m. Wild. Seed.

PI 504384 to 504400-continued

- PI 504397 donor id: D&S 158. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 158. locality: Hwy 19, Gwendelyn, S of Arlington, Sherman County, Oregon. Wild. Seed.
- PI 504398 donor id: D&S 171. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 171. locality: Hwy 395, 32km S of Pilot Rock, Umatilla County, Oregon. Wild. Seed.
- PI 504399 donor id: D&S 172. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 172. locality: Hwy 11, junction of McIntire Rd at Isiation, Umatilla County, Oregon. Wild. Seed.
- PI 504400 donor id: D&S 183. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 183. locality: Hwy 244 at McIntire Rd, 30km E of LaGrande, Umatilla County, Oregon. Wild. Seed.

PI 504401. *Lupinus littoralis* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

- PI 504401 donor id: D&S 100. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 100. locality: In saltwater spray, shoreline of Puget Sound, Anacortis, Skaget County, Washington. remarks: Plants shrubby. Flowers yellow. Mature seed pods black. salt tolerance: Salt tolerant. Wild. Seed.

PI 504402 to 504409. *Lupinus polyphyllus* Lindley FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

- PI 504402 donor id: D&S 174. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 174. locality: Between Twisp and Okanagan, 12km on Loup Loup Rd from Hwy 20, Okanagan County, Washington. Wild. Seed.

PI 504402 to 504409-continued

- PI 504403 donor id: D&S 175. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 175. locality: Hwy 20, 29km E of Tonasket, Okanagan County, Washington. Wild. Seed.
- PI 504404 donor id: D&S 176. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 176. locality: Between Twisp and Okanagan, 18km on Loup Loup Rd from Hwy 20, Okanagan County, Washington. Wild. Seed.
- PI 504405 donor id: D&S 177. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 177. locality: Hwy 20, top of Rainy Pass, Skagit County, Washington. elevation: 1480m. Wild. Seed.
- PI 504406 donor id: D&S 178. origin: United States. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 178. locality: Bluebox pass, Mt. Hood National Forest, Hwy 26, Clackamas County, Oregon. elevation: 1150m. Wild. Seed.
- PI 504407 donor id: D&S 179. origin: United States. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 179. locality: Clear Lake Rd., 5km from Hwy 26, Wasco County, Oregon. Wild. Seed.
- PI 504408 donor id: D&S 180. origin: United States. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 180. locality: McKensie pass, 30km from Sisters, Deschutes County, Oregon. elevation: 1525m. Wild. Seed.
- PI 504409 donor id: D&S 181. origin: United States. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 181. locality: Crane Prairie Reservoir, Mt. Batchelor Rd, Deschutes County, Oregon. Wild. Seed.

PI 504410 to 504414. *Lupinus burkei* S. Watson FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504410 to 504414-continued

- PI 504410 donor id: D&S 110. origin: United States. collected: September 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 110. locality: Field Springs State Park, 3km S of Anatone, Asotin County, Washington. remarks: Plants tall. Leaves large, smooth. Seeds dark brown to black. Wild. Seed.
- PI 504411 donor id: D&S 111. origin: United States. collected: July 13, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 111. locality: Hwy 57, 18km N of Priest River, Bonner County, Idaho. remarks: Plants tall. Leaves large, smooth. Seeds dark brown to black. Wild. Seed.
- PI 504412 donor id: D&S 113. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 113. locality: Between Twisp and Okanagan, 10km on Loup Loup Rd from Hwy 20, Okanagan County, Washington. Wild. Seed.
- PI 504413 donor id: D&S 138. origin: United States. collected: September 01, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 138. locality: Interstate Hwy 5, Exit 48, Cowlitz County, Washington. Wild. Seed.
- PI 504414 donor id: D&S 173. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 173. locality: US Forest Service Rd, 2km from Ukiah to Heppner, Morrow County, Oregon. Wild. Seed.

PI 504415. *Lupinus rivularis* Douglas ex Lindley FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

- PI 504415 donor id: D&S 140. origin: United States. collected: August 31, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 140. locality: In water, bank of Deschutes River, Mt. Batchelor Rd, West of Bend, Deschutes County, Oregon. Wild. Seed.

PI 504416 to 504423. *Lupinus sericeus* Pursh FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504416 to 504423-continued

- PI 504416 donor id: D&S 134. origin: United States. collected: June 06, 1983. locality: Sect. 36, T24N, R22E, Douglas County, Washington. elevation: 822m. remarks: Plants growing with bluebunch wheatgrass, Idaho fescue, and 3-tip sagebrush. Wild. Seed.
- PI 504417 donor id: D&S 135. origin: United States. collected: June 16, 1983. locality: Sect. 15, T21, R26, Grant County, Washinton. elevation: 426m. remarks: Plants growing with bluebunch wheatgrass, big sagebrush, sandburg bluegrass and daisy. Wild. Seed.
- PI 504418 donor id: D&S 143. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 143. locality: Isiation, 3km on McIntire Rd, Umatilla County, Oregon. Wild. Seed.
- PI 504419 donor id: D&S 150. origin: United States. collected: June 21, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 150. locality: Old abandoned Vantage to Elensberg Hwy, 16km W of Vantage, Kittattas County, Washington. Wild. Seed.
- PI 504420 donor id: D&S 186. origin: United States. collected: June 06, 1983. locality: Drought site, Sect. 8, Tw24, R25N, Douglas County, Washington. elevation: 624m. remarks: Plants growing with cheatgrass, bluebunch wheatgrass, sandberg bluegrass. drought tolerance: Drought tolerant. Wild. Seed.
- PI 504421 donor id: D&S 187. origin: United States. collected: July 10, 1983. locality: Sect. 32, T31N, R30E, Okanagan County, Washington. elevation: 305m. remarks: Plants growing with bluebunch wheatgrass, dropseed, big sagebrush. Wild. Seed.
- PI 504422 donor id: D&S 188. origin: United States. collected: July 18, 1983. locality: Sect. 20, T22S, R32E, Harney County, Oregon. elevation: 1370m. remarks: Plants growing with big sagebrush, bluebunch wheatgrass, Thurber's needlegrass. Wild. Seed.
- PI 504423 donor id: D&S 189. origin: United States. collected: July 15, 1983. other id: PN-665. source: Plant Materials Center, Pullman, Washington. Wild. Seed.

PI 504424 to 504433. *Lupinus sulphureus* Douglas ex Hook. FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504424 to 504433-continued

- PI 504424 donor id: D&S 152. origin: United States. collected: June 23, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 152. locality: Tramway Rd at Alpowa grade junction on Hwy 12, Garfield County, Washington. Wild. Seed.
- PI 504425 donor id: D&S 153. origin: United States. collected: July 05, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 153. locality: Field Springs State Park, Hwy 129, SE Asotin County, Washington. Wild. Seed.
- PI 504426 donor id: D&S 154. origin: United States. collected: July 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 154. locality: US Forest Service boundary, Hwy 26, W of Mitchell, Crook County, Oregon. elevation: 850m. Wild. Seed.
- PI 504427 donor id: D&S 155. origin: United States. collected: September 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 155. locality: Hwy 129, 5km S of Anatone, Asotin County, Washington. Wild. Seed.
- PI 504428 donor id: D&S 160. origin: United States. collected: May 31, 1983. locality: Sect. 34, T12N, R23E, Yakima, Yakima County, Washington. elevation: 670m. remarks: Plants growing with bluebunch wheatgrass, big sagebrush, silky lupine. Wild. Seed.
- PI 504429 donor id: D&S 162. origin: United States. collected: June 13, 1983. locality: Sect. 36, T8N, R21E, Yakima, Yakima County, Washington. elevation: 426m. remarks: Plants growing with bluebunch wheatgrass, big sagebrush. Wild. Seed.
- PI 504430 donor id: D&S 164. origin: United States. collected: June 27, 1983. locality: Sect. 5, T22, R34, Harrington, Lincoln County, Washington. elevation: 487m. remarks: Plants growing with Idaho fescue, big sagebrush. Wild. Seed.
- PI 504431 donor id: D&S 166. origin: United States. collected: June 06, 1983. locality: Burned area in 1981, Sect. 22, T9, R26E, Prosser, Benton County, Washington. elevation: 467m. remarks: Lupine is major plant growing with bluebunch wheatgrass, sandburg bluegrass, mariposa lily, yarrow. Wild. Seed.

PI 504424 to 504433-continued

PI 504432 donor id: D&S 167. origin: United States. collected: June 07, 1983. locality: Sect. 17, T2S, R27E, Heppner, Morrow County, Oregon. elevation: 782m. remarks: Plants growing with bluebunch wheatgrass, yarrow, cheatgrass. Wild. Seed.

PI 504433 donor id: D&S 168. origin: United States. collected: June 13, 1983. locality: Deadman pass near Hwy I-84, Sect. 2, T1N, R34E, Pendleton, Umatilla County, Oregon. elevation: 1127m. remarks: Plants growing with bluebunch wheatgrass, and Idaho fescue. Wild. Seed.

PI 504434 to 504438. *Lupinus aridus* Douglas FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504434 donor id: D&S 104. origin: United States. local name: Dry ground lupine. collected: July 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 104. locality: Hwy 244, 10km E of Ukiah, Umatilla County, Oregon. remarks: Low growing mat type. Wild. Seed.

PI 504435 donor id: D&S 105. origin: United States. local name: Mat lupine or Dry ground lupine. collected: July 06, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 105. locality: Hwy 26, between Mitchell and Prineville, Crook County, Oregon. remarks: Low growing mat type. Wild. Seed.

PI 504436 donor id: D&S 107. origin: United States. local name: Mat lupine. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 107. locality: Hwy 207, 4km N of Mitchell, Wheeler County, Oregon. Wild. Seed.

PI 504437 donor id: D&S 112. origin: United States. local name: Dry ground lupine. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 112. locality: Hwy 395, Ukiah, Umatilla County, Oregon. remarks: Mound type. Wild. Seed.

PI 504438 donor id: D&S 147. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 147. locality: Hwy 20, 38km E of Bend, Deschutes County, Oregon. Wild. Seed.

PI 504439 to 504440. *Lupinus minimus* Douglas ex Hook. FABACEAE

Donated by Davis, A.M., Regional Plant Introduction Station, USDA-ARS, 59 Johnson Hall, Pullman, Washington, United States. 1983 Expedition for *Lupinus* in US. Received January 1986.

PI 504439 donor id: D&S 106. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 106. locality: U.S. Forest Service Road, 17km from Ukiah to Heppner, Morrow County, Oregon. remarks: Small mat lupine. Wild. Seed.

PI 504440 donor id: D&S 108. origin: United States. collected: July 25, 1983. collector: A.M. Davis and D.M. Stout. collector id: D&S 108. locality: High Desert, 18km N of Burns, Harney County, Oregon. elevation: 1500m. remarks: Low growing tuft lupine. Wild. Seed.

PI 504441. *Agropyron barbicalum* Ohwi POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504441 donor id: D-3512. origin: China, Peoples Repub of. origin institute: Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. collected: June 16, 1984. locality: South of Wutai, Shaanxi Province. received as: *Elymus barbicalum*. Wild. Seed.

PI 504442. *Agropyron cristatum* (L.) Gaertn. POACEAE Fairway crested wheatgrass

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504442 donor id: D-3501. origin: China, Peoples Repub of. origin institute: Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. collected: August 16, 1983. locality: Xining, Qinghai Province. Wild. Seed.

PI 504443. *Bromus japonicus* Thunb. ex Murr. POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504443-continued

PI 504443 donor id: D-3519. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: June 17,
1984. locality: South of Wutai, Shaanxi Province. Wild.
Seed.

PI 504444. *Elymus atratus* (Nevski) Hand.-Mazz. POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504444 donor id: D-3502. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. locality: Menyuan,
Qinghai Province. Wild. Seed.

PI 504445 to 504447. *Elymus breviaristatus* (A. Hitchc.) A. Love
POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504445 donor id: D-3495. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture
and Animal Husbandry, Hohehot, In. Mongolia Aut. R..
Seed.

PI 504446 donor id: D-3503. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: September
10, 1983. locality: Xining, Qinghai Province. Wild.
Seed.

PI 504447 donor id: D-3504. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: 1983.
locality: North of Qinghai Lake, Qinghai Province. Wild.
Seed.

PI 504448. *Elymus dahuricus* Turcz. ex Griseb. POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504448-continued

PI 504448 donor id: D-3507. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: July 22,
1983. locality: Xining, Qinghai Province. Wild. Seed.

PI 504449 to 504451. *Elymus dahuricus* Turcz. ex Griseb. subsp.
dahuricus POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504449 donor id: D-3496. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture
and Animal Husbandry, Hohhot, In. Mongolia Aut. R..
received as: *Elymus cylindricus*. Seed.

PI 504450 donor id: D-3505. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: 1984.
locality: Xining, Qinghai Province. received as: *Elymus*
cylindricus. Wild. Seed.

PI 504451 donor id: D-3506. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: September
07, 1984. locality: Huangyuan, Qinghai Province.
received as: *Elymus cylindricus*. Wild. Seed.

PI 504452 to 504454. *Elymus dahuricus* subsp. *excelsus* (Turcz. ex
Griseb.) Tzvelev POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504452 donor id: D-3497. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture
and Animal Husbandry, Hohhot, In. Mongolia Aut. R..
received as: *Elymus excelsus*. Seed.

PI 504453 donor id: D-3500. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture
and Animal Husbandry, Hohhot, In. Mongolia Aut. R..
received as: *Elymus tangutorum*. Seed.

PI 504452 to 504454-continued

PI 504454 donor id: D-3510. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: August 30,
1983. locality: North of Qinghai Lake, Qinghai Province.
received as: *Elymus tangutorum*. Wild. Seed.

PI 504455 to 504456. *Elymus grandiglumis* (Keng) A. Love POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504455 donor id: D-3513. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: August 20,
1984. locality: Gonghe, Qinghai Province. Wild. Seed.

PI 504456 donor id: D-3514. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. locality: Menyuan,
Qinghai Province. Wild. Seed.

PI 504457. *Elymus kengii* Tzvelev POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504457 donor id: D-3515. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. collected: 1983.
locality: North of Qinghai Lake, Qinghai Province. Wild.
Seed.

PI 504458. *Elymus melantherus* (Keng) A. Love POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research
Laboratory, Utah State University, UMC-63, Logan, Utah, United
States. Received October 25, 1985.

PI 504458 donor id: D-3516. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology,
Academia Sinica, Xining, Qinghai. locality: South of
Qinghai Lake, Qinghai Province. Wild. Seed.

PI 504459. *Elymus nutans* Griseb. POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504459 donor id: D-3498. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture and Animal Husbandry, Hohehot, In. Mongolia Aut. R..
Cultivated. Seed.

PI 504460. *Elymus parviglumis* (Keng) A. Love POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504460 donor id: D-3517. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. collected: August 30, 1984. locality: Menyuan, Qinghai Province. Wild. Seed.

PI 504461. *Elymus purpuraristatus* C. P. Wang & H. L. Yang POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504461 donor id: D-3499. origin: China, Peoples Repub of.
origin institute: Inner Mongolian College, of Agriculture and Animal Husbandry, Hohehot, In. Mongolia Aut. R..
Seed.

PI 504462 to 504463. *Elymus sibiricus* L. POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504462 donor id: D-3508. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. collected: 1983.
locality: Xining, Qinghai Province. Wild. Seed.

PI 504463 donor id: D-3509. origin: China, Peoples Repub of.
origin institute: Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. collected: August 30, 1983. locality: North of Qinghai Lake, Qinghai Province.
Wild. Seed.

PI 504464. *Elymus strictus* (Keng) A. Love POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504464 **donor id:** D-3518. **origin:** China, Peoples Repub of. **origin institute:** Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. **locality:** Huangyuan, Qinghai Province. Wild. Seed.

PI 504465. *Leymus secalinus* (Georgi) Tzvelev POACEAE

Donated by Dewey, D.R., USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah, United States. Received October 25, 1985.

PI 504465 **donor id:** D-3511. **origin:** China, Peoples Repub of. **origin institute:** Northwest Plateau Institute of Biology, Academia Sinica, Xining, Qinghai. **collected:** September 09, 1983. **locality:** Xining, Qinghai Province. Wild. Seed.

PI 504466. *Triticum aestivum* L. POACEAE Common wheat

Donated by Konzak, C.F., Department of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received August 12, 1986.

PI 504466 **origin:** China, Peoples Repub of. **origin institute:** Crop Germplasm Resources Institute, Chinese Academy of Ag. Sciences, Beijing. **cultivar:** Aibian No. 1. **pedigree:** Spontaneous mutation from Aiganzhao. **remarks:** Plant height extremely reduced, 24-30cm tall. Tillering ability strong. Spikes large, fusiform. Maturity mid- season. **disease resistance:** Stripe rust resistant. Cultivar. Seed.

PI 504467. *Trichosanthes cucumerina* var. *anguina* (L.) Haines
CUCURBITACEAE

Donated by Known-You Seed Company, 26, Chung Cheng 2nd Road, Kaohsiung, Taiwan, Rep. of China. Received through S.S.M. Lin, AVRDC, Shanhua, Tainan, Taiwan. Received December 1984.

PI 504467 **origin:** Taiwan. **local name:** Snake gourd. **remarks:** Plants grow best on wall, arbor or trellis in warm, hot weather. **received as:** *Trichosanthes anguina*. Cultivated. Seed.

PI 504468. *Cichorium intybus* L. ASTERACEAE Chicory

Donated by Institut fur Zuchtungsforschung, Quedlinburg, German Democratic Republic. Received April 1986.

PI 504468 origin: German Democratic Repub. local name: Witloof. Cultivated. Seed.

PI 504469. *Bromus* sp. POACEAE

Donated by Reid, R., Elliott Research Station, Department of Agriculture, Private Bag 20, Burnie 7320, Tasmania, Australia. Received May 1986.

PI 504469 donor id: CPI 25746. origin: Australia. remarks: Plants growing in basaltic soil in Tasmania since 1950's. Grazed by sheep. Wild. Seed.

PI 504470. *Desmodium varians* var. *gunnii* (Hook. f.) Benth. FABACEAE

Donated by Reid, R., Elliott Research Station, Department of Agriculture, Private Bag 20, Burnie 7320, Tasmania, Australia. Received May 1986.

PI 504470 origin: Australia. locality: Granite skeletal soil, in light shade of Eucalypt forest, Radio Tower Hill, Bicheno, Tasmania. latitude: 41 deg. 53 min. S. longitude: 148 deg. 18 min. E. elevation: 100m. remarks: Rainfall 575mm. Palatable to stock. Probably the most southerly *Desmodium* collection. Wild. Seed.

PI 504471. *Trifolium pratense* L. FABACEAE

Donated by Reid, R., Elliott Research Station, Department of Agriculture, Private Bag 20, Burnie 7320, Tasmania, Australia. Received May 1986.

PI 504471 donor id: CPI 48825. origin: Portugal. collected: August 06, 1968. collector: C.A. Neal-Smith and F.W. Healy. collector id: 27. locality: Crato, 22km W of Port Alegre. elevation: 220m. remarks: Plants prostrate, growing in Tasmania under sheep grazing for at least twelve years. Wild. Seed.

PI 504472 to 504479. *Oryza sativa* L. POACEAE Rice

Donated by Watanabe, S., National Inst. of Agrobiological Res., 2-1-2 Yatabe, Tsukuba Science City, Ibaraki 305, Japan. Code numbers refer to crop code and accession designations Received August 1986.

PI 504472 to 504479-continued

- PI 504472 **donor id:** 113905-020916. **origin:** Japan. **cultivar:** Akihikari. Cultivar. Seed.
- PI 504473 **donor id:** 113905-020824. **origin:** Japan. **cultivar:** Fukunohana. Cultivar. Seed.
- PI 504474 **donor id:** 113905-020828. **origin:** Japan. **cultivar:** Himenomochi. Cultivar. Seed.
- PI 504475 **donor id:** 113905-020941. **origin:** Japan. **cultivar:** Kairyō shinkō. Cultivar. Seed.
- PI 504476 **donor id:** 113905-020696. **origin:** Japan. **cultivar:** Sakakimochi. Cultivar. Seed.
- PI 504477 **donor id:** 113905-050068. **origin:** Japan. **cultivar:** Suzuhara mochi. Cultivar. Seed.
- PI 504478 **donor id:** 113905-020693. **origin:** Japan. **cultivar:** Tatsumimochi. Cultivar. Seed.
- PI 504479 **donor id:** 113905-020942. **origin:** Japan. **cultivar:** Yamate nishiki. Cultivar. Seed.

PI 504480 to 504510. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by Tay, Chong-Seng, Genetic Resources and Seed Unit, AVRDC, Shanhua, Tainan, Taiwan. Received August 11, 1986.

- PI 504480 **donor id:** AVRDC 5. **origin:** Taiwan. **origin institute:** District Agricultural Improvement Sta., Tainan. **cultivar:** Tainan Tsai Lai Chung. **remarks:** Native type. Seed.
- PI 504481 **donor id:** AVRDC 21. **origin:** Taiwan. **origin institute:** Tropical Horticultural Exper. Station, Fengshan. **cultivar:** Fengshan Lu Tsao Shen. **remarks:** Fengshan Early Green (N). Cultivar. Seed.
- PI 504482 **donor id:** AVRDC 22. **origin:** Taiwan. **locality:** Collected in a farmers field near Ma Pi Tou, southern Taiwan. Seed.
- PI 504483 **donor id:** AVRDC 40. **origin:** Taiwan. **origin institute:** District Agricultural Improvement Sta., Taipei. **cultivar:** Huang-Pau-Tsu. Cultivar. Seed.
- PI 504484 **donor id:** AVRDC 41. **origin:** Taiwan. **origin institute:** District Agricultural Improvement Sta., Taipei. **cultivar:** Hua Yen. Cultivar. Seed.

PI 504480 to 504510-continued

- PI 504485 donor id: AVRDC 42. origin: Japan. origin institute: District Agricultural Improvement Sta., Taipei. cultivar: Ho Ko Tao (Mikawshima). Cultivar. Seed.
- PI 504486 donor id: AVRDC 66. origin: Taiwan. origin institute: District Agricultural Improvement Sta., Kaohsiung. cultivar: KS 469 (N). pedigree: (PI 200492 x Shih Shih). Cultivated. Seed.
- PI 504487 donor id: AVRDC 1996. origin: Taiwan. cultivar: Yao Tou. locality: Pingtung. remarks: A medicinal soybean. Cultivar. Seed.
- PI 504488 donor id: AVRDC 1997. origin: Taiwan. origin institute: Tropical Horticultural Experiment Sta., Fengshan. cultivar: Lu Tsao Shen. Cultivar. Seed.
- PI 504489 donor id: AVRDC 1999. origin: Taiwan. cultivar: Ou-Yuan Tsao Shen. locality: Pingtung. Cultivar. Seed.
- PI 504490 donor id: AVRDC 2000. origin: Taiwan. cultivar: Pai-Niao Chi Tou (White Bird). locality: Pingtung. Cultivar. Seed.
- PI 504491 donor id: AVRDC 2001. origin: Taiwan. cultivar: Shih-Shih (Ten Stone). locality: Pingtung. Cultivar. Seed.
- PI 504492 donor id: AVRDC 2002. origin: Taiwan. cultivar: Tien-Kuan Ou-Yuan (Thunder Lightning). locality: Pingtung. Cultivar. Seed.
- PI 504493 donor id: AVRDC 2004. origin: Taiwan. cultivar: Hua-Yen. locality: Pingtung. Cultivar. Seed.
- PI 504494 donor id: AVRDC 2005. origin: Taiwan. cultivar: Shan Ho Tao (Island of 3 Rivers). locality: Pingtung. Cultivar. Seed.
- PI 504495 donor id: AVRDC 2006. origin: Taiwan. origin institute: District Agricultrual Improvement Sta., Kaohsiung. cultivar: Kaohsiung No. 2 (Chiu Tzu Tao, Acadian). Cultivated. Seed.
- PI 504496 donor id: AVRDC 2007. origin: Taiwan. cultivar: Ta Li Chung (Giant Sleeves). locality: Pingtung. Cultivar. Seed.
- PI 504497 donor id: AVRDC 2009. origin: Taiwan. cultivar: La Po Wu (Green White House). locality: Pingtung. Cultivar. Seed.

PI 504480 to 504510-continued

- PI 504498 donor id: AVRDC 2011. origin: Taiwan. cultivar: Lu Ta Hsiu (Green Big Sleeves). locality: Pingtung. Cultivar. Seed.
- PI 504499 donor id: AVRDC 2012. origin: Taiwan. cultivar: Ta Li Tsao Shen Wu Tou. locality: Pingtung. remarks: Giant Black Early. Cultivar. Seed.
- PI 504500 donor id: AVRDC 2013. origin: Taiwan. origin institute: District Agricultural Improvement Sta., Kaohsiung. cultivar: Kaohsiung 1. pedigree: A pureline selection from Chiu Tzu Tao. locality: Pingtung. Cultivar. Seed.
- PI 504501 donor id: AVRDC 2014. origin: Taiwan. origin institute: District Agricultural Improvement Sta., Kaohsiung. cultivar: Kaohsiung 3. pedigree: (PI 200492 x Shih Shih). Cultivar. Seed.
- PI 504502 donor id: AVRDC 2047. origin: Taiwan. cultivar: Ou-Yuan Tsao Shen. locality: Pingtung. Cultivar. Seed.
- PI 504503 donor id: AVRDC 2261. origin: Taiwan. origin institute: Taiwan Agricultural Research Institute, Shanhua. cultivar: Tainung 15. Cultivated. Seed.
- PI 504504 donor id: AVRDC 2567. origin: Taiwan. cultivar: Sundar No. 1. locality: Collected on sandy soil near Ma Pi Tou, southern Taiwan. Cultivar. Seed.
- PI 504505 donor id: AVRDC 3457. origin: Indonesia (Islands). cultivar: Shaktai. Cultivar. Seed.
- PI 504506 donor id: AVRDC 9947. origin: China, Peoples Repub of. locality: Shop in Hong Kong. Seed.
- PI 504507 donor id: AVRDC 9955. origin: Nepal. cultivar: Sathiya. Cultivar. Seed.
- PI 504508 donor id: AVRDC 10168. origin: Japan. cultivar: Yukimame. locality: Pingtung. Cultivar. Seed.
- PI 504509 donor id: AVRDC 10382. origin: Taiwan. origin institute: District Agricultural Improvement Sta., Kaohsiung. cultivar: Kaohsiung Yu 1034. pedigree: (Ou Yuan Early x KS 473). Cultivar. Seed.
- PI 504510 donor id: AVRDC 10477. origin: Thailand. cultivar: OCB 81. remarks: Collected by Mr. Amnuay Tongdee. May originally be from China. Cultivated. Seed.

PI 504511. *Haloxylon aphyllum* (Minkw.) Iljin CHENOPODIACEAE

Donated by Ministry of Agriculture, Research Inst. of Forest and Rangelands, P.O. Box 13-116, Teheran, Iran. Received through FAO, Rome, Italy. Donor id numbers refer to FAO seed accession numbers. Received August 12, 1986.

PI 504511 donor id: 64.733. origin: Iran. Seed.

PI 504512. *Haloxylon persicum* Bunge ex Boiss. & Buhse CHENOPODIACEAE

Donated by Ministry of Agriculture, Research Inst. of Forest and Rangelands, P.O. Box 13-116, Teheran, Iran. Received through FAO, Rome, Italy. Donor id numbers refer to FAO seed accession numbers. Received August 12, 1986.

PI 504512 donor id: 64.734. origin: Iran. Seed.

PI 504513 to 504516. *Solanum muricatum* Aiton SOLANACEAE Pepino

Donated by Hammett, K.R.W., Division of Horticulture and Processing, Dept. of Scientific and Industrial Res., 120 Mt. Albert Road, Private Bag, Auckland 3, New Zealand. Received July 18, 1986.

PI 504513 origin: New Zealand. cultivar: Asca. remarks: Plants prostrate with wide simple leaves. Growth vigorous. Fruit large, ovate, light yellow with a few irregular green stripes. Soluble solids content low. Flavor bland. Cultivar. Seed.

PI 504514 origin: New Zealand. cultivar: Comeraya. Cultivar. Seed.

PI 504515 origin: Chile. cultivar: El Camino. remarks: Plants erect with simple leaves. Fruit medium size, ovate to cordate, yellow with purple stripes. Soluble solids content high. Aromatic. Cultivar. Seed.

PI 504516 origin: Chile. cultivar: Schmidt. remarks: Plants erect with simple leaves. Fruit medium size, ovate to cordate, yellow with dull purple stripes. Soluble solid content high. Flavor strong. Cultivar. Seed.

PI 504517. *Triticum aestivum* L. POACEAE Common wheat

Donated by Cox, T.W., USDA-ARS, Department of Agronomy, Kansas State University, Manhattan, Kansas, United States. Received July 18, 1986.

PI 504517-continued

PI 504517 **donor id:** KS86WGRC02. **origin:** United States. **pedigree:** TA1675/3*Wichita. **remarks:** Hard red type. Similar to Wichita in height, maturity and phenotype. Susceptible to soilborne mosaic virus, stem rust and Hessian fly. **disease resistance:** Resistant to leaf rust due to *Aegilops squarrosa*, TA1675. Winter Annual. Breeding Material. Seed.

PI 504518. *Amaranthus* sp. AMARANTHACEAE

Donated by Stewart, J.M., USDA-ARS, Department of Plant and Soil Sciences, University of Tennessee, Knoxville, Tennessee, United States. Received August 1985.

PI 504518 **donor id:** CFS-85. **origin:** Australia. **collected:** June 14, 1985. **collector:** L.A. Craven, P.A. Fryxell and J.M. Stewart. **collector id:** CFS-85. **locality:** Beach above high tide, 3km E of Middle Osborne Island, Kimberleys, Western Australia. **remarks:** Plant to 50cm tall with multiple fruiting branches from lower stem. Annual. Wild. Seed.

PI 504519. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by Stewart, J.M., USDA-ARS, Department of Plant and Soil Sciences, University of Tennessee, Knoxville, Tennessee, United States. Received August 1985.

PI 504519 **donor id:** CFS-101. **origin:** Australia. **collected:** June 20, 1985. **collector:** L.A. Craven, P.A. Fryxell and J.M. Stewart. **collector id:** CFS-101. **remarks:** Plant trailing prostrate vine. Fruit about 10-15cm diameter. Flesh light green throughout. Wild. Seed.

PI 504520. *Solanum laciniatum* Aiton SOLANACEAE

Donated by Stewart, J.M., USDA-ARS, Department of Plant and Soil Sciences, University of Tennessee, Knoxville, Tennessee, United States. Received August 1985.

PI 504520 **donor id:** CFS-117. **origin:** Australia. **origin institute:** Australian National Botanical Garden, Canberra, ACT. **collected:** June 30, 1985. **collector:** L.A. Craven, P.A. Fryxell and J.M. Stewart. **collector id:** CFS-117. **remarks:** Perennial shrub to 2m tall, spreading. Fruit yellow, 1 cm diameter, edible. May be cultivated for steriods. Cultivated. Seed.

PI 504521. *Sorghum plumosum* (R. Br.) P. Beauv. POACEAE

Donated by Stewart, J.M., USDA-ARS, Department of Plant and Soil Sciences, University of Tennessee, Knoxville, Tennessee, United States. Received August 1985.

PI 504521 donor id: CFS-7. origin: Australia. collected: May 19, 1985. collector: L.A. Craven, P.A. Fryxell and J.M. Stewart. collector id: CFS-7. locality: Red sandy soil, eucalypt-Terminalia woodland. Along Stuart Hwy, 12km S of Larrimah, Northern Territory. remarks: Plants common, bunching with fruiting culms to 1.5m. Wild. Seed.

PI 504522 to 504527. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by NBPGR, New Delhi, India. Received August 1986.

PI 504522 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Arka jeet. Cultivar. Seed.

PI 504523 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Durgapura Madhu. Cultivar. Seed.

PI 504524 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Hara Madhu. Cultivar. Seed.

PI 504525 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Punjab hybrid. Cultivated. Seed.

PI 504526 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Punjab sunheri. Cultivar. Seed.

PI 504527 origin: India. origin institute: Indian Inst. of Horticultural Research, Hessaraghatta, Bangalore. cultivar: Pusa madhuras. Cultivar. Seed.

PI 504528. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by NBPGR, New Delhi, India. Received August 1986.

PI 504528 origin: India. cultivar: Pusa Sanjog. Cultivar. Seed.

PI 504529 to 504530. *Cynara scolymus* L. ASTERACEAE Artichoke

Donated by Bueno, M.A., Banco de Germoplasma Vegetal, INIA, Alcala de Henares, Spain. Received March 1986.

PI 504529 to 504530-continued

PI 504529 **origin:** Spain. **cultivar:** Talpiot. **local name:** Alcachofa. Cultivar. Seed.

PI 504530 **origin:** Spain. **local name:** Alcachofa. **locality:** Navarra area. Cultivated. Seed.

PI 504531 to 504533. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by Ahn, W.S., Plant Genetics Resources Program, Research Bureau, Rural Development Adm., 250 Seodun Dong, Suweon 170, Republic of Korea. Received August 1986.

PI 504531 **origin:** Korea, Republic of. **cultivar:** Gam. **remarks:** Maturity medium. Fruit short to oblong, light pink. Brix value 6-8. **received as:** *Cucumis melo* var. makawa. Cultivar. Seed.

PI 504532 **origin:** Korea, Republic of. **cultivar:** Meok. **remarks:** Maturity medium. Fruit short to oblong, light pink. Brix value 6-8. **received as:** *Cucumis melo* var. makawa. Cultivar. Seed.

PI 504533 **origin:** Korea, Republic of. **cultivar:** Yeolgol. **remarks:** Maturity medium. Fruit short to oblong, light pink. Brix value 6-8. **received as:** *Cucumis melo* var. makawa. Cultivar. Seed.

PI 504534. *Astragalus robbinsii* var. *jesupii* Eggl. & Sheldon FABACEAE

Donated by Brumback, W.E., Garden in the Woods, Hemenway Road, Framingham, Massachusetts, United States. Received August 1986.

PI 504534 **donor id:** 86p-522. **origin:** United States. **collected:** July 09, 1986. **collector:** W.E. Brumback. **collector id:** 86p-522. **locality:** Plants growing on west facing slope in alluvial soil, on Connecticut River, 0.8km to 1.6km below Wilgus State Park, Sullivan County, New Hampshire. **elevation:** 102m. **remarks:** Plants growing with *Chrysanthemum leucanthemum*, *Senecio pauperculus*, *Hypericum perforatum*, *Rhus toxicodendron*, *Solidago canadensis*, *Campanula rotundifolia* and *Erigeron*. Wild. Seed.

PI 504535. *Oxytropis campestris* var. *johannensis* Fern. FABACEAE

Donated by Brumback, W.E., Garden in the Woods, Hemenway Road, Framingham, Massachusetts, United States. Received August 1986.

PI 504535-continued

PI 504535 donor id: 86p-538. origin: United States. collected: August 06, 1986. collector: W.E. Brumback. collector id: 86p-538. locality: Plants growing in river washed sand and rocky outcrop on St. John River, behind house #390 on road to Allagash from Ft. Kent, Aroostook County, Maine. remarks: Plants growing with *Potentilla tridentata*, *Campanula rotundifolia*, *Senecio pauperculus* and *Solidago*. Wild. Seed.

PI 504536. *Polemonium vanbruntiae* Britton POLEMONIACEAE

Donated by Brumback, W.E., Garden in the Woods, Hemenway Road, Framingham, Massachusetts, United States. Received August 1986.

PI 504536 donor id: 86p-548. origin: United States. collected: August 03, 1986. collector: W.E. Brumback. collector id: 86p-548. locality: Plants growing in heavy swamp in open forest, 3.2km E from Lincoln Rd out of Warren, to Lincoln Gap, right on Gary Rd, 1.8km, Vermont. remarks: Plants growing with *Clematis virginiana*, *Carex crinita*, *Spirea latifolia*, *Caltha palustris*, *Aster puniceus*. Wild. Seed.

PI 504537. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504537 donor id: M-15441. origin: Greece. collector id: 87/84. locality: Plants growing in mountainous area in yellow sand and rocks with excessive drainage, 12km from Florina towards Prespa, Florina. elevation: 1100m. remarks: Plants growing with *Phleum*, *Poa*, *Brachypodium* and *Festuca*. Wild. Seed.

PI 504538. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504538 donor id: M-15466. origin: Greece. collected: August 21, 1984. collector id: 112/84. locality: Plants growing in flood plain in brown clay with poor drainage, 0.5km from Komotini towards Agricultural Research Station, Komotini. elevation: 40m. remarks: Plants growing with *Lolium*, *Brachypodium* and *Trifolium*. Wild. Seed.

PI 504539. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504539 donor id: M-15475. origin: Greece. collected: July 19, 1984. collector id: 121/84. locality: Plants growing in level ground in red loam with moderate drainage, 0.5km from Protochozi towards Kozani. elevation: 680m. remarks: Plants growing with *Festuca arundinacea*, *Brachypodium*, *Phleum* and *Trifolium*. Wild. Seed.

PI 504540. *Medicago arborea* L. FABACEAE

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504540 donor id: M-15132. origin: Greece. collected: August 7, 1983. collector id: 138/83. locality: Plants growing in mountainous area in red sand with rocks with excessive drainage, 1.5km from Kini towards Ermupolis, Syros. elevation: 150m. remarks: Plants growing with *Dactylis glomerata*, *Trifolium* and *Medicago*. Wild. Seed.

PI 504541. *Medicago orbicularis* (L.) Bartal. FABACEAE

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504541 donor id: M-15186. origin: Greece. collected: July 8, 1983. collector id: 141/83. locality: Plants growing on a slope in gray sand with low stones with good drainage, 2km from Agriovotano towards Petki, Evia. elevation: 350m. remarks: Plants growing with *Dactylis glomerata*, *Medicago*, *Poterium* and brushes in Pine trees. Wild. Seed.

PI 504542. *Melilotus alba* Medikus FABACEAE White sweetclover

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504542 donor id: M-15123. origin: Greece. collected: August 27, 1982. collector id: 100/82. locality: Plants growing in mountainous area in white to gray loam with good drainage, 5km from Konitsa towards Iliorachi, Zoannina. elevation: 600m. remarks: Plants growing with *Festuca arundinacea*, *Dactylis glomerata*, *Avena*, and *Trifolium*. Wild. Seed.

PI 504543. *Oryzopsis miliacea* (L.) Benth. & Hook. POACEAE

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504543 donor id: M-15581. origin: Greece. collected: August 19, 1985. collector id: i/85. locality: Plants growing in mountainous area in red sand with good drainage, 1 km from Kataraktis towards Kalavrita, Achaia. remarks: Plants growing with *Lolium*, *Brachypodium*, *Trifolium* and *Medicago*. Wild. Seed.

PI 504544. *Phalaris aquatica* L. POACEAE

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504544 donor id: M-15580. origin: Greece. collected: August 18, 1985. collector id: i/85. locality: Plants growing in hilly area in yellow sand and stones, with good drainage, 0.5km from Kastro towards Amaliada, Ilia. elevation: 100m. remarks: Plants growing with *Dactylis glomerata*, *Avena*, and *Trifolium*. received as: *Phalaris tuberosa*. Wild. Seed.

PI 504545. *Trifolium alexandrinum* L. FABACEAE Berseem clover

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504545 donor id: M-15545. origin: Greece. collected: June 14, 1984. collector id: 022/84. locality: Plants growing in brown loam on flood plain, 4km from Larissa towards Farsala. elevation: 75m. remarks: Plants growing with *medics*, *Bromus*, *Avena*, *Lolium*, *Cichorium*, and *Carlina*. Wild. Seed.

PI 504546. *Trifolium pratense* L. FABACEAE White clover

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504546 donor id: M-15508. origin: Greece. collected: September 22, 1982. locality: Plants growing in mountainous area in loam with good drainage, 8km from Sparmos towards Vrisopoules. elevation: 1000m. Cultivated. Seed.

PI 504547. *Trifolium repens* L. FABACEAE White clover

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504547 donor id: M-15543. origin: Greece. collected: July 18, 1984. collector id: 005/84. locality: Plants growing in mountainous area on medium stony yellowish loam near a spring with moderate drainage, 4km from Trigoniko toward Mikrovalto, Kozani. elevation: 550m. remarks: Plants growing with *Dactylis glomerata*, *Trifolium*, and *Phleum*. Wild. Seed.

PI 504548. *Trifolium resupinatum* L. FABACEAE Persian clover

Donated by Fodder Crops & Pastures Institute, 411 10 Larissa, Greece. Received October 1985.

PI 504548 donor id: M-15548. origin: Greece. collected: June 14, 1984. collector id: 054/84. locality: Plants growing on a flood plain in brown clay with moderate drainage, 4km from Larissa towards Farsala. elevation: 70m. remarks: Plants growing with medics, *Bromus*, *Avena*, *Lolium*, *Cichorium* and *Carlina*. Wild. Seed.

PI 504549. *Triticum aestivum* L. POACEAE Common wheat

Donated by Konzak, C.F., Department of Agronomy & Soils, Washington State University, Pullman, Washington, United States. Received through J. Petersen, University of Nebraska, Lincoln, Nebraska. Received August 20, 1986.

PI 504549 origin: Soviet Union. origin institute: Krasnodar Lukyanenko Res. Inst. of Ag., Krasnodar. cultivar: Karlik 1. pedigree: Dwarf mutant from Bezostaya 1, induced by using Nitroso Methyl Urea. remarks: Contains recessive semi-dwarfing gene RHT-11. Cultivar. Seed.

PI 504550. *Cicer yamashitae* Kitam. FABACEAE

Donated by Pundir, R.P.S., ICRISAT, Patancheru, India. Received September 22, 1986.

PI 504550 donor id: JM2022. origin: Afghanistan. Seed.

PI 504551. *Cucumis africanus* L. F. CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504551 origin: Netherlands. Seed.

- PI 504552. *Cucumis anguria* L. CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504552 origin: Ethiopia. Seed.
- PI 504553. *Cucumis dipsaceus* Ehrenb. ex Spach CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504553 origin: Kenya. Seed.
- PI 504554. *Cucumis ficifolius* A. Rich. CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504554 origin: Africa. Seed.
- PI 504555. *Cucumis figarei* Del. ex Naudin CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504555 origin: United Kingdom. Seed.
- PI 504556. *Cucumis metuliferus* E. Mey. ex Naud. CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504556 origin: Netherlands. Seed.
- PI 504557. *Cucumis myriocarpus* Naud. CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504557 origin: South Africa. Seed.
- PI 504558. *Cucumis sacleuxii* Pallieux & A. Bois CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504558 origin: India. Seed.
- PI 504559. *Cucumis sativus* var. *anatolicus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504559 donor id: VIR 2142. origin: Soviet Union. Seed.

- PI 504560. *Cucumis sativus* var. *anglicus* L. Bailey CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504560 donor id: VIR 3013. origin: Soviet Union. Seed.
- PI 504561. *Cucumis sativus* var. *cilicicus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504561 donor id: VIR 1047. origin: Soviet Union. Seed.
- PI 504562. *Cucumis sativus* var. *europaeus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504562 donor id: VIR 714. origin: Soviet Union. Seed.
- PI 504563. *Cucumis sativus* var. *falcatus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504563 donor id: VIR 3026. origin: Japan. Seed.
- PI 504564. *Cucumis sativus* var. *hardwickii* (Royle) Gaboaev
CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504564 donor id: VIR 3147. origin: India. Seed.
- PI 504565. *Cucumis sativus* var. *indo-europaeus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504565 donor id: VIR 2220. origin: Soviet Union. Seed.
- PI 504566. *Cucumis sativus* var. *irano-turanicus* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.
PI 504566 donor id: VIR 1612. origin: Soviet Union. Seed.
- PI 504567. *Cucumis sativus* var. *izmir* Gaboaev CUCURBITACEAE
Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504567-continued

PI 504567 donor id: VIR 2221. origin: Soviet Union. Seed.

PI 504568. *Cucumis sativus* var. *sikkimensis* Hook. f. CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504568 donor id: VIR 2393. origin: India. Seed.

PI 504569 to 504570. *Cucumis sativus* var. *squamosus* Gaboaev
CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504569 donor id: VIR 1418. origin: India. Seed.

PI 504570 donor id: VIR 1423. origin: India. Seed.

PI 504571. *Cucumis sativus* var. *testudaceus* Gaboaev CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504571 donor id: VIR 2787. origin: United States. Seed.

PI 504572. *Cucumis sativus* var. *tuberculatus* Gaboaev CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504572 donor id: VIR 2706. origin: China, Peoples Repub of.
Seed.

PI 504573. *Cucumis sativus* var. *vulgatus* Gaboaev CUCURBITACEAE

Donated by VIR, Leningrad, Soviet Union. Received August 26, 1986.

PI 504573 donor id: VIR 1998. origin: India. Seed.

PI 504574 to 504575. *Avena nuda* L. POACEAE Naked oat

Donated by Marshall, H.G., USDA-ARS, Department of Agronomy,
Pennsylvania State University, University Park, Pennsylvania, United
States. Received October 06, 1986.

PI 504574 donor id: PA 8098-9033. origin: United States.
pedigree: James/CI 8447//Bates. remarks: Hull-less.
Plants moderately short, 10cm shorter than Ogle. Spring
Annual. Cultivated. Seed.

PI 504574 to 504575-continued

PI 504575 **donor id:** PA 8098-9072. **origin:** United States.
pedigree: James/CI 8447//Bates. **remarks:** Hull-less.
Plants medium short. Maturity same as Ogle. Spring
Annual. Cultivated. Seed.

PI 504576 to 504613. *Avena sativa* L. POACEAE Common oat

Donated by Marshall, H.G., USDA-ARS, Department of Agronomy,
Pennsylvania State University, University Park, Pennsylvania, United
States. Received October 06, 1986.

PI 504576 **donor id:** PA 7527-1079. **origin:** United States.
pedigree: New York Composite selection. **remarks:** Height
same as Ogle. Spring Annual. Cultivated. Seed.

PI 504577 **donor id:** PA 7836-61. **origin:** United States. **pedigree:**
PA Composite 24 selection. **remarks:** Plants very short,
about 7cm taller than Pennlo. Maturity similar to Ogle.
Stiff straw, large flag leaf, OT207 type, panicle emerges
completely from flag leaf sheath. Spring Annual.
Cultivated. Seed.

PI 504578 **donor id:** PA 7836-416. **origin:** United States. **pedigree:**
PA Composite 24 selection. **remarks:** Plants short.
Spring Annual. Cultivated. Seed.

PI 504579 **donor id:** PA 7836-2701. **origin:** United States.
pedigree: CI 8310/CI 8447//PI 354977 NP-3-4. **remarks:**
Plants 5cm shorter than Ogle. Maturity medium early. High
yield, same as Ogle in 1982 at three locations and Noble
at two locations in 1981, test weight same as Ogle. Groat
percentage 75. Spring Annual. Cultivated. Seed.

PI 504580 **donor id:** PA 7836-9687. **origin:** United States.
pedigree: Otee/Noble. **remarks:** Plants medium tall,
slightly taller than Ogle. Maturity slightly earlier than
Ogle. Low test weight, excellent kernel, approx. Noble
yield. Spring Annual. Cultivated. Seed.

PI 504581 **donor id:** PA 7836-9910. **origin:** United States.
pedigree: ED 26/Otee. **remarks:** Plants short. Maturity
medium late. Good test weight. Excellent semidwarf.
Spring Annual. Cultivated. Seed.

