Plant Inventory
No. 191

Plant Material Introduced
January 1 to December 31, 1983
(Nos. 475834 to 483096)
Plant Inventory
No. 191

Plant Material Introduced
January 1 to December 31, 1983
CONTENTS

<table>
<thead>
<tr>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory</td>
</tr>
<tr>
<td>Index</td>
</tr>
<tr>
<td>Scientific names</td>
</tr>
<tr>
<td>Common names</td>
</tr>
</tbody>
</table>

Plant Inventory No. 191 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. 191: L. G. Garner and R. A. Norris for continued excellence in handling all aspects of the computer system operation; and S. Kenworthy for coordinating PI and associated records and correspondence. 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.

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ARS has no additional copies for free distribution.

Issued September 1984
475834 TO 475843. Lycopersicon esculentum Mill. (Solanaceae) Tomato.

From Bulgaria. Donated by Institute for Genetic Resources; Sofia. Received through Institute of Introduction and Plant Resources, Sadovo. Received December 1982.


475844 TO 475847. Arachis sp. (Fabaceae).

From Bolivia. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy. Received December 1981.


475848 TO 475872. Arachis hypogaea L. (Fabaceae) Peanut. From Bolivia. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy. Received December 1981.


475848 TO 475872—continued
Cultivated. Seed.

Huacaraje, Beni. Collected by W.C. Gregory, A.
Krapovickas, C.E. Simpson, J. Pietrarelli, A. Schinini.
Cultivated. Seed.

475865. GKSPSc 218. Bolivia. Collected April 12, 1979. San
Borja, Beni. Collected by W.C. Gregory, A. Krapovickas,
Seed.

Borja, Beni. Collected by W.C. Gregory, A. Krapovickas,
Seed.

Borja, Beni. Collected by W.C. Gregory, A. Krapovickas,
C.E. Simpson, J. Pietrarelli, A. Schinini. Originally

475868. GKSPSc 221. Bolivia. Collected April 12, 1979. San
Ignacio, Beni. Collected by W.C. Gregory, A. Krapovickas,
Seed.

475869. GKSPSc 222. Bolivia. Collected April 17, 1979. Market,
Guayaramerin. Collected by W.C. Gregory, A. Krapovickas,
Seed.

475870. GKSPSc 223. Bolivia. Collected April 18, 1979. Market,
Guayaramerin. Collected by W.C. Gregory, A. Krapovickas,
Seed.

475871. GKSPSc 224. Brazil. Collected April 19, 1979. Farmer,
Guajara-Mirim. Collected by W.C. Gregory, A. Krapovickas,
Seed.

475872. GKSPSc 225. Bolivia. Collected April 20, 1979. East,
20km of Riberalta, Beni. Collected by W.C. Gregory, A.
Krapovickas, C.E. Simpson, J. Pietrarelli, A. Schinini.
Cultivated. Seed.

475873 TO 475879. Arachis sp. (Fabaceae).

From Bolivia. Collected by Various Plant Explorers; International
Board of Plant Genetic Resources (IBPGR), Food &
Agriculture Organization; Rome, Italy.
475873 TO 475879-continued
Received December 1981.

Botanical Gardens, Santa Cruz. Collected by W.C. Gregory,
A. Krapovickas, C.E. Simpson, J. Pietrarelli, A.

North, 2.5km of Nueva Hoca, 9.7km from square in
Portachuelo, Santa Cruz. 300m. Lat. 17 deg. 19' S, Long.
63 deg. 32' W. Collected by W.C. Gregory, A. Krapovickas,

West, 2km of Palometilla River bridge, 13.1km W of Portachuelo,
Santa Cruz. 400m. Lat. 17 deg. 22' S, Long. 63 deg. 29' W.
Collected by W.C. Gregory, A. Krapovickas, C.E. Simpson,
J. Pietrarelli, A. Schinini, R.W. Gibbons. Rhizobial vial

South, 3.2km of hwy to Portachuelo from Rio Yapacani,
Santa Cruz. 350m. Lat. 17 deg. 27' S, Long. 63 deg. 34' W.
Collected by W.C. Gregory, A. Krapovickas, C.E. Simpson,
J. Pietrarelli, A. Schinini, R.W. Gibbons. Rhizobial vial

Airport runway, Trinidad, Beni. 250m. Lat. 14 deg. 47' S, Long.
64 deg. 55' W. Collected by W.C. Gregory, A. Krapovickas,
C.E. Simpson, J. Pietrarelli, A. Schinini. Rhizobial vial

East, 200m of airport, Trinidad, Beni. 250m. Lat. 14 deg. 47' S, Long.
64 deg. 55' W. Collected by W.C. Gregory, A.
Krapovickas, C.E. Simpson, J. Pietrarelli, A. Schinini.

North, 50m of terminal building at airport, Guayaramerin, Beni.
250m. Lat. 10 deg. 49' S, Long. 65 deg. 24' W. Collected
by W.C. Gregory, A. Krapovickas, C.E. Simpson, J.
Pietrarelli, A. Schinini. Rhizobial vial 220. Perennial
Herb. Wild. Seed.

475880 TO 475887. Arachis sp. (Fabaceae).

From Argentina. Collected by Various Plant Explorers;
International Board of Plant Genetic Resources (IBPGR),
Food & Agriculture Organization; Rome, Italy.
475880 TO 475887—continued
Received December 1981.


475888 TO 475984. Arachis hypogaea L. (Fabaceae) Peanut.

From Bolivia. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy. Received December 1981.


475888 TO 475984-continued
red. Cultivated. Seed.


475888 TO 475984—continued
and white. Cultivated. Seed.


Seed.

**475954.** BZC 369. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Seed.

**475955.** BZC 370. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Seed.

**475956.** BZC 371. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Coradin. Originally from Cochabamba. Seeds red and white.
Local name Overo. Cultivated. Seed.

**475957.** BZC 372. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Coradin. Originally from Santa Cruz. Seeds red and white.
Local name Colorado. Cultivated. Seed.

**475958.** BZC 373. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Coradin. Originally from Santa Cruz. Seeds red and white.
Local name Overo. Cultivated. Seed.

**475959.** BZC 374. Bolivia. Collected April 18, 1980. Market,
Uruguay, La Paz. Collected by D.J. Banks, H. Zurita, L.
Coradin. Originally from Santa Cruz. Seeds large, solid
brown. Local name Crema. Cultivated. Seed.

**475960.** BZC 375. Bolivia. Collected April 18, 1980. Market,
Rodrigues, La Paz. Collected by D.J. Banks, H. Zurita, L.
Coradin. Originally from Santa Cruz. Seeds small, red.
Local name Colorado. Cultivated. Seed.

**475961.** BZC 376. Bolivia. Collected April 18, 1980. Market,
Rodrigues, La Paz. Collected by D.J. Banks, H. Zurita, L.
Local name Colorado. Cultivated. Seed.

**475962.** BZC 377. Bolivia. Collected April 18, 1980. Market,
Rodrigues, La Paz. Collected by D.J. Banks, H. Zurita, L.
Seed.

**475963.** BZC 378. Bolivia. Collected April 18, 1980. Market,
Rodrigues, La Paz. Collected by D.J. Banks, H. Zurita, L.
Seed.


Local name Overo. Cultivated. Seed.


Local name Crema. Cultivated. Seed.


Arachis sp. (Fabaceae).

From Bolivia. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy.
Received December 1981.


475998. KSSc 36019. Bolivia. Collected April 22, 1980. Mountain valley of Rio Robore, 1 km ENE of Robore, Santa Cruz. 375m. Lat. 18 deg. 21' S, Long. 59 deg. 45' W. Collected


476005. KSSc 36026. Bolivia. Collected April 27, 1980. Cerrado, 8km NE of San Jose de Chiquitos on road to El Rancho de Securo. 350m. Lat. 17 deg. 50' S, Long. 60 deg. 39' W. Collected by A. Krapovickas, C.E. Simpson, A. Schinini. On return trip, determined was 8-10km from San Jose, but was at first pampa with pure white sand. Flowers orange. Rhizobial vial 251. Perennial Herb. Wild. Seed.


476015. Arachis hypogaea L. (Fabaceae) Peanut.

From Peru. Collected by Various Plant Explorers; International Board of Plant GeneticResources (IBPGR), Food & Agriculture Organization; Rome, Italy. Received December 1981.


476015 TO 476041-continued


476042 TO 476046. Arachis helodes Mart. ex Hoehne (Fabaceae).

From Brazil. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy.
Received December 1981.


476047 TO 476054. Arachis hypogaea L. (Fabaceae) Peanut. From Brazil. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy. Received December 1981.


476047 to 476054—continued


476055 to 476102. Arachis hypogaea L. (Fabaceae) Peanut.

From Brazil. Collected by L. Coradin, A.R. Miranda, G.P. Silva & J. Valls; Centro Nacional de Recursos Genéticos, Empresa Brasileira de Pesquisa Agropecuária; CEP 70.000 - Brasilia DF. Received through IBPGR, FAO, Rome, Italy, and C.E. Simpson, Texas A&M Univ., Stephenville, TX. Received December 1981.


<table>
<thead>
<tr>
<th>Accession</th>
<th>Source</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Description</th>
<th>Author</th>
</tr>
</thead>
<tbody>
<tr>
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<td>176055</td>
<td>J. Valls 6164</td>
<td>Brazil. Brasilia</td>
<td>CENARGEN. C.E. Simpson</td>
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<td>S 552</td>
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<td>J. Valls 6224</td>
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<td>J. Valls 6268</td>
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<td>J. Valls 6272</td>
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<tr>
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<td>J. Valls 6265</td>
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<td>J. Valls 6196</td>
<td>Brazil. Brasilia</td>
<td>CENARGEN. C.E. Simpson</td>
</tr>
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<td>J. Valls 6225</td>
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<tr>
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<td>J. Valls 6294</td>
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<td>J. Valls 6295</td>
<td>Brazil. Brasilia</td>
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</tr>
</tbody>
</table>
S 570. Cultivated. Seed.

S 571. Cultivated. Seed.

S 572. Cultivated. Seed.


476100. G. Silva 303. Brazil. Collected August 19, 1981. Hwy BE- 
364, from Brasilia to Cuiaba, 3.2km E of Jatai River, 
Jatai, Goias. 700a. Lat. 17 deg. 54' S. Long. 51 deg. 43' 


S 574. Cultivated. Seed.

S 575. Cultivated. Seed.


Cultivated. Seed.


476103. VSGr 6306. Brazil. Collected August 19, 1981. Hwy BB-
364, from Brasilia to Cuiaba, 3.2km E of Jatai River, 
Jatai, Goias. 700m. Lat. 17 deg. 54' S, Long. 51 deg. 43' 

476104. VSGr 6332. Brazil. Collected August 22, 1981. Approx 
13km WSW of Cuiaba River, rd from Cuiaba to Caceres, Mato 
Grosso. 180m. Lat. 15 deg. 40' S, Long. 56 deg. 15' W. 
Collected by J.F.H. Valls, C.E. Simpson, A. Gripp. Plants 
found in a gravel bed at the edge of a low area. Plants
only found out of area flooded in wet season. Perennial Herb. Wild. Plants.


476103 TO 476131-continued

476120. VSGr 6405. Brazil. Collected August 30, 1981. Approx. 56km NW of Pto Esperidiao, hill west of VSGr 6404, Mato Grosso. 170m. Lat. 15 deg. 37' S, Long. 58 deg. 48' W. Perennial Herb. Wild. Seed.


476132 TO 476140. Arachis sp. (Fabaceae).

From Brazil. Collected by L. Coradin, A.R. Miranda, G.P. Silva & J. Valls; Centro Nacional de Recursos Genéticos, Empresa Brasileira de Pesquisa Agropecuária; CEP 70.000 - Brasilia DF. Received through IBPGR, FAO, Rome, Italy, and C.E. Simpson, Texas A&M Univ., Stephenville, TX. Received December 1981.

476141-476142. *Arachis tuberosa* Benth. (Fabaceae).

From Brazil. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy.
Received December 1981.


476143-476210. *Arachis hypogaea* L. (Fabaceae) Peanut.

From Peru. Collected by Various Plant Explorers; International Board of Plant Genetic Resources (IBPGR), Food & Agriculture Organization; Rome, Italy.
Received December 1981.


Zurita. Local type. Seeds small to medium, tan or flesh color, and tan with purple flecks. Cultivated. Seed.


476143 to 476210—continued


Zurita. Seeds small to medium, light purple, brown, tan or flesh color, few purple, few tan and purple striped. Cultivated. Seed.


476143 TO 476210—continued


From United States. Donated by North Dakota Experiment Station & U.S. Department of Agriculture; Fargo, North Dakota. Received December 1982.


From United States. Donated by D. W. Sunderman; U.S. Department of Agriculture & Idaho Agricultural Experiment Station, University of Idaho; Aberdeen and Moscow, Idaho. Received December 1982.

476212 TO 476214—continued

Cultivated. Seed.


From United States. Donated by Agricultural Experiment Station, North Dakota State University & U.S. Department of Agriculture; Fargo, North Dakota.
Received January 1983.


476216. X Triticosecale (Poaceae) Triticale.

From United States. Donated by Agricultural Experiment Station, North Dakota State University & U.S. Department of Agriculture; Fargo, North Dakota.
Received January 1983.

MD771932. 'Kramer'. Mexico. El Batan. CIMMYT. X2802-F-12N-1M-1N-1M-0Y. K.D. Kofoed. Maya II/Armadillo. Plants equal in height to Welsh, awned, hexaploid. Maturity 3 days earlier than Welsh. Test weight slightly better than Welsh. Protein percentage 1.5% below Welsh. More resistant to leaf rust than Welsh, but rating shows susceptibility. Cultivar. Seed.

476217. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From United States. Donated by North Dakota and Washington Agricultural Experiment Stations and U.S. Department of
476217-continued
Agriculture; Fargo, North Dakota and Pullman & Prosser, WA.
Received January 1983.

ND364. 'Holberg'. United States. Viva Pink/5R-568.

476218 TO 476219. Medicago orbicularis (L.) Bartal. (Fabaceae) Buttonclover medic.

From Israel. Collected by J. Katznelson; Division of Pasture & Fodder Crops, Agricultural Experiment Station; Newe Ya'ar, P.O. Haifa.
Received June 1981.


476220 TO 476237. Medicago polymorpha L. (Fabaceae) California burclover.

From Israel. Collected by J. Katznelson; Division of Pasture & Fodder Crops, Agricultural Experiment Station; Newe Ya'ar, P.O. Haifa.
Received June 1981.


**476220 TO 476237-continued**


northern slope, 1km E of Adamit. Collected by J. Katznelson and E. Pufiyevsky. Wild. Seed.


476238. Medicago rugosa Desr. (Fabaceae).

From Israel. Collected by J. Katznelson; Division of Pasture & Fodder Crops, Agricultural Experiment Station; Neve Ya'ar, P.O. Haifa.
Received June 1981.


476239 TO 476241. Medicago sp. (Fabaceae).

From Israel. Collected by J. Katznelson; Division of Pasture & Fodder Crops, Agricultural Experiment Station; Neve Ya'ar, P.O. Haifa.
Received June 1981.


476242 TO 476273. Medicago truncatula Gaertn. (Fabaceae) Barrelclover.

From Israel. Collected by J. Katznelson; Division of Pasture & Fodder Crops, Agricultural Experiment Station; Neve Ya'ar, P.O. Haifa.
Received June 1981.

476242. NYM 1450Q. Wild. Seed.

476243. NYM 1489Q. Wild. Seed.

476244. NYM 1516Q. Wild. Seed.
476242 TO 476273—continued

476245. NYM 1525C. Wild. Seed.
476246. NYM 2001C. Wild. Seed.
476247. NYM 2080C. Wild. Seed.
476248. NYM 2086C. Wild. Seed.
476249. NYM 2100C. Wild. Seed.
476250. NYM 2169C. Wild. Seed.
476251. NYM 2212C. Wild. Seed.
476252. NYM 2218C. Wild. Seed.
476253. NYM 2514C. Low in coumesterol content. Wild. Seed.
476254. NYM 2795C. Wild. Seed.
476255. NYM 2806C. Wild. Seed.
476256. NYM 2826C. Wild. Seed.
476257. NYM 2830C. Wild. Seed.
476258. NYM 3576C. Wild. Seed.
476259. NYM 3647C. Wild. Seed.
476260. NYM 3658C. Wild. Seed.
476261. NYM 3660C. Wild. Seed.
476262. NYM 3680C. Wild. Seed.
476263. NYM 4071C. Wild. Seed.
476264. NYM 4080C. Wild. Seed.
476265. NYM 4093C. Wild. Seed.
476266. NYM 4110C. Wild. Seed.
476267. NYM 4295C. Wild. Seed.
476268. NYM 4303C. Wild. Seed.
476242 TO 476273-continued


476272. n/12.


From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476275. Hilaria mutica (Buckl.) Benth. (Poaceae).

From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476276 TO 476277. Oryzopsis hymenoides (Roem. & Schult.) Ricker (Poaceae).

From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD.
476278-continued
Received January 1983.


From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476280. Sporobolus wrightii Munro ex Scribn. (Poaceae) Sacaton.

From United States. Donated by Los Lunas Plant Materials Center, SCS, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476281. Cenchrus ciliaris L. (Poaceae) Buffelgrass.

From United States. Donated by Texas Agricultural Experiment Station; College Station, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number. Received January 1983.

T 16763. 'Higgins'. United States. Selections from selfed progeny of B-15. Resembles Texas T-4464 (common) variety in foliage and inflorescence color but may be identified by presence of rhizomes and more compact inflorescence. Seed production superior to blue buffelgrass. Perennial Herb. Cultivar. Seed.


From United States. Donated by Virginia Agricultural Experiment Station; Blacksburg, Virginia. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number. Received January 1983.
476282-continued


476283. Dactylis glomerata L. (Poaceae) Orchardgrass.

From United States. Donated by Farmers Forage Research Cooperative; West Lafayette, Indiana. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number. Received January 1983.


From United States. Donated by Massachusetts Agricultural Experiment Station; Amherst, Massachusetts. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number. Received January 1983.


476285. Festuca arundinacea Schreb. (Poaceae) Tall fescue.

From United States. Donated by Big Flats Plant Materials Center, SCS, USDA; Big Flats, New York. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476286. Festuca idahoensis Elmer (Poaceae) Idaho fescue.

From United States. Donated by Pullman Plant Materials Center, SCS, USDA, Washington State University; Pullman, Washington. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.

476286-continued

476287 TO 476288. Phalaris stenoptera Hack. (Poaceae) Harding grass.

From United States. Donated by Pullman Plant Materials Center, SCS, USDA, Washington State University; Pullman, Washington. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476289. Panicum antidotale Retz. (Poaceae) Blue panicgrass.

From United States. Donated by Tucson Plant Materials Center, SCS, USDA; Tucson, Arizona. Received through National Plant Materials Center, SCS, Beltsville, MD. Received January 1983.


476290 TO 476296. Panicum virgatum L. (Poaceae) Switchgrass.

From United States. Donated by National Plant Materials Center, SCS, USDA; Beltsville, Maryland. Received January 1983.


476297. *Panicum virgatum* L. (Poaceae) Switchgrass.

From United States. Donated by Oklahoma Agricultural Experiment Station; Stillwater, Oklahoma. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number.

Received January 1983.


From United States. Donated by Bridger Plant Materials Center, SCS, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, MD.

Received January 1983.


476299. *Psathyrostachys juncea* (Fisch.) Nevski (Poaceae) Russian wildrye.

From United States. Donated by U.S. Northern Great Plains Research Center, ARS, USDA; Mandan, North Dakota.

Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to SCS T-number.

Received January 1983.

T 4390. 'Vinall'. United States. Three parental clones derived from PI75737 and one each from PI108493 and PI111549. Seed production high. Perennial Herb. Cultivar. Seed.


From United States. Donated by U.S. Northern Great Plains Research Center, ARS, USDA; Mandan, North Dakota.

Received through National Plant Materials Center, SCS,
476300-continued
Beltsville, MD. Code numbers refer to SCS T-number.
Received January 1983.

T 3992. 'Lodorm'. United States. Selected for low
dormancy in newly harvested seed. Perennial Herb.
Cultivar. Seed.

476301 TO 476304. Chrysanthemum cinerariifolium (Trevir.) Vis.
(Asteraceae) Pyrethrum.

From Kenya. Donated by B. H. Waite; Agricultural Research
Department, Kenya Agricultural Research Institute;
Nairobi.
Received December 1982.


From United States. Donated by Department of Agronomy, Kansas
State University; Manhattan, Kansas.
Received December 1982.

'Clark's Cream'. United States. E.G. Clark. Hard white
type. Plants tall, awnless. Maturity medium-late. Seeds
white. Resistance to preharvest sprouting is excellent.

476306 TO 476307. Arachis hypogaea L. (Fabaceae) Peanut.

From Brazil. Donated by Secao de Botanica Economica, Instituto
Agronomico; Campinas SP.
Received November 1982.

476306. SO 909. Brazil. Derived from PI259747. Resistant to scab
(Sphaceloma arachidis), late leafspot (Cercosporidium
personatum) and to Ascochyta arachidis. Cultivated.
Breeding Material. Seed.

476307. SO 911. Brazil. Derived from PI350680. Resistant to scab
(Sphaceloma arachidis) and late leafspot (Cercosporidium
476308 TO 476314. *Hordeum vulgare* L. (Poaceae) Barley.

*From France.* Donated by Laboratoire de l'Orge, Station D'Amélioration Des Plantes, I.M.R.A. Domaine de Crouelle; F-63039 Clermont Ferrand Cedex. Received through D.J. Simmons, Dept. of Agronomy, Univ. of Maryland, College Park, MD. Received January 1983.


476315 TO 476318. *Arachis hypogaea* L. (Fabaceae) Peanut.

*From Soviet Union.* Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received December 1981.