PI 504582 **donor id:** PA 7836-9938. **origin:** United States.
pedigree: ED 26/Otee. **remarks:** Plants short, 16cm
shorter than Ogle. Maturity late. Large flag leaf.
Spring Annual. Cultivated. Seed.

PI 504576 to 504613-continued

- PI 504583 donor id: PA 7967-3145. origin: United States.
pedigree: ED 26/Otee. remarks: Plants medium short.
Maturity very early. Spring Annual. Cultivated. Seed.
- PI 504584 donor id: PA 7967-10861. origin: United States.
pedigree: Otee/Noble. remarks: Plants medium tall,
slightly taller than Ogle. Spring Annual. Cultivated.
Seed.
- PI 504585 donor id: PA 7967-11193. origin: United States.
pedigree: Noble/OT 207. remarks: Plants semidwarf, very
short, 30cm shorter than Ogle. Maturity several days
later than Ogle. Spring Annual. Cultivated. Seed.
- PI 504586 donor id: PA 7967-11644. origin: United States.
pedigree: ED 26/Otee. remarks: Plants medium short.
Maturity moderately early. Good test weight. Spring
Annual. Cultivated. Seed.
- PI 504587 donor id: PA 7967-11690. origin: United States.
pedigree: ED 26/Otee. remarks: Plants 4-10cm shorter
than Ogle. Maturity slightly earlier than Ogle. High
yield (greater than Ogle in 1982), good lodging
resistance, good test weight. Spring Annual.
Cultivated. Seed.
- PI 504588 donor id: PA 7967-11759. origin: United States.
pedigree: ED 26/Otee. remarks: Plants medium short,
approx. 12cm shorter than Ogle. Maturity slightly earlier
than Ogle. Excellent kernels. Spring Annual.
Cultivated. Seed.
- PI 504589 donor id: PA 8098-13136. origin: United States.
pedigree: ED 26/Otee. remarks: Plants approx. 5cm
shorter than Ogle. Maturity several days earlier than
Ogle. Good test weight, stiff straw. Spring Annual.
Cultivated. Seed.
- PI 504590 donor id: PA 8098-13601. origin: United States.
pedigree: ED 26/ Noble. remarks: Plants approx. Ogle
height or slightly shorter. Maturity later than Ogle.
Very stiff, large stem diameter, large panicles, poor
test weight. Spring Annual. Cultivated. Seed.
- PI 504591 donor id: PA 8098-13608. origin: United States.
pedigree: ED 26/Noble. remarks: Plants short, 13-20cm
shorter than Ogle. Maturity slightly earlier than Ogle.
Very stiff, blue-green plant color. Spring Annual.
Cultivated. Seed.

PI 504576 to 504613-continued

- PI 504592 **donor id:** PA 8098-13848. **origin:** United States.
pedigree: Dal.Noble. **remarks:** Plants Ogle height.
Maturity slightly earlier than Ogle. Good test weight,
good yield. **disease resistance:** Some Helminthosporium
tolerance. Spring Annual. Cultivated. Seed.
- PI 504593 **donor id:** PA 8196-1556. **origin:** United States.
pedigree: ED 26/Noble//Larry. **remarks:** Plants approx.
15cm shorter than Ogle. Maturity several days earlier
than Ogle. Good test weight, nice kernel. Spring Annual.
Cultivated. Seed.
- PI 504594 **donor id:** PA 8196-8900. **origin:** United States.
pedigree: Otee/Noble//NY OCI-23. **remarks:** Plants approx.
17cm shorter than Ogle. Maturity very early. Sparse
panicle, large kernel, good test weight. Spring Annual.
Cultivated. Seed.
- PI 504595 **donor id:** PA 8196-11445. **origin:** United States.
pedigree: ED 26/Jaycee. **remarks:** Plants taller than
Ogle. Maturity moderately late. Excellent test weight.
Spring Annual. Cultivated. Seed.
- PI 504596 **donor id:** PA 8290-330. **origin:** United States. **pedigree:**
ED 26/Dal. **remarks:** Plants 15cm shorter than Ogle.
Maturity same as Ogle. Stiff straw, poor kernel, nice
plant type, clean leaves. Spring Annual. Cultivated.
Seed.
- PI 504597 **donor id:** PA 8290-1785. **origin:** United States.
pedigree: ED 26/Jaycee. **remarks:** Plants approx. 15cm
shorter than Ogle. Maturity early. Good kernel. Spring
Annual. Cultivated. Seed.
- PI 504598 **donor id:** PA 8290-3956. **origin:** United States.
pedigree: Otee/Noble//NY OCI-23. **remarks:** Maturity
early, slightly earlier than Ogle. High test weight,
excellent kernel. Spring Annual. Cultivated. Seed.
- PI 504599 **donor id:** PA 8290-4589. **origin:** United States.
pedigree: ED 26/Noble//Larry. **remarks:** Plants semidwarf,
20-25cm shorter than Ogle. Maturity early. Very stiff
straw, lodging resistant. Spring Annual. Cultivated.
Seed.
- PI 504600 **donor id:** PA 8290-5181. **origin:** United States.
pedigree: CI 7762/CI 8447//Mapua 70/Noble. **remarks:**
Plants semidwarf, 20cm shorter than Ogle. Maturity early.
Good kernel. Spring Annual. Cultivated. Seed.

PI 504576 to 504613-continued

- PI 504601 **donor id:** PA 8290-5869. **origin:** United States.
pedigree: Honami/Otee//Noble. **remarks:** Maturity early.
Excellent kernel, blue-green plant color, good test
weight. Spring Annual. Cultivated. Seed.
- PI 504602 **donor id:** PA 8290-8097. **origin:** United States.
pedigree: New York Composite Seln./Larry. **remarks:**
Plants 10-14cm shorter than Ogle. Maturity medium early.
Good test weight. Spring Annual. Cultivated. Seed.
- PI 504603 **donor id:** PA 8290-8903. **origin:** United States.
pedigree: New York Composite Seln./Noble. **remarks:**
Plants approx. 10cm shorter than Ogle. Maturity slightly
earlier than Ogle. Good test weight. Spring Annual.
Cultivated. Seed.
- PI 504604 **donor id:** PA 8290-9277. **origin:** United States.
pedigree: ED 26/Noble//Ogle. **remarks:** Plants medium
short. Maturity several days earlier than Ogle. Very
stiff straw. Spring Annual. Cultivated. Seed.
- PI 504605 **donor id:** PA 8290-9278. **origin:** United States.
pedigree: ED 26/Noble//Ogle. **remarks:** Plants short.
Maturity slightly earlier than Ogle. Spring Annual.
Cultivated. Seed.
- PI 504606 **donor id:** PA 8290-9776. **origin:** United States.
pedigree: Mapua 70*2/Noble. **remarks:** Plants 9cm shorter
than Ogle. Maturity medium early. Excellent kernel and
test weight. Spring Annual. Cultivated. Seed.
- PI 504607 **donor id:** PA 8290-10957. **origin:** United States.
pedigree: ED 26/Otee. **remarks:** Plants semidwarf.
Maturity later than Pennlo, similar to Noble. Lodging
resistant. Spring Annual. Cultivated. Seed.
- PI 504608 **donor id:** PA 8393-1250. **origin:** United States.
pedigree: Mapua 70/Noble//Harmon. **remarks:** Plants very
short, approx. 20cm shorter than Ogle. Maturity medium
early. Very stiff straw, nice kernel, good test weight,
quite susceptible to Helminthosporium. Spring Annual.
Cultivated. Seed.
- PI 504609 **donor id:** PA 8393-7360. **origin:** United States.
pedigree: Larry/Orbit. **remarks:** Plants short, approx.
12cm shorter than Ogle. Maturity medium early. Excellent,
short stiff type. Clean leaves. Spring Annual.
Cultivated. Seed.

PI 504576 to 504613-continued

PI 504610 donor id: PA 8393-16818. origin: United States.
pedigree: Pennlo//Dal/Noble. remarks: Plants approx.
20cm shorter than Ogle. Maturity early. Spring Annual.
Cultivated. Seed.

PI 504611 donor id: PA 8393-17648. origin: United States.
pedigree: Pennline 6571/Pennlo. remarks: Plants short,
approx. 22cm shorter than Ogle. Maturity slightly earlier
than Ogle. Good test weight. Spring Annual. Cultivated.
Seed.

PI 504612 donor id: PA 621-5798. origin: United States. remarks:
High vernalization requirement. Winter Annual.
Cultivated. Seed.

PI 504613 donor id: PA 7409-125. origin: United States. pedigree:
PA Composite 12 Selection. remarks: Plants short,
approx. 13cm shorter than Pennwin. Maturity early,
slightly earlier than Pennwin. Open panicle, good test
weight. Winter Annual. Cultivated. Seed.

PI 504614. *Arachis hypogaea* L. FABACEAE Peanut

Donated by Holbrook, C.C., USDA-ARS, Nematodes, Weeds & Crops
Research Unit, P.O. Box 748, Tifton, Georgia, United States.
Received October 09, 1986.

PI 504614 origin: Colombia. origin institute: ICA, Palmira Valley.
cultivar: Tatui-76. remarks: Spanish type. Maturity
early. Possibly a mixture. Cultivar. Seed.

PI 504615. *Erianthus* sp. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS,
Beltsville, Maryland, United States. Received July 1986.

PI 504615 donor id: 9605. origin: China, Peoples Repub of. origin
institute: Sugarcane Research Institute, Fujian
Agricultural College, Fuzhou. origin institute id:
Chi-wei No. 7. locality: Nan-an, Fujian Province.
remarks: Plant 261cm tall. Culm diameter 1.35cm. Brix
4.5. Flowers in September. Wild. Plant.

PI 504616 to 504617. *Saccharum barberi* Jesw. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS,
Beltsville, Maryland, United States. Received July 1986.

PI 504616 donor id: 9583A. origin: Iran. other id: GD383. Plant.

PI 504616 to 504617-continued

PI 504617 donor id: 9583B. origin: Iran. other id: GD386. Plant.

PI 504618 to 504674. Saccharum hybrid POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS,
Beltsville, Maryland, United States. Received July 1986.

PI 504618 donor id: 9443. origin: Guyana. cultivar: Demerara.
remarks: Source institute - IRAT, Montpellier, France.
Cultivated. Plant.

PI 504619 donor id: 9453. origin: UNKNOWN. cultivar: Vatu.
remarks: Source institute - IRAT, Montpellier, France.
Cultivated. Plant.

PI 504620 donor id: 9454. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B37-161. Cultivated. Plant.

PI 504621 donor id: 9455. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B37-172. Cultivated. Plant.

PI 504622 donor id: 9456. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B 41-227. Cultivated. Plant.

PI 504623 donor id: 9457. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B42-231. Cultivated. Plant.

PI 504624 donor id: 9458. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B46-364. Cultivated. Plant.

PI 504625 donor id: 9459. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B49-119. Cultivated. Plant.

PI 504626 donor id: 9461. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B54-142. Cultivated. Plant.

PI 504627 donor id: 9462. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B60-267. Cultivated. Plant.

PI 504628 donor id: 9464. origin: Barbados. origin institute:
W.Indies Central Sugarcane Breeding Sta., Groves, St.
George. cultivar: B63-118. Cultivated. Plant.

PI 504618 to 504674-continued

- PI 504629 donor id: 9465. origin: Guyana. cultivar: DB 555.
Cultivated. Plant.
- PI 504630 donor id: 9466. origin: Philippines. origin institute:
Philippine Sugar Commission, Quezon City. cultivar: Phil
62120. Cultivated. Plant.
- PI 504631 donor id: 9467. origin: Philippines. origin institute:
Philippine Sugar Commission, Quezon City. cultivar: Phil
6607. Cultivated. Plant.
- PI 504632 donor id: 9492. origin: Reunion. cultivar: R 570.
Cultivated. Plant.
- PI 504633 donor id: 9511. origin: Taiwan. origin institute:
Taiwan Sugar Research Institute, Tainan. cultivar: F
108. Cultivated. Plant.
- PI 504634 donor id: 9512. origin: Taiwan. origin institute:
Taiwan Sugar Research Institute, Tainan. cultivar: F
134. Cultivated. Plant.
- PI 504635 donor id: 9513. origin: Taiwan. origin institute:
Taiwan Sugar Research Institute, Tainan. cultivar: F
148. Cultivated. Plant.
- PI 504636 donor id: 9514. origin: Taiwan. origin institute:
Taiwan Sugar Research Institute, Tainan. cultivar: F
152. Cultivated. Plant.
- PI 504637 donor id: 9515. origin: Taiwan. origin institute:
Taiwan Sugar Research Institute, Tainan. cultivar: F
160. Cultivated. Plant.
- PI 504638 donor id: 9518. origin: UNKNOWN. cultivar: Galoa.
remarks: Source institute - IRAT, Montpellier, France.
Cultivated. Plant.
- PI 504639 donor id: 9519. origin: UNKNOWN. cultivar: Kaba.
remarks: Source institute - IRAT, Montpellier, France.
Cultivated. Plant.
- PI 504640 donor id: 9520. origin: United States. origin
institute: Hawaiian Sugar Planters Association, Aiea,
Hawaii. cultivar: H 50-7209. Cultivated. Plant.
- PI 504641 donor id: 9522. origin: Mauritius. origin institute:
Mauritius Sugar Research Institute, Reduit. cultivar: M
13/56. Cultivated. Plant.

PI 504618 to 504674-continued

- PI 504642 donor id: 9523. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 31/45. Cultivated. Plant.
- PI 504643 donor id: 9524. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 63/39. Cultivated. Plant.
- PI 504644 donor id: 9525. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 93/48. Cultivated. Plant.
- PI 504645 donor id: 9526. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 134/32. Cultivated. Plant.
- PI 504646 donor id: 9527. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 555/60. Cultivated. Plant.
- PI 504647 donor id: 9528. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 574/62. Cultivated. Plant.
- PI 504648 donor id: 9529. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 657/66. Cultivated. Plant.
- PI 504649 donor id: 9530. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 2173/63. Cultivated. Plant.
- PI 504650 donor id: 9531. origin: Mauritius. origin institute: Mauritius Sugar Research Institute, Reduit. cultivar: M 3035/66. Cultivated. Plant.
- PI 504651 donor id: 9532. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 421. Cultivated. Plant.
- PI 504652 donor id: 9533. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 6806. Cultivated. Plant.
- PI 504653 donor id: 9541. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 997. Cultivated. Plant.
- PI 504654 donor id: 9543. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 6415. Cultivated. Plant.

PI 504618 to 504674-continued

- PI 504655 donor id: 9548. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 213. Cultivated. Plant.
- PI 504656 donor id: 9551. origin: India. origin institute: Sugar Breeding Institute, Coimbatore. cultivar: Co 419. Cultivated. Plant.
- PI 504657 donor id: 9565. origin: Australia. origin institute: CSR Limited, Macknade, Queensland. cultivar: Eros. Cultivated. Plant.
- PI 504658 donor id: 9566. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: HQ 409. Cultivated. Plant.
- PI 504659 donor id: 9568. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 57. Cultivated. Plant.
- PI 504660 donor id: 9569. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 63. Cultivated. Plant.
- PI 504661 donor id: 9570. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 68. Cultivated. Plant.
- PI 504662 donor id: 9571. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 77. Cultivated. Plant.
- PI 504663 donor id: 9572. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 78. Cultivated. Plant.
- PI 504664 donor id: 9573. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 80. Cultivated. Plant.
- PI 504665 donor id: 9574. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 87. Cultivated. Plant.
- PI 504666 donor id: 9575. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Q 90. Cultivated. Plant.
- PI 504667 donor id: 9576. origin: Australia. origin institute: CSR Limited, Machnade, Queensland. cultivar: Ragnar. Cultivated. Plant.

PI 504618 to 504674-continued

- PI 504668 donor id: 9577. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Triton. Cultivated. Plant.
- PI 504669 donor id: 9578. origin: Australia. origin institute: Bureau Sugar Experiment Station, Queensland. cultivar: Trojan. Cultivated. Plant.
- PI 504670 donor id: 9579. origin: South Africa. origin institute: South African Sugar Assoc. Exp. Station, Mt. Edgecombe, Natal. cultivar: N52/219. Cultivated. Plant.
- PI 504671 donor id: 9580. origin: South Africa. origin institute: South African Sugar Assoc. Exp. Station, Mt. Edgecombe, Natal. cultivar: N55/805. Cultivated. Plant.
- PI 504672 donor id: 9581. origin: South Africa. origin institute: South African Sugar Assoc. Exp. Station, Mt. Edgecombe, Natal. cultivar: NCo 310. Cultivated. Plant.
- PI 504673 donor id: 9582. origin: South Africa. origin institute: South African Sugar Assoc. Exp. Station, Mt. Edgecombe, Natal. cultivar: NCo 376. Cultivated. Plant.
- PI 504674 donor id: 9592. origin: United States. origin institute: Sugar Planters Association, Aiea, Hawaii. cultivar: H 37-1933. Cultivated. Plant.

PI 504675. *Saccharum sinense* Roxb. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received July 1986.

- PI 504675 donor id: 9607. origin: China, Peoples Repub of. origin institute: Sugarcane Research Institute, Fujian Agricultural College, Fuzhou. origin institute id: Chu-zhe (Centenary cane). locality: Sung-chi, Fujian Province. remarks: Plant 256cm tall. Culm diameter 2.15cm. Brix 17.5. Wild. Plant.

PI 504676 to 504678. *Saccharum spontaneum* L. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received July 1986.

PI 504676 to 504678-continued

PI 504676 donor id: 9603. origin: China, Peoples Repub of. origin institute: Sugarcane Research Institute, Fujian Agricultural College, Fuzhou. origin institute id: Guo No.3. locality: Nan-an, Fujian Province. remarks: Plant 116cm tall. Culm diameter 0.74cm. Brix 6.7. Flowers in September. Wild. Plant.

PI 504677 donor id: 9604. origin: China, Peoples Repub of. origin institute: Sugarcane Research Institute, Fujian Agricultural College, Fuzhou. origin institute id: Guo No. 1. locality: Xian-you, Fujian Province. remarks: Plant 219.2cm tall. Culm diameter 1.02cm. Brix 7.5. Flowers in September. Wild. Plant.

PI 504678 donor id: 9606. origin: China, Peoples Repub of. origin institute: Sugarcane Research Institute, Fujian Agricultural College, Fuzhou. origin institute id: Guo No. 2. locality: Nan-an, Fujian Province. remarks: Plant 106.8cm tall. Culm diameter 0.82cm. Brix 7.0. Flowers in October. Wild. Plant.

PI 504679. *Erianthus* sp. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the IBPGR sponsored Philippine Collecting Expedition - 1984. Received July 1986.

PI 504679 donor id: 9715. origin: Philippines. collector id: 302. other id: P-AgS-84-6. locality: Agusan del Sur Province. elevation: 110m. remarks: Yellow spot disease noted. Wild. Plant.

PI 504680 to 504695. *Saccharum officinarum* L. POACEAE Sugarcane

Donated by Microbiology and Plant Pathology Lab, USDA-ARS, Beltsville, Maryland, United States. Received through the IBPGR sponsored Philippine Collecting Expedition - 1984. Received July 1986.

PI 504680 donor id: 9615. origin: Philippines. collector id: 7. other id: P-Sor-84-7. locality: Sorsogon Province. remarks: Culms thick, yellow green, juicy, with long internodes. Chewing type. No disease noted. Wild. Plant.

PI 504681 donor id: 9618. origin: Philippines. collector id: 15. other id: PAL-84-2. locality: Albay Province. remarks: Culms yellow, waxy with corky patches, moderate trichomes. Red rot and red spot noted. Wild. Plant.

PI 504680 to 504695-continued

- PI 504682 donor id: 9661. origin: Philippines. collector id: 98.
other id: PCaV 84-15. locality: Cavite Province.
elevation: 15m. remarks: Thick cane, greenish purple in
color. Yellow spot noted. Wild. Plant.
- PI 504683 donor id: 9697. origin: Philippines. collector id: 178.
other id: P-Dav 84-5. locality: Davao Province.
elevation: 15m. remarks: Culms thick, large, purplish,
and waxy. Red rot noted. Wild. Plant.
- PI 504684 donor id: 9698. origin: Philippines. collector id: 181.
other id: P-Dav-2. locality: Davao Province. elevation:
10m. remarks: Similar to Phil 58-260. Rust and red rot
noted. Wild. Plant.
- PI 504685 donor id: 9699. origin: Philippines. collector id: 195.
other id: P-Mag-84-2. locality: Magindanao Province.
elevation: 10m. remarks: Leaves waxy purplish blood
colored. Red rot noted. Wild. Plant.
- PI 504686 donor id: 9700. origin: Philippines. collector id: 196.
other id: P-Mag-84-3. locality: Magindanao Province.
elevation: 10m. remarks: Culms thin, waxy. Red spot
noted. Wild. Plant.
- PI 504687 donor id: 9701. origin: Philippines. collector id: 204.
other id: P-Mag-84-11. locality: Magindanao Province.
elevation: 10m. remarks: Culms yellow with green stripe.
Red spot, red rot, and mealy bugs noted. Wild. Plant.
- PI 504688 donor id: 9702. origin: Philippines. collector id: 206.
other id: P-Mag-84-13. locality: Magindanao Province.
elevation: 10m. remarks: Leaves broad. Leaf sheath
disease and red rot noted. Wild. Plant.
- PI 504689 donor id: 9703. origin: Philippines. collector id: 207.
other id: P-Mag-84-14. locality: Magindanao Province.
elevation: 40m. remarks: Culms waxy, purple. Red rot
noted. Wild. Plant.
- PI 504690 donor id: 9704. origin: Philippines. collector id: 208.
other id: P-Mag-84-15. locality: Magindanao Province.
elevation: 40m. remarks: Yellow spot, red spot and red
rot noted. Wild. Plant.
- PI 504691 donor id: 9705. origin: Philippines. collector id: 213.
other id: P-Mag-84-20. locality: Magindanao Province.
elevation: 150m. remarks: Culms green, cream colored
with long internodes. Red rot, red spot, and aphids
noted. Wild. Plant.

PI 504680 to 504695-continued

- PI 504692 donor id: 9706. origin: Philippines. collector id: 214. other id: P-Mag-84-21. locality: Magindanao Province. elevation: 10m. remarks: Culms green and tall with long internodes. Red rot, red spot, and yellow spot noted. Wild. Plant.
- PI 504693 donor id: 9707. origin: Philippines. collector id: 221. other id: P-Mag-84-28. locality: Magindanao Province. elevation: 15m. remarks: Culms brownish green. Red rot and red spot noted. Wild. Plant.
- PI 504694 donor id: 9708. origin: Philippines. collector id: 222. other id: P-Mag-84-29. locality: Magindanao Province. elevation: 15m. remarks: Culms green. Red rot and red spot noted. Wild. Plant.
- PI 504695 donor id: 9711. origin: Philippines. collector id: 228. other id: P-Cot-S-84-3. locality: Cotabato del Sur Province. elevation: 150m. remarks: Culms light purple with opposite leaves. Leaves broad, waxy. Red rot noted. Wild. Plant.

PI 504696 to 504746. *Saccharum spontaneum* L. POACEAE

Donated by Microbiology and Plant Pathology Lab, USDA-ARS, Beltsville, Maryland, United States. Received through the IBPGR sponsored Philippine Collecting Expedition - 1984. Received July 1986.

- PI 504696 donor id: 9616. origin: Philippines. collector id: 13. other id: P-Sor-84-13. locality: Sorsogon Province. remarks: Culms brownish to yellow green, waxy, non-flowering. Leaves healthy, drooping. Red spot noted. Wild. Plant.
- PI 504697 donor id: 9617. origin: Philippines. collector id: 14. other id: PAL-84-1. locality: Albay Province. remarks: Culms slender, tall. Leaves narrow, slight trichomes. Early flowering. Red rot and red spot noted. Wild. Plant.
- PI 504698 donor id: 9619. origin: Philippines. collector id: 17. other id: PAL-84-4. locality: Albay Province. remarks: Culms yellow with slender purplish nodes, distinct wax band. Leaves narrow. Early flowering. Red spot noted. Wild. Plant.
- PI 504699 donor id: 9620. origin: Philippines. collector id: 18. other id: PAL-84-5. locality: Albay Province. remarks: Leaves broader than PI (previous acc PAL-84-4). Early flowering. Red spot noted. Wild. Plant.

PI 504696 to 504746-continued

- PI 504700 donor id: 9621. origin: Philippines. collector id: 20. other id: PAL-84-7. locality: Albay Province. remarks: Culms hard, tall, yellow green, purplish near nodes. Flowering early and profuse. Red spot noted. Wild. Plant.
- PI 504701 donor id: 9622. origin: Philippines. collector id: 21. other id: PCa Sur 84-1. locality: Camarines Sur Province. remarks: Culms very tall, purple, waxy, heavy trichomes. Flowering profuse. Red spot noted. Wild. Plant.
- PI 504702 donor id: 9623. origin: Philippines. collector id: 22. other id: PCa Sur 84-2. locality: Camarines Sur Province. remarks: Culms yellowish purple, waxy. Flowering early. Red spot and red rot noted. Wild. Plant.
- PI 504703 donor id: 9624. origin: Philippines. collector id: 23. other id: PCa Sur 84-3. locality: Camarines Sur Province. remarks: Culms tall, yellow green, waxy, no trichomes. Flowering early. Red rot, red spot, and rust noted. Wild. Plant.
- PI 504704 donor id: 9625. origin: Philippines. collector id: 24. other id: PCa Sur 84-4. locality: Camarines Sur Province. remarks: Culms tall, medium sized. Flowering. Red rot and red spot. Wild. Plant.
- PI 504705 donor id: 9626. origin: Philippines. collector id: 25. other id: PCa Sur 84-5. locality: Camarines Sur Province. remarks: Culms tall, brittle, yellow green with distinct wax band. Leaves narrow. Flowering early and profuse. Wild. Plant.
- PI 504706 donor id: 9628. origin: Philippines. collector id: 27. other id: PCa Sur 84-7. locality: Camarines Sur Province. remarks: Culms tall, yellow green. Flowering. Rust, red spot, and red rot noted. Wild. Plant.
- PI 504707 donor id: 9629. origin: Philippines. collector id: 28. other id: PCa Sur 84-8. locality: Camarines Sur Province. remarks: Culms tall, yellow green to purple, waxy. Red rot and red spot noted. Wild. Plant.
- PI 504708 donor id: 9630. origin: Philippines. collector id: 29. other id: PCa Nor 84-1. locality: Camarines Norte Province. remarks: Culms yellow green with distinct wax band. Leaves broad. Rust, red rot, and red spot noted. Wild. Plant.

PI 504696 to 504746-continued

- PI 504709 donor id: 9631. origin: Philippines. collector id: 30. other id: PCa Nor 84-2. locality: Camarines Norte Province. remarks: Culms yellow green. Leaves narrow. Red spot, red rot, and purple spot noted. Wild. Plant.
- PI 504710 donor id: 9632. origin: Philippines. collector id: 31. other id: PCa Nor 84-3. locality: Camarines Norte Province. remarks: Culms slender, bushy type, non-flowering. Leaves narrow. Red spot and red rot noted. Wild. Plant.
- PI 504711 donor id: 9633. origin: Philippines. collector id: 32. other id: PCa Nor 84-4. locality: Camarines Norte Province. remarks: Culms tall, yellow green, waxy, slight trichomes. Flowering sparse. Red rot and red spot noted. Wild. Plant.
- PI 504712 donor id: 9634. origin: Philippines. collector id: 33. other id: PCa Nor 84-5. locality: Camarines Norte Province. remarks: Culms tall, large. Leaves broad. Red rot and rust noted. Wild. Plant.
- PI 504713 donor id: 9635. origin: Philippines. collector id: 34. other id: PCa Nor 84-6. locality: Camarines Norte Province. remarks: Culms yellow green. Flowering early and profuse. Purple spot and red spot noted. Wild. Plant.
- PI 504714 donor id: 9636. origin: Philippines. collector id: 35. other id: PCa Nor 84-7. locality: Camarines Norte Province. remarks: Culms brittle, yellow green. Leaves broad. Red spot and red rot noted. Wild. Plant.
- PI 504715 donor id: 9639. origin: Philippines. collector id: 39. other id: PQ 84-3. locality: Quezon Province. remarks: Culms long and slender, yellow green. Leaves narrow. Flowering early and profuse. Red spot, red rot, purple spot, and rust noted. Wild. Plant.
- PI 504716 donor id: 9640. origin: Philippines. collector id: 40. other id: PQ 84-4. locality: Quezon Province. remarks: Culms short, yellow green, heavy trichomes. Flowering early and profuse. Red rot and red spot noted. Wild. Plant.
- PI 504717 donor id: 9643. origin: Philippines. collector id: 43. other id: PQ 84-7. locality: Quezon Province. remarks: Culms purple, slight trichomes. Non-flowering. No diseases noted. Wild. Plant.

PI 504696 to 504746-continued

- PI 504718 donor id: 9644. origin: Philippines. collector id: 44. other id: PQ 84-8. locality: Quezon Province. remarks: Culms yellow green , waxy, heavy trichomes. Flowering early and profuse. Red rot and red spot noted. Wild. Plant.
- PI 504719 donor id: 9645. origin: Philippines. collector id: 45. other id: PQ 84-9. locality: Quezon Province. remarks: Culms short, yellow, heavy trichomes. No flowers. Red spot noted. Wild. Plant.
- PI 504720 donor id: 9650. origin: Philippines. collector id: 86. other id: PCaV 84-3. locality: Cavite Province. elevation: 55m. remarks: Culms tall, greenish yellow, waxy, moderate trichomes. Non-flowering. Yellow spot, red rot, and red spot noted. Wild. Plant.
- PI 504721 donor id: 9652. origin: Philippines. collector id: 88. other id: PCaV 84-5. locality: Cavite Province. elevation: 20m. remarks: Culms medium tall. Leaves narrow. Flowering profuse. Red spot, red rot, and yellow spot noted. Wild. Plant.
- PI 504722 donor id: 9653. origin: Philippines. collector id: 89. other id: PCaV 84-6. locality: Cavite Province. elevation: 60m. remarks: Culms short, large, yellow green. Red spot and red rot noted. Wild. Plant.
- PI 504723 donor id: 9654. origin: Philippines. collector id: 90. other id: PCaV 84-7. locality: Cavite Province. elevation: 60m. remarks: Culms medium tall, open growth, yellow green, waxy. Leaves narrow. No flowers. Red spot, red rot, and yellow spot noted. Wild. Plant.
- PI 504724 donor id: 9657. origin: Philippines. collector id: 94. other id: PCaV 84-11. locality: Cavite Province. elevation: 20m. remarks: Culms tall, greenish yellow, waxy, flagging stage. Leaves very narrow. Red spot, red rot, and rust noted. Wild. Plant.
- PI 504725 donor id: 9658. origin: Philippines. collector id: 95. other id: PCaV 84-12. locality: Cavite Province. elevation: 20m. remarks: Culms tall, yellow green, waxy, moderate trichomes. No flowers. Red spot and red rot noted. Wild. Plant.
- PI 504726 donor id: 9659. origin: Philippines. collector id: 96. other id: PCaV 84-13. locality: Cavite Province. elevation: 10m. remarks: Culms small, yellow green, slight trichomes, flagging stage. Leaves narrow. Red spot and rust noted. Wild. Plant.

PI 504696 to 504746-continued

- PI 504727 donor id: 9660. origin: Philippines. collector id: 97.
other id: PCaV 84-14. locality: Cavite Province.
elevation: 12m. remarks: Culms greenish yellow, waxy,
flowering. Red spot and red rot noted. Wild. Plant.
- PI 504728 donor id: 9663. origin: Philippines. collector id: 101.
other id: PCaV 84-18. locality: Cavite Province.
elevation: 25m. remarks: Culms short, large, yellow
green, waxy. Leaves broad, drooping with glabrous
sheaths. Red spot noted. Wild. Plant.
- PI 504729 donor id: 9665. origin: Philippines. collector id: 103.
other id: PCaV 84-20. locality: Cavite Province.
elevation: 80m. remarks: Culms yellow green, waxy.
Non-flowering. Red spot and yellow spot noted. Wild.
Plant.
- PI 504730 donor id: 9666. origin: Philippines. collector id: 104.
other id: PCaV 84-21. locality: Cavite Province.
elevation: 290m. remarks: Culms short, bushy, reddish
brown, moderate trichomes. Leaves narrow. Wild. Plant.
- PI 504731 donor id: 9667. origin: Philippines. collector id: 105.
other id: PIN 84-1. locality: Ilocos Norte Province.
elevation: 100m. remarks: Culms very small, reddish
brown. Leaves narrow. Non-flowering. Red spot noted.
Wild. Plant.
- PI 504732 donor id: 9671. origin: Philippines. collector id: 121.
other id: PBg 84-5. locality: Batangas Province.
elevation: 1270m. remarks: Culms short, yellow green. No
flowers. Rust, red spot, and red rot noted. Wild.
Plant.
- PI 504733 donor id: 9673. origin: Philippines. collector id: 123.
other id: PBg 84-7. locality: Batangas Province.
elevation: 1270m. remarks: Culms green. Leaves narrow.
Flowering profuse. Red spot and red rot noted. Wild.
Plant.
- PI 504734 donor id: 9677. origin: Philippines. collector id: 128.
other id: PBg 84-12. locality: Batangas Province.
elevation: 790m. remarks: Culms tall, yellow-green to
brownish. Flowering sparse. Red spot noted. Wild.
Plant.
- PI 504735 donor id: 9678. origin: Philippines. collector id: 131.
other id: PPgn 84-2. locality: Pangasinan Province.
elevation: 100m. remarks: Culms small, yellow green.
Leaves very narrow. Flowering profuse. Red spot, red rot,
and yellow spot noted. Wild. Plant.

PI 504696 to 504746-continued

- PI 504736 donor id: 9681. origin: Philippines. collector id: 134.
other id: PPgn 84-5. locality: Pangasinan Province.
elevation: 60m. remarks: Culms tall, yellow green.
Leaves narrow. Flowering profuse. Red rot, red spot, and
yellow spot noted. Wild. Plant.
- PI 504737 donor id: 9683. origin: Philippines. collector id: 136.
other id: PPgn 84-7. locality: Pangasinan Province.
elevation: 60m. remarks: Culms short, thin, yellow
green, no trichomes. Flowering sparse. Red spot and red
rot noted. Wild. Plant.
- PI 504738 donor id: 9684. origin: Philippines. collector id: 137.
other id: PPgn 84-8. locality: Pangasinan Province.
elevation: 100m. remarks: Culms tall, large, yellow
green to greenish brown, waxy. No flowers. Red spot, red
rot, and yellow spot noted. Wild. Plant.
- PI 504739 donor id: 9687. origin: Philippines. collector id: 140.
other id: PTar 84-1. locality: Tarlac Province.
elevation: 20m. remarks: Culms yellow green.
Non-flowering. Red spot and red rot noted. Wild. Plant.
- PI 504740 donor id: 9688. origin: Philippines. collector id: 141.
other id: PTar 84-2. locality: Tarlac Province.
elevation: 20m. remarks: Culms medium tall, yellow green
to brownish, waxy. Flowering profuse. Red spot, red rot,
and rust noted. Wild. Plant.
- PI 504741 donor id: 9692. origin: Philippines. collector id: 169.
other id: PLag 84-8. locality: Laguna Province.
elevation: 220m. remarks: Culms yellow green, waxy.
Flowering profuse. Red rot and red spot noted. Wild.
Plant.
- PI 504742 donor id: 9694. origin: Philippines. collector id: 174.
other id: P-Dav 84-1. locality: Davao Province.
elevation: 10m. remarks: Culms medium sized. Collected
seed only. Sugarcane mosaic infected. Wild. Plant.
- PI 504743 donor id: 9696. origin: Philippines. collector id: 176.
other id: P-Dav 84-3. locality: Davao Province.
elevation: 15m. remarks: Red rot and red spot noted.
Wild. Plant.
- PI 504744 donor id: 9713. origin: Philippines. collector id: 280.
other id: P-Lan S-84-3. locality: Lanao del Sur
Province. elevation: 660m. remarks: Ring spot, red rot,
and red spot noted. Wild. Plant.

PI 504696 to 504746-continued

PI 504745 **donor id:** 9714. **origin:** Philippines. **collector id:** 301.
other id: P-AgS-84-5. **locality:** Agusan del Sur Province.
elevation: 120m. **remarks:** Culms tall, thick, blooming.
Flowering late. Red rot, rust, yellow spot, and leaf
miner noted. Wild. Plant.

PI 504746 **donor id:** 9714. **origin:** Philippines. **collector id:** 301.
other id: P-AgS-84-5. **locality:** Agusan del Sur Province.
elevation: 120m. **remarks:** Culms tall, thick, blooming.
Flowering late. Red rot, rust, yellow spot, and leaf
miner noted. Wild. Plant.

PI 504747. *Erianthus arundinaceus* (Retz.) Jesw. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS,
Beltsville, Maryland, United States. Received through the 1981
India Collection of *Saccharum* Germplasm from North Bihar. Received
September 1986.

PI 504747 **donor id:** 9740. **origin:** India. **origin institute:**
Sugarcane Breeding Institute, ICAR, Coimbatore-641 007.
origin institute id: IND-81-35. **collected:** September 24,
1981. **locality:** Along a fence, roadside house garden,
Chongrahi Banjeria village. **remarks:** Single clump with
tillers and rooting at nodes. Root eyes purple when
exposed. Culms yellowish green. Leaves erect with
drooping tips, glabrous, serrated margin, 118 by 4cm,
leathery, wax on lamina and sheath. Buds curved at
germination. Wild. Plant.

PI 504748 to 504752. *Erianthus bengalense* (Retz.) Bharadw. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS,
Beltsville, Maryland, United States. Received through the 1981
India Collection of *Saccharum* Germplasm from North Bihar. Received
September 1986.

PI 504748 **donor id:** 9716. **origin:** India. **origin institute:**
Sugarcane Breeding Institute, ICAR, Coimbatore-641 007.
origin institute id: IND-81-1. **collected:** September 20,
1981. **locality:** Clearing, bank of India-Nepal river
about 100m from main road, Bikhna Thoree. **remarks:**
Leaves erect. **received as:** *E. munja*. Wild. Plant.

PI 504748 to 504752-continued

- PI 504749 **donor id:** 9717. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-2. **collected:** September 20, 1981. **locality:** Clearing, bank of India-Nepal river about 100m from main road, Bikhna Thoree. **remarks:** Leaf tips drooping. Plants in short-blade stage at collection. **received as:** E. munja. Wild. Plant.
- PI 504750 **donor id:** 9739. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-34. **collected:** September 24, 1981. **locality:** Bank of Balor rivulet, Banjeria farm of Harinagar sugar factory. **remarks:** Plants 3.6 to 4.5m tall, pure stand except for small clumps of S. spontaneum. Wax band absent. Growth ring brown. Leaf midrib very broad, completely hairy. Single row of root eyes sometimes sprouting. **received as:** E. munja. Wild. Plant.
- PI 504751 **donor id:** 9750. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-46. **collected:** September 24, 1981. **locality:** Dry ditches on roadside, 2km N of Pathri farm of Harinagar Sugar Mill Ltd. **remarks:** Plants 1.8m tall, not in flower. Culms green. Leaves narrow, green, boat-shaped, tip drooping, 158cm long by 0.5cm wide. Midrib light green. Ligule extending up to 5cm in blade. **received as:** E. munja. Wild. Plant.
- PI 504752 **donor id:** 9751. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-47. **collected:** September 24, 1981. **locality:** Roadside along waste water ditch near Pathri farm. **remarks:** Single huge clump. Culms very thick. Leaves green, 168cm by 2.1cm, margin serrate. Root band depressed, eyes absent. Node swollen. Panicles just emerging. **received as:** E. munja. Wild. Plant.

PI 504753 to 504756. Erianthus sp. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the 1981 India Collection of Saccharum Germplasm from North Bihar. Received September 1986.

- PI 504753 **donor id:** 9760. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-59. **collected:** September 26, 1981. **locality:** Marshy ditch in narrow forest belt, 1 km N of Gobardana village. **remarks:** Plants in boot leaf stage. Wild. Plant.

PI 504753 to 504756-continued

PI 504754 donor id: 9761. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-61. collected: September 26, 1981. locality: Marshy ditch in narrow forest belt, 1 km N of Gobardana village. remarks: Plant possibly a hybrid. Leaves short and narrow, 185cm by 1.2cm. Dewlap purple. Ligules hairy, short. Hairs absent on sides of upper portion of sheath. Buds triangular, touching growth ring. Single row of eyes. Wild. Plant.

PI 504755 donor id: 9817. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-140. collected: October 07, 1981. locality: Extensive hedge, Khairi village, 2km N of Ramghadwa. remarks: Isolated clumps. Plants very tall (6m), erect, about to flower. Culms very thick, green. Leaves long and broad, 200cm by 2.0cm. Ligule crescentiform. Wild. Plant.

PI 504756 donor id: 9841. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-169. collected: October 11, 1981. locality: Sandy bank, Bagmati River Bridge, 30km S of Rega on Muzzaffarpur road, Kotoja village. remarks: Isolated clump. Plant 4.8m tall, erect. Culms very thick, turn purple on exposure. Leaves very broad. Wild. Plant.

PI 504757. *Saccharum officinarum* L. POACEAE Sugarcane

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the 1981 India Collection of *Saccharum* Germplasm from North Bihar. Received September 1986.

PI 504757 donor id: 9818. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-141. collected: October 07, 1981. locality: Kitchen garden, near Pipra railway station. remarks: Culms thick, dark purple. Root zone narrow, purple, two rows of root eyes. Growth ring prominent. Leaves fan-shaped, broad, long hairs at collar, strap shaped ligules, free trashing. Dewlap 1.0cm, light purple. Wild. Plant.

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the 1981 India Collection of *Saccharum* Germplasm from North Bihar. Received September 1986.

- PI 504758 donor id: 9721. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-7. collected: September 20, 1981. locality: Forest clearing, 4km S of Bikhna Thoree on Narkatiaganj Road. remarks: Distinct from other associated *S. spontaneum* types by plant erectness and dark red leaf sheath. Short blade stage. Dewlap red. Wild. Plant.
- PI 504759 donor id: 9723. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-9. collected: September 20, 1981. locality: Forest clearing, 4km S of Bikhna Thoree on Narkatiaganj Road. remarks: Broad arrows with long trailing stems. Leaf sheaths occasionally with red spots and blotches. Wild. Plant.
- PI 504760 donor id: 9724. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-10. collected: September 20, 1981. locality: Forest clearing, 4km S of Bikhna Thoree on Narkatiaganj Road. remarks: Culms short. Leaves narrow. Flowering early with dense white panicles. Panicles about 22cm. Fluff almost all blown off. Wild. Plant.
- PI 504761 donor id: 9725. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-12. collected: September 20, 1981. locality: Forest clearing, 4km S of Bikhna Thoree on Narkatiaganj Road. remarks: Culms tall, huge. Arrows long, light pink. Wild. Plant.
- PI 504762 donor id: 9726. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-13. collected: September 20, 1981. locality: Forest clearing, 4km S of Bikhna Thoree on Narkatiaganj Road. remarks: Culms very large with many tillers. Arrows large. Wild. Plant.
- PI 504763 donor id: 9728. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-18. collected: September 20, 1981. locality: Field bunch, Birla farm, Kamtha Rajpur. remarks: Plants in dense colonies. Arrows 22cm long. Leaf reduced to midrib. Wild. Plant.

PI 504758 to 504800-continued

- PI 504764 **donor id:** 9731. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-22. **collected:** September 21, 1981. **locality:** Marshy edge of pond, Gaunaha village, 2km SE of Nepal border, NW of Narkatiaganj. **remarks:** Culms 3m tall. Rhizomes long. Panicle erect, open. Wild. Plant.
- PI 504765 **donor id:** 9732. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-23. **collected:** September 21, 1981. **locality:** Marshy edge of pond, Gaunaha village, 2km SE of Nepal border, NW of Narkatiaganj. **remarks:** Culms thin, erect, 1.2 to 1.5m tall. Panicles white, 22cm long. Wild. Plant.
- PI 504766 **donor id:** 9747. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-43. **collected:** September 24, 1981. **locality:** Sandy bank of Sukhawda riverlet, Sevrahi Kutti village, 16km N of Harinagar. **remarks:** Plant about 0.6m tall. Culms zig zag, greenish yellow, with light wax bloom. Wax band distinct. Leaf 0.85m long, reduced to midrib, short blade stage. Panicles dense in whorls of 10-12 branches. Wild. Plant.
- PI 504767 **donor id:** 9757. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-55. **collected:** September 25, 1981. **locality:** Marshy ditch of narrow forest belt, 1km N of Gobardana village. **remarks:** Culms tall 2.4-3.3m in isolated clumps with rooting at base, greenish with medium wax bloom. Leaves 129cm long and 1.1cm wide. Sheath with purple blotches. Panicles lax in whorls of 10 or more branches. Wild. Plant.
- PI 504768 **donor id:** 9759. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-58. **collected:** September 26, 1981. **locality:** Marshy ditch of narrow forest belt, 1km N of Gobardana village. **remarks:** Culms tall to 4.9m, yellowish green with long internodes, heavy wax bloom and prominent wax band. Bud triangular, heavy pubescence. Leaf 140cm long. Peduncle light pink, pubescent, long. Branches in whorls of 4. Wild. Plant.

PI 504758 to 504800-continued

- PI 504769 **donor id:** 9762. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-62. **collected:** September 26, 1981. **locality:** Marshy ditch of narrow forest belt, 1km N of Gobardana village. **remarks:** Culms medium thick, greenish yellow. Root eyes and buds present. Leaves 120cm by 1.1cm, boat shaped. Narrow midrib. Ligule hairy. Wild. Plant.
- PI 504770 **donor id:** 9764. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-64. **collected:** September 27, 1981. **locality:** Bank of Dhobaga River, Dardari village. **remarks:** Culms very tall to 4.8m, very thick, greenish yellow, heavy wax bloom. Buds large, profuse, hairy. Root eyes present. Sheaths clasping loose, purple blotches. Panicle to 0.75m, very lax, long branches in whorls of 10 or more. Wild. Plant.
- PI 504771 **donor id:** 9769. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-73. **collected:** September 28, 1981. **locality:** Roadside ditch water, S of Chanpatia factory, Mahana region. **remarks:** Plant in extensive colonies in standing water, 3.3-3.6m tall. Culms green, thick, somewhat flattened, heavy wax bloom. Sheath glabrous. Panicles 30cm, light brown tinge, dense, branches in closely placed whorls. Wild. Plant.
- PI 504772 **donor id:** 9770. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-74. **collected:** September 29, 1981. **locality:** Standing ditch water, S of Chanpatia factory, Mahana region. **remarks:** Plant 2.4-3.0m tall in water 75cm deep. Culms green, zig zag, heavy wax bloom. Dewlap light, purple. Panicles dense, branches in whorls of 4 to 5. Wild. Plant.
- PI 504773 **donor id:** 9775. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-80. **collected:** September 30, 1981. **locality:** Sikrana River bank, Goga village, E of Chanpatia. **remarks:** Plant short about 1.8m tall. Culms thin, yellowish. Ligule deltoid. Collar hairs present. Leaf reduced to midrib. Panicle 30cm long, lax in whorls of 4. Wild. Plant.