476319 TO 476323. *Beta vulgaris* L. (Chenopodiaceae) Common beet.

*From Soviet Union.* Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received December 1981.


476324. VIR 4307. Cel'nomolistnyj 215. Soviet Union. USSR. Received as C. lanatus var. vulgaris. Cultivated. Seed.


476328. VIR 4579. Podarok Holodova. Soviet Union. USSR. Received as C. lanatus var. vulgaris. Cultivated. Seed.


476331 TO 476342. Cucumis melo L. (Cucurbitaceae) Musk-melon.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received December 1981.


476343 TO 476352* Glycine max (L.) Merr. (Fabaceae) Soybean.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received December 1981.


476343 TO 476352—continued

476347. VIR 6439. Bel'skaja 25. Soviet Union. Moldavian SSR. 
Cultivated. Seed.

Cultivated. Seed.

476349. VIR 6466. Bukurija. Soviet Union. Moldavian SSR. 
Cultivated. Seed.

Cultivated. Seed.

476351. VIR 6990. Beregovcanka. Soviet Union. Ukrainian SSR. 
Cultivated. Seed.

Seed.

476353 TO 476354. Gossypium hirsutum L. (Malvaceae) Upland cotton. 

From Soviet Union. Donated by N. I. Vavilov Institute of Plant 
Industry; Leningrad. 
Received December 1981.


From Soviet Union. Donated by N. I. Vavilov Institute of Plant 
Industry; Leningrad. 
Received December 1981.

territory, USSR. Cultivated. Seed.

Seed.

region, USSR. Cultivated. Seed.

476358. VIR 3011. Har'kovskij-50. Soviet Union. Ukrainian SSR. 
Cultivated. Seed.

476359 TO 476362. Lactuca sativa L. (Asteraceae) Lettuce. 

From Soviet Union. Donated by N. I. Vavilov Institute of Plant
476359 TO 476362-continued
Industry; Leningrad.
Received December 1981.


476363 TO 476369. Lens culinaris Medik. (Fabaceae) Lentil.
From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476370 TO 476376. Lupinus albus L. (Fabaceae) White lupine.
From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received April 1982.


476370 TO 476376—continued


476377 TO 476384. Lupinus angustifolius L. (Fabaceae) European blue lupine.
From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received April 1982.

476385 TO 476391. Lycopersicon esculentum Mill. (Solanaceae) Tomato.
From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.
476385 TO 476391-continued

Seed.


From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476393. Medicago sativa subsp. x varia (Martyn) Arc. (Fabaceae).

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476394 TO 476397. Oryza sativa L. (Poaceae) Rice.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.

476394. VIR 5009. Gorizont. Soviet Union. USSR. Received as O. sativa var. zeravschanica. Cultivated. Seed.

476395. VIR 5254. Dal'nevostochoyj. Soviet Union. USSR. Received as O. sativa var. italica. Cultivated. Seed.

476396. VIR 6671. Donskoj 402. Soviet Union. USSR. Received as O. sativa var. vulgaris. Cultivated. Seed.

476397. VIR 6788. Dunaj. Soviet Union. USSR. Received as O. sativa var. italica. Cultivated. Seed.
476398 TO 476402. Panicum miliaceum L. (Poaceae) Proso millet.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476403 TO 476407. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476408 TO 476414. Pisum sativum L. (Fabaceae) Garden pea.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.

476410. VIR 6738. Mironovskij 186. Soviet Union. Ukrainian SSR.
476408 TO 476414—continued
Cultivated. Seed.


From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476416 TO 476421. Vigna unguiculata (L.) Walp. subsp. unguiculata (Fabaceae) Southern pea.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad.
Received December 1981.


476422 TO 476657. Arachis hypogaea L. (Fabaceae) Peanut.

From Cameroon. Donated by Institute de la Recherche Agronomique, Centre de Maroua; Maroua. Code numbers refer to Nigerian designations for Kano and Kofa Experiment Stations.
Received December 1982.


476422 TO 476657-continued

Material. Seed.


476422 TO 476657-continued


476422 TO 476657-continued


<table>
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<tr>
<th>Code</th>
<th>Variety</th>
<th>Country</th>
<th>Institute</th>
<th>Maturity</th>
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<td>Breeding Material</td>
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From Romania. Donated by Research Institute for Cereal and Industrial Crops, I.C.C.P.T.; 8264 Fundulea, Calarasi. Received January 1963.


476661 TO 476672. Zea mays L. (Poaceae) Field corn.


476673 TO 476678. Acroceras macrum Stapf (Poaceae) Nilegrass.

From South Africa. Donated by M. Farina; Department of Agriculture & Fisheries, Natal Region, Cedara College; Pietermaritzburg 3200.
Received January 1983.


476679. Phaseolus anisotrichus Schlechter (Fabaceae).

From Mexico. Collected by G. F. Freytag and N. G. Vakili; Mayaguez Institute of Tropical Agriculture, U.S. Department of Agriculture; Mayaguez, Puerto Rico.
Received September 1980.

Route 190 - km 1 S. Cristobal-Comitan-Ocosingo. 16 deg. 40' N, 92 deg. 30'W. 2130m. Some pods diseased. Seeds red. Cultivated. Seed.
476680 TO 476703. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From Mexico. Collected by G. F. Freytag and N. G. Vakili; Mayaguez Institute of Tropical Agriculture, U.S. Department of Agriculture; Mayaguez, Puerto Rico. Received September 1980.


Market, Coapilla. Lat. 17 deg. 05' N, Long. 93 deg. 05' W.
1500m. Originally from Llano Grande. Local name Blanco.
Cultivated. Seed.

Market, Coapilla. Lat. 17 deg. 05' N, Long. 93 deg. 05' W.
1500m. Originally from Llano Grande. Local name Negro.
Cultivated. Seed.

Market, Coapilla. Lat. 17 deg. 05' N, Long. 93 deg. 05' W.
1500m. Originally from Huacano. Local name Frijol negro.
Cultivated. Seed.

Market, San Cristobal de las Casas. Lat. 18 deg. 38' N,
Long. 90 deg. 47' W. Originally from Mata Moros. Local
name Frijol colorado. Cultivated. Seed.

Market, San Cristobal de las Casas. Lat. 16 deg. 30' N,
Long. 92 deg. 30' W. Originally from Teopisca. Local name
Frijol de Vega. Cultivated. Seed.

Market, San Cristobal de las Casas. Lat. 16 deg. 30' N,
Long. 92 deg. 37' W. Originally from San Andres. Local
name Frijol coloradito. Cultivated. Seed.

Market, San Cristobal de las Casas. Lat. 16 deg. 30' N,
Long. 92 deg. 37' W. Local name Frijol de Suelo (Fan de

Market, San Cristobal de las Casas. Lat. 16 deg. 48' N,
Long. 92 deg. 37' W. Originally from Tierra Caliente.
Local name Frijol de Suelo (Congoria). Cultivated. Seed.

Market, Comitan. Lat. 16 deg. 15' N, Long. 92 deg. 30' W.
1400m. Local name Frijol varreton. Cultivated. Seed.

Market, Comitan. Lat. 16 deg. 15' N, Long. 92 deg. 30' W.
1400m. Local name Frijol blanco. Cultivated. Seed.

Market, Tapachula. Lat. 14 deg. 57' N, Long. 92 deg. 15' W.
220m. Local name Frijol bayo. Cultivated. Seed.

Market, Tapachula. Lat. 14 deg. 57' N, Long. 92 deg. 15' W. 220m. Local name Frijol de vara de Tierra caliente. Cultivated. Seed.

476704. Phaseolus coccineus L. subsp. coccineus (Fabaceae).

From Guatemala. Collected by G. F. Freytag and N. G. Vakili; Mayaguez Institute of Tropical Agriculture, U.S. Department of Agriculture; Mayaguez, Puerto Rico. Received September 1980.


476705 TO 476757. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From Guatemala. Collected by G. F. Freytag and N. G. Vakili; Mayaguez Institute of Tropical Agriculture, U.S. Department of Agriculture; Mayaguez, Puerto Rico. Received September 1980.


Market, Jalapa. Lat. 14 deg. 38' N, Long. 89 deg. 59' W.
1240m. Originally from La Cumbre. Local name Frijol de Suelo. Cultivated. Seed.

Market, Jalapa. Lat. 14 deg. 31' N, Long. 89 deg. 46' W.
Originally from San Manuel Chaparron. Cultivated. Seed.

Market, Jalapa. Lat. 14 deg. 40' N, Long. 89 deg. 51' W.

Market, Jalapa. Lat. 14 deg. 38' N, Long. 89 deg. 59' W.
Originally from Caserio Shical. Cultivated. Seed.


Km 105, Aldea el Paraiso. Lat. 14 deg. 38' N, Long. 90 deg. 03' W. 1610m. Local name Frijol Rinon. Cultivated. Seed.


476705 TO 476757-continued

Aguacatan. Lat. 15 deg. 21' N, Long. 91 deg. 18' W. Local name Frijol enredador. Cultivated. Seed.


476705 TO 476757-continued

Market, San Miguel Uspantan. Lat. 15 deg. 21' N, Long. 90 deg. 52' W. 1850m. Originally from Vara. Local name Frijol colorado. Cultivated. Seed.


476705 TO 476757-continued


476758. Rhododendron hybrid (Ericaceae).


From Bulgaria. Donated by Institute for Wheat and Sunflower Research; General Toshovo. Received January 1983.


From Bulgaria. Donated by Institute for Wheat and Sunflower Research; General Toshovo. Received January 1983.

476760 TO 476771-continued


476772 TO 476796. Triticum durum Desf. (Poaceae) Durum wheat.

From Bulgaria. Donated by Institute for Wheat and Sunflower Research; General Toshevo.
Received January 1983.


From United States. Donated by M. E. Sorrells; Department of Plant Breeding and Biometry, Cornell University; Ithaca, New York. Received February 1983.


From China, Peoples Repub of. Donated by Inner Mongolian College of Agriculture and Animal Husbandry; Hohehot, Inner Mongolia. Received December 1982.

China, Peoples Repub of. Seed.

476808. Bothriochloa caucasica (Trin.) C.E. Hubb (Poaceae) Caucasian bluestem.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received January 1983.

Soviet Union. Seed.

476809. Bothriochloa ischaemum (L.) Keng (Poaceae) Yellow bluestem.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received January 1983.

Soviet Union. Seed.


From United States. Donated by R. A. Forsberg & M. A. Brinkman; Wisconsin Agricultural Experiment Station, University of Wisconsin; Madison. Received February 1983.


476811 TO 476812. Hordeum vulgare L. (Poaceae) Barley.

From Germany, Federal Rep of. Donated by F. von Lochow-Petkus GMBH; 3410 Northeim 13. Received January 1983.

476811. 'Ginso'. Germany, Federal Rep of. Dura x Senta /x
476811. TO 476812-continued


Received January 1983.


476814 TO 476815. Panicum amarum var. amarulum (Hitchc. & Chase) P. G. Palmer (Poaceae).

From United States. Donated by National Plant Materials Center, SCS, USDA; Beltsville, Maryland.
Received February 1983.


476816. Atriplex canescens (Pursh) Nutt. (Chenopodiaceae) Fourwing saltbush.

From United States. Donated by Lockeford Plant Materials Center, SCS, USDA; Lockeford, California. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received February 1983.


476817. Lolium hybrid (Poaceae).

From United States. Donated by Lockeford Plant Materials Center,
476817-continued
SCS, USDA; Lockeford, California. Received through
National Plant Materials Center, SCS, Beltsville, MD.
Received February 1983.

T 6402. Wimmera 62. Australia. Lolium rigidum x L.
multiflorum. Maturity early. Plants deep bright green,
erect, awnless. Provides rapid cover for erosion control.
Annual. Cultivar. Seed.

476818 TO 476819. Oryza sativa L. (Poaceae) Rice.

From United States. Donated by C. N. Bollich; Rice Research, U.S.
Department of Agriculture, Agricultural Research and
Extension Center; Beaumont, Texas.
Received February 1983.

476818. 'Pecos'. United States. CI 9545//Gulfrose/PI215936.
Released by ARS, USDA and the Texas, Louisiana and
Mississippi Agricultural Experiment Stations. Medium
grain type. Plants short. Leaves very upright, short,
wide, glabrous. Spikelets gold, awnless, glabrous. Outer
glumes dark purple. Yield superior to Nato, Saturn, equal
to Mars. Milling quality good. Resistant to lodging,
physiological straighthead disease, white tip, and narrow
brown leaf spot. Moderately susceptible to blast fungus
and sheath blight. Cultivar. Seed.

476819. 'Skybonnet'. United States. 'Bluebelle'//Belle Patna' /
'Dawn'. Released by ARS, USDA and the Texas, Louisiana
and Mississippi Agricultural Experiment Stations. Long
grain type. Plants short, leaves small, glabrous.
Spikelets straw-colored, awnless, glabrous. Yield
superior to Labelle and Starbonnet, equal to Lebonnet.
Resistant to lodging, blast fungus, and panicle blight.
Very susceptible to sheath blight disease. Moderately
resistant to physiological straighthead disease, brown
spot and narrow leaf spot. Cultivar. Seed.

476820. Chenopodium quinoa Willd. (Chenopodiaceae) Quinoa.

From Mexico. Donated by F. Cardenas Ramos; Instituto Nacional de
Investigaciones Agricolas; Mexico 1, D.F.
Received February 1983.

Santa Elena 7. Mexico. Chapingo area. Inflorescence used
as a cooked vegetable similar to broccoli. Local name

476821 TO 476847. Arachis hypogaea L. (Fabaceae) Peanut.

From China, Peoples Repub of. Donated by R. O. Hammons & D. M.


476821 TO 476847—continued
Seed.

476831. HP 11. Fu jia ping 17 dui hua sheng. China, Peoples
         Repub of. Wuhan, Hubei. Inst. of Oil Crops, Chinese Acad.
tan. Cultivated. Seed.

Seed.

         Inst. of Oil Crops, Chinese Acad. of Agri. Science.
Seed.

476834. HP 15. Yue you 589. China, Peoples Repub of. Wuhan,
         Spanish type. Pods two-segmented. Seeds tan. Resistant to

         Inst. of Oil Crops, Chinese Acad. of Agri. Science.
         Virginia type. Pods constricted, two-segmented. Seeds
pink. Cultivated. Seed.

         Inst. of Oil Crops, Chinese Acad. of Agri. Science.
Seed.

         Inst. of Oil Crops, Chinese Acad. of Agri. Science.
         Virginia type hybrid with variety hirsuta. Pods two-

476838. HP 19. Pu yang ruan yang. China, Peoples Repub of. Wuhan,
         Virginia type. Pods two-segmented. Resistant to

         Inst. of Oil Crops, Chinese Acad. of Agri. Science.
         Virginia type. Pods two-segmented. Seeds pink. Resistant


         Zhengzhou, Henan. Econ. Crops Res. Inst., Henan Acad. of
476821 TO 476847-continued

Cultivated. Seed.

476842. HP 23. Yue you 22. China, Peoples Repub of. Guangzhou,
Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.

476843. HP 24. Shi xuan 64. China, Peoples Repub of. Guangzhou,
Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.

476844. HP 26. De dou. China, Peoples Repub of. Guangzhou,
Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.

Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.

476846. HP 30. Zhan you 1. China, Peoples Repub of. Guangzhou,
Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.

476847. HP 31. Chen you 505. China, Peoples Repub of. Guangzhou,
Guangdong. Guangdong Acad. of Agri. Sciences, Shipa.
Seed.


From United States. Donated by A. Garcia; World Seeds, Inc.;
Carlsbad, California.
Received February 1983.

Courtney. United States. FKN-II-50-18/4/Son64/TPP-Y54/2/
Crim/3/Scn64-Y50D/P.Gto/2/Js. Hard red spring type.
Cultivar. Seed.


From United States. Donated by C. Bruns; North American Plant
Breeders; Berthoud, Colorado.
Received March 1983.

Straw strength good. Heads tapering, awned, with white
476849 TO 476851-continued
chaff. Adapted to northern spring wheat region of North and South Dakota and Minnesota. Moderately resistant to stem rust, leaf rust and tan spot. Susceptible to stripe rust and mildew. Cultivar. Seed.


476852. Fagopyrum esculentum Moench (Polygonaceae) Buckwheat.

From United States. Donated by Scatterseed Project; Farmington, Maine.
Received January 1983.


From United States. Donated by North Central Regional Plant Introduction Station, Iowa State University; Ames, Iowa.
Received February 1983.


476854 TO 476855. Avena sativa L. (Poaceae) Common oat.

From Canada. Donated by Cereal Section, Ottawa Research Station; Ottawa, Ontario K1A 0C6.


476856. Vigna umbellata (Thunb.) Ohwi & Ohashi (Fabaceae).
From Guatemala. Donated by Plenty Agricultural Project, c/o Embajada De Canada; Guatemala City.
Received February 1983.

476857. Cenchrus ciliaris L. (Poaceae) Buffelgrass.
From Botswana. Collected by R. I. Butterfield; U.S. Agency for International Development; Gaborone.
Received October 1981.

476858. Phaseolus acutifolius A. Gray (Fabaceae) Tepary bean.
From United States. Donated by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona.
Received February 1983.

476859. Phaseolus lunatus L. (Fabaceae) Lima bean.
From United States. Donated by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona.
Received February 1983.
476859-continued

P18-001. Hopi red. United States. Hopi Indian Reservation, Shongopavi, 2nd Mesa, Arizona. 1700m. Donated by Fred Kabotie. Selected from a very old gray mottled population. Maturity 80-100 days. Plants 40-80cm tall, climbing/vining habit. Drought resistant. Adapted to deep planting in sand dune areas. Probably resistant to root knot nematodes. Seeds bright red, solid to mottled. Used ceremonially as sprouts or boiled with salt pork. Local name Pala hatigo. Landrace. Seed.

476860 TO 476864. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From United States. Donated by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona. Received February 1983.


From United States. Donated by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona.


476872. Z15-003. Mexico. Farm, Rio Verde watershed, Saborigame,
476866 TO 476872-continued
Chihuahua. 2000m. Collected by E. Faubert. Grown by the
northern Tepehuan Indians of the Sierra Madre. Cobs 12-14

476873. Zea mays L. (Poaceae) Sweet corn.
From United States. Donated by Gary Nabhan; Meals for Millions/
Freedom from Hunger Foundation; Tucson, Arizona.
Received February 1983.

Z07-004. United States. Farm, Keams Canyon, Hopi Indian
Reservation, Arizona. 1700m. Rare 12-rowed sweet corn
originally from a Bantam-like type. Grown by Hopi Indians
for over 70 years. Seeds dry-roasted in earthen pit oven
and rehydrated at time of use. Some contamination of blue
and white floury seeds. Local name Tawaktci. Landrace.
Seed.

476874. Aegilops tauschii Coss. (Poaceae).
From United States. Donated by R. J. Metzger; USDA, Field Crops
Breeding & Production Research Unit, Dept. of Crop
Science, Oregon State Univ.; Corvallis. Code numbers
refer to Japanese Wheat Information Service (WIS).
Received November 1980.

WIS 2086. Afghanistan. Originally collected by a
Japanese team. Rachis non-brittle. Received as Aegilops
squierosa. Wild. Seed.

476875. Psophocarpus scandens (Endl.) Verdc. (Fabaceae).
From Indonesia. Donated by Botanic Gardens of Indonesia; Bogor.
Received February 1982.

Jogyakarta. Originally from Africa. Collected by S.H.A.
Lubis. Plants prostrate creeping. Leaflets lobed. Flowers
blue. Seeds ovoid. Age to first flowers four months.
Disease resistance high. Pest tolerance high. Perennial
Herb. Cultivated. Seed.

476876. Psophocarpus palustris Desv. (Fabaceae).
From Indonesia. Donated by Botanic Gardens of Indonesia; Bogor.
Received February 1982.

Collected by Setiyati S. Plants prostrate, creeping.


From China, Republic of. Donated by Vegetable Legume Program, The Asian Vegetable Research & Development Center; Shanhua, Tainan, 741. Received February 1983.


476878 to 476933. Glycine max (L.) Merr. (Fabaceae) Soybean.

From Vietnam, Socialist Rep of. Donated by National Institute for Agricultural Science; Ho Chi Minh City (Saigon). Received through J. A. Jacobs, Dept. of Agronomy, Univ. of Illinois, Urbana, IL. Received September 1982.


476934 TO 476936. Glycine max (L.) Merr. (Fabaceae) Soybean.

From Vietnam, Socialist Rep of. Donated by Station for the Improvement of Degraded Soil; Ha Bac Province, Viet Yen District. Received through J. A. Jackobs, Dept. of Agronomy, Univ. of Illinois, Urbana, IL. Received September 1982.


476937 TO 476941. Glycine max (L.) Merr. (Fabaceae) Soybean.

From Vietnam, Socialist Rep of. Donated by Central Seed Agency; Hanoi. Received through J. A. Jackobs, Dept. of Agronomy, Univ. of Illinois, Urbana, IL. Received September 1982.


476942 TO 476943. Glycine max (L.) Merr. (Fabaceae) Soybean.

From Vietnam, Socialist Rep of. Donated by Cooperative Farm; Phuc Tho District. Received through J. A. Jackobs, Dept. of Agronomy, Univ. of Illinois, Urbana, IL. Received September 1982.
476942 TO 476943-continued


From Brazil. Collected by M.J. Lukefahr; Empresa Brasileira de Pesquisa Agropecuaria, FAO-UN; Campina Grande, Paraiba. Received February 1983.

Brazil. Marro Redondo, Bahia. Seed.

476945 TO 476963. Gossypium hirsutum L. (Malvaceae) Upland cotton.

From Brazil. Collected by M.J. Lukefahr; Empresa Brasileira de Pesquisa Agropecuaria, FAO-UN; Campina Grande, Paraiba. Received February 1983.