- PI 504774 **donor id:** 9776. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-81. **collected:** September 30, 1981. **locality:** Sikrana River bank, Goga village, E of Chanpatia. **remarks:** Plant 2.4-2.7m tall, erect, thick with heavy wax bloom. Leaves 90cm by 0.5cm. Flowering just began. Panicles with branches 7cm in irregular whorls of 11-12. Anthers yellow. Wild. Plant.
- PI 504775 **donor id:** 9777. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-82. **collected:** September 30, 1981. **locality:** Sikrana River bank, Goga village, E of Chanpatia. **remarks:** Plant 3.6m tall, growing in water 90-120cm deep. Culms thick, root at nodes. Growth ring prominent. One to two rows of root eyes. Leaves 70cm by 0.3cm. Panicle branches 13cm long, drooping, irregular whorls of 8-9. Wild. Plant.
- PI 504776 **donor id:** 9780. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-85. **collected:** September 30, 1981. **locality:** Bank of Sikrana River, Goga village, 6km E of Chanpatia. **remarks:** Plant 3m tall. Culms thin, green, zig zag, with heavy wax bloom. Rootband wide. Two rows of root eyes. Panicles 50cm long with whorls of 6-8. Wild. Plant.
- PI 504777 **donor id:** 9781. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-86. **collected:** September 30, 1981. **locality:** Bank of Sikrana River, Goga village, 6km E of Chanpatia. **remarks:** Plant short 1.8m tall. Culms very thin, with heavy wax bloom. Leaves 90cm by 0.3cm. Panicles dense with 9cm long branches in whorls of 6-8. Wild. Plant.
- PI 504778 **donor id:** 9790. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-100. **collected:** October 02, 1981. **locality:** Abandoned depressed brick kiln in paddy field, 0.5km SW of Basmanpur farm, Motihari Sugar factory, 15km NE of Motihari. **remarks:** Small clump. Culms thin. Leaf reduced to midrib. Collar hairs present. Panicles about 26cm long with alternate single branches. Wild. Plant.

PI 504758 to 504800-continued

- PI 504779 **donor id:** 9791. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-101. **collected:** October 02, 1981. **locality:** Abandoned depressed brick kiln in paddy field, 0.5km SW of Basmanpur farm, Motihari Sugar factory, 15km NE of Motihari. **remarks:** Single culm. Panicle, short lax. Wild. Plant.
- PI 504780 **donor id:** 9794. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-106. **collected:** October 03, 1981. **locality:** Raised bunds in abandoned brick kiln, between Sripur and Pipra, 27km N of Motihari on Lakauna Road. **remarks:** Plant erect, 1.65m tall. Culms green, medium thick. Panicles snow white, very lax, hairy at base, 1-2 branches per whorl. Wild. Plant.
- PI 504781 **donor id:** 9796. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-111. **collected:** October 03, 1981. **locality:** Sandy bank of Pandey River, 10km N of Motihari on Lakauna road. **remarks:** Plant erect, 3.6-4.2m tall. Culms thick, greenish yellow, heavy wax, prominent growth ring. Panicles 45cm long with branches in whorls 10cm long, lax. Peduncle hairy. Leaf reduced to midrib. Wild. Plant.
- PI 504782 **donor id:** 9800. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-118. **collected:** October 03, 1981. **locality:** Paddy field bund, Madhupur Madhu Malat, 13km SW of Motihari. **remarks:** Plant erect, 2.4-3m tall. Culms very thick with large pith and long internodes. Leaves 100cm by 0.7cm. Panicles lax with profuse alternate, non-whorl branching. Wild. Plant.
- PI 504783 **donor id:** 9801. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-119. **collected:** October 03, 1981. **locality:** Standing water by side of canal, Sajaral Nagar, 10km N of Motihari. **remarks:** Plant tall form in water 90cm deep. Culms yellow with dense bloom. Panicles 25cm by 10cm, silky white. Wild. Plant.
- PI 504784 **donor id:** 9805. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-123. **collected:** October 03, 1981. **locality:** Stagnant water, canal side of Sajaral Nagar, 10km N of Motihari. **remarks:** Plant short form, .9-1.2m tall. Culms green. Leaves 30cm long. Panicle branches short in irregular whorls of 3-4. Wild. Plant.

PI 504758 to 504800-continued

- PI 504785 **donor id:** 9809. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-131. **collected:** October 06, 1981. **locality:** Roadside water ditch, Piprakoti village on Motihari- Muzzaffarpur road toward Chakia. **remarks:** Plant 3.6-4.2m tall. Culms thin, greenish yellow with long internodes. Leaves 100-120cm long, reduced to midrib. Panicles lax, 30cm long with 2-3 branches per joint. Spikelets black. Wild. Plant.
- PI 504786 **donor id:** 9815. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-138. **collected:** October 07, 1981. **locality:** Dry roadside ditch, Ramghadeva, 16km W of Chakia. **remarks:** Plant 2.4m tall with short internodes. Leaves 85cm by 0.5cm. Panicle branches 10cm long in whorls of 4-5. Wild. Plant.
- PI 504787 **donor id:** 9819. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-142. **collected:** October 07, 1981. **locality:** Standing water in paddy field, Madinapur village, 7km from Chakia. **remarks:** Plant 1.5-1.8m tall with narrow root zone. Culms green, turning purple on exposure. Leaves 60cm by 0.3cm. Panicles dense, 30cm long, 6cm wide branches in whorls of 8-9, light purple tinge. Wild. Plant.
- PI 504788 **donor id:** 9820. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-143. **collected:** October 07, 1981. **locality:** Water level on bank of Gaudak Main Canal near Bakarpur (Kalyan) village. **remarks:** Culms yellow with green tinge, hollow. Single row of root eyes. Leaves 85cm long, reduced to midrib. Panicles dense, 30cm long in whorls of 4-5. Wild. Plant.
- PI 504789 **donor id:** 9822. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-146. **collected:** October 07, 1981. **locality:** Waste water ditch, Barhawamanani village near Kalyanpur Kandak Canal bridge, 10km SW of Chakia. **remarks:** Plant 2.4-3m tall. Culms thick, green with large buds. Leaves 125cm by 1.2cm. Panicles lax, 35cm long with long hairs on peduncle. Wild. Plant.

PI 504758 to 504800-continued

- PI 504790 donor id: 9828. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-155. collected: October 10, 1981. locality: Sandy bank of Narha Puranani Dhar Bagmati River, 3km W of Rega factory. remarks: Plant with medium thick green culms and broad root zone. Leaves 53cm by 0.4cm. Panicle 50cm long, already blown off. Branches in irregular whorls of 2-3. Wild. Plant.
- PI 504791 donor id: 9830. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-157. collected: October 10, 1981. locality: Roadside ditch adjoining paddy field, Garwara village, 6km W of Rega factory. remarks: Plant 3-3.6m tall. Culms medium thick. Leaves 130cm by 0.5cm. Panicle very green and lax, 60cm long with long branches in whorls of 5-6. Wild. Plant.
- PI 504792 donor id: 9834. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-161. collected: October 10, 1981. locality: Stagnant water ditch near the Bugmatic barrage, Rampur. remarks: Culms green, rooting at nodes. Leaves 65cm by 0.6cm. Panicle just emerged. Wild. Plant.
- PI 504793 donor id: 9836. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-164. collected: October 10, 1981. locality: Moist field bunds, Maniari village, 18km W of factory. remarks: Culms green, zig zag. Leaves 58cm by 0.3cm. Panicle 30cm long, almost blown off. Wild. Plant.
- PI 504794 donor id: 9837. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-165. collected: October 10, 1981. locality: Sides of raised embankment, Bagmati River bridge, Kotoja village, 30km S of Rega on Muzzaffarpur road. remarks: Plant 4.5m tall. Culms thick, green. Root zone swollen, has green patches and 1-2 rows of irregular root eyes. Leaves 165cm by 1.4cm. Panicle branches in irregular whorls. Wild. Plant.

- PI 504795 donor id: 9838. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-166. collected: October 10, 1981. locality: Sides of raised embankment, Bagmati River bridge, Kotoja village, 30km S of Rega on Muzzaffarpur road. remarks: Plant 2.4-3.0m tall. Culms thick, green. Leaves small with broad midrib. Panicle loose, 45cm long, pinkish tinge, branches in whorls of 3-4. Anthers pink. Wild. Plant.
- PI 504796 donor id: 9842. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-170. collected: October 11, 1981. locality: Clearing by side of rivulet, Gaighat, 30km S of Rega near a bridge. remarks: Plant 3.6m tall. Culms yellowish green. Broad root zone with 2 rows of regular root eyes. Leaves 122cm long, reduced to midrib. Panicle dense, 50cm long, branches in regular whorls of 5-6. Wild. Plant.
- PI 504797 donor id: 9843. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-171. collected: October 11, 1981. locality: Clearing by side of rivulet, Gaighat, 30km S of Rega near a bridge. remarks: Plant 5.4-6m, tall. Culms thick, yellowish green, long internodes. Leaves 160cm by 0.9cm. Panicle dense but lax, branches in whorls of 8-10. Wild. Plant.
- PI 504798 donor id: 9844. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-172. collected: October 11, 1981. locality: Clearing by side of rivulet, Gaighat, 30km S of Rega near a bridge. remarks: Plant 3.3-3.6m tall. Culms thick, greenish yellow, with 2 rows of root eyes. Leaves 165cm by 0.5cm. Panicles dense but open, pinkish-tinge, long branches (13cm) in whorls. Wild. Plant.
- PI 504799 donor id: 9847. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-177. collected: October 11, 1981. locality: Clearing by side of rivulet, Gaighat, 30km S of Rega near a bridge. remarks: Plant of very short form, 1.5m tall, semi-open type. Culms thin, yellow, zig zag. Growth ring prominent. Leaves 80cm by 0.3cm. Flowering very early, fluff already blown off. Wild. Plant.

PI 504758 to 504800-continued

PI 504800 donor id: 9849. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-180. collected: October 11, 1981. locality: Forest clearing under trees and open space, Gaighat, 30km S of Rega near a bridge. remarks: Plant 4.5-5.4m tall. Culms medium thick with long internodes, tending toward zig zag. Root zone broad with 2 rows of eyes. Leaves 150cm by 1.2cm. Panicles dense, 60cm long, with 17cm branches in long, narrow angled in perfect whorls of 12-18, about 6cm apart. Wild. Plant.

PI 504801. *Sclerostachya fusca* (Roxb.) A. Camus POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the 1981 India Collection of Saccharum Germplasm from North Bihar. Received September 1986.

PI 504801 donor id: 9763. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-63. collected: September 27, 1981. locality: On moist bund of ditch, Pathilar farm, Harinagar Sugar Mills, 41km SW of Harinagar. remarks: Plant short clump of about 1.5m in height. Culms green. Ligule deltoid. Upper fringe of leaf sheath hairy. Wild. Plant.

PI 504802 to 504808. *Vetiveria* sp. POACEAE

Donated by Microbiology and Plant Pathology Lab., USDA-ARS, Beltsville, Maryland, United States. Received through the 1981 India Collection of Saccharum Germplasm from North Bihar. Received September 1986.

PI 504802 donor id: 9755. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-53. collected: September 25, 1981. locality: Marshy ditch in narrow forest belt, 1 km N of Gobardana village. remarks: Culms flat, thick. Wild. Plant.

PI 504803 donor id: 9756. origin: India. origin institute: Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. origin institute id: IND-81-54. collected: September 25, 1981. locality: Marshy ditch in narrow forest belt, 1 km N of Gobardana village. remarks: Culms flat, thin. Wild. Plant.

PI 504802 to 504808-continued

- PI 504804 **donor id:** 9772. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-77. **collected:** September 30, 1981. **locality:** Sikrana River bank, Goga village, 6km E of Chanpatia. **remarks:** Culms flat. Inflorescence pinkish. Wild. Plant.
- PI 504805 **donor id:** 9774. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-79. **collected:** September 30, 1981. **locality:** Sikrana River bank, Goga village, 6km E of Chanpatia. **remarks:** Plant 2.1m tall. Culms tending to be round. Panicle color intermediate between pinkish and yellowish green. Wild. Plant.
- PI 504806 **donor id:** 9784. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-92. **collected:** October 02, 1981. **locality:** Abandoned depressed brick kiln in paddy field, 0.5km SW of Basmanpur farm, Motihari Sugar factory, 15km NE of Motihari. **remarks:** Arrows dense, green. Associated with many uni-culm forms of *Saccharum spontaneum*. Wild. Plant.
- PI 504807 **donor id:** 9785. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-94. **collected:** October 02, 1981. **locality:** Abandoned depressed brick kiln in paddy field, 0.5km SW of Basmanpur farm, Motihari Sugar factory, 15km NE of Motihari. **remarks:** Arrows brown. Branches wide angled almost tending to be parallel. Wild. Plant.
- PI 504808 **donor id:** 9786. **origin:** India. **origin institute:** Sugarcane Breeding Institute, ICAR, Coimbatore-641 007. **origin institute id:** IND-81-95. **collected:** October 02, 1981. **locality:** Abandoned depressed brick kiln in paddy field, 0.5km SW of Basmanpur farm, Motihari Sugar factory, 15km NE of Motihari. **remarks:** Plant tall. Panicle green. Wild. Plant.

PI 504809. *Capsicum annum* L. SOLANACEAE Pepper

Donated by Hibberd, A.M., Department of Primary Industries, Redlands Horticultural Research Station, P.O. Box 327, Cleveland, Queensland, Australia. Received October 03, 1986.

PI 504809-continued

PI 504809 **donor id:** 271-4. **origin:** Australia. **pedigree:** Selection from PI 271322. **remarks:** Contains the following resistant genes: Bsl for hypersensitive resistance to race 2 of spot, Bs3 for hypersensitive resistance to race 1 of spot, Bs4 for quantitatively assessed resistance to race 3 and concomitantly races 1 and 2 of spot. **disease resistance:** Resistant to bacterial leaf spot and canker. Breeding Material. Seed.

PI 504810. *Hibiscus sabdariffa* L. MALVACEAE Roselle

Donated by Marczell, P.J., International Trade Center/UNCTAD-GATT, 54-56, Rue de Montbrillant, CH-1202 Geneve, Switzerland. Received October 1986.

PI 504810 **origin:** Sudan. **local name:** El Rahad. **locality:** El Rahad, Kordofan. **remarks:** Mixture of 3-4 varieties. Edible calyx type. Top grade for sun-dried roselle sepals. Cultivated. Seed.

PI 504811. *Annona scleroderma* Saff. ANNONACEAE

Donated by Rowe, P., Fundacion Hondurena de Investigacion Ag., P.O. Box 2067 San Pedro Sula, La Lima, Honduras. Received October 1986.

PI 504811 **origin:** Honduras. **locality:** Near Lancetilla Experimental Garden, north coast of Honduras. Wild. Seed.

PI 504812. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by Kwon, S.H., Kyung-Hee University, Seoul, Republic of Korea. Received November 1986.

PI 504812 **origin:** Korea, Republic of. **cultivar:** Bangsa Kong. **pedigree:** Gamma radiation of US variety CB-27 (Dekalb-Pfizer). **remarks:** Developed by S.H. Kwon. Cultivar. Seed.

PI 504813 to 504816. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by VIR, Leningrad, Soviet Union. Received November 1986.

PI 504813 **donor id:** VIR 2037. **origin:** Japan. **cultivar:** Kariha. **disease resistance:** Resistant to cucumber mosaic virus 2. Cultivar. Seed.

PI 504813 to 504816-continued

PI 504814 **donor id:** VIR 2781. **origin:** China, Peoples Repub of.
cultivar: Pe-din-cy-gua. **disease resistance:** Resistant
to cucumber mosaic virus 2. Cultivar. Seed.

PI 504815 **donor id:** VIR 2942. **origin:** China, Peoples Repub of.
cultivar: Jan-can-huan-gua. **disease resistance:**
Resistant to cucumber mosaic virus 2. Cultivar. Seed.

PI 504816 **donor id:** VIR 2990. **origin:** China, Peoples Repub of.
cultivar: Sen-gua. **disease resistance:** Resistant to
cucumber mosaic virus 2. Cultivar. Seed.

PI 504817 to 505058. *Avena sativa* L. POACEAE Common oat

Donated by Rothman, P.G., USDA-ARS, Cereal Rust Laboratory,
University of Minnesota, St. Paul, Minnesota, United States. Lit.
reference Crop Sci. 24:1217-1218. 1984. Received October 08, 1986.

PI 504817 **donor id:** MN 860423. **origin:** United States. **pedigree:**
Amagalon selection. **disease resistance:** Highly resistant
to crown rust. Resistant to stem rust. Breeding
Material. Seed.

PI 504818 **donor id:** MN 861773. **origin:** United States. **pedigree:**
Amagalon selection (early). **disease resistance:** Highly
resistant to crown rust. Resistant to stem rust.
Breeding Material. Seed.

PI 504819 **donor id:** MN 862450. **origin:** United States. **pedigree:**
Amagalon selection. **disease resistance:** Highly resistant
to crown rust. Highly resistant to stem rust. Breeding
Material. Seed.

PI 504820 **donor id:** MN 863426. **origin:** United States. **pedigree:**
Amagalon selection. **disease resistance:** Highly resistant
to crown rust. Highly resistant to stem rust. Breeding
Material. Seed.

PI 504821 **donor id:** MN 863429. **origin:** United States. **pedigree:**
Amagalon selection. **disease resistance:** Highly resistant
to crown rust. Highly resistant to stem rust. Breeding
Material. Seed.

PI 504822 **donor id:** MN 863430. **origin:** United States. **pedigree:**
Amagalon selection. **disease resistance:** Highly resistant
to crown rust. Highly resistant to stem rust. Breeding
Material. Seed.

PI 504817 to 505058-continued

- PI 504823 donor id: MN 863432. origin: United States. pedigree: Amagalon selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504824 donor id: MN 863436. origin: United States. pedigree: Amagalon selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504825 donor id: MN 863447. origin: United States. pedigree: Amagalon selection. disease resistance: Highly resistant to crown rust. Segregating for stem rust. Breeding Material. Seed.
- PI 504826 donor id: MN 861765. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504827 donor id: MN 861823. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Segregating for stem rust. Breeding Material. Seed.
- PI 504828 donor id: MN 861825. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504829 donor id: MN 862525. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504830 donor id: MN 862527. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504831 donor id: MN 862530. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504832 donor id: MN 862532. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Segregating for stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504833 donor id: MN 862476. origin: United States. pedigree: IL 77-2588/Parent C. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504834 donor id: MN 862479. origin: United States. pedigree: IL 77-2588/Parent B. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504835 donor id: MN 862480. origin: United States. pedigree: IL 77-2588/Parent B. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504836 donor id: MN 862518. origin: United States. pedigree: IL 77-2588/Parent C. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504837 donor id: MN 862485. origin: United States. pedigree: IL 75-5869//Parent A/Parent C. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504838 donor id: MN 857245. origin: United States. pedigree: MO-O-0635/Parent C. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504839 donor id: MN 861771. origin: United States. pedigree: Froker/Dal//Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504840 donor id: MN 862125. origin: United States. pedigree: Froker/Dal//Amagalon/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504841 donor id: MN 862126. origin: United States. pedigree: Froker/Dal//Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504842 donor id: MN 867928. origin: United States. pedigree: Froker/Dal//Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504843 **donor id:** MN 867927. **origin:** United States. **pedigree:** Froker/Dal//Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504844 **donor id:** MN 861774. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//OT-184/PGR 9200. **disease resistance:** Moderately resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504845 **donor id:** MN 862151. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//OT-184/PGR 9200. **remarks:** Susceptible to stem rust. **disease resistance:** Highly resistant to crown rust. Breeding Material. Seed.
- PI 504846 **donor id:** MN 863292. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//OT-184/PGR 9200. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504847 **donor id:** MN 867949. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//OT-184/PGR 9200. **remarks:** Susceptible to crown rust. **disease resistance:** Highly resistant to stem rust. Breeding Material. Seed.
- PI 504848 **donor id:** MN 863524. **origin:** United States. **pedigree:** Nakerust selections. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504849 **donor id:** MN 863531. **origin:** United States. **pedigree:** Nakerust selection. **remarks:** Susceptible to stem rust. **disease resistance:** Highly resistant to crown rust. Breeding Material. Seed.
- PI 504850 **donor id:** MN 863544. **origin:** United States. **pedigree:** Nakerust selection. **remarks:** Susceptible to stem rust. **disease resistance:** Highly resistant to crown rust. Breeding Material. Seed.
- PI 504851 **donor id:** MN 863547. **origin:** United States. **pedigree:** Nakerust selection. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504852 **donor id:** MN 863555. **origin:** United States. **pedigree:** Nakerust selection. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504853 donor id: MN 863556. origin: United States. pedigree: Nakerust selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504854 donor id: MN 863562. origin: United States. pedigree: Nakerust selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504855 donor id: MN 863572. origin: United States. pedigree: Nakerust selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504856 donor id: MN 863580. origin: United States. pedigree: Nakerust selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504857 donor id: MN 863581. origin: United States. pedigree: Nakerust selection. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504858 donor id: MN 861775. origin: United States. pedigree: Obee/3/Gopher/MN 2629//Fulghum/FLA. 500. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504859 donor id: MN 862246. origin: United States. pedigree: Obee/3/Gopher/MN 2629//Fulghum/FLA. 500. remarks: Moderately susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504860 donor id: MN 863191. origin: United States. pedigree: Obee/3/Gopher/MN 2629//Fulghum/FLA. 500. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504861 donor id: MN 841476. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504862 donor id: MN 861226. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504863 donor id: MN 861804. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504864 donor id: MN 861805. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504865 donor id: MN 862217. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504866 donor id: MN 863475B. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504867 donor id: MN 863481. origin: United States. pedigree: Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504868 donor id: MN 861776. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon//A. nuda/Marvellous. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504869 donor id: MN 862393. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon//A. nuda/Marvellous. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504870 donor id: MN 862394. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504871 donor id: MN 862068. origin: United States. pedigree: Moore/3/Amagalon//A. nuda/Marvellous. remarks: Moderately susceptible to stem rust. disease resistance: Moderately resistant to crown rust. Breeding Material. Seed.
- PI 504872 donor id: MN 863396. origin: United States. pedigree: Moore/3/Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504873 donor id: MN 863398B. origin: United States. pedigree: Moore/3/Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504874 donor id: MN 866888. origin: United States. pedigree: Moore/3/Amagalon//A. nuda/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504875 donor id: MN 861777. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504876 donor id: MN 861796. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504877 donor id: MN 861797. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504878 donor id: MN 862434. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504879 donor id: MN 862441. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504880 donor id: MN 862442. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504881 donor id: MN 862444. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504882 donor id: MN 863339. origin: United States. pedigree: Amagalon/Black Mesdag//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504883 donor id: MN 861217. origin: United States. pedigree: Delredsa//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504884 donor id: MN 862759. origin: United States. pedigree: Mexican Multi-line Population IIa Selection. disease resistance: Highly resistant to crown rust. Moderately resistant to stem rust. Breeding Material. Seed.
- PI 504885 donor id: MN 862455. origin: United States. pedigree: Amagalon/Black Mesdag. remarks: Seed white. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504886 donor id: MN 829507. origin: United States. pedigree: Amagalon/Black Mesdag. remarks: Seed black. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504887 donor id: MN 862107. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504888 donor id: MN 862113. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504889 donor id: MN 862120. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504890 donor id: MN 862121. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504891 donor id: MN 862097. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504892 donor id: MN 862104. origin: United States. pedigree: Amagalon/Black Mesdag//Fidler. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504893 **donor id:** MN 861785. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//Fidler. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504894 **donor id:** MN 861792. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//Fidler. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504895 **donor id:** MN 862465. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//Fidler. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504896 **donor id:** MN 863328. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//Fidler. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504897 **donor id:** MN 867905. **origin:** United States. **pedigree:** Amagalon/Black Mesdag//Fidler. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504898 **donor id:** MN 861779. **origin:** United States. **pedigree:** Dal/6 x B//DA/CI 8344/4/Noble/5/Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504899 **donor id:** MN 861780. **origin:** United States. **pedigree:** Dal/6 x B//DA/CI 8344/4/Noble/5/Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504900 **donor id:** MN 861781. **origin:** United States. **pedigree:** Dal/6 x B//DA/CI 8344/4/Noble/5/Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504901 **donor id:** MN 862147. **origin:** United States. **pedigree:** Dal/6 x B//DA/CI 8344/4/Noble/5/Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504902 **donor id:** MN 866994. **origin:** United States. **pedigree:** Dal/6 x B//DA/CI 8344/4/Noble/5/Amagalon/Marvellous. **disease resistance:** Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504903 donor id: MN 861225. origin: United States. pedigree: Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504904 donor id: MN 866993. origin: United States. pedigree: Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504905 donor id: MN 848152. origin: United States. pedigree: Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504906 donor id: MN 848164. origin: United States. pedigree: Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504907 donor id: MN 848171. origin: United States. pedigree: Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504908 donor id: MN 862406. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504909 donor id: MN 861803. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504910 donor id: MN 863486B. origin: United States. pedigree: Alpha/Amagalon/3/Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504911 donor id: MN 861778. origin: United States. pedigree: Lyon/NA-70//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504912 donor id: MN 862134. origin: United States. pedigree: Lyon/NA-70//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504913 donor id: MN 862135. origin: United States. pedigree: Lyon/NA-70//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504914 donor id: MN 861784. origin: United States. pedigree: Ogle//A. abyssinica/2* AB101. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504915 donor id: MN 862094. origin: United States. pedigree: Ogle//A. abyssinica/2* AB101. disease resistance: Resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504916 donor id: MN 862676. origin: United States. pedigree: Lyon//Dal/NA-70/3/Don. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504917 donor id: MN 862678. origin: United States. pedigree: Lyon//Dal/NA-70/3/Don. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 504918 donor id: MN 863713. origin: United States. pedigree: A. abyssinica/2* AB101/3/Amagalon/A. nuda//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504919 donor id: MN 863718. origin: United States. pedigree: A. abyssinica/2* AB101/3/Amagalon/A. nuda//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504920 donor id: MN 861228. origin: United States. pedigree: Delredsa #1//Alpha/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504921 donor id: MN 861815. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504922 donor id: MN 861821. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504923 donor id: MN 862281. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504924 donor id: MN 862372. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504925 donor id: MN 862374. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504926 donor id: MN 862375. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504927 donor id: MN 863403B. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504928 donor id: MN 863411B. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504929 donor id: MN 868191. origin: United States. pedigree: Alpha/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504930 donor id: MN 862349. origin: United States. pedigree: Alpha *2/Amagalon. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504931 donor id: MN 863417. origin: United States. pedigree: Alpha *2/Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504932 donor id: MN 861218. origin: United States. pedigree: Amagalon/Gopher. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504933 donor id: MN 861219. origin: United States. pedigree: Amagalon/Gopher. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504934 donor id: MN 862282. origin: United States. pedigree: Amagalon/Gopher. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504935 donor id: MN 862301. origin: United States. pedigree: Amagalon/Gopher. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504936 donor id: MN 861795. origin: United States. pedigree: Amagalon/Black Mesdag//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504937 donor id: MN 856457. origin: United States. pedigree: Amagalon/Black Mesdag//Aojss. disease resistance: Highly resistant to stem rust. Segregating for crown rust. Breeding Material. Seed.
- PI 504938 donor id: MN 861810. origin: United States. pedigree: Delredsa/Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504939 donor id: MN 861811. origin: United States. pedigree: Delredsa/Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504940 donor id: MN 861840. origin: United States. pedigree: Delredsa/Aojss. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504941 donor id: MN 862279. origin: United States. pedigree: Delredsa/Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504942 donor id: MN 861812. origin: United States. pedigree: Aojss/Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504943 donor id: MN 863646B. origin: United States. pedigree: Aojss/Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504944 donor id: MN 862093. origin: United States. pedigree: Aojss/Ogle. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504945 donor id: MN 863616. origin: United States. pedigree: Aojss/Ogle. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504946 donor id: MN 846107. origin: United States. pedigree: Aojss/Ogle. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504947 donor id: MN 863625. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504948 donor id: MN 863637. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504949 donor id: MN 861826. origin: United States. pedigree: Don/Parent C. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504950 donor id: MN 861827. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504951 donor id: MN 862288. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504952 donor id: MN 862291. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504953 donor id: MN 862296. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504954 donor id: MN 861900. origin: United States. pedigree: A. fatua/A. sterilis//Aojss. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504955 donor id: MN 862054. origin: United States. pedigree: Moore/Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504956 donor id: MN 862059. origin: United States. pedigree: Moore/Aojss. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504957 donor id: MN 862060. origin: United States. pedigree: Moore/Aojss. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504958 donor id: MN 867081. origin: United States. pedigree: Porter/Aojss. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504959 donor id: MN 862454. origin: United States. pedigree: Porter/Aojss. remarks: Suseptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504960 donor id: MN 867882. origin: United States. pedigree: Porter/Aojss. remarks: Suseptible to crown rust. disease resistance: Resistant to stem rust. Breeding Material. Seed.
- PI 504961 donor id: MN 862760. origin: United States. pedigree: Porter/Aojss. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504962 donor id: MN 867081. origin: United States. pedigree: Porter/Aojss. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504963 donor id: MN 861194. origin: United States. pedigree: Obee/Moore. disease resistance: Moderately resistant to crown rust. Segregating for stem rust. Breeding Material. Seed.
- PI 504964 donor id: MN 861195. origin: United States. pedigree: Obee/Moore. remarks: Susceptible to stem rust. disease resistance: Moderately resistant to crown rust. Breeding Material. Seed.
- PI 504965 donor id: MN 861202. origin: United States. pedigree: Obee/Moore. remarks: Susceptible to stem rust. disease resistance: Moderately resistant to crown rust. Breeding Material. Seed.
- PI 504966 donor id: MN 861205. origin: United States. pedigree: Obee/Moore. remarks: Susceptible to stem rust. disease resistance: Moderately resistant to crown rust. Breeding Material. Seed.
- PI 504967 donor id: MN 867877. origin: United States. pedigree: Moore/A. barbata(?)//Amagalon/Black Mesdag. disease resistance: Resistant to crown rust. Moderately resistant to stem rust. Breeding Material. Seed.
- PI 504968 donor id: MN 862076. origin: United States. pedigree: Moore/A. barbata(?)//Amagalon/Black Mesdag. disease resistance: Moderately resistant to crown rust. Moderately resistant to stem rust. Breeding Material. Seed.
- PI 504969 donor id: MN 862077. origin: United States. pedigree: Moore/A. barbata(?)//Amagalon/Black Mesdag. disease resistance: Resistant to crown rust. Moderately resistant to stem rust. Breeding Material. Seed.
- PI 504970 donor id: MN 862028. origin: United States. pedigree: Amagalon//Obee/A. sterilis/3/Amagalon/Black Mesdag//Frocker/Omegia. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504971 donor id: MN 867829. origin: United States. pedigree: Amagalon//Obee/A. sterilis/3/Amagalon/Black Mesdag//Frocker/Omega. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 504972 donor id: MN 862030. origin: United States. pedigree: Amagalon//Obee/A. sterilis/3/Amagalon/Black Mesdag//Frocker/Omega. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504973 donor id: MN 866944. origin: United States. pedigree: Amagalon/Amagalon//MN 2629/Alpha. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504974 donor id: MN 868139. origin: United States. pedigree: Amagalon/Amagalon//MN 2629/Alpha. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504975 donor id: MN 861809. origin: United States. pedigree: Amagalon/Amagalon//MN 2629/Alpha. disease resistance: Segregating for crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504976 donor id: MN 861175. origin: United States. pedigree: Marvellous/CI 3034. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504977 donor id: MN 862031. origin: United States. pedigree: Marvellous/CI 3034. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504978 donor id: MN 848051. origin: United States. pedigree: Marvellous/CI 3034. remarks: Susceptible to crown rust. disease resistance: Resistant to stem rust. Breeding Material. Seed.
- PI 504979 donor id: MN 862231. origin: United States. pedigree: Amagalon/2* A. nuda//Delredsa. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504980 donor id: MN 862233. origin: United States. pedigree: Amagalon/2* A. nuda//Delredsa. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504981 donor id: MN 853363. origin: United States. pedigree: Amagalon/2* A. nuda//Delredsa. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504982 donor id: MN 863267B. origin: United States. pedigree: A. fatua/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504983 donor id: MN 863272B. origin: United States. pedigree: A. fatua/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504984 donor id: MN 861837. origin: United States. pedigree: A. fatua/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 504985 donor id: MN 861995. origin: United States. pedigree: A. fatua/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504986 donor id: MN 861975. origin: United States. pedigree: A. fatua/Marvellous. disease resistance: Segregating for crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504987 donor id: MN 866714. origin: United States. pedigree: A. fatua/Marvellous. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504988 donor id: MN 863227. origin: United States. pedigree: Obee/Obee//A. fatua. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504989 donor id: MN 862002. origin: United States. pedigree: Obee/Obee//A. fatua. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504990 donor id: MN 861950. origin: United States. pedigree: Obee/Obee//A. fatua. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504991 donor id: MN 862020. origin: United States. pedigree: Obee/Obee//A. fatua. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504992 donor id: MN 862269. origin: United States. pedigree: Delredsa/Aojss/3/A. abyssinica/2* AB101//Dal/Alpha. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 504993 donor id: MN 862271. origin: United States. pedigree: Delredsa/Aojss/3/A. abyssinica/2* AB101//Dal/Alpha. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504994 donor id: MN 863667. origin: United States. pedigree: Delredsa/Aojss/3/A. abyssinica/2* AB101//Dal/Alpha. disease resistance: Resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504995 donor id: MN 861921. origin: United States. pedigree: Obee. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504996 donor id: MN 867705. origin: United States. pedigree: Obee. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504997 donor id: MN 867714. origin: United States. pedigree: Obee. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 504998 donor id: MN 863185. origin: United States. pedigree: Obee/Satapago. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 504999 donor id: MN 861923. origin: United States. pedigree: Obee/Satapago. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505000 donor id: MN 861927. origin: United States. pedigree: Obee/Satapago. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505001 donor id: MN 861933. origin: United States. pedigree: Obee/Satapago. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505002 donor id: MN 861938. origin: United States. pedigree: Obee/Satapago. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 505003 donor id: MN 862024. origin: United States. pedigree: Obee/Ora//Minhafer. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505004 donor id: MN 861813. origin: United States. pedigree: Delredsa//Rodney-O *2/Omega. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505005 donor id: MN 861239. origin: United States. pedigree: Moore//Amagalon/Marvellous. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505006 donor id: MN 862075. origin: United States. pedigree: Moore//Amagalon/Marvellous. remarks: Susceptible to stem rust. disease resistance: Moderately resistant to crown rust. Breeding Material. Seed.
- PI 505007 donor id: MN 862040. origin: United States. pedigree: Moore(Aus)/Moore(USA)//Amagalon. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505008 donor id: MN 862044. origin: United States. pedigree: Moore(Aus)/Moore(USA)//Amagalon. remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 505009 donor id: MN 862049. origin: United States. pedigree: Moore(Aus)/Moore(USA)//Amagalon. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505010 donor id: MN 862033. origin: United States. pedigree: Moore(Aus)/Moore(USA). remarks: Susceptible to stem rust. disease resistance: Resistant to crown rust. Breeding Material. Seed.
- PI 505011 donor id: MN 862034. origin: United States. pedigree: Moore(Aus)/Moore(USA). remarks: Moderately susceptible to crown rust. disease resistance: Resistant to stem rust. Breeding Material. Seed.
- PI 505012 donor id: MN 862035. origin: United States. pedigree: Moore(Aus)/Moore(USA). remarks: Moderately susceptible to crown rust. disease resistance: Resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 505013 donor id: MN 866277. origin: United States. pedigree: Amagalon/Echidna. disease resistance: Segregating for crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505014 donor id: MN 866402. origin: United States. pedigree: Amagalon/Echidna. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505015 donor id: MN 866427. origin: United States. pedigree: Amagalon/Echidna. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505016 donor id: MN 866428. origin: United States. pedigree: Amagalon/Echidna. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505017 donor id: MN 866532. origin: United States. pedigree: Amagalon/Echidna. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505018 donor id: MN 866543. origin: United States. pedigree: Amagalon/West * Bob/5. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505019 donor id: MN 866558. origin: United States. pedigree: Amagalon/West * Bob/5. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505020 donor id: MN 866562. origin: United States. pedigree: Amagalon/West * Bob/5. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505021 donor id: MN 866572B. origin: United States. pedigree: Amagalon/West * Bob/5. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505022 donor id: MN 866132. origin: United States. pedigree: Amagalon/A. fatua Celaya. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505023 donor id: MN 866102. origin: United States. pedigree: Amagalon/A. fatua Celaya. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 505024 **donor id:** MN 866014. **origin:** United States. **pedigree:** Amagalon/A. fatua Celaya. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505025 **donor id:** MN 866024. **origin:** United States. **pedigree:** Amagalon/A. fatua Celaya. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505026 **donor id:** MN 866032. **origin:** United States. **pedigree:** Amagalon/A. fatua Celaya. **disease resistance:** Resistant to stem rust. **Breeding Material.** Seed.
- PI 505027 **donor id:** MN 866082B. **origin:** United States. **pedigree:** A. fatua Celaya/Alpha. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505028 **donor id:** MN 866169. **origin:** United States. **pedigree:** Rodney Pg a/A. fatua Celaya. **disease resistance:** Resistant to stem rust. **Breeding Material.** Seed.
- PI 505029 **donor id:** MN 866172. **origin:** United States. **pedigree:** Rodney Pg a/A. fatua Celaya. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505030 **donor id:** MN 866207. **origin:** United States. **pedigree:** Rodney o/A. fatua Celaya. **disease resistance:** Resistant to stem rust. **Breeding Material.** Seed.
- PI 505031 **donor id:** MN 866219. **origin:** United States. **pedigree:** Rodney o/A. fatua Celaya. **disease resistance:** Resistant to stem rust. **Breeding Material.** Seed.
- PI 505032 **donor id:** MN 866220. **origin:** United States. **pedigree:** Rodney o/A. fatua Celaya. **disease resistance:** Resistant to stem rust. **Breeding Material.** Seed.
- PI 505033 **donor id:** MN 866623. **origin:** United States. **pedigree:** MN 2629/Obee. **remarks:** Susceptible to crown rust. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505034 **donor id:** MN 866694. **origin:** United States. **pedigree:** Obee/Obee//A. fatua/3/Amagalon. **remarks:** Susceptible to crown rust. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.
- PI 505035 **donor id:** MN 866698. **origin:** United States. **pedigree:** Obee/Obee//A. fatua/3/Amagalon. **remarks:** Susceptible to crown rust. **disease resistance:** Highly resistant to stem rust. **Breeding Material.** Seed.

PI 504817 to 505058-continued

- PI 505036 donor id: MN 866700. origin: United States. pedigree: Obee/Obee//A. fatua/3/Amagalon. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505037 donor id: MN 856458. origin: United States. pedigree: Amagalon/Black Mesdac//Aojss. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505038 donor id: MN 852374. origin: United States. pedigree: Moore/Aojss/3/Moore/A. barbata(?)//Amagalon/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 505039 donor id: MN 852375. origin: United States. pedigree: Moore/Aojss/3/Moore/A. barbata(?)//Amagalon/Marvellous. remarks: Susceptible to stem rust. disease resistance: Highly resistant to crown rust. Breeding Material. Seed.
- PI 505040 donor id: MN 862079. origin: United States. pedigree: Moore//Amagalon *3/Black Mesdac. disease resistance: Moderately resistant to crown rust. Moderately resistant to stem rust. Breeding Material. Seed.
- PI 505041 donor id: MN 866943. origin: United States. pedigree: Amagalon/Amagalon//MN 2629/Alpha. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505042 donor id: MN 866945. origin: United States. pedigree: Amagalon/Amagalon//MN 2629/Alpha. disease resistance: Highly resistant to crown rust. Resistant to stem rust. Breeding Material. Seed.
- PI 505043 donor id: MN 866946. origin: United States. pedigree: Garland/3/Minhafer//Gopher/MN 2629. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505044 donor id: MN 857981. origin: United States. pedigree: Garland/3/Minhafer//Gopher/MN 2629. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505045 donor id: MN 857109. origin: United States. pedigree: Marvellous/CI 3034/Unknown. disease resistance: Moderately resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 505046 donor id: MN 866952. origin: United States. pedigree: Omega *2/MN 2629. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505047 donor id: MN 857205. origin: United States. pedigree: Allen/3/Minhafer//Gopher/MN 2629. remarks: Susceptible to crown rust. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505048 donor id: MN 868143. origin: United States. pedigree: Delredsa//Rodney-o *2/Omega. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505049 donor id: MN 868580. origin: United States. pedigree: Amagalon//Obee/A. sterilis. disease resistance: Highly resistant to stem rust. Breeding Material. Seed.
- PI 505050 donor id: MN 868977. origin: United States. pedigree: Obee/Sajapago//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505051 donor id: MN 868979. origin: United States. pedigree: Obee/Sajapago//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505052 donor id: MN 868989. origin: United States. pedigree: Obee/Sajapago//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505053 donor id: MN 861229. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505054 donor id: MN 861230. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505055 donor id: MN 861800. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.

PI 504817 to 505058-continued

- PI 505056 donor id: MN 861801. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505057 donor id: MN 862160. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505058 donor id: MN 862165. origin: United States. pedigree: Amagalon/Marvellous//Amagalon/Black Mesdag. disease resistance: Highly resistant to crown rust. Highly resistant to stem rust. Breeding Material. Seed.
- PI 505059. *Pisum sativum* subsp. *elatius* (Steven ex M. Bieb.) Asch. & Graebner FABACEAE Wild pea
- Donated by ICARDA, P.O. Box 5466, Aleppo, Syria. Received October 1986.
- PI 505059 donor id: IFPI 136. origin: Sudan. other id: ILCA 5076. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 40. source: Near East *Pisum* Sortiment. Seed.
- PI 505060 to 505150. *Pisum sativum* L. subsp. *sativum* FABACEAE Garden pea
- Donated by ICARDA, P.O. Box 5466, Aleppo, Syria. Received October 1986.
- PI 505060 donor id: IFPI 1. origin: Turkey. other id: ILCA 5003. source: ILCA, Addis Ababa, Ethiopia. other id: GCIT 26280. source: Aegean Agricultural Research Inst., Ismir, Turkey. remarks: Received as *Pisum arvense*. Seed.
- PI 505061 donor id: IFPI 4. origin: UNKNOWN. other id: ILCA 5004. source: ILCA, Addis Ababa, Ethiopia. other id: ORSAC. source: Ottawa Research Station, Ontario, Canada. Seed.
- PI 505062 donor id: IFPI 10. origin: Greece. other id: ILCA 5005. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 5. source: Near East *Pisum* Sortiment. Seed.
- PI 505063 donor id: IFPI 22. origin: Afghanistan. other id: ILCA 5006. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 17. source: Near East *Pisum* Sortiment. Seed.

PI 505060 to 505150-continued

- PI 505064 **donor id:** IFPI 23. **origin:** Afghanistan. **other id:** ILCA 5007. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 18. **source:** Near East Pisum Sortiment. Seed.
- PI 505065 **donor id:** IFPI 24. **origin:** Afghanistan. **other id:** ILCA 5009. **source:** ICLA, Addis Ababa, Ethiopia. **other id:** NEPS 19. **source:** Near East Pisum Sortiment. Seed.
- PI 505066 **donor id:** IFPI 33. **origin:** Afghanistan. **other id:** ILCA 5012. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 28. **source:** Near East Pisum Sortiment. Seed.
- PI 505067 **donor id:** IFPI 34. **origin:** Afghanistan. **other id:** ILCA 5013. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 29. **source:** Near East Pisum Sortiment. Seed.
- PI 505068 **donor id:** IFPI 35. **origin:** Afghanistan. **other id:** ILCA 5014. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 30. **source:** Near East Pisum Sortiment. Seed.
- PI 505069 **donor id:** IFPI 36. **origin:** Afghanistan. **other id:** ILCA 5015. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 31. **source:** Near East Pisum Sortiment. Seed.
- PI 505070 **donor id:** IFPI 37. **origin:** Afghanistan. **other id:** ILCA 5016. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 32. **source:** Near East Pisum Sortiment. Seed.
- PI 505071 **donor id:** IFPI 43. **origin:** Afghanistan. **other id:** ILCA 5017. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 38. **source:** Near East Pisum Sortiment. Seed.
- PI 505072 **donor id:** IFPI 44. **origin:** Afghanistan. **other id:** ILCA 5021. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 49. **source:** Near East Pisum Sortiment. Seed.
- PI 505073 **donor id:** IFPI 45. **origin:** Afghanistan. **other id:** ILCA 5025. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** NEPS 40. **source:** Near East Pisum Sortiment. Seed.
- PI 505074 **donor id:** IFPI 49. **origin:** Yugoslavia. **other id:** ILCA 5032. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** IARNY. **source:** Agri. Res. Inst. for Field Crops, Novi Sad, Yugoslavia. **remarks:** Received as Pisum arvense. Seed.
- PI 505075 **donor id:** IFPI 50. **origin:** Afghanistan. **other id:** ILCA 5033. **source:** ILCA, Addis Ababa, Ethiopia. **other id:** KUA. **source:** Kabul University, Kabul, Afghanistan. Seed.

PI 505060 to 505150-continued

- PI 505076 donor id: IFPI 51. origin: Afghanistan. other id: ILCA 5034. source: ILCA, Addis Ababa, Ethiopia. other id: KUA. source: Kabul University, Kabul, Afghanistan. Seed.
- PI 505077 donor id: IFPI 57. origin: Finland. origin institute: Plant Breeding Institute, Hyryla. origin institute id: PBIHF 51206. other id: ILCA 5035. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505078 donor id: IFPI 58. origin: Finland. origin institute: Plant Breeding Institute, Hyryla. origin institute id: PBIHF 51237. other id: ILCA 5036. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505079 donor id: IFPI 59. origin: Finland. origin institute: Plant Breeding Institute, Hyryla. origin institute id: PBIHF 51242. other id: ILCA 5037. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505080 donor id: IFPI 60. origin: Cyprus. origin institute: Agricultural Research Institute, Nicosia. other id: ILCA 5039. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505081 donor id: IFPI 61. origin: Ethiopia. other id: ILCA 5040. source: ILCA, Addis Ababa, Ethiopia. other id: PIS 117/74. source: Central Inst. for Plant Res., Gatersleben, German Dem. Repub. Seed.
- PI 505082 donor id: IFPI 62. origin: Ethiopia. other id: ILCA 5041. source: ILCA, Addis Ababa, Ethiopia. other id: PIS 434/75. source: Central Inst. for Plant Res., Gatersleben, German Dem. Repub. remarks: Received as *Pisum sativum* var. *arvense*. Seed.
- PI 505083 donor id: IFPI 63. origin: Ethiopia. other id: ILCA 5042. source: ILCA, Addis Ababa, Ethiopia. other id: PIS 498/71. source: Central Inst. for Plant Res., Gatersleben, German Dem. Repub. Seed.
- PI 505084 donor id: IFPI 65. origin: Ethiopia. other id: ILCA 5043. source: ILCA, Addis Ababa, Ethiopia. other id: PIS 1128/71. source: Central Inst. for Plant Res., Gatersleben, German Dem. Repub. Seed.
- PI 505085 donor id: IFPI 77. origin: UNKNOWN. other id: ILCA 5045. source: ILCA, Addis Ababa, Ethiopia. remarks: received as *Pisum* species. Seed.

PI 505060 to 505150-continued

- PI 505086 donor id: IFPI 78. origin: UNKNOWN. other id: ILCA 5046. source: ILCA, Addis Ababa, Ethiopia. other id: USC. source: University of Saskatchewan, Saskatoon, Canada. Seed.
- PI 505087 donor id: IFPI 80. origin: UNKNOWN. other id: ILCA 5047. source: ILCA, Addis Ababa, Ethiopia. other id: K 129. source: Institute of Fodder Crops, Larissa, Greece. Seed.
- PI 505088 donor id: IFPI 84. origin: UNKNOWN. other id: ILCA 5048. source: ILCA, Addis Ababa, Ethiopia. other id: ARSMMC. source: Agricultural Research Service, Manitoba, Canada. Seed.
- PI 505089 donor id: IFPI 85. origin: UNKNOWN. other id: ILCA 5049. source: ILCA, Addis Ababa, Ethiopia. other id: ARSMMC. source: Agricultural Research Service, Manitoba, Canada. Seed.
- PI 505090 donor id: IFPI 86. origin: UNKNOWN. other id: ILCA 5050. source: ILCA, Addis Ababa, Ethiopia. other id: ARSMMC. source: Agricultural Research Service, Manitoba, Canada. Seed.
- PI 505091 donor id: IFPI 87. origin: UNKNOWN. other id: ILCA 5051. source: ILCA, Addis Ababa, Ethiopia. other id: ARSMMC. source: Agricultural Research Service, Manitoba, Canada. Seed.
- PI 505092 donor id: IFPI 88. origin: Cyprus. origin institute: Agricultural Research Institute, Nicosia. other id: ILCA 5052. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505093 donor id: IFPI 92. origin: Germany, Federal Rep of. origin institute: Federal Research Center of Agriculture, Braunschweig. origin institute id: BGRC 011949. other id: ILCA 5054. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505094 donor id: IFPI 101. origin: Germany, Federal Rep of. origin institute: Federal Research Center of Agriculture, Braunschweig. origin institute id: BGRC 011958. other id: ILCA 5056. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505095 donor id: IFPI 105. origin: Germany, Federal Rep of. origin institute: Federal Research Center of Agriculture, Braunschweig. origin institute id: BGRC 011963. other id: ILCA 5057. source: ILCA, Addis Ababa, Ethiopia. Seed.

PI 505060 to 505150-continued

- PI 505096 donor id: IFPI 106. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011963. other
id: ILCA 5058. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505097 donor id: IFPI 107. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011964. other
id: ILCA 5059. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505098 donor id: IFPI 109. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011966. other
id: ILCA 5060. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505099 donor id: IFPI 110. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011967. other
id: ILCA 5061. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505100 donor id: IFPI 113. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011970. other
id: ILCA 5063. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505101 donor id: IFPI 114. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011971. other
id: ILCA 5064. source: ILCA, Addis Ababa, Ethiopia.
Seed.
- PI 505102 donor id: IFPI 116. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011973. other
id: ILCA 5066. source: ILCA, Addis Ababa Ethiopia.
Seed.
- PI 505103 donor id: IFPI 117. origin: Germany, Federal Rep of.
origin institute: Federal Research Center of Agriculture,
Braunschweig. origin institute id: BGRC 011974. other
id: ILCA 5067. source: ILCA, Addis Ababa, Ethiopia.
Seed.

PI 505060 to 505150-continued

- PI 505104 donor id: IFPI 120. origin: Germany, Federal Rep of. origin institute: Federal Research Center of Agriculture, Braunschweig. origin institute id: BGRC 011977. other id: ILCA 5068. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505105 donor id: IFPI 124. origin: Germany, Federal Rep of. origin institute: Federal Research Center of Agriculture, Braunschweig. origin institute id: BGRC 015525. other id: ILCA 5069. source: ILCA, Addis Ababa, Ethiopia. Seed.
- PI 505106 donor id: IFPI 129. origin: UNKNOWN. other id: ILCA 5070. source: ILCA, Addis Ababa, Ethiopia. remarks: Received as Pisum arvense. Seed.
- PI 505107 donor id: IFPI 130. origin: UNKNOWN. other id: ILCA 5071. source: ILCA, Addis Ababa, Ethiopia. remarks: Received as Pisum arvense. Seed.
- PI 505108 donor id: IFPI 132. origin: Greece. other id: ILCA 5072. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 7. source: Near East Pisum Sortiment. remarks: Received as Pisum species. Seed.
- PI 505109 donor id: IFPI 133. origin: Afghanistan. other id: ILCA 5073. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 22. source: Near East Pisum Sortiment. remarks: Received as Pisum species. Seed.
- PI 505110 donor id: IFPI 134. origin: Afghanistan. other id: ILCA 5074. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 86. source: Near East Pisum Sortiment. Seed.
- PI 505111 donor id: IFPI 135. origin: Syria. other id: ILCA 5075. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 47. source: Near East Pisum Sortiment. Seed.
- PI 505112 donor id: IFPI 137. origin: Greece. other id: ILCA 5077. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 2. source: Near East Pisum Sortiment. Seed.
- PI 505113 donor id: IFPI 145. origin: Afghanistan. other id: ILCA 5078. source: ILCA, Addis Ababa, Ethiopia. other id: NEPS 28. source: Near East Pisum Sortiment. Seed.
- PI 505114 donor id: IFPI 157. origin: Sweden. other id: ILCA 5079. source: ILCA, Addis Ababa, Ethiopia. other id: JI 377. source: John Innes Institute, Norwich, United Kingdom. Seed.

PI 505060 to 505150-continued

- PI 505115 donor id: IFPI 158. origin: Sweden. other id: ILCA 5080. source: ILCA, Addis Ababa, Ethiopia. other id: JI 378. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505116 donor id: IFPI 159. origin: Sweden. other id: ILCA 5081. source: ILCA, Addis Ababa, Ethiopia. other id: JI 380. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505117 donor id: IFPI 177. origin: Soviet Union. other id: ILCA 5082. source: ILCA, Addis Ababa, Ethiopia. other id: JI 734. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505118 donor id: IFPI 181. origin: United States. other id: ILCA 5083. source: ILCA, Addis Ababa, Ethiopia. other id: JI 753. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505119 donor id: IFPI 196. origin: Sweden. other id: ILCA 5084. source: ILCA, Addis Ababa, Ethiopia. other id: JI 14. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505120 donor id: IFPI 205. origin: Syria. other id: ILCA 5085. source: ILCA, Addis Ababa Ethiopia. Seed.
- PI 505121 donor id: IFPI 424. origin: Ethiopia. other id: ILCA 5087. source: ILCA, Addis Ababa, Ethiopia. other id: JI 238. source: John Innes Institute, Norwich, United Kingdom. Seed.
- PI 505122 donor id: IFPI 1415. origin: Albania. other id: ILCA 5089. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100420. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505123 donor id: IFPI 1434. origin: UNKNOWN. other id: ILCA 5090. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100440. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505124 donor id: IFPI 1436. origin: UNKNOWN. other id: ILCA 5091. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100451. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505125 donor id: IFPI 1476. origin: UNKNOWN. other id: ILCA 5092. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100539. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505126 donor id: IFPI 1502. origin: UNKNOWN. other id: ILCA 5093. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100565. source: Germplasm Institute, Bari, Italy. Seed.

PI 505060 to 505150-continued

- PI 505127 donor id: IFPI 1542. origin: Albania. other id: ILCA 5094. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100666. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505128 donor id: IFPI 1543. origin: UNKNOWN. other id: ILCA 5095. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100667. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505129 donor id: IFPI 1619. origin: UNKNOWN. other id: ILCA 5096. source: ILCA, Addis Ababa, Ethiopia. other id: MG 100748. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505130 donor id: IFPI 1821. origin: UNKNOWN. other id: ILCA 5098. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101055. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505131 donor id: IFPI 1911. origin: UNKNOWN. other id: ILCA 5099. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101206. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505132 donor id: IFPI 2036. origin: UNKNOWN. other id: ILCA 5100. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101400. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505133 donor id: IFPI 2037. origin: UNKNOWN. other id: ILCA 5101. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101401. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505134 donor id: IFPI 2124. origin: UNKNOWN. other id: ILCA 5102. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101492. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505135 donor id: IFPI 2189. origin: Ethiopia. other id: ILCA 5103. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101594. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505136 donor id: IFPI 2373. origin: Ethiopia. other id: ILCA 5104. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101820. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum sativum arvense. Seed.
- PI 505137 donor id: IFPI 2428. origin: Ethiopia. other id: ILCA 5105. source: ILCA, Addis Ababa, Ethiopia. other id: MG 101876. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum sativum arvense. Seed.

PI 505060 to 505150-continued

- PI 505138 donor id: IFPI 2699. origin: UNKNOWN. other id: ILCA 5107. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102533. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505139 donor id: IFPI 2922. origin: Ethiopia. other id: ILCA 5108. source: ILCA, Addis Ababa, Ethiopia. other id: MG 103102. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505140 donor id: IFPI 3180. origin: UNKNOWN. other id: ILCA 5109. source: ILCA, Addis Ababa, Ethiopia. other id: MG 104105. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505141 donor id: IFPI 3185. origin: UNKNOWN. other id: ILCA 5110. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102275. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505142 donor id: IFPI 3190. origin: India. other id: ILCA 5111. source: ILCA, Addis Ababa, Ethiopia. other id: MG 103067. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505143 donor id: IFPI 3193. origin: UNKNOWN. other id: ILCA 5112. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102281. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505144 donor id: IFPI 3199. origin: Spain. other id: ILCA 5115. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102103. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505145 donor id: IFPI 3201. origin: Iran. other id: ILCA 5116. source: ILCA, Addis Ababa, Ethiopia. other id: MG 104335. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505146 donor id: IFPI 3202. origin: Iran. other id: ILCA 5117. source: ILCA, Addis Ababa, Ethiopia. other id: MG 104334. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505147 donor id: IFPI 3203. origin: UNKNOWN. other id: ILCA 5118. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102464. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505148 donor id: IFPI 3204. origin: UNKNOWN. other id: ILCA 5119. source: ILCA, Addis Ababa, Ethiopia. other id: MG 102461. source: Germplasm Institute, Bari, Italy. Seed.
- PI 505149 donor id: IFPI 3208. origin: Afghanistan. other id: ILCA 5120. source: ILCA, Addis Ababa, Ethiopia. other id: MG 104325. source: Germplasm Institute, Bari, Italy. remarks: Received as Pisum species. Seed.
- PI 505150 donor id: IFPI 3210. origin: UNKNOWN. Seed.

PI 505151. *Glycine argyrea* Tind. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505151 donor id: IL 768. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1420. locality: Cooloola National Park, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.

PI 505152 to 505160. *Glycine canescens* F. J. Herm. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505152 donor id: IL 665. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1235. locality: Simpson Desert, Northern Territory. Perennial. Wild. Seed.

PI 505153 donor id: IL 666. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1299. locality: Kings Park, Botanic Garden, Perth, Western Australia. Perennial. Wild. Seed.

PI 505154 donor id: IL 667. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1340. locality: Murray Downs Station, Northern Territory. remarks: Chromosome number 40. Perennial. Wild. Seed.

PI 505155 donor id: IL 668. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1341. locality: 30km south of Alice Springs, Northern Territory. Perennial. Wild. Seed.

PI 505156 donor id: IL 669. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1342. locality: Alice Springs, Northern Territory. Perennial. Wild. Seed.

PI 505157 donor id: IL 670. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1470. collector: R. Pullen. collector id: P16038. locality: Stanley Chasm, 50km west of Alice Springs, Northern Territory. remarks: Chromosome number 40. Perennial. Wild. Seed.

PI 505152 to 505160-continued

- PI 505158 donor id: IL 671. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1471. collector: R. Pullen. collector id: P16039. locality: Jay Creek, 10km south of Stanley Chasm (which is 50km west of Alice Springs), Northern Territory. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505159 donor id: IL 672. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1472. collector: R. Pullen. collector id: P16040. locality: Jay Creek, 10km south of Stanley Chasm, 50km west of Alice Springs, Northern Territory. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505160 donor id: IL 690. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1473. locality: Ayers Rock, Northern Territory. Perennial. Wild. Seed.

PI 505161 to 505163. *Glycine clandestina* Wendl. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

- PI 505161 donor id: IL 661. origin: Australia. origin institute: Latrobe University, Bundoora, Victoria 3083. collected: January 07, 1982. collector: N.H. Scarlett. collector id: N.H. Scarlett 82-8. locality: 36m north of Carmanuel Creek Bridge, west of Timor-Dunolly Road, Victoria. latitude: 36 deg. 60 min. S. longitude: 143 deg. 42 min. W. elevation: 180m. remarks: Growing in *Eucalyptus camaldulensis* open forest on hard setting silty loam. Site flooded annually. Chromosome number 40. Perennial. Wild. Seed.
- PI 505162 donor id: IL 673. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1356. locality: Kelso, Tasmania. Perennial. Wild. Seed.
- PI 505163 donor id: IL 727. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1826. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0489A. locality: Gravel pit, south side of Dingo Beach rising to open woodland, Queensland. remarks: Leaves long. Chromosome number 40. Perennial. Wild. Seed.

PI 505164 to 505167. *Glycine curvata* Ined. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505164 donor id: IL 789. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1848. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0449C. locality: Red Bank Creek, 3.3km west of Greenvale, Queensland. Perennial. Wild. Seed.

PI 505165 donor id: IL 790. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1847. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0440B. locality: Jump-up area, 11km from Mareeba towards Atherton, Queensland. Perennial. Wild. Seed.

PI 505166 donor id: IL 791. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1849. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0460. locality: 30.5km east of Pentland towards Charters Towers, Queensland. Perennial. Wild. Seed.

PI 505167 donor id: IL 793. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1846. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0417B. locality: Jump-up area, Weipa, Queensland. Perennial. Wild. Seed.

PI 505168 to 505178. *Glycine cyrtoloba* Tind. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505168 donor id: IL 729. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1836. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0483B. locality: Ten Mile Creek, 11.5km from Longford Creek, north of Proserpine, Queensland. Perennial. Wild. Seed.

PI 505169 donor id: IL 730. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1837. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0485B. locality: South Molle Island, path to Paddle Bay, Queensland. Perennial. Wild. Seed.

PI 505168 to 505178-continued

- PI 505170 donor id: IL 731. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1840. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0492. locality: 5km from Earlando towards Proserpine, Dingo Beach Road, Queensland. Perennial. Wild. Seed.
- PI 505171 donor id: IL 732. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1841. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0494B. locality: Cattle Vale, Mares Nest Creek, Queensland. Perennial. Wild. Seed.
- PI 505172 donor id: IL 745. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1842. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0497. locality: Plantation Creek, 11km from Bloomsbury toward Proserpine, on hillside in open woodland, Queensland. Perennial. Wild. Seed.
- PI 505173 donor id: IL 762. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1838. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0487B. locality: South Molle Island, open woodland behind golf course, Queensland. Perennial. Wild. Seed.
- PI 505174 donor id: IL 779. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1832. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0441. locality: Wongabel, 10km southwest of Atherton, Queensland. Perennial. Wild. Seed.
- PI 505175 donor id: IL 780. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1833. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0442C. locality: 9km from Petford turnoff to Ravenshoe, Queensland. Perennial. Wild. Seed.
- PI 505176 donor id: IL 781. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1834. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0452B. locality: 6.3km from Gum Swamp Bore, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505177 donor id: IL 783. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1839. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0489C. locality: Gravel Pit, south of Dingo Beach in open woodland, Queensland. Perennial. Wild. Seed.

PI 505168 to 505178-continued

PI 505178 donor id: IL 784. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1835. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0474C. locality: Beach gully, 5.4km from Bruce Hwy in Mt. Elliott National Park, Queensland. Perennial. Wild. Seed.

PI 505179 to 505180. *Glycine falcata* Benth. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505179 donor id: IL 674. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1155. locality: Lanogan, Tambo, 144km north of Charleville, Queensland. Perennial. Wild. Seed.

PI 505180 donor id: IL 728. origin: Australia. origin institute: CSIRO, Canberra. locality: Roadside, near Bore, 22km east of Hughendon, Queensland. Perennial. Wild. Seed.

PI 505181. *Glycine latifolia* (Benth.) C. Newell & Hymowitz FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505181 donor id: IL 777. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1827. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0493C. locality: Vine Creek, 3.7km south of Earlando turnoff, Queensland. Perennial. Wild. Seed.

PI 505182 to 505187. *Glycine latrobeana* (Meissner) Benth. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

PI 505182 donor id: IL 675. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1384. locality: Cobra Killuc, Wild Life Reserve, 4km northwest of Hescham, Victoria. Perennial. Wild. Seed.

PI 505183 donor id: IL 676. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1385. locality: Inverleigh Common, 3.5km northwest of Inverleigh, Victoria. Perennial. Wild. Seed.

PI 505182 to 505187-continued

- PI 505184 donor id: IL 677. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1387. locality: Meruka Park, Montmorency, Victoria. Perennial. Wild. Seed.
- PI 505185 donor id: IL 684. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1388. locality: Stockers Bottom, southeast of Ross, Tasmania. Perennial. Wild. Seed.
- PI 505186 donor id: IL 685. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1383. locality: 11.2km west of Cherrypool-Horsham Road, Victoria. Perennial. Wild. Seed.
- PI 505187 donor id: IL 686. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1389. locality: Ragoon of Islands, Tasmania. Perennial. Wild. Seed.

PI 505188 to 505200. *Glycine tabacina* (Labill.) Benth. FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

- PI 505188 donor id: IL 678. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1272. locality: Bunya Mountain, Dalby, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505189 donor id: IL 679. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1273. locality: Adjacent to Long Pocket Laboratories, Indooroopilly, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505190 donor id: IL 680. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1546. locality: Redland Bay, Queensland. Perennial. Wild. Seed.
- PI 505191 donor id: IL 682. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1555. locality: Yen Yean Reservoir, Victoria. Perennial. Wild. Seed.
- PI 505192 donor id: IL 687. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1547. locality: Corner of Anzac Street and Marine Avenue, Redcliffe, Queensland. Perennial. Wild. Seed.

PI 505188 to 505200-continued

- PI 505193 donor id: IL 688. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1544. locality: 3km south of Tambourine Mountain, Turen, Pacific Hwy, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505194 donor id: IL 691. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1536. locality: Ipswich, Toowomba Road, 2km Brisbane side of Muirlea, Queensland. Perennial. Wild. Seed.
- PI 505195 donor id: IL 724. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1828. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0417A. locality: Jump-up site, Weipa, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505196 donor id: IL 725. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1830. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0443. locality: 5.4km from road junction (Evelyn) towards Tumoulin, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505197 donor id: IL 726. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1831. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0493A. locality: Vine Creek, 3.7km south of Earlando turnoff, Queensland. Perennial. Wild. Seed.
- PI 505198 donor id: IL 778. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1829. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0442B. locality: 9km from Petford turn to Ravenshoe, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505199 donor id: IL 782. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1843. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0452C. locality: 6.3km from Gum Swamp Bore, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505200 donor id: IL 785. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1925. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0453B. locality: Pine Tree Creek, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304. *Glycine tomentella* Hayata FABACEAE

Donated by Hymowitz, T., Department of Agronomy, University of Illinois, 1102 South Goodwin Ave., Turner Hall, Urbana, Illinois, United States. Received October 20, 1986.

- PI 505201 **donor id:** IL 572. **origin:** Australia. **origin institute:** CSIRO, Canberra. **locality:** Basaltic soil, 50km southwest of Mt. Garnet, North Queensland. **remarks:** Chromosome number 80. Perennial. Wild. Seed.
- PI 505202 **donor id:** IL 681. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1304. **locality:** Stuart Hwy, 135km south of Darwin, south of Adelaide River, Township, Northern Territory. Perennial. Wild. Seed.
- PI 505203 **donor id:** IL 683. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1303. **locality:** Stonewall Creek, via Kununurra, Western Australia. Perennial. Wild. Seed.
- PI 505204 **donor id:** IL 689. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1305. **locality:** Carlton Station, Kununurra, Western Australia. Perennial. Wild. Seed.
- PI 505205 **donor id:** IL 692. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1754. **collector:** A. Brown, J. Grace, T. Hymowitz. **collector id:** BGH 0423. **locality:** Blue Water Creek, 34km north of Townsville, Queensland. Perennial. Wild. Seed.
- PI 505206 **donor id:** IL 693. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1756. **collector:** A. Brown, J. Grace, T. Hymowitz. **collector id:** BGH 0425. **locality:** Cardwell Gap, 18.4km north of Ingham, Queensland. Perennial. Wild. Seed.
- PI 505207 **donor id:** IL 694. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1757. **collector:** A. Brown, J. Grace, T. Hymowitz. **collector id:** BGH 0426. **locality:** Porter Creek, 29km north of Ingham, Queensland. **remarks:** Chromosome number 78. Perennial. Wild. Seed.
- PI 505208 **donor id:** IL 695. **origin:** Australia. **origin institute:** CSIRO, Canberra. **origin institute id:** G 1761. **collector:** A. Brown, J. Grace, T. Hymowitz. **collector id:** BGH 0430. **locality:** North of Wangetti, 6.2km south of Oak Beach, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505209 donor id: IL 696. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1764. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0434A. locality: Cooktown Airport, Queensland. Perennial. Wild. Seed.
- PI 505210 donor id: IL 697. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1765. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0434B. locality: Cooktown Airport, Queensland. Perennial. Wild. Seed.
- PI 505211 donor id: IL 698. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1775. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0449A. locality: Red Bank Creek, 3.3km west of Greenvale, Queensland. Perennial. Wild. Seed.
- PI 505212 donor id: IL 699. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1798. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0474. locality: Mt. Elliot National Park, Black Gully, 5.5km from Bruch Hwy, Queensland. Perennial. Wild. Seed.
- PI 505213 donor id: IL 700. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1806. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0481. locality: Bowen-Queens Beach Water Tower, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505214 donor id: IL 701. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1809. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0484. locality: Daydream Island (West Molle Island), behind resort on sheltered lawn, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505215 donor id: IL 702. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1810. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0485. locality: South Molle Island, path to Paddle Bay, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505216 donor id: IL 703. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1811. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0487A. locality: South Molle Island, open woodland behind golf course, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505217 donor id: IL 704. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1815. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0491. locality: Earlando Beach Resort, growing on grassy bank behind cabins, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505218 donor id: IL 705. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1818. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0494. locality: Cattle Vale - Mare's Nest Creek, southwest of Proserpine, Queensland. Perennial. Wild. Seed.
- PI 505219 donor id: IL 706. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1751. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0420. locality: Lockhart River Airport #2, end of runway, Queensland. Perennial. Wild. Seed.
- PI 505220 donor id: IL 707. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1753. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0422. locality: Castle Hill up behind Flinders Street, Townsville, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505221 donor id: IL 708. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1755. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0424. locality: Balgal Beach, north of Townsville, Queensland. Perennial. Wild. Seed.
- PI 505222 donor id: IL 709. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1749. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0418. locality: Lockhart River Airport #1, near terminal, Queensland. remarks: Chromosome number 40. Perennial. Wild. Seed.
- PI 505223 donor id: IL 710. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1763. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0433. locality: Finch Bay, east of Cooktown, top of sand dune, Queensland. Perennial. Wild. Seed.
- PI 505224 donor id: IL 711. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1769. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0440A. locality: Jump-up area, 11km from Mareeba towards Atherton, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505225 donor id: IL 712. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1771. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0444. locality: Return Creek Bridge, Mt. Garnet, Queensland. Perennial. Wild. Seed.
- PI 505226 donor id: IL 713. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1772. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0445. locality: Near Wyndolle turn, 65km south of Georgetown, Mt. Surprise turn, Queensland. Perennial. Wild. Seed.
- PI 505227 donor id: IL 714. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1787. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0462. locality: Plum Tree Creek, 9km northeast of Charters Towers, Queensland. Perennial. Wild. Seed.
- PI 505228 donor id: IL 715. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1796. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0472. locality: Picnic Bay, Magnetic Island, west end of beach, Queensland. Perennial. Wild. Seed.
- PI 505229 donor id: IL 716. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1799. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0474B. locality: Black Gully, 5.5km from Bruce Hwy, Mt. Elliot National Park, Queensland. Perennial. Wild. Seed.
- PI 505230 donor id: IL 717. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1805. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0480. locality: Queens Beach, top of sand dune, Queensland. Perennial. Wild. Seed.
- PI 505231 donor id: IL 718. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1808. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0483A. locality: Ten Mile Creek, 11.5km from Longford Creek, north of Proserpine, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505232 donor id: IL 719. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1814. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0490. locality: 9km from Dingo Beach towards Proserpine, near creek and grid, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505233 donor id: IL 720. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1819. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0495. locality: Midge Point, on lawn behind beach, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505234 donor id: IL 721. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1820. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0496. locality: 7km from Midge Point towards Bloomsbury, Queensland. Perennial. Wild. Seed.
- PI 505235 donor id: IL 722. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1822. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0499. locality: Proserpine Airport, roadside and open mower grassland in front of aero club and Avis shed, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505236 donor id: IL 723. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1823. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0500. locality: Immediate surroundings of Proserpine Airport, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505237 donor id: IL 733. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1762. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0431. locality: Reedy St. George Creek, second crossing, 144.5km north of Yule Point, Queensland. Perennial. Wild. Seed.
- PI 505238 donor id: IL 734. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1788. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0463. locality: Banks of Burdekin River, 20km from Charters Towers, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505239 donor id: IL 735. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1781. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0454. locality: Porcupine Creek, 36km from Hughendon, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505240 donor id: IL 736. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1766. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0435. locality: East side of Annan River, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505241 donor id: IL 737. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1767. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0436. locality: East side of Palmer River, Queensland. Perennial. Wild. Seed.
- PI 505242 donor id: IL 738. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1768. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0439. locality: Road cutting between Mary Creek and Mount Molloy, 4km from Mt. Molloy. Perennial. Wild. Seed.
- PI 505243 donor id: IL 739. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1770. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0442A. locality: 9km from Petford turn to Ravenshoe, Queensland. Perennial. Wild. Seed.
- PI 505244 donor id: IL 740. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1804. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0479. locality: Banks of Magnetic Creek, north of Bowen, Queensland. Perennial. Wild. Seed.
- PI 505245 donor id: IL 741. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1803. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0478. locality: Maiden Mountain, 12.1km east of Elliot River, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505246 donor id: IL 742. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1776. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0449B. locality: Red Bank Creek, 3.3km west of Greenvale, Queensland. Perennial. Wild. Seed.
- PI 505247 donor id: IL 743. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1774. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0448. locality: Greenvale Township culvert and drain across from pub, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505248 donor id: IL 744. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1773. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0446. locality: 19km from Lynd Junction towards Greenvale, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505249 donor id: IL 746. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1792. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0467. locality: Horseshoe Bay, Magnetic Island, near drive-in theater, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505250 donor id: IL 747. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1790. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0465. locality: Reid River, 8.4km west of Deadmans Gully, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505251 donor id: IL 748. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1813. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0489B. locality: Gravel Pit, south of Dingo Beach, Queensland. Perennial. Wild. Seed.
- PI 505252 donor id: IL 749. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1777. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0450. locality: Oasis Cafe and Petrol Stop, west of Lynd Junction, Queensland. Perennial. Wild. Seed.
- PI 505253 donor id: IL 750. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1744. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0411. locality: Between False Pera Head and Aurukum via A. Morton, Comalco, Weipa, Queensland. Perennial. Wild. Seed.
- PI 505254 donor id: IL 751. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1760. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0429. locality: Kunanda Railway Station, on bank in car park, Queensland. Perennial. Wild. Seed.
- PI 505255 donor id: IL 752. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1788. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0451. locality: Einasleigh River, near Lyndhurst, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505256 donor id: IL 753. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1817. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0493B. locality: Vine Creek, 3.7km south of Earlando turnoff, Queensland. remarks: Chromosome number 80. Perennial. Wild. Seed.
- PI 505257 donor id: IL 754. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1795. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0470. locality: Roadside bluff on south side of Arcadia Beach, Magnetic Island, Queensland. Perennial. Wild. Seed.
- PI 505258 donor id: IL 755. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1794. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0469. locality: Alma Beach, Horseshoe Bay, Magnetic Island, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505259 donor id: IL 756. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1748. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0416. locality: Along creek, Weipa, Queensland. Perennial. Wild. Seed.
- PI 505260 donor id: IL 757. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1746. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0414. locality: Running Creek, northeast of Weipa, Queensland. Perennial. Wild. Seed.
- PI 505261 donor id: IL 758. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1801. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0476. locality: Lower slopes of Mt. Inkerman, 12.4km southeast of Home Hill, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505262 donor id: IL 759. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1797. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0473. locality: Alligator Creek, 26km south of Townsville, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505263 donor id: IL 760. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1793. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0468. locality: Top of hill above Horseshoe Bay, Magnetic Island, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505264 donor id: IL 761. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1789. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0464. locality: Spring Creek, 50km from Charters Towers, Queensland. Perennial. Wild. Seed.
- PI 505265 donor id: IL 763. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1759. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0428. locality: South Mission Beach, east of Tuely, opposite Dunk Island, Queensland. Perennial. Wild. Seed.
- PI 505266 donor id: IL 764. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1758. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0427. locality: Mary Creek, 48km north of Ingham, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505267 donor id: IL 765. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1750. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0419. locality: Aylen Hills, Portland Road, north of Lockhart River, Queensland. Perennial. Wild. Seed.
- PI 505268 donor id: IL 766. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1779. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0452A. locality: 6.3km from Gum Swamp Bore, Queensland. Perennial. Wild. Seed.
- PI 505269 donor id: IL 767. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1802. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0477. locality: Upstart Bay, Beach Mount Road, south of Ayr, Queensland. Perennial. Wild. Seed.
- PI 505270 donor id: IL 769. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1747. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0415. locality: Between Running Creek and Along Creek, Weipa, Queensland. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505271 donor id: IL 770. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1752. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0421. locality: Weipa Airport, outside Flight Service, Weipa, Queensland. Perennial. Wild. Seed.
- PI 505272 donor id: IL 771. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1780. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0453A. locality: Pine Tree Creek, Queensland. Perennial. Wild. Seed.
- PI 505273 donor id: IL 772. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1782. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0457. locality: Bullock Creek, 23.8km east of Prairie, Queensland. remarks: Chromosome number 78. Perennial. Wild. Seed.
- PI 505274 donor id: IL 773. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1785. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0461. locality: Among flowering Acacias, 28.7km east of Homestead, Queensland. Perennial. Wild. Seed.
- PI 505275 donor id: IL 774. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1791. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0466. locality: Horseshoe Bay, Magnetic Island, Queensland. Perennial. Wild. Seed.
- PI 505276 donor id: IL 775. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1800. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0475. locality: Sand dunes, Alva Beach, Queensland. Perennial. Wild. Seed.
- PI 505277 donor id: IL 776. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1812. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0488. locality: Fence around houses and in open grasslands, Dingo Beach, Queensland. Perennial. Wild. Seed.
- PI 505278 donor id: IL 786. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1845. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0489D. locality: Gravel Pit, south of Dingo Beach, Queensland. remarks: Different form of G. tomentella from G 1813 (IL 748B). Chromosome number 80. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505279 donor id: IL 787. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1783. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0458. locality: Torrens Creek, east of Prairie, Queensland. Perennial. Wild. Seed.
- PI 505280 donor id: IL 788. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1784. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0459. locality: 7.4km west of Pentland, 136.5km east of Hughenden, Queensland. Perennial. Wild. Seed.
- PI 505281 donor id: IL 792. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1844. collector: A. Brown, J. Grace, T. Hymowitz. collector id: BGH 0432. locality: Lawn outside Lakelands Hotel, Queensland. Perennial. Wild. Seed.
- PI 505282 donor id: IL 794. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1930. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0317. locality: 12km south of Timber Creek Police Station, Northern Territory. Perennial. Wild. Seed.
- PI 505283 donor id: IL 795. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1934. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0324. locality: Russ Creek, Western Australia. Perennial. Wild. Seed.
- PI 505284 donor id: IL 796. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1946. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0343A. locality: 32km from Wyndam to Kununurra at Grotto Creek, Western Australia. Perennial. Wild. Seed.
- PI 505285 donor id: IL 797. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1955. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0355. locality: Edith River Falls along Sandy Creek, Northern Territory. Perennial. Wild. Seed.
- PI 505286 donor id: IL 798. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1945. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0342. locality: Ord River, 100km north northeast of Halls Creek on Great Northern Highway, Western Australia. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505287 donor id: IL 799. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1954. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0354. locality: King River, 34km southwest of Katherine, Northern Territory. Perennial. Wild. Seed.
- PI 505288 donor id: IL 800. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1953. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0353. locality: Timber Creek, access road from Wayside Inn, Northern Territory. Perennial. Wild. Seed.
- PI 505289 donor id: IL 801. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1942. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0337. locality: Barnett River, Western Australia. Perennial. Wild. Seed.
- PI 505290 donor id: IL 802. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1940. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0334. locality: King Edward River, on western banks, Western Australia. Perennial. Wild. Seed.
- PI 505291 donor id: IL 803. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1951. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0348. locality: Thompson Springs, 6.5km from highway and Golden Gate Creek, Western Australia. Perennial. Wild. Seed.
- PI 505292 donor id: IL 804. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1950. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0347. locality: Granite Creek, 4km south of Stonewall Creek on Lake Argyle Road, Western Australia. Perennial. Wild. Seed.
- PI 505293 donor id: IL 805. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1949. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0346. locality: Weaber Range, Western Australia. remarks: Narrow leaf type. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505294 donor id: IL 806. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1943. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0338A. locality: Bell Creek, 90km west of Barnett River, Western Australia. Perennial. Wild. Seed.
- PI 505295 donor id: IL 807. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1932. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0322. locality: Jack's Hole, Durack River, Western Australia. Perennial. Wild. Seed.
- PI 505296 donor id: IL 808. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1931. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0320. locality: 22km from Kimberley Res. Sta., towards Carlton Hill Station, growing in experimental enclosure, Western Australia. remarks: Narrow leaf type. Perennial. Wild. Seed.
- PI 505297 donor id: IL 809. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1928. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0315. locality: Manton River, 65km south of Darwin, Northern Territory. Perennial. Wild. Seed.
- PI 505298 donor id: IL 810. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1935. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0325. locality: Gibb River, western side of crossing, Western Australia. Perennial. Wild. Seed.
- PI 505299 donor id: IL 811. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1939. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0331. locality: Near creek, 0.5km north of Amax Camp, Mitchell Plateau, Western Australia. Perennial. Wild. Seed.
- PI 505300 donor id: IL 812. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1941. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0335. locality: Hann River, between river and campsite, Western Australia. Perennial. Wild. Seed.

PI 505201 to 505304-continued

- PI 505301 donor id: IL 813. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1943. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0338B. locality: Bell Creek, 90km west of Barnett River, Western Australia. Perennial. Wild. Seed.
- PI 505302 donor id: IL 814. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1944. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0339. locality: Lennard River, on lush bank growing in washaway, Western Australia. Perennial. Wild. Seed.
- PI 505303 donor id: IL 815. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 1948. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0345. locality: Outside fence, east margin of Ord River Football Club ground, Kununurra, Western Australia. Perennial. Wild. Seed.
- PI 505304 donor id: IL 816. origin: Australia. origin institute: CSIRO, Canberra. origin institute id: G 2059. collector: A. Brown, J. Grace, L. Craven, T. Hymowitz. collector id: BGCH 0343B. locality: 32km from Wyndham to Kununurra at Grotto Creek, Western Australia. Perennial. Wild. Seed.

PI 505305 to 505353. *Lycopersicon lycopersicum* (L.) Karsten SOLANACEAE
Tomato

Donated by Holle, M., CIAT, Cali, Colombia. Received November 1986.

- PI 505305 origin: Colombia. cultivar: 899-Chonto I. other id: Ames 2579. remarks: Originally from Ferry Morse, US. Cultivar. Seed.
- PI 505306 origin: Colombia. cultivar: 900-Chonto II. other id: Ames 2580. remarks: Originally from Ferry Morse, US. Cultivar. Seed.
- PI 505307 origin: Colombia. cultivar: 1080-Chonto 2 (1-2-5). other id: Ames 2582. locality: Tulua, Valle. Cultivar. Seed.
- PI 505308 origin: Colombia. cultivar: 1081-Chonto 3 (2-3-3). other id: Ames 2583. locality: Palmira, Valle. Cultivar. Seed.

PI 505305 to 505353-continued

- PI 505309 origin: Colombia. cultivar: 1082-Chonto 4 (80102).
other id: Ames 2584. locality: Palmira, Valle.
Cultivar. Seed.
- PI 505310 origin: Colombia. cultivar: 1083-Chonto 5 (Tipo D).
other id: Ames 2585. locality: Antioquia. Cultivar.
Seed.
- PI 505311 origin: Colombia. cultivar: 1084-Chonto 6. other id:
Ames 2586. locality: Restrepo, Valle. Cultivar. Seed.
- PI 505312 origin: Colombia. cultivar: 1085-Chonto 7. other id:
Ames 2587. locality: Palmira, Valle. Cultivar. Seed.
- PI 505313 origin: Colombia. cultivar: 1086-Chonto 9 Injerto
(2-9-8). other id: Ames 2588. locality: Florida, Valle.
Cultivar. Seed.
- PI 505314 origin: Colombia. cultivar: 1087-Chonto 11 Indio
(2-11-4). other id: Ames 2589. locality: Tulua, Valle.
Cultivar. Seed.
- PI 505315 origin: Colombia. cultivar: 1088-Chonto 12 (2-12-6).
other id: Ames 2590. locality: Restrepo, Valle.
Cultivar. Seed.
- PI 505316 origin: Colombia. cultivar: 1089-Chonto 13. other id:
Ames 2591. locality: Tulua, Valle. Cultivar. Seed.
- PI 505317 origin: Colombia. cultivar: 1091-Chonto 21 (Mataverde)
(3-21-2). other id: Ames 2593. locality: Florida,
Valle. Cultivar. Seed.
- PI 505318 origin: Colombia. cultivar: 1163-Chonto 8 (Injerto).
other id: Ames 2594. locality: Toro, Valle. Cultivar.
Seed.
- PI 505319 origin: Colombia. cultivar: 1164-Chonto 10 (Negro)
(1-10-2). other id: Ames 2595. locality: Buga, Valle.
Cultivar. Seed.
- PI 505320 origin: Colombia. cultivar: 1171-Linea 18. other id:
Ames 2596. locality: Tulio Ospina. Cultivar. Seed.
- PI 505321 origin: Colombia. cultivar: 1249-Chonto 14 (2-14-4)
Guacari. other id: Ames 2597. locality: Valle.
Cultivar. Seed.
- PI 505322 origin: Colombia. cultivar: 1250-Chonto 15 (7-15-3).
other id: Ames 2598. locality: La Cumbre, Valle.
Cultivar. Seed.

PI 505305 to 505353-continued

- PI 505323 **origin:** Colombia. **cultivar:** 1251-Chonto 16 (2-16-5).
other id: Ames 2599. **locality:** Auji, Valle. **Cultivar.**
Seed.
- PI 505324 **origin:** Colombia. **cultivar:** 1252-Chonto 17 (15-22A)
Licato. **other id:** Ames 2600. **locality:** Medellin,
Antioquia. **Cultivar.** **Seed.**
- PI 505325 **origin:** Colombia. **cultivar:** 1253-Chonto 19. **other id:**
Ames 2601. **locality:** Dagua, Valle. **Cultivar.** **Seed.**
- PI 505326 **origin:** Colombia. **cultivar:** 1254-Chonto 20 (1-20-3).
other id: Ames 2602. **locality:** Palmira, Valle.
Cultivar. **Seed.**
- PI 505327 **origin:** Colombia. **cultivar:** 1256-Chonto 23 (8003) Indio.
other id: Ames 2604. **locality:** Tulua, Valle. **Cultivar.**
Seed.
- PI 505328 **origin:** Colombia. **cultivar:** 1257-Chonto 24 (2-24-3)
Indio. **other id:** Ames 2605. **locality:** Tulua, Valle.
Cultivar. **Seed.**
- PI 505329 **origin:** Colombia. **cultivar:** 1258 Chonto 25 (2-25-8)
Mataverde. **other id:** Ames 2606. **locality:** Florida,
Valle. **Cultivar.** **Seed.**
- PI 505330 **origin:** Colombia. **cultivar:** 1259-Chonto 26 (2-25-3).
other id: Ames 2607. **locality:** Bugalagrande, Valle.
Cultivar. **Seed.**
- PI 505331 **origin:** Colombia. **cultivar:** 1260-Chonto 27 (2-27).
other id: Ames 2608. **locality:** Restrepo, Valle.
Cultivar. **Seed.**
- PI 505332 **origin:** Colombia. **cultivar:** 1261-Chonto 28 (1-28-4)
Injerto. **other id:** Ames 2609. **locality:** Toro, Valle.
Cultivar. **Seed.**
- PI 505333 **origin:** Colombia. **cultivar:** 1262-Chonto 29 Centro.
other id: Ames 2610. **locality:** Palmira (Est. Exp.),
Valle. **Cultivar.** **Seed.**
- PI 505334 **origin:** Colombia. **cultivar:** 1263-Chonto 30 Negro. **other**
id: Ames 2611. **locality:** Bugalagrande, Valle. **Cultivar.**
Seed.
- PI 505335 **origin:** Colombia. **cultivar:** 1307-Chonto. **other id:** Ames
2612. **locality:** Palmira, Valle. **Cultivar.** **Seed.**
- PI 505336 **origin:** Colombia. **cultivar:** 1341. **other id:** Ames 2613.
Cultivar. **Seed.**

PI 505305 to 505353-continued

- PI 505337 origin: Colombia. cultivar: 1344-Chonto 31 (Costeno) (2-31-4). other id: Ames 2614. locality: Tulua, Valle. Cultivar. Seed.
- PI 505338 origin: Colombia. cultivar: 1345-Chonto 32 (Supremo) (1-32-2A). other id: Ames 2615. locality: Palmira, Valle. Cultivar. Seed.
- PI 505339 origin: Colombia. cultivar: 1346-Chonto 33 (Alba) (3-33-10A). other id: Ames 2616. locality: Cali, Valle. Cultivar. Seed.
- PI 505340 origin: Colombia. cultivar: 1347-Chonto 34 (Alba) (1-34-5B). other id: Ames 2617. locality: Cali, Valle. Cultivar. Seed.
- PI 505341 origin: Colombia. cultivar: 1348-Chonto 35 (Brulin) (35-5B). other id: Ames 2618. locality: El Bolo, Valle. Cultivar. Seed.
- PI 505342 origin: Colombia. cultivar: 1349-Chonto 36 (Brulin). other id: Ames 2619. locality: El Bolo, Valle. Cultivar. Seed.
- PI 505343 origin: Colombia. cultivar: 1414-Chonto 38 (Rojo). other id: Ames 2620. locality: Palmira, Valle. Cultivar. Seed.
- PI 505344 origin: Colombia. cultivar: 1415-Chonto 39 (Huila). other id: Ames 2621. locality: Fusagasuga, Huila. Cultivar. Seed.
- PI 505345 origin: Colombia. cultivar: 1416-Chonto 40 (Gigante). other id: Ames 2622. locality: Palmira, Valle. Cultivar. Seed.
- PI 505346 origin: Colombia. cultivar: 1453-Chonto 41 (Ref. #1). other id: Ames 2623. locality: Santuario, Antioquia. Cultivar. Seed.
- PI 505347 origin: Colombia. cultivar: 1454-Chonto 42 (Ref. #2). other id: Ames 2624. locality: Santuario, Antioquia. Cultivar. Seed.
- PI 505348 origin: Colombia. cultivar: 1455-Chonto 43 (Ref. #3). other id: Ames 2625. locality: Santuario, Antioquia. Cultivar. Seed.
- PI 505349 origin: Colombia. cultivar: 1478-Chonto Amarillo. other id: Ames 2626. locality: Palmira (Est. Exp.), Valle. Cultivar. Seed.

PI 505305 to 505353-continued

- PI 505350 **origin:** Colombia. **cultivar:** 1507-Chonto Piquiverde.
other id: Ames 2627. **locality:** Restrepo: LaPlaya, Valle.
Cultivar. Seed.
- PI 505351 **origin:** Colombia. **cultivar:** 1509-Chonto 59. **other id:**
Ames 2628. **locality:** Sevilla, Valle. Cultivar. Seed.
- PI 505352 **origin:** Colombia. **cultivar:** 1510. **other id:** Ames 2629.
Cultivar. Seed.
- PI 505353 **origin:** Colombia. **cultivar:** 1514-Chonto Blanco 63.
other id: Ames 2630. **locality:** Rozo, Valle. Cultivar.
Seed.

PI 505354 to 505357. *Lycopersicon lycopersicum* (L.) Karsten SOLANACEAE
Tomato

Donated by U.S. Plant Introduction Station, 11601 George Palmer
Highway, Glenn Dale, Maryland, United States. Received November
1986.

- PI 505354 **donor id:** B57134. **origin:** UNKNOWN. **cultivar:** Porte.
other id: Ames 2679. Cultivar. Seed.
- PI 505355 **donor id:** B57135. **origin:** UNKNOWN. **cultivar:** B96.
other id: Ames 2680. Cultivar. Seed.
- PI 505356 **donor id:** B57136. **origin:** Colombia. **other id:** Ames
2681. Seed.
- PI 505357 **donor id:** B53166. **origin:** UNKNOWN. **cultivar:** Snowball.
other id: Ames 2682. Cultivar. Seed.

PI 505358 to 505408. *Oryza sativa* L. POACEAE Rice

Donated by Groth, D.E., Rice Research Station, Louisiana State
University, P.O. Box 1429, Crowley, Louisiana, United States.
Received November 18, 1986.

- PI 505358 **donor id:** DG840017. **origin:** China, Peoples Repub of.
origin institute: CNRRI. **cultivar:** Zao Hua Aiu.
remarks: Grain type medium. Cultivar. Seed.
- PI 505359 **donor id:** DG840019. **origin:** China, Peoples Repub of.
origin institute: CNRRI. **cultivar:** Wan Xian (9Hao)#9.
remarks: Grain type medium. Cultivar. Seed.
- PI 505360 **donor id:** DG850261. **origin:** Colombia. **origin institute:**
CIAT, Cali. **pedigree:** 19971 4440//Bg90-2K8. **remarks:**
Grain type long. Breeding Material. Seed.

PI 505358 to 505408-continued

- PI 505361 donor id: DG850262. origin: China, Peoples Repub of.
origin institute: CNRRI. remarks: Grain type medium.
Cultivated. Seed.
- PI 505362 donor id: DG850263. origin: China, Peoples Repub of.
origin institute: CNRRI. cultivar: Shuan Nong 422.
remarks: Grain type medium. Cultivar. Seed.
- PI 505363 donor id: DG850265. origin: China, Peoples Repub of.
origin institute: CNRRI. cultivar: Luo ham gu. remarks:
Grain type medium. Cultivar. Seed.
- PI 505364 donor id: DG850267. origin: China, Peoples Repub of.
origin institute: CNRRI. cultivar: Shuang Xu gu.
remarks: Grain type medium. Cultivar. Seed.
- PI 505365 donor id: DG850270. origin: China, Peoples Repub of.
origin institute: CNRRI. cultivar: La Cheag ll.
remarks: Grain type medium. Cultivar. Seed.
- PI 505366 donor id: DG850271. origin: China, Peoples Repub of.
origin institute: CNRRI. cultivar: Quer Zi. remarks:
Grain type medium. Cultivar. Seed.
- PI 505367 donor id: DG850272. origin: Philippines. origin
institute: IRRI, Manila. origin institute id: IR
18348-36-3-3. remarks: Grain type long. Breeding
Material. Seed.
- PI 505368 donor id: DG850273. origin: Philippines. origin
institute: IRRI, Manila. origin institute id: IR
18350-229-3. remarks: Grain type long. Breeding
Material. Seed.
- PI 505369 donor id: DG850274. origin: Philippines. origin
institute: IRRI, Manila. origin institute id: IR
24632-34-2. remarks: Grain type long. Breeding
Material. Seed.
- PI 505370 donor id: DG850275. origin: Philippines. origin
institute: IRRI, Manila. origin institute id: IR
25588-7-3-1. remarks: Grain type long. Breeding
Material. Seed.
- PI 505371 donor id: DG850276. origin: Philippines. origin
institute: IRRI, Manila. origin institute id: IR
25621-135-1-1. remarks: Grain type long. Breeding
Material. Seed.