476960. Brazil. Levramento, Bahia. Seed.

476964 TO 476967. Gossypium hirsutum L. (Malvaceae) Upland cotton.

From Brazil. Collected by J.C. Viglioni Penna; Administracao Regional de Uberaba, Empresa Brasileira de Pesquisa Agropecuaria; Uberaba, Minas Gerais.
Received February 1983.


From Kenya. Donated by Kitale Experiment Station; Kitale.
Received May 1978.
476971. South Africa. Seed.


From United States. Donated by J. W. Schmidt; Department of Agronomy, University of Nebraska; Lincoln, Nebraska.
476974 TO 476975—continued
Received March 1983.


From United States. Donated by D. C. Rasmussen; Department of Agronomy and Plant Genetics, Agricultural Experiment Station, University of Minnesota; St. Paul, Minnesota. Received March 1983.


476977 TO 476978. Arachis hypogaea L. (Fabaceae) Peanut.

From United States. Donated by Texas Agricultural Experiment Station, Texas A&M University; Stephenville, Texas. Received March 1983.


Lespedeza cuneata (Dum.) G. Don (Fabaceae) Sericea lespedeza.

From United States. Donated by Americus Plant Materials Center, Soil Conservation Service, USDA; Americus, Georgia. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


Bouteloua curtipendula (Michx.) Torr. (Poaceae) Side-oats grama.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


Celtis occidentalis L. (Ulmaceae).

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.

476983. Stipa viridula Trin. (Poaceae) Green needlegrass.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476984. Panicum texanum Buckl. (Poaceae).

From United States. Donated by Brooksville Plant Materials Center, Soil Conservation Service, USDA; Brooksville, Florida. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1583.


476985. Lespedeza thunbergii (DC.) Nakai (Fabaceae).

From United States. Donated by Cape May Plant Materials Center, Soil Conservation Service, USDA; Cape May Courthouse, New Jersey. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476986. Elaeagnus umbellata Thunb. (Elaeagnaceae) Autumn elaeagnus.

From United States. Donated by Elsberry Plant Materials Center, Soil Conservation Service, USDA; Elsberry, Missouri. Received through National Plant Materials Center, SCS,
476986-continued
Beltsville, MD.
Received February 1983.


476987. Bothriochloa ischaemum (L.) Keng var. ischaemum (Poaceae) Yellow bluestem.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476988. Buchloe dactyloides (Nutt.) Engelm. (Poaceae) Buffalograss.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476989. Cenchrus ciliaris L. (Poaceae) Buffelgrass.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.

T 3267. 'Nueces'. United States. Released in 1977. Hybrid from material from South Africa. Superior forage production and higher digestibility than T-4465 and
476989-continued


476990. Andropogon hallii Hack. (Poaceae) Sand bluestem

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476991. Bouteloua curtipendula (Michx.) Torr. (Poaceae) Side-oats grama

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476992. Bouteloua eriopoda (Torr.) Torr. (Poaceae) Black grama

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476993. Bouteloua gracilis (Willd. ex H.B.K.) Lag. ex Griffiths (Poaceae) Blue grama

From United States. Donated by Los Lunas Plant Materials Center,
Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476995. Hilaria jamea( TOr.) Benth. (Poaceae).

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


476996. Huhlenbergia wrightii Vasey (Poaceae) Spike Muhly.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.

476996-continued

Resistant to wheat curl mite. Perennial Herb. Cultivar.
Seed.

476997. Oryzopsis hymenoides (Roem. & Schult.) Ricker (Poaceae).

From United States. Donated by Los Lunas Plant Materials Center,
Soil Conservation Service, USDA; Los Lunas, New Mexico.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received February 1983.

Pueblo, Colorado. 1600m. Released in 1974. Useful for
dryland soil stabilization, revegetation of surface mined
land, and forage. Superior to 33 accessions in seed and
forage production, establishment and vigor in New Mexico,
Cultivar. Seed.

476998. Schizachyrium scoparium (Michx.) Nash (Poaceae) Little
bluestem.

From United States. Donated by Los Lunas Plant Materials Center,
Soil Conservation Service, USDA; Los Lunas, New Mexico.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received February 1983.

T 4718. 'Pastura'. United States. Collected 1957. Near
Rove and Pecos, New Mexico. 2200m. Growth uniform, green.
Seedling vigor excellent. Seed production high and easier
to process than most strains. Resistant to climatic


From United States. Donated by Los Lunas Plant Materials Center,
Soil Conservation Service, USDA; Los Lunas, New Mexico.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received February 1983.

T 4719. 'Llano'. United States. Collected 1956. Sandy
plains, near Hudson and Portales in eastern New Mexico.
1200m. Released in 1963. Adapted to southwestern Great
Plains with low, erratic rainfall. Produces good yields
of high quality seed. Perennial Herb. Cultivar. Seed.
477000. Yucca elata Engelman (Agavaceae) Soaptree yucca.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


From United States. Donated by Manhattan Plant Materials Center, Soil Conservation Service, USDA; Manhattan, Kansas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


477003. Panicum virgatum L. (Poaceae) Switchgrass.

From United States. Donated by Manhattan Plant Materials Center, Soil Conservation Service, USDA; Manhattan, Kansas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


From United States. Donated by National Plant Materials Center, Soil Conservation Service, USDA; Beltsville, Maryland.
Received February 1983.


477005. Poa canbyi (Scribn.) Piper (Poaceae) Canby bluegrass.

From United States. Donated by Pullman Plant Materials Center, Soil Conservation Service, USDA; Pullman, Washington.
Received through National Plant Materials Center, SCS, Beltsville, MD.
Received February 1983.


From United States. Donated by Quicksand Plant Materials Center, Soil Conservation Service, USDA; Quicksand, Kentucky.
Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


477007. Calamovilfa longifolia (Hook.) Scribn. (Poaceae) Prairie sandreed.

From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan.
Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.

T 4936. United States. Collected 1971. Manistee, Michigan. Selected over 'Goshen' and ND-95 for its vigorous growth, more leafy foliage and later maturing...
477007-continued

477008. Elaeagnus umbellata Thunb. (Elaeagnaceae) Autumn elaeagnus.
From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477009. Lathyrus latifolius L. (Fabaceae) Perennial peavine.
From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.

T 5022. United States. Collected October 31, 1973. Dense, low shrub about as wide as it is high with branches drooping to the ground. For possible use as windbreaks under center pivot irrigation systems. Perennial Woody. Wild. Seed.

477011. Thuja occidentalis L. (Cupressaceae) Northern white cedar.
From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.

477012. Eragrostis curvula (Schrad.) Nees (Poaceae) Weeping lovegrass.

From United States. Donated by Tucson Plant Materials Center, Soil Conservation Service, USDA; Tucson, Arizona. Received through National Plant Materials Center, SCS, Beltsville, MD. Received February 1983.


From Afghanistan. Donated by Afghan Seeds Co; Kabul. Received through Food & Agriculture Organization of the United Nations, Rome, Italy. Received April 1983.


477014. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From India. Donated by Regional Pulse Improvement Project, Agency for International Development & US Dept. of Agriculture; New Delhi. Received March 1983.


477015. Phaseolus coccineus L. (Fabaceae) Scarlet runner bean.

From Netherlands. Donated by A.C. Zeven; Institute of Plant Breeding, Agricultural University; Wageningen. Received March 1983.


477016 TO 477025. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From Netherlands. Donated by A.C. Zeven; Institute of Plant Breeding, Agricultural University; Wageningen.
477016 TO 477025—continued
Received March 1983.

Cultivated. Seed.

Cultivated. Seed.

Cultivated. Seed.


Cultivated. Seed.

Cultivated. Seed.


477024. 3.54. Rode Krobben. Netherlands. Aalsmeer. Seeds purple-
mottled. Cultivated. Seed.

Cultivated. Seed.

477026 TO 477030. Eleusine coracana (L.) Gaertn. (Poaceae) Finger
millet.

From India. Donated by National Bureau of Plant Genetic
Resources; New Delhi-PIN:110012.
Received March 1983.

477026. HPB 7-6. India. Bangalore, Karnataka. Susceptible to
blast, Pyricularia grisea. Cultivated. Seed.

477027. HR-23A. India. Bangalore, Karnataka. Susceptible to
blast, Pyricularia grisea. Cultivated. Seed.

477028. Indaf-8. India. Bangalore, Karnataka. Susceptible to
blast, Pyricularia grisea. Cultivated. Seed.

477029. Purna. India. Bangalore, Karnataka. Susceptible to
blast, Pyricularia grisea. Cultivated. Seed.

477030. VL-110. India. Bangalore, Karnataka. Susceptible to
477026 TO 477030—continued
blast, Pyricularia grisea. Cultivated. Seed.


From India. Donated by Department of Genetics & Plant Breeding, Punjab Agricultural University; Ludhiana. Received April 1983.


477032 TO 477039. Phaseolus acutifolius A. Gray (Fabaceae) Tepary bean.

From United States. Collected by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona. Received March 1983.


477032 TO 477039—continued
Gary Nabhan and W. C. Anson. Seeds brown. Local name S'oam pawi. Received as P. acatifolius var. latifolius. Cultivated. Seed.


477040. Phaseolus acutifolius var. tenuifolius A. Gray (Fabaceae).
From United States. Collected by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona. Received March 1983.


477041. Phaseolus lunatus L. (Fabaceae) Lima bean.
From United States. Collected by Gary Nabhan; Meals for Millions/Freedom from Hunger Foundation; Tucson, Arizona. Received March 1983.


477042 TO 477043. Adesmia bicolor (Poir.) DC. (Fabaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


477043. 2316. Uruguay. Collected December 27, 1979. Next to
477042 TO 477043-continued
Route Interbalnearia, Solimar, Canelones Department. Lat.
34 deg. 50' S, Long. 55 deg. 50' W. Collected by R.
Brescia and E. Marchesi. Wild. Seed.

477044. Agropyron scabrifolium (Doell) Parodi (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

Facultad de Agronomia. Humid site, southern Uruguay. Seed.

477045. Agrostis hygrometrica Nees (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

stream, Yaguary, Picada Coelho, Tacuarembó Department.
Lat. 32 deg. S, Long. 55 deg. 20' W. Low field, leached
soil. Wild. Seed.

477046 TO 477047. Axonopus argentinus Parodi (Poaceae) Carpetgrass.
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

477046. 2284. Uruguay. Collected December 20, 1979. Sandy soil,
Rte. 26, Arrarte, Banado Medina, Cerro Largo Department.
Lat. 32 deg. 20' S, Lcng. 54 deg. 30' W. Wild. Seed.

soil, Rte. 26, Los Horcones de Arrarte, El Sauce, Cerro
Largo Dept. Lat. 32 deg. 20' S, Long. 55 deg. W.
Collected by B. Rosengurtt and A. Vidal. Wild. Seed.

477048. Axonopus barbigerus (Kunth) Hitchc. (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.
477048—continued


477049 TO 477050. Axonopus suffultus (Mikan) Parodi (Poaceae)
Carpetgrass.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomía, Universidad de la República; Montevideo.
Received October 1982.


477051. Bothriochloa brasiliensis (Hack.) Henrard (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomía, Universidad de la República; Montevideo.
Received October 1982.