PI 505358 to 505408-continued

- PI 505372 donor id: DG850277. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 25840-83-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505373 donor id: DG850278. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28128-45-3-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505374 donor id: DG850279. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28238-109-1-3-2-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505375 donor id: DG850280. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28239-94-2-3-6-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505376 donor id: DG850281. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29670-15-2-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505377 donor id: DG850282. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29692-9-1-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505378 donor id: DG850283. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29692-14-1-1-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505379 donor id: DG850284. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29692-65-2-3-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505380 donor id: DG850285. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29692-94-2-1-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505381 donor id: DG850286. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29708-23-1-2-2. remarks: Grain type long. Breeding Material. Seed.

PI 505358 to 505408-continued

- PI 505382 donor id: DG850287. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29708-41-2-2-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505383 donor id: DG850288. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29708-113-3-2-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505384 donor id: DG850289. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29725-3-1-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505385 donor id: DG850290. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29725-22-3-3-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505386 donor id: DG850291. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31779-112-1-2-2-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505387 donor id: DG850292. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31802-48-2-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505388 donor id: DG850293. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31837-11-2-2-1-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505389 donor id: DG850294. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31851-63-1-2-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505390 donor id: DG850295. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31864-2-3-3-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505391 donor id: DG850296. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 32333-61-2-3-2. remarks: Grain type long. Breeding Material. Seed.

PI 505358 to 505408-continued

- PI 505392 donor id: DG850298. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 32358-122-2-1-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505393 donor id: DG850299. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 32429-47-3-3-2-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505394 donor id: DG850300. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 32429-115-3-2-1. remarks: Grain type long. Breeding Material. Seed.
- PI 505395 donor id: DG850301. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 34631-6-1-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505396 donor id: DG850302. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 34631-113-1-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505397 donor id: DG850304. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 34681-27-3-3-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505398 donor id: DG850305. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 35300-56-2-2-1. remarks: Grain type long. Breeding Material. Seed.
- PI 505399 donor id: DG850306. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 35311-96-3-2-1. remarks: Grain type long. Breeding Material. Seed.
- PI 505400 donor id: DG850307. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 39368-57-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505401 donor id: DG850308. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 21820-154-3-2-2-3. remarks: Grain type long. Breeding Material. Seed.

PI 505358 to 505408-continued

- PI 505402 donor id: DG850309. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 21848-65-3-2-2. Breeding Material. Seed.
- PI 505403 donor id: DG850310. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28153-10-3-1-3. remarks: Grain type long. Breeding Material. Seed.
- PI 505404 donor id: DG850311. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28183-2-2-1-1. remarks: Grain type long. Breeding Material. Seed.
- PI 505405 donor id: DG850312. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 28222-23-1-3-3-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505406 donor id: DG850313. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 29706-11-1-3-3. Breeding Material. Seed.
- PI 505407 donor id: DG850314. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 31916-17-2-1-2. remarks: Grain type long. Breeding Material. Seed.
- PI 505408 donor id: DG850315. origin: Philippines. origin institute: IRRI, Manila. origin institute id: IR 35353-94-2-1-3. remarks: Grain type long. Breeding Material. Seed.

PI 505409 to 505410. Lotus arenarius Brot. FABACEAE

Donated by Rumbaugh, M.D., Forage and Range Research, USDA-ARS, Utah State University, Logan, Utah, United States. Received October 1986.

- PI 505409 origin: Spain. collected: June 2, 1985. other id: JR-2. locality: Sand along beach and on dunes. Playa Santa Maria, El Puerto de Santa Maria, NE of Cadiz. elevation: 2-10m. remarks: Plant pubescent, early maturing. Annual. Wild. Seed.
- PI 505410 origin: Spain. collected: June 2, 1985. other id: JR-3. locality: Beach near Hotel Luta, Rota, north of Cadiz. elevation: 3m. remarks: Pods larger than those of PI (JR-2). Annual. Wild. Seed.

PI 505411. *Trifolium cherleri* L. FABACEAE

Donated by Rumbaugh, M.D., Forage and Range Research, USDA-ARS, Utah State University, Logan, Utah, United States. Received October 1986.

PI 505411 origin: Spain. collected: May 25, 1985. other id: JR-1.
locality: Along field road, Highway N-403, 4km NW of Maqueda, NW of Torrijos and Toledo. elevation: 530m.
remarks: Plants small, 7cm tall. Flowers white. Seeds white-yellow. Annual. Wild. Seed.

PI 505412. *Trifolium stellatum* L. FABACEAE Star clover

Donated by Rumbaugh, M.D., Forage and Range Research, USDA-ARS, Utah State University, Logan, Utah, United States. Received October 1986.

PI 505412 origin: Spain. collected: June 4, 1985. other id: JR-5.
locality: Roadside, Highway 343, Arcos de la Frontera, 31km NE of Jerez de la Frontera. elevation: 160m.
remarks: Plants typical of species. Annual. Wild. Seed.

PI 505413 to 505414. *Medicago arabica* (L.) Hudson FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505413 donor id: 32. origin: Spain. other id: JR-20. Annual. Wild. Seed.

PI 505414 donor id: 187. origin: Spain. other id: JR-24. Annual. Wild. Seed.

PI 505415 to 505416. *Medicago blanchiana* Boiss. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505415 donor id: 45. origin: Spain. other id: JR-7. Annual. Wild. Seed.

PI 505416 donor id: 66. origin: Spain. other id: JR-11. Annual. Wild. Seed.

PI 505417 to 505418. *Medicago disciformis* DC. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505417 donor id: 12G. origin: Spain. other id: JR-23. Annual. Breeding Material. Seed.

PI 505418 donor id: 13G. origin: Spain. other id: JR-30. Annual. Breeding Material. Seed.

PI 505419 to 505420. *Medicago doliata* Carmign. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received .

PI 505419 donor id: 4. origin: Spain. other id: JR-6. Annual. Wild. Seed.

PI 505420 donor id: CP-80. origin: Spain. other id: JR-15. Annual. Breeding Material. Seed.

PI 505421 to 505422. *Medicago minima* (L.) Bartal. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505421 donor id: FGM-19. origin: Spain. other id: JR-31. Annual. Breeding Material. Seed.

PI 505422 donor id: FGM-2. origin: Spain. other id: JR-33. Annual. Breeding Material. Seed.

PI 505423 to 505424. *Medicago murex* Willd. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505423 donor id: 70. origin: Spain. other id: JR-8. Annual. Wild. Seed.

PI 505424 donor id: CP-119. origin: Spain. other id: JR-18. Annual. Breeding Material. Seed.

PI 505425 to 505426. *Medicago orbicularis* (L.) Bartal. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505425 donor id: 62. origin: Spain. other id: JR-9. Annual. Wild. Seed.

PI 505426 donor id: GM-9. origin: Spain. other id: JR-29. Annual. Breeding Material. Seed.

PI 505427 to 505430. *Medicago polymorpha* L. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505427 donor id: MC-5. origin: Spain. other id: JR-10. Annual. Breeding Material. Seed.

PI 505428 donor id: CP-1. origin: Spain. other id: JR-12. Annual. Breeding Material. Seed.

PI 505429 donor id: FGM-7. origin: Spain. other id: JR-19. Annual. Breeding Material. Seed.

PI 505430 donor id: 21. origin: Spain. other id: JR-21. Annual. Wild. Seed.

PI 505431 to 505432. *Medicago rigidula* (L.) All. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505431 donor id: 13-G. origin: Spain. other id: JR-13. Annual. Breeding Material. Seed.

PI 505432 donor id: 4-6. origin: Spain. other id: JR-16. Annual. Breeding Material. Seed.

PI 505433 to 505434. *Medicago scutellata* (L.) Miller FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505433 to 505434-continued

PI 505433 donor id: 64. origin: Spain. other id: JR-14. Annual.
Wild. Seed.

PI 505434 origin: Spain. cultivar: Sava. other id: JR-25.
Annual. Cultivar. Seed.

PI 505435 to 505436. *Medicago tornata* (L.) Miller FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505435 origin: Spain. cultivar: Saleg. other id: JR-22.
Annual. Cultivar. Seed.

PI 505436 origin: Spain. cultivar: Tornafield. other id: JR-27.
Annual. Cultivar. Seed.

PI 505437 to 505438. *Medicago truncatula* Gaertner FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505437 donor id: 125. origin: Spain. other id: JR-28. Annual.
Wild. Seed.

PI 505438 donor id: 31-B. origin: Spain. other id: JR-32.
Annual. Breeding Material. Seed.

PI 505439 to 505440. *Medicago turbinata* (L.) All. FABACEAE

Donated by Moreno, Victor, Servicio de Investigacion Agraria, Finca la Orden, Apartado 22, Badajoz, Spain. Received through M.D. Rumbaugh and D.A. Johnson (JR numbers) USDA-ARS, Utah State Univ., Logan, Utah. Received October 1986.

PI 505439 donor id: FGM-66. origin: Spain. other id: JR-17.
Annual. Breeding Material. Seed.

PI 505440 donor id: 47. origin: Spain. other id: JR-26. Annual.
Wild. Seed.

PI 505441 to 505490. *Abelmoschus esculentus* (L.) Moench MALVACEAE
Okra

Donated by Perret, P.M., IBPGR, AGP Division, FAO, Via delle Terme di Caracala, 00100 Rome, Italy; and Clement, I., ORSTOM, 70-74 Route d'Aulnay, 93140 Bondy, France. Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 505441 donor id: 9. origin: Burkina Faso. local name: Atourim. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 9. locality: Sikine, Sahel Province. remarks: Foulse tribe. Annual. Cultivated. Seed.

PI 505442 donor id: 16. origin: Burkina Faso. local name: Lahague. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 16. locality: Sahel Province. Annual. Cultivated. Seed.

PI 505443 donor id: 19. origin: Burkina Faso. local name: Lahadji. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 19. locality: Sambagou, Sahel Province. remarks: Mossi garsi tribe. Annual. Cultivated. Seed.

PI 505444 donor id: 21. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 21. locality: Napsii, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505445 donor id: 24. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 24. locality: Diagoro, Centre Nord Province. remarks: Gourmantche and Peuhl tribes. Annual. Cultivated. Seed.

PI 505446 donor id: 26. origin: Burkina Faso. local name: Mani. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 26. locality: Koulla, Centre Nord Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.

PI 505447 donor id: 29. origin: Burkina Faso. local name: Laguei. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 29. locality: Bassebarabe, Sahel Province. remarks: Matoiube tribe. Annual. Cultivated. Seed.

PI 505441 to 505490-continued

- PI 505448 donor id: 35. origin: Burkina Faso. local name: Atone.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
35. locality: Dar Saalam, Sahel Province. remarks:
Foulse tribe. Annual. Cultivated. Seed.
- PI 505449 donor id: 37. origin: Burkina Faso. local name:
Manadie. collected: October 1981. collector: P.M.
Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere.
collector id: 37. locality: Baraboule, Sahel Province.
remarks: Peuhl Foulbe tribe. Annual. Cultivated. Seed.
- PI 505450 donor id: 40. origin: Burkina Faso. local name: Shouna.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
40. locality: Tibo, Nord Province. remarks: Mossi
Foulse tribe. Annual. Cultivated. Seed.
- PI 505451 donor id: 43. origin: Burkina Faso. local name: Porro.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
43. locality: Ban, Nord Province. remarks: Dogon tribe.
Annual. Cultivated. Seed.
- PI 505452 donor id: 46. origin: Burkina Faso. local name: Maana.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
46. locality: Bobe Mangao, Sahel Province. remarks:
Mossi tribe. Annual. Cultivated. Seed.
- PI 505453 donor id: 47. origin: Burkina Faso. local name: Maana.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
47. locality: Bolanga, Centre Nord Province. remarks:
Mossi tribe. Annual. Cultivated. Seed.
- PI 505454 donor id: 51. origin: Burkina Faso. local name: Maana.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
51. locality: Pogoro, Centre Nord Province. remarks:
Mossi tribe. Annual. Cultivated. Seed.
- PI 505455 donor id: 53. origin: Burkina Faso. local name: Maana.
collected: October 1981. collector: P.M. Perret, I.
Clement, R. Zangre, D. Zongo, and A. Kere. collector id:
53. locality: Tikare, Centre Nord Province. remarks:
Mossi tribe. Annual. Cultivated. Seed.

PI 505441 to 505490-continued

- PI 505456 donor id: 54. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 54. locality: Kongoussi, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505457 donor id: 56. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 56. locality: Mane, Sahel Province. remarks: Peuhl tribe. Annual. Cultivated. Seed.
- PI 505458 donor id: 57. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 57. locality: Boudtenga, Centre Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505459 donor id: 61. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 61. locality: Pouytenga, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505460 donor id: 63. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 63. locality: Between Boulga and Dargo, Sahel Province. Annual. Cultivated. Seed.
- PI 505461 donor id: 65. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 65. locality: Dargo, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505462 donor id: 67. origin: Burkina Faso. local name: Maani. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 67. locality: Bogande, 30km after Dargo, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505463 donor id: 69. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 69. locality: Nabougou, Est Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505441 to 505490-continued

- PI 505464 donor id: 73. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 73. locality: Tapoa, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505465 donor id: 75. origin: Burkina Faso. local name: Imaani. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 75. locality: Martiakoali, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505466 donor id: 79. origin: Burkina Faso. local name: Imaani. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 79. locality: Pama, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505467 donor id: 82. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 82. locality: Sanga, Centre Est Province. remarks: Mosi yala tribe. Annual. Cultivated. Seed.
- PI 505468 donor id: 85. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 85. locality: Duargaya, Centre Est Province. remarks: Mosi yala tribe. Annual. Cultivated. Seed.
- PI 505469 donor id: 88. origin: Burkina Faso. local name: Mouassa. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 88. locality: Boussoma, Centre Est Province. remarks: Bissa tribe. Annual. Cultivated. Seed.
- PI 505470 donor id: 89. origin: Burkina Faso. local name: Biokoul. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 89. locality: Boussoma, Centre Est Province. remarks: Bissa tribe. Annual. Cultivated. Seed.
- PI 505471 donor id: 91. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 91. locality: Manga, Centre Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

- PI 505472 donor id: 98. origin: Burkina Faso. local name: Pore. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 98. locality: Banou, Centre Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505473 donor id: 100. origin: Burkina Faso. local name: Pore. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 100. locality: Gadourou, Centre Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505474 donor id: 104. origin: Burkina Faso. local name: Douswen. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 104. locality: Koumbo, Centre Ouest Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505475 donor id: 119. origin: Burkina Faso. local name: Kounou. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 119. locality: Biba, Volta Noire Province. remarks: Samo tribe. Annual. Cultivated. Seed.
- PI 505476 donor id: 120. origin: Burkina Faso. local name: Kon. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 120. locality: Kouchiga, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505477 donor id: 125. origin: Burkina Faso. local name: Mamia. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 125. locality: Bonborokui, Volta Noire Province. remarks: Bobo tribe. Annual. Cultivated. Seed.
- PI 505478 donor id: 129. origin: Burkina Faso. local name: Kwon. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 129. locality: Feuna, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505479 donor id: 130. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 130. locality: Badale, Volta Noire Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505441 to 505490-continued

- PI 505480 donor id: 133. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 133. locality: Bekoui, Volta Noire Province. remarks: Bobo oule tribe. Annual. Cultivated. Seed.
- PI 505481 donor id: 135. origin: Burkina Faso. local name: Mambio. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 135. locality: Ouakoure, Volta Noire Province. remarks: Bobo oule tribe. Annual. Cultivated. Seed.
- PI 505482 donor id: 138. origin: Burkina Faso. local name: Coambio. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 138. locality: Mamou, Volta Noire Province. remarks: Bobola tribe. Annual. Cultivated. Seed.
- PI 505483 donor id: 139. origin: Burkina Faso. local name: Cuonde. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 139. locality: Ankasso, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505484 donor id: 143. origin: Burkina Faso. local name: Kopouele. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 143. locality: Tiogo, Centre Ouest Province. remarks: Gouronssi tribe. Annual. Cultivated. Seed.
- PI 505485 donor id: 145. origin: Burkina Faso. local name: Pouele. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 145. locality: Pouni Nord, Centre Ouest Province. remarks: Labe tribe. Annual. Cultivated. Seed.
- PI 505486 donor id: 146. origin: Burkina Faso. local name: Poueton. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 146. locality: Pouni Nord, Centre Ouest Province. remarks: Used for making sauce. Labe tribe. Annual. Cultivated. Seed.

PI 505441 to 505490-continued

PI 505487 donor id: 149. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 149. locality: Touessi, Centre Ouest Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505488 donor id: 151. origin: Burkina Faso. local name: Pore. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 151. locality: Dana, Centre Ouest Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.

PI 505489 donor id: 154. origin: Burkina Faso. local name: Posson. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 154. locality: Sissili, Centre Ouest Province. remarks: Precocious. Gourounssi tribe. Annual. Cultivated. Seed.

PI 505490 donor id: 155. origin: Burkina Faso. local name: Gapo. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 155. locality: Sissili, Centre Ouest Province. remarks: Late. Gourounssi tribe. Annual. Cultivated. Seed.

PI 505491. *Arachis hypogaea* L. FABACEAE Peanut

Donated by Perret, P.M., IBPGR, AGP Division, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy; and Clement, I., ORSTOM, 70-74 Route d'Aulnay, 93140 Bondy, France. Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 505491 donor id: 3. origin: Burkina Faso. local name: Sirkama. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 3. locality: Boala, Centre Noire Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505492 to 505550. *Zea mays* L. POACEAE Field corn

Donated by Perret, P.M., IBPGR, AGP Division, FAO, Via delle Terme di Caracalla, 00100 Rome, Italy; and Clement, I., ORSTOM, 70-74 Route d'Aulnay, 93140 Bondy, France. Received through IBPGR, Rome, Italy. Received August 19, 1983.

PI 505492 donor id: 1. origin: Burkina Faso. local name: Kamanda. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 1. locality: After Korsimono, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505492 to 505550-continued

- PI 505493 donor id: 2. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 2. locality: Boulsa Kologinsum, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505494 donor id: 4. origin: Burkina Faso. local name: Kamanda. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 4. locality: From Pissila, 13km before Barsalogo, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505495 donor id: 6. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 6. locality: Sompele, Centre Noire Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505496 donor id: 7. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 7. locality: Dablo, Centre Noire Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505497 donor id: 8. origin: Burkina Faso. local name: Kamande. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 8. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505498 donor id: 10. origin: Burkina Faso. local name: Kamande. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 10. locality: Sampelya, 35km after Dori, Sahel Province. remarks: Peuhl tribe. Annual. Cultivated. Seed.
- PI 505499 donor id: 11. origin: Burkina Faso. local name: Kamande. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 11. locality: Sabba, 20km after Sampelya, Sahel Province. remarks: Peuhl tribe. Annual. Cultivated. Seed.
- PI 505500 donor id: 13. origin: Burkina Faso. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 13. locality: Tonkogounadie, 20km after Sebba, Sahel Province. Annual. Cultivated. Seed.

- PI 505501 donor id: 14. origin: Burkina Faso. local name: Kamanda. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 14. locality: Tonkogounadie, Sahel Province. remarks: Peuhl tribe. Annual. Cultivated. Seed.
- PI 505502 donor id: 17. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 17. locality: Sambagou, Sahel Province. remarks: Mossi garsi tribe. Annual. Cultivated. Seed.
- PI 505503 donor id: 20. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 20. locality: Napsii, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505504 donor id: 25. origin: Burkina Faso. local name: Kamande. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 25. locality: Diagoro, Centre Nord Province. remarks: Gourmantche and Peuhl tribes. Annual. Cultivated. Seed.
- PI 505505 donor id: 33. origin: Burkina Faso. local name: Kamanda. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 33. locality: Between Deou and Gasselnay, Sahel Province. remarks: Matioube tribe. Annual. Cultivated. Seed.
- PI 505506 donor id: 34. origin: Burkina Faso. local name: Mendnde. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 34. locality: Dar Saalam, Sahel Province. remarks: Foulse tribe. Annual. Cultivated. Seed.
- PI 505507 donor id: 38. origin: Burkina Faso. local name: Mamanani. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 38. locality: Baraboule, Sahel Province. remarks: Pauhl Foulbe tribe. Annual. Cultivated. Seed.
- PI 505508 donor id: 39. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 39. locality: Tibo, Nord Province. remarks: Growing season 60 days. Mossi Foulse tribe. Annual. Cultivated. Seed.

- PI 505509 donor id: 42. origin: Burkina Faso. local name: Pororiou. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 42. locality: Ban, Nord Province. remarks: Dogon tribe. Annual. Cultivated. Seed.
- PI 505510 donor id: 45. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 45. locality: Between Titao and Toulfe, Nord Province. remarks: Silmi Mossi Peuhl tribe. Annual. Cultivated. Seed.
- PI 505511 donor id: 48. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 48. locality: Bolanga, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505512 donor id: 50. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 50. locality: Pogoro, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505513 donor id: 55. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 55. locality: Mane, Sahel Province. remarks: Peuhl tribe. Annual. Cultivated. Seed.
- PI 505514 donor id: 59. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 59. locality: Pouytenga, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505515 donor id: 60. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 60. locality: Pouytenga, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505516 donor id: 64. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 64. locality: Dargo, Sahel Province. remarks: Mossi tribe. Annual. Cultivated. Seed.

PI 505492 to 505550-continued

- PI 505517 donor id: 66. origin: Burkina Faso. local name: Kokori. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 66. locality: Bognade, 30km after Dargo, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505518 donor id: 70. origin: Burkina Faso. local name: Nayouri. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 70. locality: Kantchari, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505519 donor id: 71. origin: Burkina Faso. local name: Maana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 71. locality: Nabougou, Est Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505520 donor id: 76. origin: Burkina Faso. local name: Akokone. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 76. locality: Martiakoali, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505521 donor id: 78. origin: Burkina Faso. local name: Akokona. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 78. locality: Pama, Est Province. remarks: Gourmantche tribe. Annual. Cultivated. Seed.
- PI 505522 donor id: 81. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 81. locality: Sangha, Centre Est Province. remarks: Mossi yala tribe. Annual. Cultivated. Seed.
- PI 505523 donor id: 86. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 86. locality: Ouargaye, Centre Est Province. remarks: Mossi yala tribe. Annual. Cultivated. Seed.
- PI 505524 donor id: 90. origin: Burkina Faso. local name: Kampara. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 90. locality: Boussouma, Centre Est Province. remarks: Bissa tribe. Annual. Cultivated. Seed.

PI 505492 to 505550-continued

- PI 505525 donor id: 92. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 92. locality: Manga, Centre Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505526 donor id: 94. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 94. locality: Nobere, Centre Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505527 donor id: 97. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 97. locality: Banou, Centre Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505528 donor id: 99. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 99. locality: Gadourou, Centre Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505529 donor id: 102. origin: Peru. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 102. Seed.
- PI 505530 donor id: 105. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 105. locality: Napalgue, Centre Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505531 donor id: 106. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 106. locality: Dourou, Centre Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505532 donor id: 107. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 107. locality: Rogo, Nord Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505533 donor id: 111. origin: Burkina Faso. local name: Seme. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 111. locality: Seme, Volta Noire Province. remarks: Kalamse tribe. Annual. Cultivated. Seed.

PI 505492 to 505550-continued

- PI 505534 donor id: 113. origin: Burkina Faso. local name: Bambana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 113. locality: Disi, Volta Noire Province. remarks: Samo tribe. Annual. Cultivated. Seed.
- PI 505535 donor id: 122. origin: Burkina Faso. local name: Korion. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 122. locality: Kouri, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505536 donor id: 123. origin: Burkina Faso. local name: Korion. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 123. locality: Kouro, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505537 donor id: 124. origin: Burkina Faso. local name: Bada. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 124. locality: Bonborokui, Volta Noire Province. remarks: Bobo tribe. Annual. Cultivated. Seed.
- PI 505538 donor id: 127. origin: Burkina Faso. local name: Bara. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 127. locality: Kasinguo, Volta Noire Province. remarks: Bobo oule tribe. Annual. Cultivated. Seed.
- PI 505539 donor id: 131. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 131. locality: Badale, Volta Noire Province. remarks: Mossi tribe. Annual. Cultivated. Seed.
- PI 505540 donor id: 134. origin: Burkina Faso. local name: Bara. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 134. locality: Bakoui, Volta Noire Province. remarks: Bouo oule tribe. Annual. Cultivated. Seed.
- PI 505541 donor id: 136. origin: Burkina Faso. local name: Bara. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 136. locality: Ouakoura, Volta Noire Province. remarks: Bouo oule tribe. Annual. Cultivated. Seed.

- PI 505542 donor id: 137. origin: Burkina Faso. local name: Moussaka. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 137. locality: Mamou, Volta Noire Province. remarks: Bobolo tribe. Annual. Cultivated. Seed.
- PI 505543 donor id: 140. origin: Burkina Faso. local name: Mosson. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 140. locality: Ankasso, Volta Noire Province. remarks: Dafi tribe. Annual. Cultivated. Seed.
- PI 505544 donor id: 142. origin: Burkina Faso. local name: Chenepola. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 142. locality: Tiogo, Centre Ouest Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505545 donor id: 144. origin: Burkina Faso. local name: Bopuala. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 144. locality: Bonyolo, Centre Ouest Province. remarks: Labe tribe. Annual. Cultivated. Seed.
- PI 505546 donor id: 148. origin: Burkina Faso. local name: Napoua. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 148. locality: Kya, Centre Ouest Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505547 donor id: 150. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 150. locality: Dana, Centre Ouest Province. remarks: Gourounssi tribe. Annual. Cultivated. Seed.
- PI 505548 donor id: 152. origin: Burkina Faso. local name: Kamana. collected: October 1981. collector: P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. collector id: 152. locality: Sissili, Centre Ouest Province. remarks: Originally from Ghana. Gourounssi tribe. Annual. Cultivated. Seed.

PI 505492 to 505550-continued

PI 505549 **donor id:** 153. **origin:** Burkina Faso. **local name:** Kamana. **collected:** October 1981. **collector:** P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. **collector id:** 153. **locality:** Sissili, Centre Ouest Province. **remarks:** Gourounssi tribe. Annual. Cultivated. Seed.

PI 505550 **donor id:** 156. **origin:** Burkina Faso. **local name:** Pameessian. **collected:** October 1981. **collector:** P.M. Perret, I. Clement, R. Zangre, D. Zongo, and A. Kere. **collector id:** 156. **locality:** Sissili, Centre Ouest Province. **remarks:** Vegetative for 70 days. Gourounssi tribe. Annual. Cultivated. Seed.

PI 505551 to 505567. *Abelmoschus esculentus* (L.) Moench MALVACEAE
Okra

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505551 **donor id:** ZM/A 5037. **origin:** Zambia. **collected:** June 16, 1984. **collector:** A.F. Attere and G. Mlongoti. **collector id:** ZM/A 5037. **locality:** Chibwika, 45km of Mwinilunga to Chiwoma, Northwestern Province. **latitude:** 12 deg. 05 min. S. **longitude:** 24 deg. 17 min. E. **elevation:** 1250m. Annual. Primitive Cultivar. Seed.

PI 505552 **donor id:** ZM/A 5104. **origin:** Zambia. **local name:** Mulembwu. **collected:** June 17, 1984. **collector:** A.F. Attere and G. Mlongoti. **collector id:** ZM/A 5104. **locality:** Katoka, 15km of Ikelenge to Nyakaseya, Northwestern Province. **latitude:** 11 deg. 10 min. S. **longitude:** 24 deg. 10 min. E. **elevation:** 1160m. Annual. Primitive Cultivar. Seed.

PI 505553 **donor id:** ZM/A 5112. **origin:** Zambia. **local name:** Mulembuni. **collected:** June 17, 1984. **collector:** A.F. Attere and G. Mlongoti. **collector id:** ZM/A 5112. **locality:** Nyakaseya, 90km N of Mwinilunga, Northwestern Province. **latitude:** 11 deg. 08 min. S. **longitude:** 24 deg. 08 min. E. **elevation:** 1130m. **remarks:** Fruit long. Annual. Primitive Cultivar. Seed.

PI 505554 **donor id:** ZM/A 5115. **origin:** Zambia. **collected:** June 17, 1984. **collector:** A.F. Attere and G. Mlongoti. **collector id:** ZM/A 5115. **locality:** Nyakaseya, 90km N of Mwinilunga, Northwestern Province. **latitude:** 11 deg. 08 min. S. **longitude:** 24 deg. 08 min. E. **elevation:** 1130m. **remarks:** Plants short. Annual. Primitive Cultivar. Seed.

PI 505551 to 505567-continued

- PI 505555 donor id: ZM/A 5180. origin: Zambia. local name: Mulembwe. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5180. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. remarks: Sown October, harvested April. Annual. Primitive Cultivar. Seed.
- PI 505556 donor id: ZM/A 5251. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5251. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. Annual. Primitive Cultivar. Seed.
- PI 505557 donor id: ZM/A 5269. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5269. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown anytime. Annual. Primitive Cultivar. Seed.
- PI 505558 donor id: ZM/A 5286. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5286. locality: Mayumbo, 1 km from turnoff to Gwembe, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 10 min. E. elevation: 370m. remarks: Fruit long and slim. Sown November, harvested March. Annual. Primitive Cultivar. Seed.
- PI 505559 donor id: ZM/A 5301. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5301. locality: Chaanga, 47km from turnoff to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505560 donor id: ZM/A 5325. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5325. locality: Siamchila, 133km from turnoff to Gwembe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 42 min. E. elevation: 640m. Annual. Primitive Cultivar. Seed.
- PI 505561 donor id: ZM/A 5337. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5337. locality: Chipeco, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. Annual. Primitive Cultivar. Seed.

PI 505551 to 505567-continued

- PI 505562 donor id: ZM/A 5353. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5353. locality: Halubilo, 23km from Munyumbye to Gwambe, Southern Province. latitude: 27 deg. 45 min. S. longitude: 16 deg. 40 min. E. elevation: 780m. Annual. Primitive Cultivar. Seed.
- PI 505563 donor id: ZM/A 5367. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5367. locality: Siamungala, 70km E of Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.
- PI 505564 donor id: ZM/A 5374. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5374. locality: Sinazeze, 79km E of Choma to Maamba, Southern Province. latitude: 27 deg. 25 min. S. longitude: 17 deg. 10 min. E. elevation: 500m. Annual. Primitive Cultivar. Seed.
- PI 505565 donor id: ZM/A 5385. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5385. locality: Sinakasikili, 20km to Maamba, Southern Province. elevation: 450m. Annual. Primitive Cultivar. Seed.
- PI 505566 donor id: ZM/A 5391. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5391. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.
- PI 505567 donor id: ZM/A 5397. origin: Zambia. collected: June 28, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5397. locality: Sinazeza, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505568. *Amaranthus hybridus* L. AMARANTHACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505568-continued

PI 505568 donor id: ZM/A 5097. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5097. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.

PI 505569 to 505570. *Amaranthus* sp. AMARANTHACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505569 donor id: ZM/A 5038. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5038. locality: Chibwika, 45km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 12 deg. 05 min. S. longitude: 24 deg. 17 min. E. elevation: 1250m. remarks: Grain red. Annual. Seed.

PI 505570 donor id: ZM/A 5366. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5366. locality: Siamungala, 70km E of Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.

PI 505571 to 505583. *Arachis hypogaea* L. FABACEAE Peanut

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505571 donor id: ZM/A 5005. origin: Zambia. collected: June 15, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5005. locality: Mwinilunga Market, Northwestern Province. latitude: 11 deg. 40 min. S. longitude: 24 deg. 25 min. E. elevation: 1350m. remarks: Fruit white and red. Hybrid. Annual. Primitive Cultivar. Seed.

PI 505572 donor id: ZM/A 5041. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5041. locality: Chibwika, 45km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 12 deg. 05 min. S. longitude: 24 deg. 17 min. E. elevation: 1250m. Annual. Primitive Cultivar. Seed.

PI 505571 to 505583-continued

- PI 505573 donor id: ZM/A 5044. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5044. locality: Samdata, 30km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 20 min. E. elevation: 1210m. remarks: Sown November, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505574 donor id: ZM/A 5157. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5157. locality: Lunsongwa, 186km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 02 min. S. longitude: 24 deg. 10 min. E. elevation: 1000m. remarks: Sown December, harvested April. Annual. Primitive Cultivar. Seed.
- PI 505575 donor id: ZM/A 5160. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5160. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505576 donor id: ZM/A 5192. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5192. locality: Kalombo, 73km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 50 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505577 donor id: ZM/A 5210. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5210. locality: Sajungo/Chavuma, 94km of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505578 donor id: ZM/A 5222. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5222. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505579 donor id: ZM/A 5243. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5243. locality: Kafungamina, 82km S of Chezela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown November, harvested April-June. Annual. Primitive Cultivar. Seed.

PI 505571 to 505583-continued

- PI 505580 donor id: ZM/A 5276. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5276. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. Annual. Primitive Cultivar. Seed.
- PI 505581 donor id: ZM/A 5359. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5359. locality: Simuchembu, 20km E of Choma to Maamba, Southern Province. latitude: 27 deg. 10 min. S. longitude: 16 deg. 50 min. E. elevation: 1150m. Annual. Primitive Cultivar. Seed.
- PI 505582 donor id: ZM/A 5389. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5389. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.
- PI 505583 donor id: ZM/A 5396. origin: Zambia. collected: June 28, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5396. locality: Sinazeze, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505584 to 505595. *Citrullus lanatus* (Thunb.) Matsum. & Nakai
CUCURBITACEAE Watermelon

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505584 donor id: ZM/A 5001. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5001. latitude: 11 deg. 42 min. S. longitude: 24 deg. 20 min. E. elevation: 1250m. Annual. Primitive Cultivar. Seed.
- PI 505585 donor id: ZM/A 5011. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5011. locality: Kampemba Village, 9km S of Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 42 min. S. longitude: 24 deg. 20 min. E. elevation: 1250m. Annual. Primitive Cultivar. Seed.

PI 505584 to 505595-continued

- PI 505586 donor id: ZM/A 5206. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5206. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505587 donor id: ZM/A 5313. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5313. locality: Nsalamunga, 83km from turn off to Gwambe, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. remarks: Sown November, harvested March. Annual. Primitive Cultivar. Seed.
- PI 505588 donor id: ZM/A 5320. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5320. locality: Lumbo, 114km from turn off to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. Annual. Primitive Cultivar. Seed.
- PI 505589 donor id: ZM/A 5322. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5322. locality: Siamchila, 133km from turn off to Gwembe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 42 min. E. elevation: 640m. Annual. Primitive Cultivar. Seed.
- PI 505590 donor id: ZM/A 5329. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5329. locality: Munyumbwe, 146km from turn off to Gwembe, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 600m. Annual. Primitive Cultivar. Seed.
- PI 505591 donor id: ZM/A 5372. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5372. locality: Siamungala, 70km E of Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.
- PI 505592 donor id: ZM/A 5380. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5380. locality: Nkenga, 8km of Sinazeze to Sinazongwe, Southern Province. latitude: 27 deg. 28 min. S. longitude: 17 deg. 15 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.

PI 505584 to 505595-continued

PI 505593 donor id: ZM/A 5386. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5386. locality: Sinakasikili, 20km E of Maamba, Southern Province. elevation: 450m. Annual. Primitive Cultivar. Seed.

PI 505594 donor id: ZM/A 5395. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5395. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.

PI 505595 donor id: ZM/A 5399. origin: Zambia. collected: June 28, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5399. locality: Sinazeze, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505596. *Cucumeropsis mannii* Naud. CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505596 donor id: ZM/A 5062. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5062. locality: Kabuchi, 29km of North Mwinglunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. remarks: Used for oil. Oil used in relish and on salads. Annual. Primitive Cultivar. Seed.

PI 505597 to 505603. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by Atters, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505597 donor id: ZM/A 5019. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5019. locality: Kabuka, 63km S Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 54 min. S. longitude: 24 deg. 08 min. E. elevation: 1320m. remarks: Fruit spiny. Seeds boiled, mixed with soda, crushed peanut. Annual. Breeding Material. Seed.

PI 505597 to 505603-continued

- PI 505598 donor id: ZM/A 5213. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5213. locality: Munenge, 30km of North Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 16 min. S. longitude: 23 deg. 04 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505599 donor id: ZM/A 5317. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5317. locality: Lumbo, 114km from turnoff to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. Annual. Primitive Cultivar. Seed.
- PI 505600 donor id: ZM/A 5364. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5364. locality: Siamungala, 32km E of Choma to Maamba, Southern Province. latitude: 27 deg. 20 min. S. longitude: 17 deg. 00 min. E. elevation: 980m. Annual. Primitive Cultivar. Seed.
- PI 505601 donor id: ZM/A 5370. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5370. locality: Siamungala, 70km E of Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.
- PI 505602 donor id: ZM/A 5384. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5384. locality: Mkenga, 8km of Sinazeze to Sinazongwe, Southern Province. latitude: 27 deg. 28 min. S. longitude: 17 deg. 15 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505603 donor id: ZM/A 5390. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5390. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.

PI 505604. *Cucumis sativus* L. CUCURBITACEAE Cucumber

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505604-continued

PI 505604 donor id: ZM/A 5335. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5335. locality: Hambelele, 20km from Munyumbwe to Chipepo, Southern Province. latitude: 27 deg. 49 min. S. longitude: 16 deg. 48 min. E. elevation: 480m. Annual. Primitive Cultivar. Seed.

PI 505605 to 505613. Cucumis sp. CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505605 donor id: ZM/A 5030. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5030. locality: Kamapanda, 67km S of Mwinilunga, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 05 min. E. elevation: 1300m. Annual. Primitive Cultivar. Seed.

PI 505606 donor id: ZM/A 5078. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5078. locality: Nchila, 55km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 25 min. S. longitude: 24 deg. 18 min. E. elevation: 1340m. remarks: Used for relish. Annual. Primitive Cultivar. Seed.

PI 505607 donor id: ZM/A 5086. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5086. locality: Kalimoto, 69km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 15 min. E. elevation: 1290m. Annual. Primitive Cultivar. Seed.

PI 505608 donor id: ZM/A 5092. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5092. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.

PI 505609 donor id: ZM/A 5105. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5105. locality: Katoka, 15km of Ikelenge to Nyakaseya, Northwestern Province. latitude: 11 deg. 10 min. S. longitude: 24 deg. 10 min. E. elevation: 1160m. Annual. Primitive Cultivar. Seed.

PI 505605 to 505613-continued

- PI 505610 donor id: ZM/A 5306. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5306. locality: Syamyoolo, 67km from turn off to Gyembe, Southern Province. latitude: 28 deg. 20 min. S. longitude: 16 deg. 25 min. E. elevation: 520m. remarks: Fruit yellow. Annual. Primitive Cultivar. Seed.
- PI 505611 donor id: ZM/A 5350. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5350. locality: Halubilo, 23km from Munyumbwe, Southern Province. latitude: 27 deg. 45 min. S. longitude: 16 deg. 40 min. E. elevation: 780m. Annual. Primitive Cultivar. Seed.
- PI 505612 donor id: ZM/A 5377. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5377. locality: Sinazeze, 79km E of Choma to Maamba, Southern Province. latitude: 27 deg. 25 min. S. longitude: 17 deg. 10 min. E. elevation: 450m. Annual. Primitive Cultivar. Seed.
- PI 505613 donor id: ZM/A 5404. origin: Zambia. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5404. locality: Batoka, 30km N of Choma, Southern Province. latitude: 27 deg. 17 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505614 to 505632. Cucurbita maxima Duch. CUCURBITACEAE Winter squash

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505614 donor id: ZM/A 5014. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5014. locality: New Village, 28km S of Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 44 min. S. longitude: 24 deg. 18 min. E. elevation: 1310m. Annual. Primitive Cultivar. Seed.
- PI 505615 donor id: ZM/A 5027. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5027. locality: Kamapanda, 67km S of Mwinilunga, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 05 min. E. elevation: 1300m. Annual. Primitive Cultivar. Seed.

PI 505614 to 505632-continued

- PI 505616 donor id: ZM/A 5045. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5045. locality: Samdata, 30km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 20 min. E. elevation: 1210m. Annual. Primitive Cultivar. Seed.
- PI 505617 donor id: ZM/A 5060. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5060. locality: Kabuchi, 29km of North Mwinglunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. Annual. Primitive Cultivar. Seed.
- PI 505618 donor id: ZM/A 5063. origin: Zambia. local name: Mayawuan. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5063. locality: Kalulu, 39km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 25 min. E. elevation: 1360m. Annual. Primitive Cultivar. Seed.
- PI 505619 donor id: ZM/A 5080. origin: Zambia. local name: Iyangwan. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5080. locality: Nchila, 55km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 25 min. S. longitude: 24 deg. 18 min. E. elevation: 1340m. Annual. Primitive Cultivar. Seed.
- PI 505620 donor id: ZM/A 5090. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5090. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.
- PI 505621 donor id: ZM/A 5096. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5096. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. remarks: Mixed with small amount Lagenaria siceraria. Annual. Primitive Cultivar. Seed.
- PI 505622 donor id: ZM/A 5109. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5109. locality: Nyakaseya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.

PI 505614 to 505632-continued

- PI 505623 donor id: ZM/A 5111. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5111. locality: Nyakaseya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.
- PI 505624 donor id: ZM/A 5116. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5116. locality: Nyakaseya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.
- PI 505625 donor id: ZM/A 5119. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5119. locality: Chibwika Dijimu, 65km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 15 min. S. longitude: 24 deg. 15 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.
- PI 505626 donor id: ZM/A 5123. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5123. locality: Chibwika Dijimu, 65km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 15 min. S. longitude: 24 deg. 15 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.
- PI 505627 donor id: ZM/A 5131. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5131. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. remarks: Mixed with small amount of C. moschata. Annual. Primitive Cultivar. Seed.
- PI 505628 donor id: ZM/A 5193. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5193. locality: Kalombo, 73km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 50 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505629 donor id: ZM/A 5207. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5207. locality: Sanjungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.

PI 505614 to 505632-continued

- PI 505630 donor id: ZM/A 5216. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5216. locality: Munenge, 30km of North Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 16 min. S. longitude: 23 deg. 04 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505631 donor id: ZM/A 5256. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5256. locality: Chibayambaya, 50km S of Kasempa to Kaoma, Northwestern Province. latitude: 13 deg. 35 min. S. longitude: 25 deg. 30 min. E. elevation: 1080m. Annual. Primitive Cultivar. Seed.
- PI 505632 donor id: ZM/A 5272. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5272. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested February. Annual. Primitive Cultivar. Seed.

PI 505633. *Cucurbita mixta* Pang. CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505633 donor id: ZM/A 5101. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5101. locality: Katoka, 15km of Ikelenge to Nyakaeya, Northwestern Province. latitude: 11 deg. 10 min. S. longitude: 24 deg. 10 min. E. elevation: 1160m. remarks: Seeds marginless. Annual. Primitive Cultivar. Seed.

PI 505634 to 505646. *Cucurbita moschata* (Duch.) Duch. ex Poir.
CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505634 to 505646-continued

- PI 505634 donor id: ZM/A 5010. origin: Zambia. local name: Iyange. collected: June 15, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5010. locality: Kampemba Village, 9km S of Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 42 min. S. longitude: 24 deg. 20 min. E. elevation: 1250m. Annual. Primitive Cultivar. Seed.
- PI 505635 donor id: ZM/A 5075. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5075. locality: Kalulu, 39km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 25 min. E. elevation: 1360m. Annual. Primitive Cultivar. Seed.
- PI 505636 donor id: ZM/A 5149. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5149. locality: Mukoma, 160km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 50 min. S. longitude: 24 deg. 15 min. E. elevation: 1050m. Annual. Primitive Cultivar. Seed.
- PI 505637 donor id: ZM/A 5177. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5177. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. Annual. Primitive Cultivar. Seed.
- PI 505638 donor id: ZM/A 5194. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5194. locality: Kalombo, 73km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 50 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505639 donor id: ZM/A 5219. origin: Zambia. collected: June 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5219. locality: Solochi, 19km NE of Zambezi, Northwestern Province. latitude: 13 deg. 25 min. S. longitude: 23 deg. 10 min. E. elevation: 970m. Annual. Primitive Cultivar. Seed.
- PI 505640 donor id: ZM/A 5247. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5247. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown October/December, harvested April to June. Annual. Primitive Cultivar. Seed.

PI 505634 to 505646-continued

- PI 505641 donor id: ZM/A 5273. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5273. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested February. Annual. Primitive Cultivar. Seed.
- PI 505642 donor id: ZM/A 5274. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5274. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested February. Annual. Primitive Cultivar. Seed.
- PI 505643 donor id: ZM/A 5308. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5308. locality: Nsalamunga, 83km from turn off to Gwembe, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. remarks: Sown November, harvested March. Mixed with small amount of *C. maxima*. Annual. Primitive Cultivar. Seed.
- PI 505644 donor id: ZM/A 5330. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5330. locality: Munyumbwa, 146km from turn off to Gwembe, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 600m. Annual. Primitive Cultivar. Seed.
- PI 505645 donor id: ZM/A 5344. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5344. locality: Munyumbwe village, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 580m. Annual. Primitive Cultivar. Seed.
- PI 505646 donor id: ZM/A 5363. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5363. locality: Siamungala, 52km E of Choma to Maamba, Southern Province. latitude: 27 deg. 20 min. S. longitude: 17 deg. 00 min. E. elevation: 980m. Annual. Primitive Cultivar. Seed.

PI 505647 to 505650. *Glycine max* (L.) Merr. FABACEAE Soybean

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505647 to 505650-continued

- PI 505647 donor id: ZM/A 5137. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5137. locality: Chiwoma, 91km to Mayinga (Kobompa), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.
- PI 505648 donor id: ZM/A 5198. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5198. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Seed.
- PI 505649 donor id: ZM/A 5241. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5241. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown December, harvested April-June. Annual. Cultivar. Seed.
- PI 505650 donor id: ZM/A 5349. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5349. locality: Halubilo, 23km from Munyumbwe to Gwembe, Southern Province. latitude: 27 deg. 45 min. S. longitude: 16 deg. 40 min. E. elevation: 780m. Annual. Primitive Cultivar. Seed.

PI 505651 to 505653. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505651 donor id: ZM/A 5056. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5056. locality: Kabuchi, 29km of North Mwinglunga to Myakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. Annual. Primitive Cultivar. Seed.
- PI 505652 donor id: ZM/A 5129. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5129. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. remarks: Seed black. Annual. Primitive Cultivar. Seed.

PI 505651 to 505653-continued

PI 505653 donor id: ZM/A 5199. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5199. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.

PI 505654 to 505656. *Lagenaria siceraria* (Mol.) Standl. CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505654 donor id: ZM/A 5079. origin: Zambia. local name: Ichimpa. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5079. locality: Nchila, 55km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 25 min. S. longitude: 24 deg. 18 min. E. elevation: 1340m. remarks: Seed has long viability. Annual. Primitive Cultivar. Seed.

PI 505655 donor id: ZM/A 5091. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5091. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.

PI 505656 donor id: ZM/A 5319. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5319. locality: Lumbo, 114km from turn off to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. remarks: Leaves and flesh boiled and eaten like pumkins. Annual. Primitive Cultivar. Seed.

PI 505657. *Momordica peteri* A. Zimmerm. CUCURBITACEAE

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505657 donor id: ZM/A 5110. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5110. locality: Nyakassya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.

PI 505658 to 505663. *Mucuna pruriens* var. *utilis* (Wallich ex Wight)
Baker ex Burck FABACEAE Velvetbean

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505658 donor id: ZM/A 5040. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5040. locality: Chibwika, 45km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 12 deg. 05 min. S. longitude: 24 deg. 17 min. E. elevation: 1250m. Annual. Primitive Cultivar. Seed.
- PI 505659 donor id: ZM/A 5052. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5052. locality: Kabuchi, 29km of North Mwinglunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. Annual. Primitive Cultivar. Seed.
- PI 505660 donor id: ZM/A 5061. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5061. locality: Kabuchi, 29km of North Mwinglunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. remarks: Seed white. Annual. Primitive Cultivar. Seed.
- PI 505661 donor id: ZM/A 5069. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5069. locality: Kabulu, 39km of North Mwinilunga to Nyakaseya. Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 25 min. E. elevation: 1360m. Annual. Primitive Cultivar. Seed.
- PI 505662 donor id: ZM/A 5130. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5130. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.
- PI 505663 donor id: ZM/A 5201. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5201. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.

PI 505664 to 505668. *Nicotiana tabacum* L. SOLANACEAE Tobacco

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505664 donor id: ZM/A 5133. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5133. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.

PI 505665 donor id: ZM/A 5142. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5142. locality: Kanzenzi, 119km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 10 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.

PI 505666 donor id: ZM/A 5190. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5190. locality: Kalombo, 73km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 50 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.

PI 505667 donor id: ZM/A 5245. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5245. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown December. Annual. Primitive Cultivar. Seed.

PI 505668 donor id: ZM/A 5246. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5246. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown December. Annual. Primitive Cultivar. Seed.

PI 505669 to 505691. *Pennisetum glaucum* (L.) R. Br. POACEAE Pearl millet

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505669 to 505691-continued

- PI 505669 donor id: ZM/A 5034. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5034. locality: Kakora, 13km of Kamapanda to Junction to Chiwoma, Northwestern Province. latitude: 12 deg. 00 min. S. longitude: 24 deg. 10 min. E. elevation: 1350m. remarks: Sown November, harvested June. Used for porridge. Ground. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505670 donor id: ZM/A 5126. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5126. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. remarks: Sown January, harvested May-June. received as: Pennisetum americanum. Annual. Seed.
- PI 505671 donor id: ZM/A 5138. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5138. locality: Chiwoma, 91km to Mayinga (Kobompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505672 donor id: ZM/A 5144. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5144. locality: Kanzanzi, 119km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 10 min. E. elevation: 1130m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505673 donor id: ZM/A 5153. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5153. locality: Lunsongwa, 186km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 02 min. S. longitude: 24 deg. 10 min. E. elevation: 1000m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505674 donor id: ZM/A 5181. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5181. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.

PI 505669 to 505691-continued

- PI 505675 donor id: ZM/A 5203. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5203. locality: Sanjungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505676 donor id: ZM/A 5211. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5211. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505677 donor id: ZM/A 5255. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5255. locality: Kalengwa, 60km S of Chizela, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 25 deg. 00 min. E. elevation: 1100m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505678 donor id: ZM/A 5278. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5278. locality: Kariba Store, 27km from Siavonga to Lusaka, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 15 min. E. elevation: 430m. remarks: Heads very long. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505679 donor id: ZM/A 5280. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5280. locality: Lusitu, 51km from Siavonga to Lusaka, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 15 min. E. elevation: 350m. remarks: Sown October, harvested March. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505680 donor id: ZM/A 5284. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5284. locality: Mayumbo, 1 km from turn off to Gwembe, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 10 min. E. elevation: 370m. remarks: Sown October. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.

PI 505669 to 505691-continued

- PI 505681 donor id: ZM/A 5289. origin: Zambia. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5289. locality: Halyabwanda, 14km from turn off to Gwembe, Southern Province. latitude: 28 deg. 40 min. S. longitude: 16 deg. 12 min. E. elevation: 390m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505682 donor id: ZM/A 5294. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5294. locality: Hambezoyo, 27km from turn off to Gwembe, Southern Province. latitude: 28 deg. 32 min. S. longitude: 16 deg. 15 min. E. elevation: 420m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505683 donor id: ZM/A 5303. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5303. locality: Chaanga, 47km from turn off to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505684 donor id: ZM/A 5312. origin: Zambia. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5312. locality: Nsalamunga, 83km from turn off to Gwemba, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505685 donor id: ZM/A 5318. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5318. locality: Lumbo, 114km from turn off to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505686 donor id: ZM/A 5326. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5326. locality: Siamchila, 133km from turn off to Gwembe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 42 min. E. elevation: 640m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.

PI 505669 to 505691-continued

- PI 505687 donor id: ZM/A 5338. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5338. locality: Chipepo, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505688 donor id: ZM/A 5341. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5341. locality: Chipepo, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505689 donor id: ZM/A 5371. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5371. locality: Siamungala, 70km E Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505690 donor id: ZM/A 5401. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5401. locality: Sinazeze, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.
- PI 505691 donor id: ZM/A 5406. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5406. locality: Sinakasikili, 20Km E to Maamba, Southern Province. elevation: 450m. received as: Pennisetum americanum. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

PI 505692 to 505746-continued

- PI 505692 donor id: ZM/A 5006. origin: Zambia. local name: Nasa. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5006. locality: Kampemba Village, 9km S of Mwinilunga to Kamapanda. Northwestern Province. latitude: 11 deg. 42 min. S. longitude: 24 deg. 20 min. E. elevation: 1250m. remarks: Sown October, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505693 donor id: ZM/A 5022. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5022. locality: Kabuka, 63km S Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 54 min. S. longitude: 24 deg. 08 min. E. elevation: 1320m. Annual. Primitive Cultivar. Seed.
- PI 505694 donor id: ZM/A 5033. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5033. locality: Kampapanda, 67km S of Mwinilunga, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 05 min. E. elevation: 1300m. Annual. Primitive Cultivar. Seed.
- PI 505695 donor id: ZM/A 5050. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5050. locality: Kabuchi, 29km of North Mwinglunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 35 min. S. longitude: 24 deg. 28 min. E. elevation: 1330m. remarks: Stalk sweet. Grain red. Annual. Primitive Cultivar. Seed.
- PI 505696 donor id: ZM/A 5085. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5085. locality: Kalimoto, 69km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 15 min. E. elevation: 1290m. Annual. Primitive Cultivar. Seed.
- PI 505697 donor id: ZM/A 5089. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5089. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505698 donor id: ZM/A 5095. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5095. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505699 donor id: ZM/A 5106. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5106. locality: Nyakaseya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.
- PI 505700 donor id: ZM/A 5122. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5122. locality: Chibwika Dijimu, 65km to Mayinga (Kapompa), Northwestern Province. latitude: 11 deg. 15 min. S. longitude: 24 deg. 15 min. E. elevation: 1130m. remarks: Sown November, harvested April. Annual. Primitive Cultivar. Seed.
- PI 505701 donor id: ZM/A 5147. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5147. locality: Mukoma, 160km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 50 min. S. longitude: 24 deg. 15 min. E. elevation: 1050m. remarks: Sown December, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505702 donor id: ZM/A 5152. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5152. locality: Mukoma, 160km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 50 min. S. longitude: 24 deg. 15 min. E. elevation: 1050m. Annual. Primitive Cultivar. Seed.
- PI 505703 donor id: ZM/A 5162. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5162. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505704 donor id: ZM/A 5173. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5173. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505705 donor id: ZM/A 5204. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5204. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505706 donor id: ZM/A 5223. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5223. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505707 donor id: ZM/A 5233. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5233. locality: Chibato, 27km NE of Zambezi, Northwestern Province. latitude: 13 deg. 20 min. S. longitude: 23 deg. 15 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505708 donor id: ZM/A 5248. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5248. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown October, harvested April-June. Annual. Primitive Cultivar. Seed.
- PI 505709 donor id: ZM/A 5254. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5254. locality: Kalengwa, 60km S of Chizela, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 25 deg. 00 min. E. elevation: 1100m. Annual. Primitive Cultivar. Seed.
- PI 505710 donor id: ZM/A 5259. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5259. locality: Chibayambaya, 50km S of Kasampa to Kaoma, Northwestern Province. latitude: 13 deg. 35 min. S. longitude: 25 deg. 30 min. E. elevation: 1080m. Annual. Primitive Cultivar. Seed.
- PI 505711 donor id: ZM/A 5264. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5264. locality: Lalafuta, 147km S Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 10 min. S. longitude: 24 deg. 55 min. E. elevation: 1040m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505712 donor id: ZM/A 5268. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5268. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. Annual. Primitive Cultivar. Seed.
- PI 505713 donor id: ZM/A 5277. origin: Zambia. local name: Maila (Kapila). collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5277. locality: Kariba Store, 27km from Siavonga to Lusaka, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 15 min. E. elevation: 430m. Annual. Primitive Cultivar. Seed.
- PI 505714 donor id: ZM/A 5279. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5279. locality: Lusitu, 51km from Siavonga to Lusaka, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 15 min. E. elevation: 350m. remarks: Sown October, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505715 donor id: ZM/A 5282. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5282. locality: Mayumbo, 1 km from turn off to Gwembe, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 10 min. E. elevation: 370m. Annual. Primitive Cultivar. Seed.
- PI 505716 donor id: ZM/A 5288. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5288. locality: Halyabwanda, 14km from turn off to Gwembe, Southern Province. latitude: 28 deg. 40 min. S. longitude: 16 deg. 12 min. E. elevation: 390m. Annual. Primitive Cultivar. Seed.
- PI 505717 donor id: ZM/A 5290. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5290. locality: Hambezyo, 27km from turn off to Gwembe, Southern Province. latitude: 28 deg. 32 min. S. longitude: 16 deg. 15 min. E. elevation: 420m. Annual. Primitive Cultivar. Seed.
- PI 505718 donor id: ZM/A 5291. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5291. locality: Hambezyo, 27km from turn off to Gwembe, Southern Province. latitude: 28 deg. 32 min. S. longitude: 16 deg. 15 min. E. elevation: 420m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505719 donor id: ZM/A 5292. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5292. locality: Hambezyo, 27km from turn off to Gwembe, Southern Province. latitude: 28 deg. 32 min. S. longitude: 16 deg. 15 min. E. elevation: 420m. Annual. Primitive Cultivar. Seed.
- PI 505720 donor id: ZM/A 5293. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5293. locality: Hambezyo, 27km from turn off to Gwembe, Southern Province. latitude: 28 deg. 32 min. S. longitude: 16 deg. 15 min. E. elevation: 420m. Annual. Primitive Cultivar. Seed.
- PI 505721 donor id: ZM/A 5295. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5295. locality: Chaanga, 47km from turn off to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505722 donor id: ZM/A 5298. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5298. locality: Chaanga, 47km from turn off to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. remarks: Sown December, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505723 donor id: ZM/A 5300. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5300. locality: Chaanga, 47km from turn off to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. remarks: Sown December, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505724 donor id: ZM/A 5304. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5304. locality: Syamyoolo, 67km from turn off to Gwembe, Southern Province. latitude: 28 deg. 20 min. S. longitude: 16 deg. 25 min. E. elevation: 520m. remarks: Sown December-January. Annual. Primitive Cultivar. Seed.
- PI 505725 donor id: ZM/A 5309. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5309. locality: Nsalamunga, 83km from turn off to Gwembe, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. remarks: Sown November, harvested June. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505726 donor id: ZM/A 5311. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5311. locality: Nsalamunga, 83km from turn off to Gwembe, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. Annual. Primitive Cultivar. Seed.
- PI 505727 donor id: ZM/A 5315. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5315. locality: Lumbo, 114km from turn off to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. Annual. Primitive Cultivar. Seed.
- PI 505728 donor id: ZM/A 5316. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5316. locality: Lumbo, 114km from turn off to Gwembe, Southern Province. latitude: 27 deg. 58 min. S. longitude: 16 deg. 32 min. E. elevation: 510m. Annual. Primitive Cultivar. Seed.
- PI 505729 donor id: ZM/A 5323. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5323. locality: Siamchila, 133km from turn off to Gwembe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 42 min. E. elevation: 640m. Annual. Primitive Cultivar. Seed.
- PI 505730 donor id: ZM/A 5327. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5327. locality: Munyumbwe, 146km from turn off to Gwembe, Southern Province. latitude: 27 deg. 48 min. E. longitude: 16 deg. 45 min. E. elevation: 600m. remarks: Sown January, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505731 donor id: ZM/A 5328. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5328. locality: Munyumbwe, 146km from turn off to Gwembe, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 600m. remarks: Sown January, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505732 donor id: ZM/A 5334. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5334. locality: Hambelele, 20km from Munyumbwe to Chipepo, Southern Province. latitude: 27 deg. 49 min. S. longitude: 16 deg. 48 min. E. elevation: 480m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505733 donor id: ZM/A 5340. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5340. locality: Chipepo, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. Annual. Primitive Cultivar. Seed.
- PI 505734 donor id: ZM/A 5343. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5343. locality: Munyumbwe village, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 580m. Annual. Primitive Cultivar. Seed.
- PI 505735 donor id: ZM/A 5345. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5345. locality: Munyumbwe village, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 580m. Annual. Primitive Cultivar. Seed.
- PI 505736 donor id: ZM/A 5347. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5347. locality: Halubilo, 23km from Munyumbwe to Gwembe, Southern Province. latitude: 27 deg. 45 min. S. longitude: 16 deg. 40 min. E. elevation: 780m. remarks: Sown November, harvested June. Annual. Primitive Cultivar. Seed.
- PI 505737 donor id: ZM/A 5356. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5356. locality: Gwembe, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 42 min. S. longitude: 16 deg. 38 min. E. elevation: 1140m. Annual. Primitive Cultivar. Seed.
- PI 505738 donor id: ZM/A 5365. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5365. locality: Siamungala, 52km E Choma to Maamba, Southern Province. latitude: 27 deg. 20 min. S. longitude: 17 deg. 00 min. E. elevation: 980m. Annual. Primitive Cultivar. Seed.
- PI 505739 donor id: ZM/A 5373. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5373. locality: Siamungala, 70km E Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.

PI 505692 to 505746-continued

- PI 505740 donor id: ZM/A 5376. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5376. locality: Sinazeze, 79km E of Choma to Maamba, Southern Province. latitude: 27 deg. 25 min. S. longitude: 17 deg. 10 min. E. elevation: 500m. Annual. Primitive Cultivar. Seed.
- PI 505741 donor id: ZM/A 5379. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5379. locality: Nkenga, 8km of Sinazeze to Sinazongwe, Southern Province. latitude: 27 deg. 28 min. S. longitude: 17 deg. 15 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505742 donor id: ZM/A 5382. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5382. locality: Nkenga, 8km of Sinazeze to Sinazongwe, Southern Province. latitude: 27 deg. 28 min. S. longitude: 17 deg. 15 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505743 donor id: ZM/A 5387. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5387. locality: Sinakasikili, 20km E of Maamba, Southern Province. elevation: 450m. Annual. Primitive Cultivar. Seed.
- PI 505744 donor id: ZM/A 5392. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5392. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.
- PI 505745 donor id: ZM/A 5393. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5393. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.
- PI 505746 donor id: ZM/A 5398. origin: Zambia. collected: June 28, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5398. locality: Sinazeze village, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815. Zea mays L. POACEAE Field corn

Donated by Attere, A.F., IBPGR, Rome, Italy; and Mlongoti, G., Mount Makulu Research Station, Chilanga, Zambia. Received through IBPGR, Rome, Italy. Received February 1985.

- PI 505747 donor id: ZM/A 5016. origin: Zambia. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5016. locality: Lwetonde, 33km S Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 45 min. S. longitude: 24 deg. 12 min. E. elevation: 1250m. remarks: Seed yellow/white, resistant to pests, long viability in storage. Annual. Primitive Cultivar. Seed.
- PI 505748 donor id: ZM/A 5017. origin: Zambia. local name: Kabaka. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5017. locality: Lwetonde, 33km S Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 45 min. S. longitude: 24 deg. 12 min. E. elevation: 1250m. remarks: Seed flat, dented. Annual. Primitive Cultivar. Seed.
- PI 505749 donor id: ZM/A 5018. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5018. locality: Kabuka, 63km S Mwinilunga to Kamapanda, Northwestern Province. latitude: 11 deg. 54 min. S. longitude: 24 deg. 08 min. E. elevation: 1320m. Annual. Primitive Cultivar. Seed.
- PI 505750 donor id: ZM/A 5025. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5025. locality: Kamapanda, 67km S of Mwinilunga, Northwestern Province. latitude: 11 deg. 58 min. S. longitude: 24 deg. 05 min. E. elevation: 1300m. Annual. Primitive Cultivar. Seed.
- PI 505751 donor id: ZM/A 5047. origin: Zambia. collected: June 16, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5047. locality: Chingambu, 16km of Mwinilunga to Chiwoma, Northwestern Province. latitude: 11 deg. 52 min. S. longitude: 25 deg. 20 min. E. elevation: 1360m. remarks: Sown November, harvested May. Early maturing. Annual. Primitive Cultivar. Seed.
- PI 505752 donor id: ZM/A 5071. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5071. locality: Kalulu, 39km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 95 min. E. elevation: 1360m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505753 donor id: ZM/A 5074. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5074. locality: Kalulu, 39km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 25 min. E. elevation: 1360m. Annual. Primitive Cultivar. Seed.
- PI 505754 donor id: ZM/A 5081. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5081. locality: Nchila, 55km of North Mwinilunga to Nyakaseya, Northwestern Province. latitude: 11 deg. 25 min. S. longitude: 24 deg. 18 min. E. elevation: 1340m. Annual. Primitive Cultivar. Seed.
- PI 505755 donor id: ZM/A 5088. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5088. locality: Samahina, 79km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. remarks: Sown July/August, harvested December/January. Annual. Primitive Cultivar. Seed.
- PI 505756 donor id: ZM/A 5093. origin: Zambia. local name: Kahila. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5093. locality: Samahina, 79km N Mwinilunga, Northwestern Province. latitude: 11 deg. 12 min. S. longitude: 24 deg. 15 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.
- PI 505757 donor id: ZM/A 5099. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5099. locality: Katoka, 15km of Ikelenge to Nyakaseya, Northwestern Province. latitude: 11 deg. 10 min. S. longitude: 24 deg. 10 min. E. elevation: 1160m. Annual. Primitive Cultivar. Seed.
- PI 505758 donor id: ZM/A 5108. origin: Zambia. collected: June 17, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5108. locality: Nyakaseya, 90km N of Mwinilunga, Northwestern Province. latitude: 11 deg. 08 min. S. longitude: 24 deg. 08 min. E. elevation: 1130m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505759 donor id: ZM/A 5120. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5120. locality: Cibwika Dijimu, 65km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 15 min. S. longitude: 24 deg. 15 min. E. elevation: 1130m. remarks: Sown November, harvested April. Annual. Primitive Cultivar. Seed.
- PI 505760 donor id: ZM/A 5125. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5125. locality: Chiwoma, 91km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505761 donor id: ZM/A 5127. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5127. locality: Chiwoma, 91km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.
- PI 505762 donor id: ZM/A 5132. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5132. locality: Chiwoma, 91km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.
- PI 505763 donor id: ZM/A 5134. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5134. locality: Chiwoma, 91km to Mayinga (Kapompo), Northwestern Province. latitude: 11 deg. 20 min. S. longitude: 24 deg. 10 min. E. elevation: 1240m. Annual. Primitive Cultivar. Seed.
- PI 505764 donor id: ZM/A 5139. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5139. locality: Kanzenzi, 119km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 30 min. S. longitude: 24 deg. 10 min. E. elevation: 1130m. remarks: Sown October, harvested March. Annual. Primitive Cultivar. Seed.
- PI 505765 donor id: ZM/A 5146. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5146. locality: Mukoma, 160km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 50 min. S. longitude: 24 deg. 15 min. E. elevation: 1050m. remarks: Sown November, harvested April. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505766 donor id: ZM/A 5155. origin: Zambia. collected: June 18, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5155. locality: Lunsongwa, 186km to Mayinga (Kabompo), Northwestern Province. latitude: 11 deg. 02 min. S. longitude: 24 deg. 10 min. E. elevation: 1000m. remarks: Sown October, harvested April/May. Annual. Primitive Cultivar. Seed.
- PI 505767 donor id: ZM/A 5159. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5159. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505768 donor id: ZM/A 5167. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5167. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505769 donor id: ZM/A 5168. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5168. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505770 donor id: ZM/A 5169. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5169. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505771 donor id: ZM/A 5170. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5170. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505772 donor id: ZM/A 5171. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5171. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505773 donor id: ZM/A 5172. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5172. locality: Zambezi Market, 152km from Kabompo, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 23 deg. 08 min. E. elevation: 940m. Annual. Primitive Cultivar. Seed.
- PI 505774 donor id: ZM/A 5174. origin: Zambia. local name: Emivuale. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5174. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505775 donor id: ZM/A 5175. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5175. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505776 donor id: ZM/A 5176. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5176. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. Annual. Primitive Cultivar. Seed.
- PI 505777 donor id: ZM/A 5178. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5178. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. Annual. Primitive Cultivar. Seed.
- PI 505778 donor id: ZM/A 5179. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5179. locality: Lunkunyi, 43km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 12 min. S. longitude: 23 deg. 00 min. E. elevation: 935m. Annual. Primitive Cultivar. Seed.
- PI 505779 donor id: ZM/A 5183. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5183. locality: Chivombu, 58km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 08 min. S. longitude: 22 deg. 58 min. E. elevation: 930m. remarks: Sown October, harvested April/May. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505780 donor id: ZM/A 5185. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5185. locality: Chivombu, 58km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 08 min. S. longitude: 22 deg. 58 min. E. elevation: 930m. Annual. Primitive Cultivar. Seed.
- PI 505781 donor id: ZM/A 5195. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5195. locality: Kalombo, 73km N of Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 50 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505782 donor id: ZM/A 5200. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5200. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505783 donor id: ZM/A 5202. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5202. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505784 donor id: ZM/A 5212. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5212. locality: Sajungo/Chavuma, 94km N of Zambezi, Northwestern Province. latitude: 13 deg. 04 min. S. longitude: 22 deg. 45 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505785 donor id: ZM/A 5214. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5214. locality: Munenge, 30km of North Zambezi to Chavuma, Northwestern Province. latitude: 13 deg. 16 min. S. longitude: 23 deg. 04 min. E. elevation: 960m. Annual. Primitive Cultivar. Seed.
- PI 505786 donor id: ZM/A 5221. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5221. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505787 donor id: ZM/A 5226. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5226. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505788 donor id: ZM/A 5230. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5230. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505789 donor id: ZM/A 5231. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5231. locality: Msampula, 22km NE of Zambezi, Northwestern Province. latitude: 13 deg. 22 min. S. longitude: 23 deg. 12 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505790 donor id: ZM/A 5237. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5237. locality: Chibato, 27km NE of Zambezi, Northwestern Province. latitude: 13 deg. 20 min. S. longitude: 23 deg. 15 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505791 donor id: ZM/A 5238. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5238. locality: Chibato, 27km NE of Zambezi, Northwestern Province. latitude: 13 deg. 20 min. S. longitude: 23 deg. 15 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505792 donor id: ZM/A 5240. origin: Zambia. collected: June 19, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5240. locality: Chibato, 27km NE of Zambezi, Northwestern Province. latitude: 13 deg. 20 min. S. longitude: 23 deg. 15 min. E. elevation: 950m. Annual. Primitive Cultivar. Seed.
- PI 505793 donor id: ZM/A 5250. origin: Zambia. local name: Makaba. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5250. locality: Kafungamina, 82km S of Chizela, Northwestern Province. latitude: 13 deg. 28 min. S. longitude: 25 deg. 00 min. E. elevation: 1050m. remarks: Sown October, harvested May. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505794 donor id: ZM/A 5253. origin: Zambia. collected: June 20, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5253. locality: Kalengwa, 60km S of Chizela, Northwestern Province. latitude: 13 deg. 32 min. S. longitude: 25 deg. 00 min. E. elevation: 1100m. Annual. Primitive Cultivar. Seed.
- PI 505795 donor id: ZM/A 5257. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5257. locality: Chibayambaya, 50km S of Kasempa to Kaoma, Northwestern Province. latitude: 13 deg. 35 min. S. longitude: 25 deg. 30 min. E. elevation: 1080m. Annual. Primitive Cultivar. Seed.
- PI 505796 donor id: ZM/A 5265. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5265. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505797 donor id: ZM/A 5266. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5266. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505798 donor id: ZM/A 5271. origin: Zambia. collected: June 21, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5271. locality: Kalomwangi, 155km S of Kasempa to Kaoma, Northwestern Province. latitude: 14 deg. 15 min. S. longitude: 24 deg. 54 min. E. elevation: 1070m. remarks: Sown November, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505799 donor id: ZM/A 5281. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5281. locality: Lusitu, 51km from Siavonga to Lusaka, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 15 min. E. elevation: 350m. remarks: Sown October, harvested March. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505800 donor id: ZM/A 5285. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5285. locality: Mayumbo, 1 km from turn off to Gwembe, Southern Province. latitude: 28 deg. 45 min. S. longitude: 16 deg. 10 min. E. elevation: 370m. remarks: Sown November. Annual. Primitive Cultivar. Seed.
- PI 505801 donor id: ZM/A 5297. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5297. locality: Chaanga, 47km from turnoff to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505802 donor id: ZM/A 5307. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5307. locality: Syamyoolo, 67km from turn off to Gwembe, Southern Province. latitude: 28 deg. 20 min. S. longitude: 16 deg. 25 min. E. elevation: 520m. remarks: Sown November, harvested March. Annual. Primitive Cultivar. Seed.
- PI 505803 donor id: ZM/A 5314. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5314. locality: Nsalamunga, 83km from turn off to Gwembe, Southern Province. latitude: 28 deg. 05 min. S. longitude: 16 deg. 30 min. E. elevation: 510m. remarks: Sown December, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505804 donor id: ZM/A 5321. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5321. locality: Siamchila, 133km from turn off to Gwembe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 42 min. E. elevation: 640m. Annual. Primitive Cultivar. Seed.
- PI 505805 donor id: ZM/A 5333. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5333. locality: Munyumbwe, 146km from turn off to Gwembe, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 600m. Annual. Primitive Cultivar. Seed.
- PI 505806 donor id: ZM/A 5339. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5339. locality: Chipeco, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

- PI 505807 donor id: ZM/A 5346. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5346. locality: Chipepo, 28km from Munyumbwe, Southern Province. latitude: 27 deg. 50 min. S. longitude: 16 deg. 50 min. E. elevation: 460m. Annual. Primitive Cultivar. Seed.
- PI 505808 donor id: ZM/A 5348. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5348. locality: Munyumbwe village, Southern Province. latitude: 27 deg. 48 min. S. longitude: 16 deg. 45 min. E. elevation: 580m. Annual. Primitive Cultivar. Seed.
- PI 505809 donor id: ZM/A 5362. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5362. locality: Munsaga. 35km E of Choma to Maamba, Southern Province. latitude: 27 deg. 15 min. S. longitude: 16 deg. 54 min. E. elevation: 1180m. Annual. Primitive Cultivar. Seed.
- PI 505810 donor id: ZM/A 5369. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5369. locality: Siamungala, 70km of Choma to Maamba, Southern Province. latitude: 27 deg. 22 min. S. longitude: 17 deg. 08 min. E. elevation: 550m. Annual. Primitive Cultivar. Seed.
- PI 505811 donor id: ZM/A 5381. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5381. locality: Nkenga, 8km of Sinazeze to Sinazongwe, Southern Province. latitude: 27 deg. 28 min. S. longitude: 17 deg. 15 min. E. elevation: 490m. Annual. Primitive Cultivar. Seed.
- PI 505812 donor id: ZM/A 5394. origin: Zambia. collected: June 27, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5394. locality: Maamba, 98km from Choma, Southern Province. elevation: 540m. Annual. Primitive Cultivar. Seed.
- PI 505813 donor id: ZM/A 5400. origin: Zambia. collected: 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5400. locality: Sinazeze village, Southern Province. latitude: 27 deg. 25 min. S. longitude: 16 deg. 48 min. E. elevation: 0m. Annual. Primitive Cultivar. Seed.

PI 505747 to 505815-continued

PI 505814 donor id: ZM/A 5402. origin: Zambia. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5402. locality: Batoka, 30km N of Choma, Southern Province. latitude: 27 deg. 17 min. S. longitude: 16 deg. 48 min. E. Annual. Primitive Cultivar. Seed.

PI 505815 donor id: ZM/A 5405. origin: Zambia. collected: June 26, 1984. collector: A.F. Attere and G. Mlongoti. collector id: ZM/A 5405. locality: Chaanga, 47km from turn off to Gwembe, Southern Province. latitude: 28 deg. 28 min. S. longitude: 16 deg. 20 min. E. elevation: 490m. Annual. Breeding Material. Seed.

PI 505816. *Lycopersicon lycopersicum* (L.) Karsten SOLANACEAE Tomato

Donated by VIR, Leningrad, USSR. Received November 18, 1986.

PI 505816 donor id: 11727. origin: Soviet Union. cultivar: N 85 A. locality: Leningrad Region. remarks: Plants early maturing, medium yield. Cultivated. Seed.

PI 505817 to 505818. *Oryza sativa* L. POACEAE Rice

Donated by Carnahan, H.L., Calif. Co-op. Rice Research Foundation, Inc., Rice Experiment Station, P.O. Box 306, Biggs, California, United States. Received December 31, 1986.

PI 505817 donor id: 83-Y-414. origin: United States. cultivar: A-301. pedigree: F1 IR-22/R48//5915C/3/Della. remarks: Cultivar short statured, aromatic long grain type, photoperiod non-sensitive, intermediate maturity. Leaves and hulls glabrous. Awns and stigmas have anthocyanin pigmentation. Endosperm colorless, non-glutinous, aromatic ('popcorn flavor') with starch amylose content of 23.2%. Cultivar. Seed.

PI 505818 donor id: 84-Y-149. origin: United States. cultivar: M-102. pedigree: M-201/M-101. remarks: Cultivar short statured, medium grain type, photoperiod non-sensitive, very early maturity. Seedling vigor good. Endosperm colorless, non-glutinous, non-aromatic with starch amylose content of 18.2%. More resistant to stem rot than M-101. Cultivar. Seed.

PI 505819. *Triticum aestivum* L. POACEAE Common wheat

Donated by Sorrells, M.E., Department of Plant Breeding, Cornell University, Ithaca, New York, United States. Received December 29, 1986.

PI 505819-continued

PI 505819 donor id: NY 6120-15. origin: United States. cultivar: Geneva. pedigree: Ross wheat (Heine's VII)/3/ (NY5207aB-2B-34) Burt//Genesee/ CI 12658/4/Genesee. other id: CV-722. remarks: Soft white type. Yield and test weight high. Milling characteristics excellent. Susceptible to leaf rust, stripe rust, common bunt, and moderately susceptible to powdery mildew. disease resistance: Resistant to loose smut, SR10 gene for stem rust resistance. Winter Annual. Cultivar. Seed.

PI 505820. X Agrotriticum sp. POACEAE

Donated by Schaeffer, J.R., Department of Plant and Soil Science, Montana State University, Bozeman, Montana, United States. Received December 19, 1986.

PI 505820 donor id: MT-2. origin: United States. other id: NSSL Ser No. 206,309. other id: AP-5a-2. remarks: Plant amphiploid hybrid with shorter spike internodes, larger spikelets, and larger seed than Agropyron intermedium. received as: Agrotriticum intermidiodurum. Perennial. Breeding Material. Seed.

PI 505821. Beta lomatogona Fischer & C. Meyer CHENOPODIACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505821 donor id: VIR-1343. origin: Soviet Union. Cultivated. Seed.

PI 505822. Beta macrorhiza Steven CHENOPODIACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505822 donor id: VIR-1430. origin: Soviet Union. Cultivated. Seed.

PI 505823 to 505824. Beta trigyna Waldst. & Kit. CHENOPODIACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505823 donor id: VIR-1166. origin: Soviet Union. Cultivated. Seed.

PI 505824 donor id: VIR-2975. origin: Soviet Union. received as: B. corolliflora. Cultivated. Seed.

PI 505825 to 505830. *Beta vulgaris* L. subsp. *vulgaris* CHENOPODIACEAE
Beet

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505825 donor id: VIR-1442. origin: Soviet Union. cultivar:
Ramonskij Poligibrid 23. Cultivated. Seed.

PI 505826 donor id: VIR-1879. origin: Soviet Union. cultivar:
Belocerkovskij Poligibrid 34. Cultivated. Seed.

PI 505827 donor id: VIR-2085. origin: Soviet Union. cultivar:
Ganusovskij Poligibrid 40. Cultivated. Seed.

PI 505828 donor id: VIR-2156. origin: Soviet Union. cultivar:
Ganusovskij Poligibrid 8. Cultivated. Seed.

PI 505829 donor id: VIR-2261. origin: Soviet Union. cultivar:
Ramonskij Poligibrid 28. Cultivated. Seed.

PI 505830 donor id: VIR-2295. origin: Soviet Union. cultivar:
Kazahskij Poligibrid 24. Cultivated. Seed.

PI 505831. *Dactylis glomerata* L. POACEAE Orchardgrass

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505831 donor id: VIR-36095. origin: Soviet Union. cultivar:
Sverdlovskaja 79. Cultivated. Seed.

PI 505832 to 505835. *Festuca arundinacea* Schreber POACEAE Tall fescue

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505832 donor id: VIR-29487. origin: Soviet Union. cultivar:
Zapadnaja. Cultivated. Seed.

PI 505833 donor id: VIR-38650. origin: Soviet Union. Wild. Seed.

PI 505834 donor id: VIR-39582. origin: Soviet Union. cultivar:
Zarnica. Cultivated. Seed.

PI 505835 donor id: VIR-44742. origin: Soviet Union. cultivar:
Kirovskaja 50. Cultivated. Seed.

PI 505836 to 505839. *Helianthus annuus* L. ASTERACEAE Sunflower

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505836 donor id: VIR-1941. origin: Soviet Union. cultivar:
Odesskij 19. Cultivated. Seed.

PI 505836 to 505839-continued

PI 505837 donor id: VIR-2051. origin: Soviet Union. cultivar: Peredovik ul. Cultivated. Seed.

PI 505838 donor id: VIR-2113. origin: Soviet Union. cultivar: Voronezskij 151. Cultivated. Seed.

PI 505839 donor id: VIR-3321. origin: Soviet Union. cultivar: Odesskij 113. Cultivated. Seed.

PI 505840 to 505843. *Lolium perenne* L. POACEAE Perennial ryegrass

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505840 donor id: VIR-20258. origin: Soviet Union. cultivar: Leningradskij 809. Cultivated. Seed.

PI 505841 donor id: VIR-27879. origin: Soviet Union. cultivar: Vega. Cultivated. Seed.

PI 505842 donor id: VIR-31810. origin: Soviet Union. cultivar: Priekul'skij-59. Cultivated. Seed.

PI 505843 donor id: VIR-34642. origin: Soviet Union. cultivar: Morsanskij. Cultivated. Seed.

PI 505844 to 505848. *Lupinus albus* L. FABACEAE White lupine

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505844 donor id: VIR-1602. origin: Poland. cultivar: Bialy 1. Cultivated. Seed.

PI 505845 donor id: VIR-1640. origin: Soviet Union. cultivar: Nosovskij-3. Cultivated. Seed.

PI 505846 donor id: VIR-1904. origin: Soviet Union. cultivar: Kievskij Mutant. Cultivated. Seed.

PI 505847 donor id: VIR-2222. origin: Soviet Union. cultivar: Lotos. Cultivated. Seed.

PI 505848 donor id: VIR-2238. origin: Soviet Union. cultivar: Solnecnyj. Cultivated. Seed.

PI 505849 to 505856. *Lupinus luteus* L. FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505849 to 505856-continued

- PI 505849 donor id: VIR-1509. origin: Soviet Union. cultivar: Bystrorastuscij 4. Cultivated. Seed.
- PI 505850 donor id: VIR-1947. origin: Soviet Union. cultivar: Akademiceskij 1. Cultivated. Seed.
- PI 505851 donor id: VIR-2014. origin: Soviet Union. cultivar: Trebac. Cultivated. Seed.
- PI 505852 donor id: VIR-2106. origin: Poland. cultivar: Afus. Cultivated. Seed.
- PI 505853 donor id: VIR-2149. origin: Soviet Union. cultivar: Zitomirskijjubilejnyj. Cultivated. Seed.
- PI 505854 donor id: VIR-2200. origin: Soviet Union. cultivar: Goreckij. Cultivated. Seed.
- PI 505855 donor id: VIR-2200. origin: German Democratic Repub. cultivar: Borluta. Cultivated. Seed.
- PI 505856 donor id: VIR-2398. origin: Poland. cultivar: Cit. Cultivated. Seed.

PI 505857. *Medicago cancellata* M. Bieb. FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

- PI 505857 donor id: VIR-44575. origin: Soviet Union. locality: Stavropol Region. Wild. Seed.

PI 505858. *Medicago sativa* subsp. *praefalcata* (Sinsk.) Gunn FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

- PI 505858 donor id: VIR-16659. origin: Soviet Union. Wild. Seed.

PI 505859 to 505870. *Medicago sativa* L. FABACEAE Alfalfa

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

- PI 505859 donor id: VIR-19887. origin: Soviet Union. cultivar: Laborka. Cultivated. Seed.
- PI 505860 donor id: VIR-26704. origin: Soviet Union. cultivar: Semirecenskajamestnaja. Cultivated. Seed.
- PI 505861 donor id: VIR-29125. origin: Soviet Union. cultivar: Irtysskaja. Cultivated. Seed.

PI 505859 to 505870-continued

- PI 505862 donor id: VIR-36048. origin: Soviet Union. cultivar: Palava. Cultivated. Seed.
- PI 505863 donor id: VIR-36652. origin: Romania. cultivar: M-652. Cultivated. Seed.
- PI 505864 donor id: VIR-38270. origin: Soviet Union. cultivar: Karakalpakskaja-7. Cultivated. Seed.
- PI 505865 donor id: VIR-38407. origin: Soviet Union. cultivar: Semirecenskaja mestnaja. Cultivated. Seed.
- PI 505866 donor id: VIR-39090. origin: Hungary. cultivar: Lapioszelei. Cultivated. Seed.
- PI 505867 donor id: VIR-39112. origin: France. cultivar: Lutetia. Cultivated. Seed.
- PI 505868 donor id: VIR-39955. origin: Soviet Union. cultivar: Armianskaja. Cultivated. Seed.
- PI 505869 donor id: VIR-41443. origin: Romania. cultivar: Luxin. Cultivated. Seed.
- PI 505870 donor id: VIR-43789. origin: Soviet Union. cultivar: Ufimskaja 7. Cultivated. Seed.

PI 505871. *Medicago sativa* subsp. *caerulea* (Less. ex Ledeb.) Schmalh.
FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505871 donor id: VIR-35675. origin: Soviet Union. Wild. Seed.

PI 505872 to 505873. *Medicago sativa* subsp. *falcata* (L.) Arcang.
FABACEAE Yellow-flowered alfalfa

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505872 donor id: VIR-11766. origin: Soviet Union. locality: Rostov Region. received as: *Medicago quasifalcata*. Wild. Seed.

PI 505873 donor id: VIR-12437. origin: Soviet Union. locality: Lanov Region. received as: *Medicago borealis*. Wild. Seed.

PI 505874. *Medicago sativa* subsp. *praefalcata* (Sinsk.) Gunn FABACEAE
 Donated by VIR, Leningrad, USSR. Received November 06, 1986.
 PI 505874 donor id: VIR-16682. origin: Soviet Union. Wild. Seed.

PI 505875 to 505889. *Medicago sativa* nsubsp. *varia* (Martyn) Arcang.
 FABACEAE
 Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505875 donor id: VIR-19696. origin: Soviet Union. cultivar:
 Veselonodolianskaja 11. Cultivated. Seed.

PI 505876 donor id: VIR-23858. origin: Soviet Union. cultivar:
 Zajkevica Odessksaja. Cultivated. Seed.

PI 505877 donor id: VIR-26516. origin: Soviet Union. cultivar:
 Slavianskaja. Cultivated. Seed.

PI 505878 donor id: VIR-30106. origin: Soviet Union. cultivar:
 Kuzbasskaja. Cultivated. Seed.

PI 505879 donor id: VIR-31783. origin: Soviet Union. cultivar:
 Sortandinskaja 2. Cultivated. Seed.

PI 505880 donor id: VIR-33481. origin: Finland. cultivar:
 Jokioinen. Cultivated. Seed.

PI 505881 donor id: VIR-38385. origin: Soviet Union. cultivar:
 Leltogibridnaja 99. Cultivated. Seed.

PI 505882 donor id: VIR-38393. origin: Soviet Union. cultivar:
 Mestnaja Kulundinskaja. Cultivated. Seed.

PI 505883 donor id: VIR-39949. origin: Soviet Union. cultivar:
 Aridnaja. Cultivated. Seed.

PI 505884 donor id: VIR-39956. origin: Soviet Union. cultivar:
 Saaremskaja Gibridnaja. Cultivated. Seed.

PI 505885 donor id: VIR-39958. origin: Soviet Union. cultivar:
 Abajskaja 183. Cultivated. Seed.

PI 505886 donor id: VIR-43777. origin: Soviet Union. cultivar:
 Donskaja-1. Cultivated. Seed.

PI 505887 donor id: VIR-43787. origin: Soviet Union. cultivar:
 Krasnoobskaja 28. Cultivated. Seed.

PI 505888 donor id: VIR-44566. origin: Soviet Union. cultivar:
 Donskaja-2. Cultivated. Seed.

PI 505875 to 505889-continued

PI 505889 donor id: VIR-45041. origin: Soviet Union. cultivar:
Cisminskaja 131. Cultivated. Seed.

PI 505890. *Medicago sativa* nsubsp. *varia* (Martyn) Arcang. FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505890 donor id: VIR-13035. origin: Soviet Union. Wild. Seed.

PI 505891. *Onobrychis arenaria* (Kit. ex Willd.) DC. FABACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505891 donor id: VIR-29679. origin: Soviet Union. cultivar:
Pescanyj 1251. Cultivated. Seed.

PI 505892 to 505893. *Phalaris arundinacea* L. POACEAE Reed canarygrass

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505892 donor id: VIR-36034. origin: Soviet Union. cultivar:
Pervence. Cultivated. Seed.

PI 505893 donor id: VIR-37180. origin: Soviet Union. cultivar:
Kievskij. Cultivated. Seed.

PI 505894. *Phleum phleoides* (L.) Karsten POACEAE

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505894 donor id: VIR-45281. origin: Soviet Union. Wild. Seed.

PI 505895. *Phleum pratense* L. POACEAE Timothy

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505895 donor id: VIR-27649. origin: Soviet Union. cultivar:
Nikitaevskaja. Cultivated. Seed.

PI 505896 to 505899. *Poa pratensis* L. POACEAE Kentucky bluegrass

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505896 donor id: VIR-27856. origin: Soviet Union. cultivar:
Jugeva 1. Cultivated. Seed.

PI 505896 to 505899-continued

- PI 505897 donor id: VIR-27874. origin: Soviet Union. cultivar: Danga. Cultivated. Seed.
- PI 505898 donor id: VIR-27876. origin: Soviet Union. cultivar: Morsanskij 106. Cultivated. Seed.
- PI 505899 donor id: VIR-44591. origin: Soviet Union. cultivar: Sibirskij Dikorastuscij. Cultivated. Seed.

PI 505900 to 505922. *Trifolium pratense* L. FABACEAE Red clover

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

- PI 505900 donor id: VIR-3460. origin: Soviet Union. cultivar: Sujdinskij. Cultivated. Seed.
- PI 505901 donor id: VIR-23473. origin: Soviet Union. cultivar: Hibinskij. Cultivated. Seed.
- PI 505902 donor id: VIR-26047. origin: Soviet Union. cultivar: Sivoreckij 416. Cultivated. Seed.
- PI 505903 donor id: VIR-29280. origin: Soviet Union. cultivar: Kubanskij dvoukosnyi. Cultivated. Seed.
- PI 505904 donor id: VIR-29774. origin: Soviet Union. cultivar: Liepska. Cultivated. Seed.
- PI 505905 donor id: VIR-30854. origin: Soviet Union. cultivar: Penzenskij-1. Cultivated. Seed.
- PI 505906 donor id: VIR-31558. origin: Soviet Union. cultivar: Kameniaj. Cultivated. Seed.
- PI 505907 donor id: VIR-31744. origin: Soviet Union. cultivar: Pskovskij Mestnyj dvoukosnyi. Cultivated. Seed.
- PI 505908 donor id: VIR-31864. origin: Soviet Union. cultivar: Kiemanskij. Cultivated. Seed.
- PI 505909 donor id: VIR-31868. origin: Soviet Union. cultivar: Jugeva 433. Cultivated. Seed.
- PI 505910 donor id: VIR-34471. origin: Soviet Union. cultivar: Nosovskij. Cultivated. Seed.
- PI 505911 donor id: VIR-35857. origin: Soviet Union. cultivar: Poltavskij 75. Cultivated. Seed.
- PI 505912 donor id: VIR-36707. origin: Soviet Union. cultivar: Peredovik. Cultivated. Seed.

PI 505900 to 505922-continued

- PI 505913 donor id: VIR-37389. origin: Soviet Union. cultivar: Ternopol'skijmongolistockovyj. Cultivated. Seed.
- PI 505914 donor id: VIR-38019. origin: Soviet Union. cultivar: Novosibirskij St-1(4n). Cultivated. Seed.
- PI 505915 donor id: VIR-38156. origin: Soviet Union. cultivar: Belocvetkovyj. Cultivated. Seed.
- PI 505916 donor id: VIR-38168. origin: Soviet Union. cultivar: Belocvetkovyj 1829. Cultivated. Seed.
- PI 505917 donor id: VIR-38222. origin: Soviet Union. cultivar: Kotlasskij. Cultivated. Seed.
- PI 505918 donor id: VIR-38223. origin: Soviet Union. cultivar: Sever. Cultivated. Seed.
- PI 505919 donor id: VIR-38367. origin: Soviet Union. cultivar: Litvinovskij. Cultivated. Seed.
- PI 505920 donor id: VIR-38820. origin: Soviet Union. cultivar: Paksenskij Mestnyj. Cultivated. Seed.
- PI 505921 donor id: VIR-39831. origin: Soviet Union. cultivar: Dvinskaj. Cultivated. Seed.
- PI 505922 donor id: VIR-41229. origin: Soviet Union. cultivar: Skif-1. Cultivated. Seed.

PI 505923 to 505933. *Vicia sativa* L. FABACEAE Common vetch

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

- PI 505923 donor id: VIR-23970. origin: Soviet Union. cultivar: Lgovskaja 31-292. Cultivated. Seed.
- PI 505924 donor id: VIR-25783. origin: Soviet Union. cultivar: Kharkooskaja 134. Cultivated. Seed.
- PI 505925 donor id: VIR-31221. origin: Bulgaria. cultivar: M 135/794. Cultivated. Seed.
- PI 505926 donor id: VIR-34283. origin: Soviet Union. cultivar: Poltavskaja 78. Cultivated. Seed.
- PI 505927 donor id: VIR-34394. origin: Soviet Union. cultivar: Krasnodarskaja 7. Cultivated. Seed.
- PI 505928 donor id: VIR-34626. origin: Germany, Federal Rep of. cultivar: Heges Hellsamige. Cultivated. Seed.