477052. Bouteloua megapotamica (Spreng.) Kuntze (Poaceae) Grama grass.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomía, Universidad de la República; Montevideo.
Received October 1982.


477053 TO 477055. Bromus auleticus Trin. ex Nees (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomía, Universidad de la República; Montevideo.
Received October 1982.

477053 TO 477055—continued


477056. Bromus brachyanthera Doell (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

2272. Uruguay. Montevideo. Jardin Botanico de la Facultad de Agronomia. Low field, edge of Santa Lucia river, Arequita, Lavelleja Department. Lat. 34° deg. 20' S, Long. 55° 55' W. Received as Bromus catharticus. Seed.

477058 TO 477059. Calamagrostis alba (Presl) Steudel (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477060 TO 477061. Calamagrostis montevidensis Nees (Poaceae).  
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, 
Faculty of Agronomia, Universidad de la Republica; 
Montevideo.  
Received October 1982.  

field, Banado Medina, Cerro Largo Department. Lat. 32 deg. 
20' S, Long. 54 deg. 30' W. Wild. Seed.  

Facultad de Agronomia. Montevideo Department. Seed.  

477062. Chascolytrum erectum (Lam.) A.W. Desv. (Poaceae).  
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, 
Faculty of Agronomia, Universidad de la Republica; 
Montevideo.  
Received October 1982.  

Facultad de Agronomia. Rocky field, Route 26, km 70, 
Paysandu Department. Lat. 32 deg. S, Long. 57 deg. 20' W. 
Received as Chascolytrum macrostachyum. Seed.  

477063. Chascolytrum lamarckianum (Nees) Matthei (Poaceae).  
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, 
Faculty of Agronomia, Universidad de la Republica; 
Montevideo.  
Received October 1982.  

Facultad de Agronomia. Sandy field near small stream Tres 
Cruces, Las Magnolias, Tacuarembo Dept. Lat. 31 deg. 40' 

477064 TO 477065. Chascolytrum subaristatum (Lam.) Desv. (Poaceae).  
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, 
Faculty of Agronomia, Universidad de la Republica; 
Montevideo.  
Received October 1982.  

field, Route 26, Yaguary, Tacuarembo Department. Lat. 32 
deg. S, Long. 55 deg. 20' W. Clected by B. Rosengurtt 
and D. Formoso. Wild. Seed.  

477064 TO 477065-continued
Facultad de Agronomía. Seed.

477066 TO 477067. Chloris uliginosa Hack. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomía, Universidad de la Republica;
Montevideo.
Received October 1982.

Facultad de Agronomía. Received as Eustachys uliginosa.
Seed.

Route 26, km 34, Arrarte, Cerro Largo Department. Lat. 32
deg. 20' S, Long. 54 deg. 30' W. Received as Eustachys
uliginosa. Wild. Seed.

477068 TO 477069. Coelorachis selloana (Hack.) A. Camus (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomía, Universidad de la Republica;
Montevideo.
Received October 1982.

Station, Banados de Medina, Cerro Largo Department. Lat.
32 deg. 20' S, Long. 54 deg. 30' W. Seed.

477069. C-160. Uruguay. Collected November 18, 1980. Heavy soil,
Experimental Station, Banados de Medina, Cerro Largo
Department. Lat. 32 deg. 20' S, Long. 54 deg. 30' W.
Collected by A. Vidal. Seed.

477070. Desmanthus virgatus (L.) Willd. (Fabaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomía, Universidad de la Republica;
Montevideo.
Received October 1982.

Facultad de Agronomía. Lat. 34 deg. 55' S, Long. 56 deg.
10' W. Seed.

477071. Desmanthus virgatus var. depressus (Humb. & Bonpl. ex Willd.)
B.L. Turner (Fabaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
477071-continued
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.


477072 TO 477073. Desmodium canum (J. F. Gmel.) Schinz & Thell. (Fabaceae) Kaimi-clower.
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477075. Digitaria eriostachya Mez (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

477076. Digitaria phaeothrix (Trin.) Parodi (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

2267. Uruguay. Collected November 30, 1979. Field edge,
around Aguas Blancas, Ao Solis de Mataojo, Lavalleja
Department. Lat. 34 deg. 30' S. Wild. Seed.

477077. Digitaria saltensis Henrard (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

Facultad de Agronomia. Northern Uruguay. Lat. 31 deg. 30'
S. Seed.

477078. Eleusine tristachya (Lam.) Lam. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

C-22. Uruguay. Collected December 19, 1980. Heavy soil,
Park of Experimental Station, Cerro Largo Department. Lat.
33 deg. 50' S, Long. 54 deg. 20' W. Seed.

477079. Eragrostis bahiensis Schrad. ex Schult. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.

Station, Banados de Medina, Cerro Largo, Cerro Largo Dept.
Lat. 33 deg. 50' S, Long. 54 deg. 20' W. Seed.

477080. Eragrostis lugens Nees (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,
Faculty of Agronomia, Universidad de la Republica;
Montevideo.
Received October 1982.
477080—continued

C-29. Uruguay. Collected November 30, 1979. Park of Experimental Station, Cerro Largo, Cerro Largo Department. Lat. 33 deg. 50' S, Long. 54 deg. 20' W. Seed.


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.

C-161. Uruguay. Collected February 20, 1980. Park of Experimental Station, Cerro Largo, Cerro Largo Department. Lat. 33 deg. 50' S, Long. 54 deg. 20' W. Seed.

477082. Eragrostis virescens Presl (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


477083. Holcus lanatus L. (Poaceae) Velvetgrass.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


131
477085 TO 477086. Melica brasiliana Ard. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

477085. 2704. Uruguay. Collected December 03, 1980. Rocky field, Paso del Puerto, Soriano Department. Lat. 33 deg. 05' S, Long. 57 deg. 05' W. Wild. Seed.


477087. Melica eremophila M. A. Torres (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477088. Melica hyalina Doell (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477089. Melica macra Nees (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

477090. Melica rigida Cav. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477091. Melica sarmentosa Nees (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477092. Ornithopus micranthus (Benth.) Arech. (Fabaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477093. Panicum glabripes Doell (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica;
477094-continued
Montevideo.
Received October 1982.

477095. Panicum sabulorum Lam. (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

477096. Panicum validum Mex (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

477097 TO 477098. Pappophorum mucronulatum Nees (Poaceae).
From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica,


From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


477101. Paspalum indecorum Mez (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


477102. Paspalum maculosum Trin. (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.


477103. Paspalum nicorae Parodi (Poaceae) Brunswickgrass.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo. Received October 1982.
477104. Paspalum plicatulum Hichx. (Poaceae) Brownseed paspalum.

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477105 TO 477106. Poa lanigera Nees (Poaceae).

From Uruguay. Donated by B. Rosengurtt; Laboratorio de Botanica, Faculty of Agronomia, Universidad de la Republica; Montevideo.
Received October 1982.


477107. Agropyron caninum (L.) Beauv. (Poaceae).

Received May 1978.


Received May 1978.


477109. Ammophila arenaria (L.) Link (Poaceae) European beachgrass.

From Germany, Federal Rep of. Donated by Botanischer Garten der
477109—continued
Universität des Saarlandes; D-66 Saarbrücken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


477110. Asparagus verticillatus L. (Liliaceae).
From Germany, Federal Rep of. Donated by Botanischer Garten der
Universität des Saarlandes; D-66 Saarbrücken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


From Germany, Federal Rep of. Donated by Botanischer Garten der
Universität des Saarlandes; D-66 Saarbrücken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


477112. Atriplex patula subsp. hastata (L.) Hall & Clem.
(Chenopodiaceae) Halberdleaf orach.
From Germany, Federal Rep of. Donated by Botanischer Garten der
Universität des Saarlandes; D-66 Saarbrücken. Code
numbers refer to Index Seminum 1977.
Received May 1978.

290. Germany, Federal Rep of. Received as Atriplex
hastata. Cultivated. Seed.

477113. Briza maxima L. (Poaceae) Big quaking grass.
From Germany, Federal Rep of. Donated by Botanischer Garten der
Universität des Saarlandes; D-66 Saarbrücken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


From Germany, Federal Rep of. Donated by Botanischer Garten der
Universität des Saarlandes; D-66 Saarbrücken. Code
477114—continued
numbers refer to Index Seminum 1977.
Received May 1978.


477115. Bromus lanceolatus Roth (Poaceae) Mediterranean bromegrass.

From Germany, Federal Rep. of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


477116. Calamagrostis varia (Schrad.) Host (Poaceae).

From Germany, Federal Rep. of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


From Germany, Federal Rep. of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


From Germany, Federal Rep. of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


477119. Cytisus cantabricus (Willk.) Reichenb. f. (Fabaceae).

From Germany, Federal Rep. of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.
477119-continued


477120. Glycyrrhiza echinata L. (Fabaceae).


477122. Lupinus polyphyllus Lindl. (Fabaceae).


477124. Phaseolus coccineus L. (Fabaceae) Scarlet runner bean.


477125. Rhynchosia phaseoloides (Sw.) DC. (Fabaceae).

From Germany, Federal Rep of. Donated by Botanischer Garten der
477125-continued
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.


477126. Securigera securidaca (L.) Deg. & Doerfl. (Fabaceae).
From Germany, Federal Rep of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.

429. Germany, Federal Rep of. Received as Securigera
coronilla. Cultivated. Seed.

477127. Zea mays subsp. mexicana (Schrad.) Iltis (Poaceae) Teosinte.
From Germany, Federal Rep of. Donated by Botanischer Garten der
Universitat des Saarlandes; D-66 Saarbrucken. Code
numbers refer to Index Seminum 1977.
Received May 1978.

648. Germany, Federal Rep of. Received as Euchlaena
mexicana. Cultivated. Seed.

477128 TO 477130. Psophocarpus palustris Desv. (Fabaceae).
From United States. Donated by T. Hymowitz; Department of
Agronomy, University of Illinois; Urbana, Illinois.
Received September 1982.

477128. IL 53. United States. Puerto Rico. Mayaguez Institute of

477129. IL 167. Australia. Asian Vegetable Res. & Development
Center, Taiwan. WB 032. Cultivated. Seed.


477131 TO 477136. Psophocarpus scandens (Endl.) Verdc. (Fabaceae).
From United States. Donated by T. Hymowitz; Department of
Agronomy, University of Illinois; Urbana, Illinois.
Received September 1982.

477131. IL 66. Nigeria. Ibadan. International Institute of
477131 TO 477136-continued


477137 TO 477284. Psophocarpus tetragonolobus (L.) DC. (Fabaceae) Winged bean.

From United States. Donated by T. Hymowitz; Department of Agronomy, University of Illinois; Urbana, Illinois. Received September 1982.


477171. IL 45-A. Papua New Guinea. Port Moresby. University of
477137 TO 477284—continued


47732. IL 143. E.P.C.K. Indonesia. Yogyakarta. University of

47733. IL 145. Menado 1. Indonesia. Yogyakarta. University of

47734. IL 146. Kemlagi. Indonesia. Yogyakarta. University of

47735. IL 147-A. Gedek. Indonesia. Yogyakarta. University of


47737. IL 149-A. India. New Delhi. National Bureau of Plant
Genetic Resources, IARI. I.C. 17004. Manipur. Collected

Genetic Resources, IARI. I.C. 17005. Makhao Jampak,
Manipur. Cultivated. Seed.