PI 505923 to 505933-continued

PI 505929 donor id: VIR-35081. origin: Yugoslavia. cultivar: N 5.
Cultivated. Seed.

PI 505930 donor id: VIR-35309. origin: Soviet Union. cultivar:
Vinnickaja 45. Cultivated. Seed.

PI 505931 donor id: VIR-35456. origin: Soviet Union. cultivar:
Omicka. Cultivated. Seed.

PI 505932 donor id: VIR-35559. origin: Soviet Union. cultivar:
Belocerkovskaja 222. Cultivated. Seed.

PI 505933 donor id: VIR-35629. origin: Soviet Union. cultivar:
Omskaja 8. Cultivated. Seed.

PI 505934. *Vicia villosa* Roth FABACEAE Hairy vetch

Donated by VIR, Leningrad, USSR. Received November 06, 1986.

PI 505934 donor id: VIR-35973. origin: Soviet Union. cultivar:
Jubilejnaja. Cultivated. Seed.

PI 505935. *Citrullus lanatus* (Thunb.) Matsum. & Nakai CUCURBITACEAE
Watermelon

Donated by Lehman, W.F., Imperial Valley Agricultural Center,
University of California, El Centro, California, United States.
Received November 1986.

PI 505935 origin: China, Peoples Repub of. locality: Changsha,
Hunan Province. Cultivated. Seed.

PI 505936. *Cucumis melo* L. CUCURBITACEAE Muskmelon

Donated by Lehman, W.F., Imperial Valley Agricultural Center,
University of California, El Centro, California, United States.
Received November 1986.

PI 505936 origin: China, Peoples Repub of. locality: Changsha,
Hunan Province. Cultivated. Seed.

PI 505937 to 505939. *Salix alba* L. SALICACEAE White willow

Donated by Parfitt, R.I., Long Ashton Research Station, University
of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505937 to 505939-continued

PI 505937 origin: United Kingdom. cultivar: Drakenburg. other id: Q-25427. Cultivar. Cutting.

PI 505938 origin: United Kingdom. cultivar: Belders. other id: Q-25428. Cultivar. Cutting.

PI 505939 origin: United Kingdom. cultivar: Rosewarne. other id: Q-25429. Cultivar. Cutting.

PI 505940. *Salix daphnoides* Villars SALICACEAE Daphne willow

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505940 origin: United Kingdom. cultivar: Oxford Violet. other id: Q-25434. Cultivar. Cutting.

PI 505941. *Salix hybrid* SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505941 origin: United Kingdom. cultivar: Wantage Hall.
pedigree: *Salix alba*/*Salix alba* var. *calva*. other id: Q-25430. received as: *Salix alba coerulea*. Cultivar. Cutting.

PI 505942 to 505944. *Salix purpurea* L. SALICACEAE Purple osier

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505942 origin: United Kingdom. cultivar: Dicky Meadows. other id: Q-25419. Cultivar. Cutting.

PI 505943 origin: United Kingdom. cultivar: Green Dicks. other id: Q-25418. Cultivar. Cutting.

PI 505944 origin: United Kingdom. cultivar: Helix. other id: Q-25417. Cultivar. Cutting.

PI 505945. *Salix rigida* Muhlenb. SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505945 origin: United Kingdom. cultivar: American Mackay.
other id: Q-25435. Cultivar. Cutting.

PI 505946 to 505951. *Salix triandra* L. SALICACEAE Almond willow

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505946 origin: United Kingdom. cultivar: Black Spaniard. other id: Q-25423. Cultivar. Cutting.

PI 505947 origin: United Kingdom. cultivar: Black Top. other id: Q-25425. Cultivar. Cutting.

PI 505948 origin: United Kingdom. cultivar: Newkind. other id: Q-25421. Cultivar. Cutting.

PI 505949 origin: United Kingdom. cultivar: Pomeranian. other id: Q-25424. Cultivar. Cutting.

PI 505950 origin: United Kingdom. cultivar: Whissender. other id: Q-25420. Cultivar. Cutting.

PI 505951 origin: United Kingdom. cultivar: White Newkind. other id: Q-25422. Cultivar. Cutting.

PI 505952. *Salix x calodendron* Wimmer SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505952 origin: United Kingdom. other id: Q-25432. Cultivated. Cutting.

PI 505953. *Salix x dasyclados* Wimmer SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom.
Received December 1986.

PI 505953 origin: United Kingdom. other id: Q-25433. Cultivar. Cutting.

PI 505954. *Salix x mollissima* Ehrh. SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom. Received December 1986.

PI 505954 origin: United Kingdom. cultivar: Taylors Brown. other id: Q-25426. received as: *Salix x mollissima* var *hippohaefolia*. Cultivar. Cutting.

PI 505955. *Salix x rubens* Schrank SALICACEAE

Donated by Parfitt, R.I., Long Ashton Research Station, University of Bristol, Long Ashton, Bristol, England, United Kingdom. Received December 1986.

PI 505955 origin: United Kingdom. cultivar: Hutchinson's Yellow. other id: Q-25431. Cultivar. Cutting.

PI 505956 to 505977. *Arachis hypogaea* L. FABACEAE Peanut

Donated by Sambiani, A.D., Direction de la Recherche Agronomique, (DRA), Lome, Togo; and Ghesquiere, A., ORSTOM, Lab. de Genetique, Centre d'Adiopodoume, Bolte Postal V-51, Abidjan, Ivory Coast; and Djaneye, T.B., Direction de la Recherche Agronomique, (DRA), Lome, Togo. Received through IBPGR, Rome, Italy Received March 1985.

PI 505956 donor id: GS21. origin: Togo. local name: Soumbeda. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS21. other id: NAH 1-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Ghana border, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 00 deg. 06 min. E. remarks: Sown June, harvested August. Used for sauce, cake, oil. Annual. Primitive Cultivar. Seed.

PI 505957 donor id: GS22. origin: Togo. local name: Soumbalgo (Kombong). collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS22. other id: NAH 2-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Ghana, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 00 deg. 06 min. E. remarks: Sown June, harvested August. Annual. Primitive Cultivar. Seed.

PI 505956 to 505977-continued

- PI 505958 donor id: GS74. origin: Togo. local name: Atinamaga. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS74. other id: NAH 3-83. locality: Farmstore, Borgou, 51km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 45 min. N. longitude: 00 deg. 35 min. E. remarks: Sown June, harvested August/September. Used for oil, oilcake, sauce. Annual. Primitive Cultivar. Seed.
- PI 505959 donor id: GS126. origin: Togo. local name: Kombong. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS126. other id: NAH 4-83. locality: Farmstore, Nioukpourma, 11km W of Dapaong toward Nano, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 00 deg. 08 min. E. remarks: Sown June, harvested November. Eaten both fresh and dry. Annual. Primitive Cultivar. Seed.
- PI 505960 donor id: GS131. origin: Togo. local name: Kombong. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS131. other id: NAH 5-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 00 deg. 12 min. E. remarks: Sown June, harvested October/November. Annual. Primitive Cultivar. Seed.
- PI 505961 donor id: GS216. origin: Togo. local name: Akossinga. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS216. other id: NAH 6-83. locality: Farmstore, Siou, 20km W of Kpagouda toward Kante, Doufelgou Prefecture, Kara Region. latitude: 09 deg. 59 min. N. longitude: 001 deg. 12 min. E. remarks: Sown April, harvested June. Used for sauce, oil, oilcake. Annual. Primitive Cultivar. Seed.
- PI 505962 donor id: GS227. origin: Togo. local name: Feema. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS227. other id: NAH 7-83. locality: Defale-Lao, 15km N of Niamtougou toward Kante, Doufelgou Prefecture, Kara Region. latitude: 09 deg. 55 min. N. longitude: 001 deg. 05 min. E. remarks: Sown June, harvested September. Annual. Primitive Cultivar. Seed.

PI 505956 to 505977-continued

- PI 505963 donor id: GS254. origin: Togo. local name: Adjafi.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS254. other id: NAH
8-83. locality: Farmstore, Sara-Kawa, 70km S of Kante
toward Kara, Kozah Prefecture, Kara Region. latitude: 09
deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks:
Sown April, harvested July. Annual. Primitive Cultivar.
Seed.
- PI 505964 donor id: GS296. origin: Togo. local name: Ketou.
collected: December 16, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS296. other id: NAH
9-83. locality: Farmstore, Djamde, 34km W of Kara toward
Bassar, Kozah Prefecture, Kara Region. latitude: 09 deg.
31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown
April, harvested June. Annual. Primitive Cultivar.
Seed.
- PI 505965 donor id: GS296a. origin: Togo. collected: December 17,
1983. collector: A. Ghesquiere and A.D. Sambiani.
collector id: GS296a. other id: NAH 10-83. locality:
Farmstore, Kidjaboun, 19km NW of Guerin-Kouka toward
Mango, Bassar Prefecture, Kara Region. latitude: 09 deg.
47 min. N. longitude: 000 deg. 28 min. E. Annual.
Primitive Cultivar. Seed.
- PI 505966 donor id: GS340. origin: Togo. local name: Assilim.
collected: December 18, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS340. other id: NAH
11-83. locality: Farmstore, Kabou, 22km N of Bassar
toward Guerin-Kouka, Bassar Prefecture, Kara Region.
latitude: 09 deg. 28 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown May, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 505967 donor id: GS346. origin: Togo. local name: Aslim.
collected: December 18, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS346. other id: NAH
12-83. locality: Farmstore, Bidjabe, 24km W of Bassar
toward Ghana, Bassar Prefecture, Kara Region. latitude:
09 deg. 19 min. N. longitude: 000 deg. 35 min. E.
Annual. Primitive Cultivar. Seed.
- PI 505968 donor id: GS385. origin: Togo. local name: Tem-keke.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS385. other id: NAH
14-83. locality: Farmstore, Koloware, 16km E of Sokode
toward Tchamba, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min.
E. remarks: Sown April, harvested August. Annual.
Primitive Cultivar. Seed.

PI 505956 to 505977-continued

- PI 505969 donor id: GS395. origin: Togo. local name: Kabye-Nogdoum. collected: December 20, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS395. other id: NAH 15-83. locality: Farmstore, Lama-Tessi, 18km S of Sokode toward Sotoubolia, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 90 min. N. longitude: 001 deg. 05 min. E. remarks: Sown April, harvested July. Annual. Primitive Cultivar. Seed.
- PI 505970 donor id: DS422. origin: Togo. local name: Yobossi. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS422. other id: PAH 2-84. locality: Farmstore, Gleï, 19km S of Atakpame toward Notse, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 19 min. N. longitude: 001 deg. 10 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505971 donor id: DS445. origin: Togo. local name: Ketou. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS445. other id: PAH 3-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown June, harvested August. Annual. Primitive Cultivar. Seed.
- PI 505972 donor id: DS547. origin: Togo. local name: Evin. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS547. other id: PAH 6-84. locality: Farmstore, Danyi-Apeyeme, 17km NW of Adeta toward Danyi-Elav, Kloto Prefecture, Plateaux Region. latitude: 07 deg. 12 min. N. longitude: 000 deg. 42 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.
- PI 505973 donor id: DS586. origin: Togo. local name: Azin. collected: March 07, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS586. other id: MAH 2-84. locality: Farmstore, Agbanakin, 42km E of Aneho toward Benin, Lacs Prefecture, Maritime Region. latitude: 06 deg. 17 min. N. longitude: 001 deg. 48 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.

PI 505956 to 505977-continued

PI 505974 donor id: DS590. origin: Togo. local name: Moto.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS590. other id: MAH 3-84.
locality: Farmstore, Aklakou, 16km NE of Aneho toward
Aveve, Lacs Prefecture, Maritime Region. latitude: 06
deg. 20 min. N. longitude: 001 deg. 43 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.

PI 505975 donor id: DS596. origin: Togo. local name: Kouitondji.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS596. other id: MAH 4-84.
locality: Farmstore, Anfoin, 11km N of Aneho toward
Tabligbo, Lacs Prefecture, Maritime Region. latitude: 06
deg. 20 min. N. longitude: 001 deg. 37 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.

PI 505976 donor id: DS619. origin: Togo. local name: Azin.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS619. other id: MAH 7-84.
locality: Farmstore, Sanguera, 20km NW of Lome toward
Kpalime, Golfe Prefecture, Maritime Region. latitude: 06
deg. 14 min. N. longitude: 001 deg. 06 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.

PI 505977 donor id: DS623. origin: Togo. local name: Ajinkoukpe.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS623. other id: MAH 8-84.
locality: Farmstore, Madjikpeto, 20km N of Lome toward
Mission-Tove, Golfe Prefecture, Maritime Region.
latitude: 06 deg. 16 min. N. longitude: 001 deg. 08 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.

PI 505978 to 506009. Pennisetum glaucum (L.) R. Br. POACEAE Pearl
millet

Donated by Sambiani, A.D., Direction de la Recherche Agronomique,
(DRA), Lome, Togo; and Ghesquiere, A., ORSTOM, Lab. de Genetique,
Centre d'Adiopodoume, Bolte Postal V-51, Abidjan, Ivory Coast; and
Djaneye, T.B., Direction de la Recherche Agronomique, (DRA), Lome,
Togo. Received through IBPGR, Rome, Italy Received March 1985.

PI 505978 to 506009-continued

- PI 505978 donor id: GS06. origin: Togo. local name: Nada. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS06. other id: NPT 1-83. locality: Farmstore, Gouloungossi, 20km NW of Cinkasse toward Ghana, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. E. remarks: Sown May, harvested July. Used for paste or dough. Annual. Primitive Cultivar. Seed.
- PI 505979 donor id: GS07. origin: Togo. local name: Za-Sablega. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS07. other id: NPT 2-83. locality: Farmstore, Gouloungossi, 20km NW of Cinkasse toward Ghana, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. E. remarks: Sown May, harvested October. Used for paste or dough. Annual. Primitive Cultivar. Seed.
- PI 505980 donor id: GS08. origin: Togo. local name: Za-Pielga. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS08. other id: NPT 3-83. locality: Farmstore, Gouloungossi, 20km NW of Cinkasse toward Ghana, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. E. remarks: Sown May, harvested October. Used for paste or dough. Annual. Primitive Cultivar. Seed.
- PI 505981 donor id: GS09. origin: Togo. local name: Nada. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS09. other id: NPT 4-83. locality: Farmstore, Gouloungossi, 20km NW of Cinkasse toward Ghana, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. E. remarks: Sown May, harvested July. Annual. Primitive Cultivar. Seed.
- PI 505982 donor id: GS30. origin: Togo. local name: Kazoia Bissa. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS30. other id: NPT 5-83. locality: Farmstore, Timbou, 24km N of Dapaong toward Burkina Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.

PI 505978 to 506009-continued

- PI 505983 donor id: GS31. origin: Togo. local name: Kazoia Moba. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS31. other id: NPT 6-83. locality: Farmstore, Timbou, 24km N of Dapaong toward Burkina Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 505984 donor id: GS35. origin: Togo. local name: Yoyi. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS35. other id: NPT 7-83. locality: Farmstore, Mandouri, 85km E of Dapaong toward Benin, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 49 min. E. remarks: Sown April/May, harvested September. Used for paste or dough. Annual. Primitive Cultivar. Seed.
- PI 505985 donor id: GS36. origin: Togo. local name: Gnali. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS36. other id: NPT 8-83. locality: Farmstore, Mandouri, 85km E of Dapaong toward Benin, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 49 min. E. remarks: Sown April, harvested June. Used for paste or dough. Annual. Primitive Cultivar. Seed.
- PI 505986 donor id: GS55. origin: Togo. local name: Iyori. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS55. other id: NPT 9-83. locality: Farmstore, Koundjouare, 65km NE of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 10 deg. 56 min. N. longitude: 000 deg. 38 min. E. remarks: Sown May/June, harvested October/November. Used for paste or flour. Annual. Primitive Cultivar. Seed.
- PI 505987 donor id: GS56. origin: Togo. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS56. other id: NPT 10-83. locality: Farmstore, Koundjouare, 65km NE of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 10 deg. 56 min. N. longitude: 000 deg. 38 min. E. Annual. Primitive Cultivar. Seed.

PI 505978 to 506009-continued

- PI 505988 donor id: GS78. origin: Togo. local name: Gnari.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS78. other id: NPT
11-83. locality: Farmstore, Pana, 17km E of Dapaong
toward Mandouri, Tone Prefecture, Savanes Region.
latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min.
E. remarks: Sown April, harvested June. Used for paste.
Annual. Primitive Cultivar. Seed.
- PI 505989 donor id: GS79. origin: Togo. local name: Yoyi.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS79. other id: NPT
12-83. locality: Farmstore, Pana, 17km E of Dapaong
toward Mandouri, Tone Prefecture, Savanes Region.
latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min.
E. remarks: Sown May/June, harvested October/November.
Used for paste. Annual. Primitive Cultivar. Seed.
- PI 505990 donor id: GS123. origin: Togo. local name: Yoi.
collected: December 13, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS123. other id: NPT
13-83. locality: Farmstore, Nioukpourma, 11km W of
Dapaong toward Nano, Tone Prefecture, Savanes Region.
latitude: 10 deg. 50 min. N. longitude: 000 deg. 08 min.
E. remarks: Sown May, harvested October. Annual.
Primitive Cultivar. Seed.
- PI 505991 donor id: GS124. origin: Togo. local name: Gnari.
collected: December 13, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS124. other id: NPT
14-83. locality: Farmstore, Nioukpourma, 11km W of
Dapaong toward Nano, Tone Prefecture, Savanes Region.
latitude: 10 deg. 50 min. N. longitude: 000 deg. 08 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 505992 donor id: GS130. origin: Togo. local name: Yoyi.
collected: December 14, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS130. other id: NPT
16-83. locality: Farmstore, Barkoissi, 50km S of Dapaong
toward Mango, Oti Prefecture, Savanes Region. latitude:
10 deg. 33 min. N. longitude: 000 deg. 12 min. E.
remarks: Sown June, harvested November/December. Used for
paste. Annual. Primitive Cultivar. Seed.

- PI 505993 donor id: GS153. origin: Togo. local name: Iyo.
collected: December 14, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS153. other id: NPT
17-83. locality: Farmstore, Gando, 32km E of Mango
toward Benin frontier, Oti Prefecture, Savanes Region.
latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min.
E. remarks: Sown May, harvested October/November.
Annual. Primitive Cultivar. Seed.
- PI 505994 donor id: GS154. origin: Togo. local name: Ignadjei.
collected: December 14, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS154. other id: NPT
18-83. locality: Farmstore, Gando, 32km E of Mango
toward Benin frontier, Oti Prefecture, Savanes Region.
latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 505995 donor id: GS155. origin: Togo. local name: Ignanil.
collected: December 14, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS155. other id: NPT
19-83. locality: Farmstore, Gando, 32km E of Mango
toward Benin frontier, Oti Prefecture, Savanes Region.
latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 505996 donor id: GS169. origin: Togo. local name: Amar.
collected: December 14, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS169. other id: NPT
20-83. locality: Farmstore, Kadjalla, 19km S of Kante
toward Sara-Kawa, Keran Prefecture, Kara Region.
latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min.
E. Annual. Primitive Cultivar. Seed.
- PI 505997 donor id: GS194. origin: Togo. local name: Agmade.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS194. other id: NPT
21-83. locality: Farmstore, Koumerida, 26km NE of Kara
toward Kpagouda, Binah Prefecture, Kara Region.
latitude: 09 deg. 40 min. N. longitude: 001 deg. 21 min.
E. remarks: Sown April, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 505998 donor id: GS213. origin: Togo. local name: Amala.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS213. other id: NPT
22-83. locality: Farmstore, Kpagouda, 39km NE of Kara
toward Siou, Binah Prefecture, Kara Region. latitude: 09
deg. 45 min. N. longitude: 001 deg. 20 min. E. remarks:
Sown April/May, harvested November/December. Annual.
Primitive Cultivar. Seed.

PI 505978 to 506009-continued

- PI 505999 donor id: GS214. origin: Togo. local name: Missi. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS214. other id: NPT 23-83. locality: Farmstore, Kpagouda, 39km NE of Kara toward Siou, Binah Prefecture, Kara Region. latitude: 09 deg. 45 min. N. longitude: 001 deg. 20 min. E. remarks: Sown April, harvested May/June. Annual. Primitive Cultivar. Seed.
- PI 506000 donor id: GS238. origin: Togo. local name: Amala. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS238. other id: NPT 24-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506001 donor id: GS274. origin: Togo. local name: Maiwari. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS274. other id: NPT 25-83. locality: Farmstore, Soudou, 12km E of Bafilo toward Benin, Assoli Prefecture, Kara Region. latitude: 09 deg. 22 min. N. longitude: 001 deg. 20 min. E. Annual. Primitive Cultivar. Seed.
- PI 506002 donor id: GS295. origin: Togo. local name: Amala. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS295. other id: NPT 26-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Kozah Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown May, harvested September/October. Annual. Primitive Cultivar. Seed.
- PI 506003 donor id: GS308. origin: Togo. local name: Iyo. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS308. other id: NPT 27-83. locality: Farmstore, Katchamba, 33km NW of Guerinkouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown August, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506004 donor id: GS316. origin: Togo. local name: Iyou. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS316. other id: NPT 28-83. locality: Farmstore, Kidjaboun, 19km NW of Guerinkouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown May, harvested August. Used for paste. Annual. Primitive Cultivar. Seed.

PI 505978 to 506009-continued

- PI 506005 donor id: GS324. origin: Togo. local name: Amade.
collected: December 17, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS324. other id: NPT
29-83. locality: Farmstore, Bilabessa, 5km S of
Guerinkouka toward Kabou, Bassar Prefecture, Kara Region.
remarks: Sown May, harvested December. Used for paste,
beer or drink. Annual. Primitive Cultivar. Seed.
- PI 506006 donor id: GS329. origin: Togo. local name: Iyo.
collected: December 17, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS329. other id: NPT
30-83. locality: Farmstore, Kabou, 22km N of Bassar
toward Gerin-Kouka, Bassar Prefecture, Kara Region.
latitude: 09 deg. 28 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown August, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 506007 donor id: GS343. origin: Togo. local name: Iyo.
collected: December 18, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS343. other id: NPT
31-83. locality: Farmstore, Bidjabe, 22km W of Bassar
toward Ghana, Bassar Prefecture, Kara Region. latitude:
09 deg. 19 min. N. longitude: 000 deg. 35 min. E.
Annual. Primitive Cultivar. Seed.
- PI 506008 donor id: GS386. origin: Togo. local name: Adalla.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS386. other id: NPT
32-83. locality: Farmstore, Koloware, 16km E of Sokode
toward Tchamba, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min.
E. remarks: Sown June, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 506009 donor id: GS396. origin: Togo. local name: Adalla.
collected: December 20, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS396. other id: NPT
33-83. locality: Farmstore, Lama-Tessi, 18km S of Sokode
toward Sotouboua, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 90 min. N. longitude: 001 deg. 05 min.
E. remarks: Sown July, harvested December. Annual.
Primitive Cultivar. Seed.

PI 506010 to 506131. Sorghum bicolor (L.) Moench POACEAE Sorghum

Donated by Sambiani, A.D., Direction de la Recherche Agronomique,
(DRA), Lome, Togo; and Ghesquiere, A., ORSTOM, Lab. de Genetique,
Centre d'Adiopodoume, Bolte Postal V-51, Abidjan, Ivory Coast; and
Djaneye, T.B., Direction de la Recherche Agronomique, (DRA), Lome,
Togo. Received through IBPGR, Rome, Italy Received March 1985.

PI 506010 to 506131-continued

- PI 506010 donor id: GS01. origin: Togo. local name: Naga. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS01. other id: NSV 1-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. W. remarks: Sown May, harvested August. Used for beer, dough and cooked cereal. Annual. Primitive Cultivar. Seed.
- PI 506011 donor id: GS02. origin: Togo. local name: Yarba. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS02. other id: NSV 2-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. W. remarks: Sown May, harvested August. Used for beer, dough and uncooked. Annual. Primitive Cultivar. Seed.
- PI 506012 donor id: GS03. origin: Togo. local name: Wilnaga. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS03. other id: NSV 3-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. W. remarks: Sown May, harvested July. Used for beer and dough. Annual. Primitive Cultivar. Seed.
- PI 506013 donor id: GS04. origin: Togo. local name: Belko. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS04. other id: NSV 4-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. W. remarks: Sown June, harvested December. Used for uncooked cereal, beer and dough. Annual. Primitive Cultivar. Seed.
- PI 506014 donor id: GS05. origin: Togo. local name: Yarba. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS05. other id: NSV 5-83. locality: Farmstore, Gouloungossi, 20km N of Cinkasse toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min. W. remarks: Sown May, harvested July. Eaten uncooked. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506015 donor id: GS27. origin: Togo. local name: Belko.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS27. other id: NSV
6-83. locality: Farmstore, Timbou, 24km N of Dapaong
toward Burkino Faso, Tone Prefecture, Savanes Region.
latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min.
E. remarks: Sown June, harvested October. Annual.
Primitive Cultivar. Seed.
- PI 506016 donor id: GS28. origin: Togo. local name: Karaga.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS28. other id: NSV
7-83. locality: Farmstore, Timbou, 24km N of Dapaong
toward Burkino Faso, Tone Prefecture, Savanes Region.
latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min.
E. remarks: Sown May, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 506017 donor id: GS29. origin: Togo. local name: Belko.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS29. other id: NSV
8-83. locality: Farmstore, Timbou, 24km N of Dapaong
toward Burkino Faso, Tone Prefecture, Savanes Region.
latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min.
E. remarks: Sown June, harvested October. Annual.
Primitive Cultivar. Seed.
- PI 506018 donor id: GS37. origin: Togo. local name: Dimoni.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS37. other id: NSV
9-83. locality: Farmstore, Mandouri, 85km E of Dapaong
toward Benin, Tone Prefecture, Savanes Region. latitude:
10 deg. 50 min. N. longitude: 000 deg. 49 min. E.
remarks: Sown May, harvested September/October. Used for
beer and dough. Annual. Primitive Cultivar. Seed.
- PI 506019 donor id: GS38. origin: Togo. local name: Dimoni.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS38. other id: NSV
10-83. locality: Farmstore, Mandouri, 85km E of Dapaong
toward Benin, Tone Prefecture, Savanes Region. latitude:
10 deg. 50 min. N. longitude: 000 deg. 49 min. E.
remarks: Sown May, harvested September/October. Used for
beer and dough. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506020 donor id: GS39. origin: Togo. local name: Tchali.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS39. other id: NSV
11-83. locality: Farmstore, Mandouri, 85km E of Dapaong
toward Benin, Tone Prefecture, Savanes Region. latitude:
10 deg. 50 min. N. longitude: 000 deg. 49 min. E.
remarks: Sown May, harvested September. Used for dough
and beer. Annual. Primitive Cultivar. Seed.
- PI 506021 donor id: GS40. origin: Togo. local name: Tchali.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS40. other id: NSV
12-83. locality: Farmstore, Mandouri 85km E of Dapaong
toward Benin, Tone Prefecture, Savanes Region. latitude:
10 deg. 50 min. N. longitude: 000 deg. 49 min. E.
remarks: Sown May, harvested September. Used for beer and
dough. Annual. Primitive Cultivar. Seed.
- PI 506022 donor id: GS41. origin: Togo. local name: Tchali.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS41. other id: NSV
13-83. locality: Farmstore, Mandouri, 85km E of Dapaong
toward Benin, Tone Prefecture, Savanes Region. latitude:
10 deg. 50 min. N. longitude: 000 deg. 49 min. E.
remarks: Sown May, harvested September. Used for beer and
dough. Annual. Primitive Cultivar. Seed.
- PI 506023 donor id: GS50. origin: Togo. local name: Tchelouol.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS50. other id: NSV
14-83. locality: Farmstore, Koundjouare, 65km NE of
Dapaong toward Burkino Faso, Tone Prefecture, Savanes
Region. latitude: 10 deg. 56 min. N. longitude: 000
deg. 38 min. E. remarks: Sown May, harvested August.
Used for beer and dough. Annual. Primitive Cultivar.
Seed.
- PI 506024 donor id: GS51. origin: Togo. local name: Tchalpieni.
collected: December 12, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS51. other id: NSV
15-83. locality: Farmstore, Koundjouare, 65km NE of
Dapaong toward Burkino Faso, Tone Prefecture, Savanes
Region. latitude: 10 deg. 56 min. N. longitude: 000
deg. 38 min. E. remarks: Sown May, harvested July. Used
for dough and beer. Annual. Primitive Cultivar. Seed.

- PI 506025 donor id: GS52. origin: Togo. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS52. other id: NSV 16-83. locality: Farmstore, Koundjouare, 65km NE of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 10 deg. 56 min. N. longitude: 000 deg. 38 min. E. Annual. Primitive Cultivar. Seed.
- PI 506026 donor id: GS53. origin: Togo. local name: Nabanl. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS53. other id: NSV 17-83. locality: Farmstore, Koundjouare, 65km NE of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 10 deg. 56 min. N. longitude: 000 deg. 38 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506027 donor id: GS54. origin: Togo. local name: Outchitawa. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS54. other id: NSV 18-83. locality: Farmstore, Koundjouare, 65km NE of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 10 deg. 56 min. N. longitude: 000 deg. 38 min. E. remarks: Sown May, harvested October. Used for dough and beer. Annual. Primitive Cultivar. Seed.
- PI 506028 donor id: GS80. origin: Togo. local name: Souog. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS80. other id: NSV 19-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506029 donor id: GS81. origin: Togo. local name: Kpana. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS81. other id: NSV 20-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested October. Used for beer, dough and cooked cereal. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506030 donor id: GS82. origin: Togo. local name: Tchinelouol. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS82. other id: NVS 21-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested October. Used for beer and dough. Annual. Primitive Cultivar. Seed.
- PI 506031 donor id: GS83. origin: Togo. local name: Gnakpodougue. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS83. other id: NSV 22-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested August. Eaten uncooked. Annual. Primitive Cultivar. Seed.
- PI 506032 donor id: GS84. origin: Togo. local name: Tchalg. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS84. other id: NSV 23-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506033 donor id: GS85. origin: Togo. local name: Tchalg. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS85. other id: NSV 24-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506034 donor id: GS87. origin: Togo. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS87. other id: NSV 26-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. Annual. Primitive Cultivar. Seed.
- PI 506035 donor id: GS107. origin: Togo. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS107. other id: NSV 28-83. locality: Farmstore, Bogou, 29km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 39 min. N. longitude: 000 deg. 11 min. E. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506036 donor id: GS108. origin: Togo. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS108. other id: NSV 29-83. locality: Farmstore, Bogou, 29km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 39 min. N. longitude: 000 deg. 11 min. E. Annual. Primitive Cultivar. Seed.
- PI 506037 donor id: GS109. origin: Togo. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS109. other id: NSV 30-83. locality: Farmstore, Bogou, 29km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 39 min. N. longitude: 000 deg. 11 min. E. Annual. Primitive Cultivar. Seed.
- PI 506038 donor id: GS116. origin: Togo. local name: Dimontongh. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS116. other id: NSV 31-83. locality: Farmstore, Nioukpourma, 11km W of Dapaong toward Nano, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 08 min. E. remarks: Sown April, harvested July/August. Used for dough and dysentery. Annual. Primitive Cultivar. Seed.
- PI 506039 donor id: GS117. origin: Togo. local name: Belko. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS117. other id: NSV 32-83. locality: Farmstore, Nioukpourma, 11km W of Dapaong toward Nano, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 08 min. E. remarks: Sown April, harvested July. Used for dough and beer. Annual. Primitive Cultivar. Seed.
- PI 506040 donor id: GS127. origin: Togo. local name: Mougldi. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS127. other id: NSV 33-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506041 donor id: GS128. origin: Togo. local name: Cancakman. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS128. other id: NSV 34-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown May, harvested August. Used for cane sugar. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506042 donor id: GS148. origin: Togo. local name: Itchalimon. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS148. other id: NSV 35A-83. locality: Farmstore, Gando, 32km E of Mango toward Benin, Oti Prefecture, Savanes Region. latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min. E. remarks: Sown May/June, harvested October/November. Used for dough and beer. Annual. Primitive Cultivar. Seed.
- PI 506043 donor id: GS149. origin: Togo. local name: Itchalimon. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS149. other id: NSV 35B-83. locality: Farmstore, Gando, 32km E of Mango toward Benin, Oti Prefecture, Savanes Region. latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506044 donor id: GS151. origin: Togo. local name: Kantawagui. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS151. other id: NSV 37-83. locality: Farmstore, Gando, 32km E of Mango toward Benin, Oti Prefecture, Savanes Region. latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506045 donor id: GS152. origin: Togo. local name: Itchalpien. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS152. other id: NSV 38-83. locality: Farmstore, Gando, 32km E of Mango toward Benin, Oti Prefecture, Savanes Region. latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min. E. remarks: Sown May, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506046 donor id: GS162. origin: Togo. local name: Gbesho Abalou. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS162. other id: NSV 39-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested September. Used for dough and cooked cereal. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506047 donor id: GS163. origin: Togo. local name: Gbesho Yali. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS163. other id: NSV 40-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested September. Used for beer, dough and cooked cereal. Annual. Primitive Cultivar. Seed.
- PI 506048 donor id: GS164. origin: Togo. local name: Aminosemo. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS164. other id: NSV 41-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 58 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506049 donor id: GS165. origin: Togo. local name: Aminofoulmo. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS165. other id: NSV 42-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506050 donor id: GS166. origin: Togo. local name: Milfoulm. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS166. other id: NSV 43-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506051 donor id: GS167. origin: Togo. local name: Hinesingbir. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS167. other id: NSV 44-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506052 donor id: GS168. origin: Togo. local name: Ouyithagoun. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS168. other id: NSV 45-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Sara-Kawa, Kozah Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506053 donor id: GS181. origin: Togo. local name: Gmaou. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS181. other id: NSV 46A-83. locality: Farmstore, Koumerida, 26km NE of Kara toward Benin, Binah Prefecture, Kara Region. latitude: 09 deg. 40 min. N. longitude: 001 deg. 21 min. E. remarks: Sown April, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506054 donor id: GS182. origin: Togo. local name: Gmaou. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS182. other id: NSV 46B-83. locality: Farmstore, Koumerida, 26km NE of Kara toward Benin, Binah Prefecture, Kara Region. latitude: 09 deg. 40 min. N. longitude: 001 deg. 21 min. E. remarks: Sown April, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506055 donor id: GS183. origin: Togo. local name: Mila. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS183. other id: NSV 47-83. locality: Farmstore, Koumerida, 26km NE of Kara toward Benin, Binah Prefecture, Kara Region. latitude: 09 deg. 40 min. N. longitude: 001 deg. 21 min. E. remarks: Sown April, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506056 donor id: GS184. origin: Togo. local name: Tcharabaou. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS184. other id: NSV 48-83. locality: Farmstore, Koumerida, 26km NE of Kara toward Benin, Binah Prefecture, Kara Region. latitude: 09 deg. 40 min. N. longitude: 001 deg. 21 min. E. remarks: Sown April, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506057 donor id: GS198. origin: Togo. local name: Casisenga. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS198. other id: NSV 49-83. locality: Farmstore, Kpagouda, 39km NE of Kara toward Siou, Doufelgou Prefecture, Kara Region. latitude: 09 deg. 45 min. N. longitude: 001 deg. 20 min. E. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506058 donor id: GS199. origin: Togo. local name: Mila. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS199. other id: NSV 50-83. locality: Farmstore, Kpagouda, 39km NE of Kara toward Siou, Doufelgou Prefecture, Kara Region. latitude: 09 deg. 45 min. N. longitude: 001 deg. 20 min. E. Annual. Primitive Cultivar. Seed.
- PI 506059 donor id: GS215. origin: Togo. local name: Djafougou-Hondidjona. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS215. other id: NSV 51-83. locality: Farmstore, Siou, 20km NW of Kpagouda toward Kante, Binah Prefecture, Kara Region. latitude: 09 deg. 59 min. N. longitude: 001 deg. 12 min. E. remarks: Sown April, harvested December. Used for beer, DOUGH>. Annual. Primitive Cultivar. Seed.
- PI 506060 donor id: GS228. origin: Togo. local name: Kpandia. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS228. other id: NSV 52-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March/April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506061 donor id: GS229. origin: Togo. local name: Kpetir. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS229. other id: NSV 53A-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506062 donor id: GS230. origin: Togo. local name: Kpetir Kisemir. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS230. other id: NSV 53B-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506063 donor id: GS231. origin: Togo. local name: Alousese. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS231. other id: NSV 54-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506064 donor id: GS232. origin: Togo. local name: Kamgnia. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS232. other id: NSV 55-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506065 donor id: GS233. origin: Togo. local name: Kat'Tchalla. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS233. other id: NSV 56-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506066 donor id: GS234. origin: Togo. local name: Henasolmir. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS234. other id: NSV 57-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506067 donor id: GS235. origin: Togo. local name: Kadoulamila. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS235. other id: NSV 58-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested November. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506068 donor id: GS237. origin: Togo. local name: Massongue. collected: December 15, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS237. other id: NSV 60-83. locality: Farmstore, Sara-Kawa, 70km S of Kante toward Kara, Kozah Prefecture, Kara Region. latitude: 09 deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506069 donor id: GS259. origin: Togo. local name: Mbonou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS259. other id: NSV 61-83. locality: Farmstore, Soudou, 12km E of Bafilo toward Benin, Assoli Prefecture, Kara Region. latitude: 09 deg. 22 min. N. longitude: 001 deg. 20 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506070 donor id: GS260. origin: Togo. local name: Gaourou-Daneri. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS260. other id: NSV 62-83. locality: Farmstore, Soudou, 12km E of Bafilo toward Benin, Assoli Prefecture, Kara Region. latitude: 09 deg. 22 min. N. longitude: 001 deg. 20 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506071 donor id: GS261. origin: Togo. local name: Folibazy. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS261. other id: NSV 63-83. locality: Farmstore, Soudou, 12km E of Bafilo toward Benin, Assoli Prefecture, Kara Region. latitude: 09 deg. 22 min. N. longitude: 001 deg. 20 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506072 donor id: GS262. origin: Togo. local name: Gaourou-Waderi. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS262. other id: NSV 64-83. locality: Farmstore, Soudou, 12km E of Bafilo toward Benin, Assoli Prefecture, Kara Region. latitude: 09 deg. 22 min. N. longitude: 001 deg. 20 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506073 donor id: GS275. origin: Togo. local name: Adjito. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS275. other id: NSV 65-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506074 donor id: GS276. origin: Togo. local name: Tchakpaou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS276. other id: NSV 66-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506075 donor id: GS277. origin: Togo. local name: Takpalicouhoulmou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS277. other id: NSV 67A-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506076 donor id: GS278. origin: Togo. local name: Takpalicouhoulmou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS278. other id: NSV 67B-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506077 donor id: GS279. origin: Togo. local name: Takpalicouhoulmou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS279. other id: NSV 67C-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested October. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506078 donor id: GS281. origin: Togo. local name: Kalaicouhoulmou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS281. other id: NSV 68-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506079 donor id: GS282. origin: Togo. local name: Kazizingua. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS282. other id: NSV 69-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506080 donor id: GS283. origin: Togo. local name: Kalaicousemou. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS283. other id: NSV 70A-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Bassar Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506081 donor id: GS297. origin: Togo. local name: Aparkou. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS297. other id: NSV 71-83. locality: Farmstore, Katchamba, 33km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown August, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506082 donor id: GS298. origin: Togo. local name: Adjalle. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS298. other id: NSV 72-83. locality: Farmstore, Katchamba, 33km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown July, harvested October. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506083 donor id: GS299. origin: Togo. local name: Ngani-Fofoe. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS299. other id: NSV 73A-83. locality: Farmstore, Katchamba, 33km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown July, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506084 donor id: GS300. origin: Togo. local name: Idisson. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS300. other id: NSV 73B-83. locality: Farmstore, Katchamba, 33km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown July, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506085 donor id: GS312. origin: Togo. local name: Djakper. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS312. other id: NSV 74-83. locality: Farmstore, Kidjaboun, 19km NW of Guerin-Kouka towards Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown May/June, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506086 donor id: GS313. origin: Togo. local name: Kidiman. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS313. other id: NSV 75-83. locality: Farmstore, Kidjaboun, 19km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown May, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506087 donor id: GS314. origin: Togo. local name: Djapola. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS314. other id: NSV 76-83. locality: Farmstore, Kidjaboun, 19km NW of Guerin-Kouka towards Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown July, harvested October. Annual. Primitive Cultivar. Seed.

- PI 506088 donor id: GS315. origin: Togo. local name: Doting. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS315. other id: NSV 77-83. locality: Farmstore, Kidjaboun, 19km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown July, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506089 donor id: GS319. origin: Togo. local name: Tchalinga. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS319. other id: NSV 78-83. locality: Farmstore, Bilabessa, 5km S of Guerin-Kouka toward Kabo, Bassar Prefecture, Kara Region. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506090 donor id: GS320. origin: Togo. local name: Kpishang. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS320. other id: NSV 79A-83. locality: Farmstore, Bilabessa, 5km S of Guerin-Kouka toward Kabo, Bassar Prefecture, Kara Region. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506091 donor id: GS321. origin: Togo. local name: Kpishang. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS321. other id: NSV 79B-83. locality: Farmstore, Bilabessa, 5km S of Guerin-Kouka toward Kabo, Bassar Prefecture, Kara Region. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506092 donor id: GS322. origin: Togo. local name: Aminan (Jaune). collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS322. other id: NSV 80-83. locality: Farmstore, Bilabessa, 5km S of Guerin-Kouka toward Kabo, Bassar Prefecture, Kara Region. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506093 donor id: GS323. origin: Togo. local name: Aminan (Blanc). collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS323. other id: NSV 81-83. locality: Farmstore, Bilabessa, 5km S of Guerin-Kouka toward Kabo, Bassar Prefecture, Kara Region. remarks: Sown April, harvested December. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506094 donor id: GS326. origin: Togo. local name: Idipin. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS326. other id: NSV 82-83. locality: Farmstore, Kabou, 22km N of Bassar toward Guerin-Kouka, Bassar Prefecture, Kara Region. latitude: 09 deg. 28 min. N. longitude: 000 deg. 48 min. E. remarks: Sown May, harvested August. Used for beer, dough and cooked cereal. Annual. Primitive Cultivar. Seed.
- PI 506095 donor id: GS327. origin: Togo. local name: Idiman. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS327. other id: NSV 83-83. locality: Farmstore, Kabou, 22km N of Bassar toward Guerin-Kouka, Bassar Prefecture, Kara Region. latitude: 09 deg. 28 min. N. longitude: 000 deg. 48 min. E. remarks: Sown May, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506096 donor id: GS328. origin: Togo. local name: Digmakou-Tountounde. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS328. other id: NSV 84-83. locality: Farmstore, Kabou, 22km N of Bassar toward Guerin-Kouka, Bassar Prefecture, Kara Region. latitude: 09 deg. 28 min. N. longitude: 000 deg. 48 min. E. remarks: Sown May, harvested October/November. Annual. Primitive Cultivar. Seed.
- PI 506097 donor id: GS341. origin: Togo. local name: Gmacoupin. collected: December 18, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS341. other id: NSV 85-83. locality: Farmstore, Bidjabe, 18km W of Bassar toward Ghana, Bassar Prefecture, Kara Region. latitude: 09 deg. 19 min. N. longitude: 000 deg. 35 min. E. Annual. Primitive Cultivar. Seed.
- PI 506098 donor id: GS342. origin: Togo. local name: Gmacouman. collected: December 18, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS342. other id: NSV 86-83. locality: Farmstore, Bidjabe, 18km W of Bassar toward Ghana, Bassar Prefecture, Kara Region. latitude: 09 deg. 19 min. N. longitude: 000 deg. 35 min. E. Annual. Primitive Cultivar. Seed.
- PI 506099 donor id: GS347. origin: Togo. local name: Milzende. collected: December 18, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS347. other id: NSV 87-83. locality: Farmstore, Binako, 20km S of Bassar toward Sokode, Bassar Prefecture, Kara Region. latitude: 09 deg. 11 min. N. longitude: 000 deg. 53 min. E. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506100 donor id: GS355. origin: Togo. local name: Dounkpadou. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS355. other id: NSV 88A-83. locality: Farmstore, Kambole, 39km SE of Tchamba toward Benin, Nyala Prefecture, Centre Region. latitude: 08 deg. 45 min. N. longitude: 001 deg. 35 min. E. remarks: Sown June, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506101 donor id: GS356. origin: Togo. local name: Dounkpadou. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS356. other id: NSV 88B-83. locality: Farmstore, Kambole, 39km SE of Tchamba, Nyala Prefecture, Centre Region. latitude: 08 deg. 45 min. N. longitude: 001 deg. 35 min. E. remarks: Sown June, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506102 donor id: GS358. origin: Togo. local name: Bobafoufoun. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS358. other id: NSV 90-83. locality: Farmstore, Kambole, 39km SE of Tchamba, Nyala Prefecture, Centre Region. latitude: 08 deg. 45 min. N. longitude: 001 deg. 35 min. E. remarks: Sown June, harvested December. Annual. Primitive Cultivar. Seed.
- PI 506103 donor id: GS372. origin: Togo. local name: Kiguitiman. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS372. other id: NSV 93-83. locality: Farmstore, Dantcho, 9km E of Tchamba toward Benin, Nyala Prefecture, Centre Region. latitude: 09 deg. 00 min. N. longitude: 001 deg. 29 min. E. remarks: Sown July, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506104 donor id: GS390. origin: Togo. local name: Krigne. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS390. other id: NSV 94-83. locality: Farmstore, Koloware, 16km E of Sokode toward Tchamba, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min. E. remarks: Sown May, harvested September. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506105 donor id: GS392. origin: Togo. local name: Milacoufoulma. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS392. other id: NSV 96-83. locality: Farmstore, Koloware, 16km E of Sokode toward Tchamba, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min. E. remarks: Sown May, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506106 donor id: GS393. origin: Togo. local name: Milacisseme. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS393. other id: NSV 97-83. locality: Farmstore, Koloware, 16km E of Sokode toward Tchamba, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min. E. remarks: Sown May, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506107 donor id: GS394. origin: Togo. local name: Milacisseme. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS394. other id: NSV 98-83. locality: Farmstore, Koloware, 16km E of Sokode toward Tchamba, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min. E. remarks: Sown September, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506108 donor id: GS407. origin: Togo. local name: Epo. collected: December 20, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS407. other id: NSV 99-83. locality: Farmstore, Langabou, 31km S of Blitta toward Atakpame, Sotouboua Prefecture, Centre Region. latitude: 08 deg. 07 min. N. longitude: 001 deg. 08 min. E. remarks: Sown July, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506109 donor id: DS416. origin: Togo. local name: Losso. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS416. other id: PSV 2-84. locality: Farmstore, Gleï, 19km S of Atakpame toward Notse, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 19 min. N. longitude: 001 deg. 10 min. E. remarks: Sown May, harvested August. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506110 donor id: DS424. origin: Togo. local name: Tchakparou. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS424. other id: PSV 3-84. locality: Farmstore, Kpehoun, 15km N of Atakpame toward Anie, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 41 min. N. longitude: 001 deg. 11 min. E. remarks: Sown June, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506111 donor id: DS426. origin: Togo. local name: Boba. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS426. other id: PSV 4B-84. locality: Farmstore, Kpehoun, 15km N of Atakpame toward Anie, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 41 min. N. longitude: 001 deg. 11 min. E. remarks: Sown June, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506112 donor id: DS427. origin: Togo. local name: Boba. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS427. other id: PSV 4C-84. locality: Farmstore, Kpehoun, 15km N of Atakpame toward Anie, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 41 min. N. longitude: 001 deg. 11 min. E. remarks: Sown June, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506113 donor id: DS433. origin: Togo. local name: Kpishan. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS433. other id: PSV 5-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown June, harvested November/December. Annual. Primitive Cultivar. Seed.
- PI 506114 donor id: DS434. origin: Togo. local name: Kwete-Mila. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS434. other id: PSV 6-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown June, harvested December. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506115 donor id: DS442. origin: Togo. local name: Tchekpaou. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS442. other id: PSV 7B-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506116 donor id: DS443. origin: Togo. local name: Kamgnia. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS443. other id: PSV 8-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown March, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506117 donor id: DS486. origin: Togo. local name: Ougme. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS486. other id: PSV 10B-84. locality: Farmstore, Amou-Oblo, 28km SW of Atakpame toward Adeta, Amou Prefecture, Plateaux Region. latitude: 07 deg. 23 min. N. longitude: 000 deg. 52 min. E. remarks: Sown June, harvested November. Annual. Primitive Cultivar. Seed.
- PI 506118 donor id: DS487. origin: Togo. local name: Ougme. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS487. other id: PSV 10C-84. locality: Farmstore, Amou-Oblo, 28km SW of Atakpame toward Adeta, Amou Prefecture, Plateaux Region. latitude: 07 deg. 23 min. N. longitude: 000 deg. 52 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506119 donor id: DS488. origin: Togo. local name: Ougme. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS488. other id: PSV 10D-84. locality: Farmstore, Amou-Oblo, 28km SW of Atakpame toward Adeta, Amou Prefecture, Plateaux Region. latitude: 07 deg. 23 min. N. longitude: 000 deg. 52 min. E. remarks: Sown April, harvested September. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506120 donor id: DS515. origin: Togo. local name: Epo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS515. other id: PSV
12A-84. locality: Farmstore, Kpele-Ele, 43km SW of
Atakpame toward Adeta, Kloto Prefecture, Plateaux Region.
latitude: 07 deg. 15 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown May, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 506121 donor id: DS516. origin: Togo. local name: Epo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS516. other id: PSV
12B-84. locality: Farmstore, Kpele-Ele, 43km SW of
Atakpame toward Adeta, Kloto Prefecture, Plateaux Region.
latitude: 07 deg. 15 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown May, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 506122 donor id: DS517. origin: Togo. local name: Epo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS517. other id: PSV
12C-84. locality: Farmstore, Kpele-Ele, 43km SW of
Atakpame toward Adeta, Kloto Prefecture, Plateaux Region.
latitude: 07 deg. 15 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown May, harvested November. Annual.
Primitive Cultivar. Seed.
- PI 506123 donor id: DS527. origin: Togo. local name: Epo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS527. other id: PSV
14A-84. locality: Farmstore, Adeta-Vetsi, 64km SW of
Atakpame toward Kpalime, Kloto Prefecture, Plateaux
Region. latitude: 07 deg. 08 min. N. longitude: 000
deg. 44 min. E. remarks: Sown June, harvested December.
Annual. Primitive Cultivar. Seed.
- PI 506124 donor id: DS528. origin: Togo. local name: Epo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS528. other id: PSV
14B-84. locality: Farmstore, Adeta-Vetsi, 64km SW of
Atakpame toward Kpalime, Kloto Prefecture, Plateaux
Region. latitude: 07 deg. 08 min. N. longitude: 000
deg. 44 min. E. remarks: Sown June, harvested December.
Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

- PI 506125 donor id: DS529. origin: Togo. local name: Milacisseme. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS529. other id: PSV 15-84. locality: Farmstore, Adeta-Vetsi, 64km SW of Atakpame toward Kpalime Kloto Prefecture, Plateaux Region. latitude: 07 deg. 08 min. N. longitude: 000 deg. 44 min. E. remarks: Sown June, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506126 donor id: DS530. origin: Togo. local name: Epo. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS530. other id: PSV 16-84. locality: Farmstore, Danyi-Apeyeme, 17km NW of Adeta toward Danyi- Elauggor, Kloto Prefecture, Plateaux Region. latitude: 07 deg. 12 min. N. longitude: 000 deg. 42 min. E. remarks: Sown June, harvested October. Annual. Primitive Cultivar. Seed.
- PI 506127 donor id: DS551. origin: Togo. local name: Epo. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS551. other id: PSV 17-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 53 min. N. longitude: 000 deg. 51 min. E. remarks: Sown April, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506128 donor id: DS552. origin: Togo. local name: Epo. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS552. other id: PSV 18-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 53 min. N. longitude: 000 deg. 51 min. E. remarks: Sown April, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506129 donor id: DS553. origin: Togo. local name: Epo. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS553. other id: PSV 19-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 53 min. N. longitude: 000 deg. 51 min. E. Annual. Primitive Cultivar. Seed.
- PI 506130 donor id: DS562. origin: Togo. local name: Kassinsinga. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS562. other id: PSV 21-84. locality: Farmstore, Hahomogbe, 44km E of Kpalime toward Notse, Haho Prefecture, Plateaux Region. latitude: 06 deg. 56 min. N. longitude: 001 deg. 01 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.

PI 506010 to 506131-continued

PI 506131 donor id: DS575. origin: Togo. local name: Epo.
collected: February 03, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS575. other id: PSV
22-84. locality: Farmstore, Amakpave, 20km S of Notse
toward Tsevie, Haho Prefecture, Plateaux Region.
latitude: 06 deg. 47 min. N. longitude: 001 deg. 10 min.
E. remarks: Sown June, harvested November. Annual.
Primitive Cultivar. Seed.

PI 506132 to 506218. Zea mays L. POACEAE Field corn

Donated by Sambiani, A.D., Direction de la Recherche Agronomique,
(DRA), Lome, Togo; and Ghesquiere, A., ORSTOM, Lab. de Genetique,
Centre d'Adiopodoume, Bolte Postal V-51, Abidjan, Ivory Coast; and
Djaneye, T.B., Direction de la Recherche Agronomique, (DRA), Lome,
Togo. Received through IBPGR, Rome, Italy Received March 1985.

PI 506132 donor id: GS10. origin: Togo. local name: Kawena.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS10. other id: NZM
1-83. locality: Farmstore, Gouloungossi, 20km NW of
Cinkasse toward Ghana, Tone Prefecture, Savanes Region.
latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min.
E. remarks: Sown June, harvested August. Used for dough
and eaten uncooked. Annual. Primitive Cultivar. Seed.

PI 506133 donor id: GS11. origin: Togo. local name: Kawena.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS11. other id: NZM
2-83. locality: Farmstore, Gouloungossi, 20km NW of
Cinkasse toward Ghana, Tone Prefecture, Savanes Region.
latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min.
E. remarks: Sown May, harvested July/August. Annual.
Primitive Cultivar. Seed.

PI 506134 donor id: GS12. origin: Togo. local name: Kawena.
collected: December 11, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS12. other id: NZM
3-83. locality: Farmstore, Gouloungossi, 20km NW of
Cinkasse toward Ghana, Tone Prefecture, Savanes Region.
latitude: 11 deg. 06 min. N. longitude: 000 deg. 06 min.
E. remarks: Sown June, harvested September. Annual.
Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506135 donor id: GS32. origin: Togo. local name: Kamana. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS32. other id: NZM 4-83. locality: Farmstore, Timbou, 24km N of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min. E. remarks: Sown May, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506136 donor id: GS33. origin: Togo. local name: Kamana. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS33. other id: NZM 5-83. locality: Farmstore, Timbou, 24km N of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min. E. remarks: Sown May, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506137 donor id: GS34. origin: Togo. local name: Kamana. collected: December 11, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS34. other id: NZM 6-83. locality: Farmstore, Timbou, 24km N of Dapaong toward Burkino Faso, Tone Prefecture, Savanes Region. latitude: 11 deg. 58 min. N. longitude: 000 deg. 07 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506138 donor id: GS49. origin: Togo. local name: Kpabredjak. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS49. other id: NZM 7-83. locality: Farmstore, Mandouri, 85km E of Dapaong toward Benin, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 49 min. E. remarks: Sown April/May, harvested June/July. Used uncooked and for dough, beer. Annual. Primitive Cultivar. Seed.
- PI 506139 donor id: GS88. origin: Togo. local name: Kpabd'djak. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS88. other id: NZM 8-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown April/May, harvested June/July. Eaten uncooked. Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506140 donor id: GS89. origin: Togo. local name: Kpabdbaloug. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS89. other id: NZM 9-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown May, harvested October. Used for dough. Annual. Primitive Cultivar. Seed.
- PI 506141 donor id: GS90. origin: Togo. local name: Kpabd'djak. collected: December 12, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS90. other id: NZM 10-83. locality: Farmstore, Pana, 17km E of Dapaong toward Mandouri, Tone Prefecture, Savanes Region. latitude: 10 deg. 44 min. N. longitude: 000 deg. 18 min. E. remarks: Sown April/May, harvested August/October. Used for dough. Annual. Primitive Cultivar. Seed.
- PI 506142 donor id: GS115. origin: Togo. local name: Kalbonta. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS115. other id: NZM 11-83. locality: Farmstore, Bogou, 29km E of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 39 min. N. longitude: 000 deg. 11 min. E. Annual. Primitive Cultivar. Seed.
- PI 506143 donor id: GS122. origin: Togo. local name: Kpabda. collected: December 13, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS122. other id: NZM 12-83. locality: Farmstore, Nioukpourma, 11km W of Dapaong toward Nano, Tone Prefecture, Savanes Region. latitude: 10 deg. 50 min. N. longitude: 000 deg. 08 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506144 donor id: GS134. origin: Togo. local name: Kalbontdjak. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS134. other id: NZM 13-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown April, harvested June. Used toasted and for dough, beer. Annual. Primitive Cultivar. Seed.
- PI 506145 donor id: GS135. origin: Togo. local name: Kalbond'djak. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS135. other id: NZM 14-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.

- PI 506146 donor id: GS136. origin: Togo. local name: Kalbontdjanoung. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS136. other id: NZM 15-83. locality: Farmstore, Barkoissi, 50km S of Dapaog toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506147 donor id: GS137. origin: Togo. local name: Kalbontnioung. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS137. other id: NZM 16-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown may, harvested October. Used for dough, beer. Annual. Primitive Cultivar. Seed.
- PI 506148 donor id: GS138. origin: Togo. local name: Kalbontpiong. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS138. other id: NZM 17-83. locality: Farmstore, Barkoissi, 50km S of Dapaong toward Mango, Oti Prefecture, Savanes Region. latitude: 10 deg. 33 min. N. longitude: 000 deg. 12 min. E. remarks: Sown April, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506149 donor id: GS158. origin: Togo. local name: Ikpabd. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS158. other id: NZM 18-83. locality: Farmstore, Gando, 32km E of Mango toward Benin, Oti Prefecture, Savanes Region. latitude: 10 deg. 20 min. N. longitude: 000 deg. 45 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506150 donor id: GS170. origin: Togo. local name: Wamla. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS170. other id: NZM 19-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Kara, Keran Prefecture, Kara Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. Annual. Primitive Cultivar. Seed.
- PI 506151 donor id: GS171. origin: Togo. local name: Ayero. collected: December 14, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS171. other id: NZM 20-83. locality: Farmstore, Kadjalla, 19km S of Kante toward Kara, Keran Prefecture, Savanes Region. latitude: 09 deg. 48 min. N. longitude: 000 deg. 58 min. E. Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506152 donor id: GS209. origin: Togo. local name: Amlamde.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS209. other id: NZM
21-83. locality: Farmstore, Kpagouda, 39km NE of Kara
toward Siou, Binah Prefecture, Kara Region. latitude: 09
deg. 45 min. N. longitude: 001 deg. 20 min. E. remarks:
Sown April, harvested July. Annual. Primitive Cultivar.
Seed.
- PI 506153 donor id: GS210. origin: Togo. local name: Filanawamla.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS210. other id: NZM
22-83. locality: Farmstore, Kpagouda, 39km NE of Kara
toward Siou, Binah Prefecture, Kara Region. latitude: 09
deg. 45 min. N. longitude: 001 deg. 20 min. E. remarks:
Sown April, harvested May/June. Annual. Primitive
Cultivar. Seed.
- PI 506154 donor id: GS248. origin: Togo. local name: Ketcete.
collected: December 15, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS248. other id: NZM
23-83. locality: Farmstore, Sara-Kawa, 70km S of Kante
toward Kara, Kozah Prefecture, Kara Region. latitude: 09
deg. 38 min. N. longitude: 001 deg. 01 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.
- PI 506155 donor id: GS273. origin: Togo. local name: Cotocoliri.
collected: December 16, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS273. other id: NZM
24-83. locality: Farmstore, Soudou, 12km E of Bafilo
toward Benin, Assoli Prefecture, Kara Region. latitude:
09 deg. 22 min. N. longitude: 001 deg. 20 min. E.
remarks: Sown April, harvested June. Annual. Primitive
Cultivar. Seed.
- PI 506156 donor id: GS293. origin: Togo. local name: Wamla.
collected: December 16, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS293. other id: NZM
25-83. locality: Farmstore, Djamde, 34km W of Kara
toward Bassar, Kozah Prefecture, Kara Region. latitude:
09 deg. 31 min. N. longitude: 001 deg. 03 min. E.
remarks: Sown April, harvested July. Annual. Primitive
Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506157 donor id: GS294. origin: Togo. local name: Kerkete. collected: December 16, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS294. other id: NZM 26-83. locality: Farmstore, Djamde, 34km W of Kara toward Bassar, Kozah Prefecture, Kara Region. latitude: 09 deg. 31 min. N. longitude: 001 deg. 03 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506158 donor id: GS301. origin: Togo. local name: Abouyi-Kokore. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS301. other id: NZM 27-83. locality: Farmstore, Katchamba, 33km NW of Guerin-Kouka toward Mango, Bassar Prefecture, Kara Region. latitude: 09 deg. 53 min. N. longitude: 000 deg. 31 min. E. remarks: Sown July, harvested September. Annual. Primitive Cultivar. Seed.
- PI 506159 donor id: GS338. origin: Togo. local name: Italandimane. collected: December 17, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS338. other id: NZM 28-83. locality: Farmstore, Kabou, 22km N of Bassar toward Guerin-Kouka, Bassar Prefecture, Kara Region. latitude: 09 deg. 47 min. N. longitude: 000 deg. 28 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506160 donor id: GS360. origin: Togo. local name: Agbado ou Gbafo. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS360. other id: NZM 29-83. locality: Farmstore, Kambole, 39km SE of Tchamba toward Benin, Nyala Prefecture, Centre Region. latitude: 08 deg. 45 min. N. longitude: 001 deg. 35 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506161 donor id: GS361. origin: Togo. local name: Krekete. collected: December 19, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS361. other id: NZM 30-83. locality: Farmstore, Kambole, 39km SE of Tchamba toward Benin, Nyala Prefecture, Centre Region. latitude: 08 deg. 45 min. N. longitude: 001 deg. 35 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.

- PI 506162 donor id: GS369. origin: Togo. local name: Bankane.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS369. other id: NZM
31-83. locality: Farmstore, Dantcho, 9km E of Tchamba
toward Benin, Nyala Prefecture, Centre Region. latitude:
09 deg. 00 min. N. longitude: 001 deg. 29 min. E.
remarks: Sown April, harvested June. Annual. Primitive
Cultivar. Seed.
- PI 506163 donor id: GS370. origin: Togo. local name: Adjipoe.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS370. other id: NZM
32-83. locality: Farmstore, Dantcho, 9km E of Tchamba
toward Benin, Nyala Prefecture, Centre Region. latitude:
09 deg. 00 min. N. longitude: 001 deg. 29 min. E.
remarks: Sown April, harvested July. Annual. Primitive
Cultivar. Seed.
- PI 506164 donor id: GS382. origin: Togo. local name: Bankan.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS382. other id: NZM
33-83. locality: Farmstore, Koloware, 16km E of Sokode
toward Tchamba, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506165 donor id: GS383. origin: Togo. local name: Namnoum.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS383. other id: NZM
34-83. locality: Farmstore, Koloware, 16km E of Sokode
toward Tchamba, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min.
E. remarks: Sown April, harvested August. Annual.
Primitive Cultivar. Seed.
- PI 506166 donor id: GS384. origin: Togo. local name: Bankan.
collected: December 19, 1983. collector: A. Ghesquiere
and A.D. Sambiani. collector id: GS384. other id: NZM
35-83. locality: Farmstore, Koloware, 16km E of Sokode
toward Tchamba, Tchaoudjo Prefecture, Centre Region.
latitude: 08 deg. 58 min. N. longitude: 001 deg. 17 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.

- PI 506167 donor id: GS397. origin: Togo. local name: Bankan. collected: December 20, 1983. collector: A. Ghesquiere and A.D. Sambiani. collector id: GS397. other id: NZM 36-83. locality: Farmstore, Lama-Tessi, 18km S of Sokode toward Sotouboua, Tchaoudjo Prefecture, Centre Region. latitude: 08 deg. 90 min. N. longitude: 001 deg. 05 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506168 donor id: DS411. origin: Togo. local name: Ebli. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS411. other id: PZM 1-84. locality: Farmstore, Wahala, 26km N of Notse toward Atakpame, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 10 min. N. longitude: 001 deg. 10 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.
- PI 506169 donor id: DS418. origin: Togo. local name: Tchoke. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS418. other id: PZM 2-84. locality: Farmstore, Glei, 19km S of Atakpame toward Notse, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 19 min. N. longitude: 001 deg. 10 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506170 donor id: DS423. origin: Togo. local name: Gbafo. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS423. other id: PZM 3-84. locality: Farmstore, Kpehoun, 15km N of Atakpame toward Anie, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 41 min. N. longitude: 001 deg. 11 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506171 donor id: DS424. origin: Togo. local name: Gbafo. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS424. other id: PZM 4-84. locality: Farmstore, Kpehoun, 15km N of Atakpame toward Anie, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 41 min. N. longitude: 001 deg. 11 min. E. remarks: Sown May, harvested June. Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506172 donor id: DS432. origin: Togo. local name: Kpalima. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS432. other id: PZM 5A-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506173 donor id: DS433. origin: Togo. local name: Kpalima. collected: January 31, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS433. other id: PZM 5B-84. locality: Farmstore, Kolocope, 12km E of Anie toward Elavagnon, Ogou Prefecture, Plateaux Region. latitude: 07 deg. 48 min. N. longitude: 001 deg. 17 min. E. remarks: Sown April, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506174 donor id: DS452. origin: Togo. local name: Gbetougue. collected: February 01, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS452. other id: PZM 6A-84. locality: Farmstore, Kougnohou, 47km W of Atakpame toward Adeta, Wawa Prefecture, Plateaux Region. latitude: 07 deg. 40 min. N. longitude: 000 deg. 47 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506175 donor id: DS453. origin: Togo. local name: Gbetougue. collected: February 01, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS453. other id: PZM 6B-84. locality: Farmstore, Kougnohou, 47km W of Atakpame toward Adeta, Kloto Prefecture, Plateaux Region. latitude: 07 deg. 40 min. N. longitude: 000 deg. 47 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.
- PI 506176 donor id: DS454. origin: Togo. local name: Gbetougue. collected: February 01, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS454. other id: PZM 7-84. locality: Farmstore, Kougnohou, 47km W of Atakpame toward Adeta, Kloto Prefecture, Plateaux Region. latitude: 07 deg. 40 min. N. longitude: 000 deg. 47 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.

- PI 506177 donor id: DS461. origin: Togo. local name: Edeta.
collected: February 01, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS461. other id: PZM
8-84. locality: Farmstore, Kpele-Bena, 17km S of Badou
toward Ghana, Wawa Prefecture, Plateaux Region.
latitude: 07 deg. 26 min. N. longitude: 000 deg. 36 min.
E. remarks: Sown March, harvested May. Annual.
Primitive Cultivar. Seed.
- PI 506178 donor id: DS472. origin: Togo. local name: Djouklo.
collected: February 01, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS472. other id: PZM
9A-84. locality: Farmstore, Zougbejan, 63km W of
Atakpame toward Badou, Wawa Prefecture, Plateaux Region.
latitude: 07 deg. 34 min. N. longitude: 000 deg. 40 min.
E. Annual. Primitive Cultivar. Seed.
- PI 506179 donor id: DS473. origin: Togo. local name: Djouklo.
collected: February 01, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS473. other id: PZM
9B-84. locality: Farmstore, Zougbejan, 63km W of
Atakpame toward Badou, Wawa Prefecture, Plateaux Region.
latitude: 07 deg. 34 min. N. longitude: 000 deg. 40 min.
E. Annual. Primitive Cultivar. Seed.
- PI 506180 donor id: DS483. origin: Togo. local name: Djoklo.
collected: February 01, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS483. other id: PZM
10A-84. locality: Farmstore, Oudje, 40km W of Atakpame
toward Badou, Wawa Prefecture, Plateaux Region.
latitude: 07 deg. 34 min. N. longitude: 000 deg. 54 min.
E. remarks: Sown March, harvested May. Annual.
Primitive Cultivar. Seed.
- PI 506181 donor id: DS484. origin: Togo. local name: Djoklo.
collected: February 01, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS484. other id: PZM
10B-84. locality: Farmstore, Oudje, 40km W of Atakpame
toward Badou, Wawa Prefecture, Plateaux Region.
latitude: 07 deg. 34 min. N. longitude: 000 deg. 54 min.
E. remarks: Sown March, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506182 donor id: DS493. origin: Togo. local name: Erita.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS493. other id: PZM
11-84. locality: Farmstore, Amou-Oblo, 28km SW of
Atakpame toward Adeta, Amou Prefecture, Plateaux Region.
latitude: 07 deg. 23 min. N. longitude: 000 deg. 52 min.
E. remarks: Sown February, harvested April. Annual.
Primitive Cultivar. Seed.

- PI 506183 donor id: DS520. origin: Togo. local name: Blafo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS520. other id: PZM
12-84. locality: Farmstore, Kpele-Ele, 43km SW of
Atakpame toward Adeta, Kloto Prefecture, Plateaux Region.
latitude: 07 deg. 15 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 506184 donor id: DS521. origin: Togo. local name: Blafo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS521. other id: PZM
13-84. locality: Farmstore, Kpele-Ele, 43km SW of
Atakpame toward Adeta, Kloto Prefecture, Plateaux Region.
latitude: 07 deg. 15 min. N. longitude: 000 deg. 48 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 506185 donor id: DS522. origin: Togo. local name: Blafo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS522. other id: PZM
14-84. locality: Farmstore, Adeta-Vetsi, 64km SW of
Atakpame toward Kpalime, Kloto Prefecture, Plateaux
Region. latitude: 07 deg. 08 min. N. longitude: 000
deg. 44 min. E. remarks: Sown March, harvested May.
Annual. Primitive Cultivar. Seed.
- PI 506186 donor id: DS523. origin: Togo. local name: Blafo.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS523. other id: PZM
15-84. locality: Farmstore, Adeta-Vetsi, 64km SW of
Atakpame toward Kpalime, Kloto Prefecture, Plateaux
Region. latitude: 07 deg. 08 min. N. longitude: 000
deg. 44 min. E. remarks: Sown March, harvested May.
Annual. Primitive Cultivar. Seed.
- PI 506187 donor id: DS524. origin: Togo. local name: Samla.
collected: February 02, 1984. collector: T.B. Djaneye
and A.D. Sambiani. collector id: DS524. other id: PZM
16-84. locality: Farmstore, Adeta-Vetsi, 64km SW of
Atakpame toward Kpalime, Kloto Prefecture, Plateaux
Region. latitude: 07 deg. 08 min. N. longitude: 000
deg. 44 min. E. remarks: Sown May, harvested August.
Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506188 donor id: DS546. origin: Togo. local name: Blafo. collected: February 02, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS546. other id: PZM 17-84. locality: Farmstore, Danyi-Apeyeme, 17km NW of Adeta toward Danji- Elavagnon, Kloto Prefecture, Plateaux Region. latitude: 07 deg. 12 min. N. longitude: 000 deg. 42 min. E. remarks: Sown March, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506189 donor id: DS548. origin: Togo. local name: Ebli. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS548. other id: PZM 18-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 53 min. N. longitude: 000 deg. 51 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506190 donor id: IBPGR. origin: Togo. local name: Ebli. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS549. other id: PZM 19-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 53 min. N. longitude: 000 deg. 51 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506191 donor id: DS550. origin: Togo. local name: Ebli. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS550. other id: PZM 20-84. locality: Farmstore, Kati, 32km E of Kpalime toward Notse, Kloto Prefecture, Plateaux Region. latitude: 06 deg. 56 min. N. longitude: 000 deg. 51 min. E. remarks: Sown April, harvested August. Annual. Primitive Cultivar. Seed.
- PI 506192 donor id: DS564. origin: Togo. local name: Kpekessou. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS564. other id: PZM 21-84. locality: Farmstore, Hahomegbe, 44km E of Kpalime toward Notse, Haho Prefecture, Plateaux Region. latitude: 06 deg. 56 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506193 donor id: DS565. origin: Togo. local name: Agbokpoe. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS565. other id: PZM 22-84. locality: Farmstore, Hahomegbe, 44km E of Kpalime toward Notse, Haho Prefecture, Plateaux Region. latitude: 06 deg. 56 min. N. longitude: 001 deg. 01 min. E. remarks: Sown March, harvested May. Annual. Primitive Cultivar. Seed.
- PI 506194 donor id: DS567. origin: Togo. local name: Bogan. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS567. other id: PZM 23-84. locality: Farmstore, Tohoun, 63km E of Notse toward Benin, Haho Prefecture, Plateaux Region. latitude: 07 deg. 01 min. N. longitude: 001 deg. 37 min. E. remarks: Sown March, harvested July. Annual. Primitive Cultivar. Seed.
- PI 506195 donor id: DS572. origin: Togo. local name: Bafo. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS572. other id: PZM 24-84. locality: Farmstore, Tsagba, 20km E of Notse toward Tohoun, Haho Prefecture, Plateaux Region. latitude: 06 deg. 59 min. N. longitude: 001 deg. 20 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.
- PI 506196 donor id: DS572. origin: Togo. local name: Ebli. collected: February 03, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS572. other id: PZM 25-84. locality: Farmstore, Tsagba, 20km E of Notse toward Tohoun, Haho Prefecture, Plateaux Region. latitude: 06 deg. 47 min. N. longitude: 001 deg. 10 min. E. remarks: Sown March/August, harvested August/November. Annual. Primitive Cultivar. Seed.
- PI 506197 donor id: DS576. origin: Togo. local name: Blafo. collected: March 06, 1984. collector: T.B. Djaneye and A.D. Sambiani. collector id: DS576. other id: MZM 1-84. locality: Farmstore, Amakpave, 20km S of Notse toward Tsevie, Haho Prefecture, Maritime Region. latitude: 06 deg. 40 min. N. longitude: 001 deg. 09 min. E. remarks: Sown March, harvested June. Annual. Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506198 donor id: DS582. origin: Togo. local name: Ebli.
collected: March 06, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS582. other id: MZM 2-84.
locality: Farmstore, Kpedji, 24km SW of Agbelouve toward
Assahoun, Sig Prefecture, Maritime Region. latitude: 06
deg. 32 min. N. longitude: 001 deg. 01 min. E. remarks:
Sown March, harvested May. Annual. Primitive Cultivar.
Seed.
- PI 506199 donor id: DS583. origin: Togo. local name: Letive.
collected: March 06, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS583. other id: MZM 3-84.
locality: Farmstore, Badja, 12km SE of Keve toward Lome,
Sig Prefecture, Maritime Region. latitude: 06 deg. 23
min. N. longitude: 000 deg. 95 min. E. remarks: Sown
March/April, harvested May. Annual. Primitive Cultivar.
Seed.
- PI 506200 donor id: DS584. origin: Togo. local name: Ebli.
collected: March 06, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS584. other id: MZM 4-84.
locality: Farmstore, Badja, 12km SE of Keve toward Lome,
Sig Prefecture, Maritime Region. latitude: 06 deg. 23
min. N. longitude: 000 deg. 95 min. E. remarks: Sown
March, harvested May. Annual. Primitive Cultivar.
Seed.
- PI 506201 donor id: DS586. origin: Togo. local name: Ebli.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS586. other id: MZM 5-84.
locality: Farmstore, Agbanakin, 87km E of Lome toward
Benin, Lacs Prefecture, Maritime Region. latitude: 06
deg. 17 min. N. longitude: 001 deg. 48 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.
- PI 506202 donor id: DS587. origin: Togo. local name: Yovlou.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS587. other id: MZM 6-84.
locality: Farmstore, Agbanakin, 87km E of Lome toward
Benin, Lacs Prefecture, Maritime Region. latitude: 06
deg. 17 min. N. longitude: 001 deg. 48 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.

PI 506132 to 506218-continued

- PI 506203 donor id: DS589. origin: Togo. local name: Ebli.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS589. other id: MZM 7-84.
locality: Farmstore, Aklakou, 16km NE of Aneho toward
Aveve, Lacs Prefecture, Maritime Region. latitude: 06
deg. 20 min. N. longitude: 001 deg. 43 min. E. remarks:
Sown April, harvested June. Annual. Primitive Cultivar.
Seed.
- PI 506204 donor id: DS592. origin: Togo. local name: Ebli.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS592. other id: MZM 8-84.
locality: Farmstore, Afagnangan, 38km NE of Aneho toward
Tabligbo, Lacs Prefecture, Maritime Region. latitude: 06
deg. 29 min. N. longitude: 001 deg. 38 min. E. remarks:
Sown March, harvested June. Annual. Primitive Cultivar.
Seed.
- PI 506205 donor id: DS595. origin: Togo. local name: Ebli.
collected: March 07, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS595. other id: MZM 9-84.
locality: Farmstore, Anfoin, 11km N of Aneho toward
Tabligbo, Lacs Prefecture, Maritime Region. latitude: 06
deg. 20 min. N. longitude: 001 deg. 37 min. E. remarks:
Sown April, harvested July. Annual. Primitive Cultivar.
Seed.
- PI 506206 donor id: DS597. origin: Togo. local name: Kelebli.
collected: March 08, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS597. other id: MZM
10-84. locality: Farmstore, Akoumape, 33km NW of Aneho
toward Vogan, Vo Prefecture, Maritime Region. latitude:
06 deg. 23 min. N. longitude: 001 deg. 26 min. E.
remarks: Sown April, harvested June. Annual. Primitive
Cultivar. Seed.
- PI 506207 donor id: DS598. origin: Togo. local name: Fiobli.
collected: March 08, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS598. other id: MZM
11-84. locality: Farmstore, Akoumape, 33km NW of Aneho
toward Vogan, Vo Prefecture, Maritime Region. latitude:
06 deg. 23 min. N. longitude: 001 deg. 26 min. E.
remarks: Sown March, harvested May. Annual. Primitive
Cultivar. Seed.

- PI 506208 donor id: DS600. origin: Togo. local name: Ebli.
collected: March 08, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS600. other id: MZM
12-84. locality: Farmstore, Dagbati, 30km N of Aneho
toward Tabligbo, Vo Prefecture, Maritime Region.
latitude: 06 deg. 29 min. N. longitude: 001 deg. 29 min.
E. remarks: Sown March/August, harvested May/October.
Annual. Primitive Cultivar. Seed.
- PI 506209 donor id: DS601. origin: Togo. local name: Ebli.
collected: March 08, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS601. other id: MZM
13-84. locality: Farmstore, Togoville, 12km S of Vogan
toward Agbodrafo, Vo Prefecture, Martime Region.
latitude: 06 deg. 14 min. N. longitude: 001 deg. 28 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.
- PI 506210 donor id: DS604. origin: Togo. local name: Ebli.
collected: March 08, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS604. other id: MZM
14-84. locality: Farmstore, Sevagan, 9km N of Togoville
toward Akoumape, Vo Prefecture, Martime Region.
latitude: 06 deg. 18 min. N. longitude: 001 deg. 25 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506211 donor id: DS605. origin: Togo. local name: Ebli.
collected: March 09, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS605. other id: MZM
15-84. locality: Farmstore, Adeti-Kope, 23km N of Lome
toward Tsevie, Siq Prefecture, Maritime Region.
latitude: 06 deg. 19 min. N. longitude: 001 deg. 11 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506212 donor id: DS606. origin: Togo. local name: Ebli.
collected: March 09, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS606. other id: MZM
16-84. locality: Farmstore, Gati, 15km E of Tsevie
toward Tabligbo, Yoto Prefecture, Martime Region.
latitude: 06 deg. 30 min. N. longitude: 001 deg. 19 min.
E. remarks: Sown April, harvested June. Annual.
Primitive Cultivar. Seed.

PI 506132 to 506218-continued

- PI 506213 donor id: DS609. origin: Togo. local name: Ebli.
collected: March 09, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS609. other id: MZM
17-84. locality: Farmstore, Kouve, 38km E of Tsevie
toward Tabligbo, Yoto Prefecture, Maritime Region.
latitude: 06 deg. 40 min. N. longitude: 001 deg. 25 min.
E. remarks: Sown March, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506214 donor id: DS614. origin: Togo. local name: Ebli.
collected: March 09, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS614. other id: MZM
18-84. locality: Farmstore, Tokpli, 16km NE of Tabiligbo
toward Benin, Yoto Prefecture, Maritime Region. latitude:
06 deg. 40 min. N. longitude: 001 deg. 35 min. E.
remarks: Sown March, harvested June. Annual. Primitive
Cultivar. Seed.
- PI 506215 donor id: DS615. origin: Togo. local name: Ebli.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS615. other id: MZM
19-84. locality: Farmstore, Adidogome, 9km W of Lome
toward Kpalime, Golfe Prefecture, Maritime Region.
latitude: 06 deg. 10 min. N. longitude: 001 deg. 12 min.
E. remarks: Sown March, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506216 donor id: DS620. origin: Togo. local name: Agbogboe.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS620. other id: MZM
20-84. locality: Farmstore, Sanguera, 14km W of Lome
toward Kpalime, Golfe Prefecture, Maritime Region.
latitude: 06 deg. 14 min. N. longitude: 001 deg. 06 min.
E. remarks: Sown March, harvested June. Annual.
Primitive Cultivar. Seed.
- PI 506217 donor id: DS622. origin: Togo. local name: Agbogboe.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS622. other id: MZM
21-84. locality: Farmstore, Madjikpeto, 20km W of Lome
toward Mission-Tove, Golfe Prefecture, Maritime Region.
latitude: 06 deg. 16 min. N. longitude: 001 deg. 08 min.
E. remarks: Sown April, harvested July. Annual.
Primitive Cultivar. Seed.

PI 506132 to 506218-continued

PI 506218 donor id: DS624. origin: Togo. local name: Agbogbui.
collected: March 10, 1984. collector: T.B. Djaneye and
A.D. Sambiani. collector id: DS624. other id: MZM
22-84. locality: Farmstore, Agoue-Nyive, 12km W of Lome
toward Tsevie, Golfe Prefecture, Maritime Region.
latitude: 06 deg. 14 min. N. longitude: 001 deg. 13 min.
E. remarks: Sown March/September, harvested
June/December. Annual. Primitive Cultivar. Seed.

Scientific Name Cross Reference

Abelmoschus esculentus	505441-505490,505551-505567	Cucumis metuliferus	504556
Agropyron barbicallum	504441	Cucumis myriocarpus	504557
Agropyron cristatum	504442	Cucumis sacleuxii	504558
Amaranthus hybridus	505568	Cucumis sativus	504528,504813-504816,505604
Amaranthus sp.	504518,505569-505570	Cucumis sativus var. anatolicus	504559
Annona scleroderma	504811	Cucumis sativus var. anglicus	504560
Anthyllis vulneraria	503865	Cucumis sativus var. cilicicus	504561
Arachis hypogaea	503556-503558,504614,505491,505571-505583,505956-505977	Cucumis sativus var. europaeus	504562
Astragalus cicer	503866	Cucumis sativus var. falcatus	504563
Astragalus robbinsii var. jesupii	504534	Cucumis sativus var. hardwickii	504564
Avena nuda	503527-503529,504574-504575	Cucumis sativus	
Avena sativa	503547,503644,504576-504613,504817-505058	var. indo-europaeus	504565
Beta lomatomogona	505821	Cucumis sativus	
Beta macrorrhiza	505822	var. irano-turanicus	504566
Beta trigyna	505823-505824	Cucumis sativus var. izmir	504567
Beta vulgaris	504170-504181	Cucumis sativus	
Beta vulgaris subsp. maritima	504182-504285	var. sikkimensis	504568
Beta vulgaris subsp. vulgaris	505825-505830	Cucumis sativus var. squamosus	504569-504570
Brassica pekinensis	503579-503580	Cucumis sativus	
Bromus japonicus	504443	var. testudaceus	504571
Bromus sp.	504469	Cucumis sativus	
Capsicum annuum	503581,504809	var. tuberculatus	504572
Carica papaya	503873	Cucumis sativus var. vulgatus	504573
Cicer judaicum	504291	Cucumis sp.	505605-505613
Cicer yamashitae	504550	Cucurbita maxima	505614-505632
Cichorium endivia var. crispum	503583-503593	Cucurbita mixta	505633
Cichorium endivia var. latifolium	503594-503600	Cucurbita moschata	505634-505646
Cichorium intybus	503601,504468	Cynara scolymus	503532-503546,504529-504530
Citrullus lanatus	504519,505584-505595,505935	Dactylis glomerata	504537,505831
Coffea arabica	503525-503526	Desmodium varians var. gunnii	504470
Crataegus mollis	503530	Elymus atratus	504444
Cucumeropsis mannii	505596	Elymus breviaristatus	504445-504447
Cucumis africanus	504551	Elymus dahuricus	504448
Cucumis anguria	504552	Elymus dahuricus subsp. dahuricus	504449-504451
Cucumis dipsaceus	504553	Elymus dahuricus subsp. excelsus	504452-504454
Cucumis ficifolius	504554	Elymus grandiglumis	504455-
Cucumis figarei	504555		
Cucumis melo	504522-504527,504531-504533,505597-505603,505936		

504456
Elymus kengii 504457
Elymus melantherus 504458
Elymus nutans 504459
Elymus parviglumis 504460
Elymus purpuraristatus 504461
Elymus sibiricus 504462-504463
Elymus strictus 504464
Erianthus arundinaceus 504747
Erianthus bengalense 504748-504752
Erianthus sp. 504615, 504679, 504753-504756
Fagopyrum esculentum 503879
Festuca arundinacea 504538, 505832-505835
Festuca idahoensis 504313
Gleditsia triacanthos 503531
Glycine argyrea 505151
Glycine canescens 505152-505160
Glycine clandestina 505161-505163
Glycine curvata 505164-505167
Glycine cyrtoloba 505168-505178
Glycine falcata 505179-505180
Glycine latifolia 505181
Glycine latrobeana 505182-505187
Glycine max 504480-504510, 504812, 505647-505650
Glycine soja 504286-504290
Glycine tabacina 505188-505200
Glycine tomentella 505201-505304
Haloxylon aphyllum 504511
Haloxylon persicum 504512
Helianthus annuus 505651-505653, 505836-505839
Hibiscus sabdariffa 504810
Hordeum vulgare 503486-503506, 503880
Lactuca sativa 503602-503643
Lagenaria siceraria 505654-505656
Lathyrus nevadensis 504314
Leymus secalinus 504465
Lolium perenne 504539, 505840-505843
Lotus arenarius 505409-505410
Lupinus affinis 504315
Lupinus albus 505844-505848
Lupinus arbustus 504316-504317, 504371
Lupinus arbustus subsp. *neolaxiflorus* 504318-

504319
Lupinus argenteus 504320; 504372-504374
Lupinus argenteus var. *tenellus* 504321-504323, 504376-504380
Lupinus aridus 504324-504329, 504434-504438
Lupinus burkei 504354-504355, 504410-504414
Lupinus caudatus 504330, 504375
Lupinus caudatus subsp. *caudatus* 504331-504332
Lupinus holosericeus 504333-504334
Lupinus latifolius 504335
Lupinus lepidus 504381-504383
Lupinus leucophyllus 504336-504347, 504384-504400
Lupinus littoralis 504348, 504401
Lupinus luteus 505849-505856
Lupinus minimus 504439-504440
Lupinus polyphyllus 504349-504353, 504402-504409
Lupinus pusillus 504356
Lupinus rivularis 504357, 504415
Lupinus sericeus 504358-504362, 504416-504423
Lupinus sericeus var. *egglestonianus* 504363-504364
Lupinus sericeus var. *flexuosus* 504365-504366
Lupinus sulphureus 504367-504368, 504424-504433
Lycopersicon hirsutum 503513-503515
Lycopersicon lycopersicum 503872, 505305-505357, 505816
Lycopersicon pennellii 503516
Lycopersicon pimpinellifolium 503517-503524
Medicago arabica 505413-505414
Medicago arborea 504540
Medicago blanchiana 505415-505416
Medicago cancellata 505857
Medicago disciformis 505417-505418
Medicago doliata 505419-505420
Medicago minima 505421-505422
Medicago murex 505423-505424
Medicago orbicularis 504541, 505425-505426
Medicago polymorpha 505427-

505430			
Medicago rigidula	505431-		
505432			
Medicago sativa	505859-505870		
Medicago sativa nsubsp. varia	503867,505875-505890		
Medicago sativa subsp. caerulea	505871		
Medicago sativa subsp. falcata	505872-505873		
Medicago sativa subsp. praefalcata	505858,505874		
Medicago sativa subsp. viscosa	503548-503550		
Medicago scutellata	505433-505434		
Medicago tornata	505435-505436		
Medicago truncatula	505437-505438		
Medicago turbinata	505439-505440		
Melilotus alba	503868,504542		
Melilotus officinalis	503869		
Miscanthus nepalensis	503871		
Momordica petersii	505657		
Mucuna pruriens var. utilis	505658-505663		
Nicotiana tabacum	505664-505668		
Onobrychis arenaria	505891		
Oryza sativa	504292-504293,504472-504479,505358-505408,505817-505818		
Oryzopsis miliacea	504543		
Oxytropis campestris var. johannensis	504535		
Pennisetum glaucum	505669-505691,505978-506009		
Phalaris aquatica	504544		
Phalaris arundinacea	505892-505893		
Phleum phleoides	505894		
Phleum pratense	505895		
Pisum sativum subsp. elatius	505059		
Pisum sativum subsp. sativum	505060-505150		
Poa ampla	504369		
Poa pratensis	505896-505899		
Poa secunda	504370		
Polemonium vanbruntiae	504536		
Saccharum barberi	504616-504617		
Saccharum hybrid	504618-504674		
Saccharum officinarum	504680-504695,504757		
Saccharum sinense	504675		
Saccharum spontaneum	504676-504678,504696-504746,504758-504800		
Salix alba	505937-505939		
Salix daphnoides	505940		
Salix hybrid	505941		
Salix purpurea	505942-505944		
Salix rigida	505945		
Salix triandra	505946-505951		
Salix x calodendron	505952		
Salix x dasyclados	505953		
Salix x mollissima	505954		
Salix x rubens	505955		
Salvia officinalis	503582		
Sclerostachya fusca	504801		
Solanum laciniatum	504520		
Solanum muricatum	504513-504516		
Sorghum bicolor	505692-505746,506010-506131		
Sorghum plumosum	504521		
Trichosanthes cucumerina var. anguina	504467		
Trifolium alexandrinum	504545		
Trifolium arvense	503870		
Trifolium cherleri	505411		
Trifolium pratense	504471,504546,505900-505922		
Trifolium repens	504547		
Trifolium resupinatum	504548		
Trifolium stellatum	505412		
Triticum aestivum	503551-503552,503877-503878,504466,504517,504549,505819		
Triticum boeoticum	503578		
Triticum durum	503553-503555		
Triticum hybrid	503875-503876		
Triticum monococcum	503874		
Vetiveria sp.	504802-504808		
Vicia sativa	505923-505933		
Vicia villosa	505934		
X Agrotriticum sp.	505820		
Zea mays	503507-503512,503559-503577,503645-503864,503881-504169,504294-504312,505492-505550,505747-505815,506132-506218		

Common Name Cross Reference

Alfalfa	505859-505870	Pearl millet	505669-505691, 505978-506009
Almond willow	505946-505951	Pepino	504513-504516
Artichoke	503532-503546,504529- 504530	Pepper	504809
Barley	503486-503506,503880	Perennial ryegrass	504539, 505840-505843
Beet	504170-504181,505825- 505830	Persian clover	504548
Berseem clover	504545	Pimiento	503581
Buckwheat	503879	Purple osier	505942-505944
Chicory	503601,504468	Rabbit-foot clover	503870
Chinese cabbage	503579-503580	Red clover	505900-505922
Cicer milkvetch	503866	Reed canarygrass	505892-505893
Coffee	503525-503526	Rice	504292-504293,504472- 504479,505358-505408,505817- 505818
Common oat	503547,503644, 504576-504613,504817-505058	Roselle	504810
Common vetch	505923-505933	Sorghum	505692-505746,506010- 506074,506076-506131
Common wheat	503551-503552, 503877-503878,504466,504517, 504549,505819	Soybean	504480-504510,504812, 505647-505650
Cucumber	504528,504813-504816, 505604	Star clover	505412
Currant tomato	503517-503524	Sugarcane	504680-504695,504757
Daphne willow	505940	Sunflower	505651-505653,505836- 505839
Downy hawthorn	503530	Tall fescue	504538,505832- 505835
Durum wheat	503553-503555	Timothy	505895
Einkorn	503874	Tobacco	505664-505668
Endive	503583-503593	Tomato	503872,505305-505357, 505816
Escarolle	503594-503600	Velvetbean	505658-505663
Fairway crested wheatgrass	504442	Watermelon	504519,505584- 505595,505935
Field corn	503507-503512, 503559-503577,503645-503864, 503881-504169,504294-504312, 505492-505550,505747-505815, 506132-506218	White clover	504546-504547
Garden pea	505060-505150	White lupine	505844-505848
Garden sage	503582	White sweetclover	503868, 504542
Hairy vetch	505934	White willow	505937-505939
Honeylocust	503531	Wild einkorn	503578
Idaho fescue	504313	Wild pea	505059
Kentucky bluegrass	505897- 505899	Wild soybean	504286-504290
Lettuce	503602-503643	Winter squash	505614-505632
Muskmelon	504522-504527,504531- 504533,505597-505603,505936	Yellow sweetclover	503869
Naked oat	503527-503529,504574- 504575	Yellow-flowered alfalfa	505872- 505873
Nepal silver grass	503871		
Okra	505441-505490,505551- 505567		
Orchardgrass	504537,505831		
Papaya	503873		
Peanut	503556-503558,504614, 505491,505571-505583,505956- 505977		

Acronyms

For space conservation and consistency in identifying locations, the following acronyms have been used in Plant Inventory No. 195:

- AVRDC - Asian Vegetable Research and Development Center
- CIAT - Centro Internacional de Agricultura Tropical
- CIMMYT - Centro Internacional de Mejoramiento de Maiz y Trigo
- FAO - Food and Agriculture Organization of the United Nations
- IBPGR - International Board for Plant Genetic Resources
- ICARDA - International Center for Agricultural Research in the Dry Areas
- ICRISAT - International Crops Research Institute for Semi-Arid Tropics (India)
- NBPGR - National Bureau of Plant Genetic Resources (India)
- ORSTOM - Office de la Recherche Scientifique et Technique d'Outre Mer (France)
- USDA-ARS - U.S. Department of Agriculture - Agricultural Research Service
- USDA-SCS - U.S. Department of Agriculture - Soil Conservation Service
- VIR - N.I. Vavilov Institute of Plant Industry (USSR)