47739. IL 151. India. New Delhi. National Bureau of Plant
Genetic Resources, IARI. I.C. 17006. Tulaphai, Manipur.
Cultivated. Seed.

47740. IL 152. India. New Delhi. National Bureau of Plant
Genetic Resources, IARI. I.C. 17077. Pambe Meme, Kerala.
Cultivated. Seed.

Cultivated. Seed.

47742. IL 154. India. New Delhi. National Bureau of Plant
Seed.

Cultivated. Seed.

47744. IL 156. Sri Lanka. Gannoruwa. Central Agricultural
Cultivated. Seed.

Cultivated. Seed.

47746. IL 158. Sri Lanka. Gannoruwa. Central Agricultural
477137 TO 477284-continued


477284—to 477288. **Triticum aestivum L.** (Poaceae) Common wheat.

From United States. Donated by C. Bruns; North American Plant Breeders; Berthoud, Colorado.
Received April 1983.


'Triticum aestivum L. (Poaceae) Common wheat.'

From United States. Donated by C. Bruns; North American Plant Breeders; Berthoud, Colorado. Received April 1983.

477289-continued

477290. Lens culinaris Medik. (Fabaceae) Lentil.

From Pakistan. Donated by Tarnah Agricultural Research Institute; Peshawar. Received through W.J. Kaiser, Regional Plant Introduction Station, Pullman, Washington.
Received April 1983.


477291 TO 477297. Cicer arietinum L. (Fabaceae) Chickpea.

From Pakistan. Donated by S.A. Qureshi; National Agricultural Research Center; Islamabad. Received through W.J. Kaiser, Regional Plant Introduction Station, Pullman, Washington.
Received April 1983.


477298 TO 477300. Lens culinaris Medik. (Fabaceae) Lentil.

From Pakistan. Donated by A. Majeed Haqqani; National Agricultural Research Center; Islamabad. Received through W.J. Kaiser, Regional Plant Introduction Station, Pullman, Washington.
Received April 1983.
477298 TO 477300—continued


477301. Calliandra calothyrsus Meissn. (Fabaceae).

From United States. Donated by Tree Seeds International; Chevy Chase, Maryland.
Received April 1983.


477302. Sesbania grandiflora (L.) Poir. (Fabaceae).

From United States. Donated by Tree Seeds International; Chevy Chase, Maryland.
Received April 1983.


477303. Cymbopogon citratus (DC.) Stapf (Poaceae) Lemongrass.

From United States. Donated by Mayaguez Institute of Tropical Agriculture, United States Department of Agriculture; Mayaguez, Puerto Rico.
Received April 1983.


477304. Cymbopogon nardus (L.) Rendle (Poaceae) Citronella grass.

From United States. Donated by Mayaguez Institute of Tropical Agriculture, United States Department of Agriculture; Mayaguez, Puerto Rico.
Received April 1983.


477305. Desmodium intortum (Mill.) Urb. (Fabaceae) Greenleaf desmodium.

From Australia. Donated by Arthur Yates & Co. Pty., Ltd.;
477305-continued
Rockhampton, 4700 Queensland.
Received November 1982.


477306. Desmodium uncinatum (Jacq.) DC. (Fabaceae) Spanish tickclover.
From Australia. Donated by Arthur Yates & Co. Pty., Ltd.;
Rockhampton, 4700 Queensland.
Received November 1982.


477307 TO 477314. Coffea arabica L. (Rubiaceae) Coffee.
From Brazil. Donated by Instituto Agronômico de Campinas;
Campinas.
Received April 1983.


Resistant to coffee rust (Hemileia vastatrix). Cultivated. Seed.

Resistant to coffee rust (Hemileia vastatrix). Cultivated. Seed.

Resistant to coffee rust (Hemileia vastatrix). Cultivated. Seed.

477313. LC 1669-1-6 EP 227 C 1004. Selection from Catimor.
Resistant to coffee rust (Hemileia vastatrix). Cultivated. Seed.


477315 TO 477370. Coffea arabica L. (Rubiaceae) Coffee.
From Brazil. Donated by G. M. Chaves; Setor de Fitopatologia,
477315 to 477370—continued

Oniversidade Federal de Vicosa; Minas Gerais. Code numbers refer to selected progenies of the cultivars Catimor and Cavimor.
Received April 1983.


477348. UFV 5401. Brazil. (3872-642 EP 52)-Catimor. Resistant to


477371. Pisum sativum L. (Fabaceae) Field pea.

From United Kingdom. Donated by Hommersteeg International; Finedon, Wellingborough, Northamptonshire NN9 5HT . Received May 1983.


477372 TO 477536. Zea mays L. (Poaceae) Field corn.

From Chile. Donated by Orlando Paratori B.; Instituto de Investigaciones Agropecuarias, Estacion Experimental la Platina; Santiago. Received through IBPGR/FAO & R. Sevilla P., IICA, Asuncion, Paraguay. Received March 1983.

477372. CH ZM 01 028. Chile. Cultivated. Seed.

477373. CH ZM 01 030. Chile. Cultivated. Seed.

477374. CH ZM 01 031. Chile. Cultivated. Seed.

477375. CH ZM 01 032. Chile. Cultivated. Seed.

477376. CH ZM 01 033. Chile. Cultivated. Seed.

477377. CH ZM 01 034. Chile. Cultivated. Seed.

477378. CH ZM 01 036. Chile. Cultivated. Seed.

477379. CH ZM 01 038. Chile. Cultivated. Seed.
477372 TO 477536—continued

477380. CH ZM 01 039. Chile. Cultivated. Seed.
477381. CH ZM 01 040. Chile. Cultivated. Seed.
477382. CH ZM 01 041. Chile. Cultivated. Seed.
477383. CH ZM 01 042. Chile. Cultivated. Seed.
477384. CH ZM 01 043. Chile. Cultivated. Seed.
477385. CH ZM 01 044. Chile. Cultivated. Seed.
477386. CH ZM 01 045. Chile. Cultivated. Seed.
477387. CH ZM 01 046. Chile. Cultivated. Seed.
477388. CH ZM 01 047. Chile. Cultivated. Seed.
477389. CH ZM 01 049. Chile. Cultivated. Seed.
477390. CH ZM 01 051. Chile. Cultivated. Seed.
477391. CH ZM 01 052. Chile. Cultivated. Seed.
477392. CH ZM 01 053. Chile. Cultivated. Seed.
477393. CH ZM 01 054. Chile. Cultivated. Seed.
477394. CH ZM 01 056. Chile. Cultivated. Seed.
477395. CH ZM 01 057. Chile. Cultivated. Seed.
477396. CH ZM 01 058. Chile. Cultivated. Seed.
477397. CH ZM 01 059. Chile. Cultivated. Seed.
477398. CH ZM 01 060. Chile. Cultivated. Seed.
477399. CH ZM 01 061. Chile. Cultivated. Seed.
477400. CH ZM 01 062. Chile. Cultivated. Seed.
477401. CH ZM 01 063. Chile. Cultivated. Seed.
477402. CH ZM 01 064. Chile. Cultivated. Seed.
477403. CH ZM 01 065. Chile. Cultivated. Seed.
477404. CH ZM 01 066. Chile. Cultivated. Seed.
477405. CH ZM 01 067. Chile. Cultivated. Seed.
477406. CH ZM 01 068. Chile. Cultivated. Seed.
477407. CH ZM 01 069. Chile. Cultivated. Seed.
477408. CH ZM 01 070. Chile. Cultivated. Seed.
477409. CH ZM 01 071. Chile. Cultivated. Seed.
477410. CH ZM 01 072. Chile. Cultivated. Seed.
477411. CH ZM 02 023. Chile. Cultivated. Seed.
477412. CH ZM 03 011. Chile. Cultivated. Seed.
477413. CH ZM 03 012. Chile. Cultivated. Seed.
477414. CH ZM 03 013. Chile. Cultivated. Seed.
477415. CH ZM 03 014. Chile. Cultivated. Seed.
477416. CH ZM 03 015. Chile. Cultivated. Seed.
477417. CH ZM 03 016. Chile. Cultivated. Seed.
477418. CH ZM 07 037. Chile. Cultivated. Seed.
477420. CH ZM 07 041. Chile. Cultivated. Seed.
477421. CH ZM 07 042. Chile. Cultivated. Seed.
477423. CH ZM 07 044. Chile. Cultivated. Seed.
477424. CH ZM 07 045. Chile. Cultivated. Seed.
477425. CH ZM 07 046. Chile. Cultivated. Seed.
477426. CH ZM 07 047. Chile. Cultivated. Seed.
477427. CH ZM 07 048. Chile. Cultivated. Seed.
477428. CH ZM 07 049. Chile. Cultivated. Seed.
477430. CH ZM 07 051. Chile. Cultivated. Seed.
477431. CH ZM 07 052. Chile. Cultivated. Seed.
477372 to 477536—continued

477432. CH ZM 07 053. Chile. Cultivated. Seed.
477433. CH ZM 07 054. Chile. Cultivated. Seed.
477434. CH ZM 07 055. Chile. Cultivated. Seed.
477435. CH ZM 07 056. Chile. Cultivated. Seed.
477436. CH ZM 07 057. Chile. Cultivated. Seed.
477437. CH ZM 07 058. Chile. Cultivated. Seed.
477438. CH ZM 07 059. Chile. Cultivated. Seed.
477439. CH ZM 07 060. Chile. Cultivated. Seed.
477440. CH ZM 07 062. Chile. Cultivated. Seed.
477441. CH ZM 07 063. Chile. Cultivated. Seed.
477443. CH ZM 07 066. Chile. Cultivated. Seed.
477444. CH ZM 07 067. Chile. Cultivated. Seed.
477445. CH ZM 07 068. Chile. Cultivated. Seed.
477446. CH ZM 07 069. Chile. Cultivated. Seed.
477447. CH ZM 07 070. Chile. Cultivated. Seed.
477448. CH ZM 07 071. Chile. Cultivated. Seed.
477449. CH ZM 07 072. Chile. Cultivated. Seed.
477450. CH ZM 07 073. Chile. Cultivated. Seed.
477451. CH ZM 07 074. Chile. Cultivated. Seed.
477452. CH ZM 07 075. Chile. Cultivated. Seed.
477453. CH ZM 07 076. Chile. Cultivated. Seed.
477454. CH ZM 07 077. Chile. Cultivated. Seed.
477455. CH ZM 07 078. Chile. Cultivated. Seed.
477456. CH ZM 07 079. Chile. Cultivated. Seed.
477457. CH ZM 07 080. Chile. Cultivated. Seed.
477372 TO 477536—continued

477458. CH ZM 07 081. Chile. Cultivated. Seed.
477459. CH ZM 07 083. Chile. Cultivated. Seed.
477460. CH ZM 07 084. Chile. Cultivated. Seed.
477461. CH ZM 07 085. Chile. Cultivated. Seed.
477462. CH ZM 07 086. Chile. Cultivated. Seed.
477463. CH ZM 07 088. Chile. Cultivated. Seed.
477465. CH ZM 07 090. Chile. Cultivated. Seed.
477466. CH ZM 07 091. Chile. Cultivated. Seed.
477467. CH ZM 07 092. Chile. Cultivated. Seed.
477469. CH ZM 07 094. Chile. Cultivated. Seed.
477470. CH ZM 07 095. Chile. Cultivated. Seed.
477471. CH ZM 07 097. Chile. Cultivated. Seed.
477472. CH ZM 07 098. Chile. Cultivated. Seed.
477473. CH ZM 07 099. Chile. Cultivated. Seed.
477475. CH ZM 07 102. Chile. Cultivated. Seed.
477476. CH ZM 07 103. Chile. Cultivated. Seed.
477477. CH ZM 08 050. Chile. Cultivated. Seed.
477478. CH ZM 08 055. Chile. Cultivated. Seed.
477479. CH ZM 08 058. Chile. Cultivated. Seed.
477480. CH ZM 08 059. Chile. Cultivated. Seed.
477481. CH ZM 08 063. Chile. Cultivated. Seed.
477482. CH ZM 08 064. Chile. Cultivated. Seed.
477483. CH ZM 08 065. Chile. Cultivated. Seed.
477484. CH ZM 08 070. Chile. Cultivated. Seed.
477485. CH ZM 08 071. Chile. Cultivated. Seed.
477486. CH ZM 08 072. Chile. Cultivated. Seed.
477487. CH ZM 08 073. Chile. Cultivated. Seed.
477488. CH ZM 08 074. Chile. Cultivated. Seed.
477489. CH ZM 08 075. Chile. Cultivated. Seed.
477490. CH ZM 08 078. Chile. Cultivated. Seed.
477491. CH ZM 08 079. Chile. Cultivated. Seed.
477492. CH ZM 08 081. Chile. Cultivated. Seed.
477493. CH ZM 09 001. Chile. Cultivated. Seed.
477495. CH ZM 09 003. Chile. Cultivated. Seed.
477496. CH ZM 09 004. Chile. Cultivated. Seed.
477497. CH ZM 09 005. Chile. Cultivated. Seed.
477498. CH ZM 09 006. Chile. Cultivated. Seed.
477499. CH ZM 09 007. Chile. Cultivated. Seed.
477500. CH ZM 09 008. Chile. Cultivated. Seed.
477501. CH ZM 09 010. Chile. Cultivated. Seed.
477504. CH ZM 09 018. Chile. Cultivated. Seed.
477505. CH ZM 09 021. Chile. Cultivated. Seed.
477508. CH ZM 09 029. Chile. Cultivated. Seed.
477509. CH ZM 09 030. Chile. Cultivated. Seed.
477510. CH ZM 09 033. Chile. Cultivated. Seed.
477511. CH ZM 09 038. Chile. Cultivated. Seed.
477512. CH ZM 09 041. Chile. Cultivated. Seed.
477513. CH ZM 09 045. Chile. Cultivated. Seed.
477514. CH ZM 09 052. Chile. Cultivated. Seed.
477515. CH ZM 09 054. Chile. Cultivated. Seed.
477516. CH ZM 09 058. Chile. Cultivated. Seed.
477517. CH ZM 09 059. Chile. Cultivated. Seed.
477518. CH ZM 09 061. Chile. Cultivated. Seed.
477519. CH ZM 09 062. Chile. Cultivated. Seed.
477522. CH ZM 09 068. Chile. Cultivated. Seed.
477523. CH ZM 10 004. Chile. Cultivated. Seed.
477525. CH ZM 10 008. Chile. Cultivated. Seed.
477527. CH ZM 10 018. Chile. Cultivated. Seed.
477528. CH ZM 10 019. Chile. Cultivated. Seed.
477531. CH ZM 10 035. Chile. Cultivated. Seed.
477372 TO 477536—continued


477537 TO 477762. Zea mays L. (Poaceae) Field corn.

From Mexico. Donated by Centro Internacional de Mejoramiento de Maiz and Trigo; Mexico 6, D.F. Received through Pioneer Hi-Bred International, Inc., Dept. of Corn Breeding, Homestead, FL. Received April 1983.

477537. URU 008A. Uruguay. Cultivated. Seed.
477544. URU 156A. Uruguay. Cultivated. Seed.
477546. URU 166A. Uruguay. Cultivated. Seed.
477537 to 477762—continued

477562. URU 352A. Uruguay. Cultivated. Seed.
477564. URU 368A. Uruguay. Cultivated. Seed.
477568. URU 381A. Uruguay. Cultivated. Seed.
477572. URU 400A. Uruguay. Cultivated. Seed.
477574. URU 413A. Uruguay. Cultivated. Seed.
477537 TO 477762—continued

477588. URU 529A. Uruguay. Cultivated. Seed.
477589. URU 530A. Uruguay. Cultivated. Seed.
477597. URU 545A. Uruguay. Cultivated. Seed.
477603. URU 559A. Uruguay. Cultivated. Seed.
477606. URU 564A. Uruguay. Cultivated. Seed.
477608. URU 570A. Uruguay. Cultivated. Seed.
477613. URU 582A. Uruguay. Cultivated. Seed.
477614. URU 584A. Uruguay. Cultivated. Seed.
477620. URU 593A. Uruguay. Cultivated. Seed.
477624. URU 600A. Uruguay. Cultivated. Seed.
477627. URU 603A. Uruguay. Cultivated. Seed.
477631. URU 611A. Uruguay. Cultivated. Seed.
477632. URU 613A. Uruguay. Cultivated. Seed.
477635. URU 624A. Uruguay. Cultivated. Seed.
477537 TO 477762—continued

477637. URU 626A. Uruguay. Cultivated. Seed.
477638. URU 627A. Uruguay. Cultivated. Seed.
477639. URU 630A. Uruguay. Cultivated. Seed.
477658. URU 659A. Uruguay. Cultivated. Seed.
477660. URU 663A. Uruguay. Cultivated. Seed.
477662. URU 669A. Uruguay. Cultivated. Seed.
477663. URU 670A. Uruguay. Cultivated. Seed.
477665. URU 674A. Uruguay. Cultivated. Seed.
477672. URU 701A. Uruguay. Cultivated. Seed.
477675. URU 709A. Uruguay. Cultivated. Seed.
477676. URU 710A. Uruguay. Cultivated. Seed.
477682. URU 725A. Uruguay. Cultivated. Seed.
477686. URU 734A. Uruguay. Cultivated. Seed.
477537 TO 477762—continued

477691. URU 751A. Uruguay. Cultivated. Seed.
477692. URU 752A. Uruguay. Cultivated. Seed.
477694. URU 756A. Uruguay. Cultivated. Seed.
477699. URU 1021A. Uruguay. Cultivated. Seed.
477700. URU 1022A. Uruguay. Cultivated. Seed.
477709. URU 1038A. Uruguay. Cultivated. Seed.
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47737 TO 47762—continued

47740. URU 1147A. Uruguay. Cultivated. Seed.
47744. URU 1158A. Uruguay. Cultivated. Seed.
47745. URU 1161A. Uruguay. Cultivated. Seed.
47747. URU 1164A. Uruguay. Cultivated. Seed.
47754. URU 1185A. Uruguay. Cultivated. Seed.
47756. URU 1192A. Uruguay. Cultivated. Seed.
47762. URU 1227A. Uruguay. Cultivated. Seed.

47763 TO 47762. Hordeum vulgare L. (Poaceae) Barley.

From Peru. Collected by M. Romero Loli; Programa de Cereales, Universidad Nacional Agraria, La Molina; Lima 14. Code numbers refer to Universidad Nacional Agraria Barley


477763 TO 477862-continued
Local name Cebada. Cultivated. Seed.


176


477763 TO 477862-continued


477825. UNA 8361. Peru. Lat. 15 deg. S, Long. 70 deg. W.
Huancane, Puno. Other identification 33-Vilquechico-510.
Six row naked type. Local name Ccala cebada. Cultivated.
Seed.

477826. UNA 8362. Peru. Lat. 15 deg. S, Long. 70 deg. W.
Huancane, Puno. Other identification 33-Vilquechico-517.
Six row naked type. Local name Ccala cebada. Cultivated.
Seed.

477827. UNA 8363. Peru. Lat. 15 deg. S, Long. 70 deg. W.
Huancane, Puno. Other identification 33-Vilquechico-529.
Six row naked type. Local name Ccala cebada. Cultivated.
Seed.

477828. UNA 8364. Peru. Lat. 15 deg. S, Long. 70 deg. W.
Huancane, Puno. Other identification 33-Vilquechico-533.
Six row naked type. Local name Ccala cebada. Cultivated.
Seed.

Local name Ccala cebada. Cultivated. Seed.

Other identification 23-Caritimaya-7. Six row naked type.
Local name Ccala cebada. Cultivated. Seed.

Local name Ccala cebada. Cultivated. Seed.

Other identification 23-Caritimaya-10. Six row naked type.
Local name Ccala cebada. Cultivated. Seed.

Local name Ccala cebada. Cultivated. Seed.

Local name Ccala cebada. Cultivated. Seed.

Local name Ccala cebada. Cultivated. Seed.

Other identification 23-Caritimaya-17. Six row naked type.
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477763 TO 477862-continued


From Peru. Collected by M. Romero Loli; Programa de Cereales, Universidad Nacional Agraria, La Molina; Lima 14. Code numbers refer to Universidad Nacional Agraria Wheat Germplasm Bank. Received April 1983.


477863 TO 477902-continued

Luis, Ancash. Local name Trigo. Cultivated. Seed.


Received April 1983.


From United States. Donated by C.S. Kauffman; Rodale Research Center; Kutztown, Pennsylvania.

Received September 1982.

477912 TO 477914-continued


477915 TO 477917. Amaranthus hypochondriacus L. (Amaranthaceae).
From United States. Donated by C.S. Kauffman; Rodale Research Center; Kutztown, Pennsylvania. Received September 1982.


From United States. Donated by C.S. Kauffman; Rodale Research Center; Kutztown, Pennsylvania. Received September 1982.


From United States. Donated by M. Wilson; Department of Agronomy and Soils, Washington State University; Pullman, Washington. Received May 1983.
477919-continued


477920 TO 477922. Lens culinaris Medik. (Fabaceae) Lentil.

From United States. Donated by F.J. Huehlbauer; Grass and Legume Breeding and Production Research, USDA, Washington State University; Pullman, Washington. Received through R.H. Hannan, Western Regional Plant Introduction Station, Pullman. Received March 1983.


477923. Lens hybrid (Fabaceae).

From United States. Donated by F.J. Huehlbauer; Grass & Legume Breeding and Production Research, USDA, Washington State University; Pullman, Washington. Received through R.H. Hannan, Western Regional Plant Introduction Station, Pullman. Received March 1983.


From United States. Donated by J.H. Robertson; Knudtsen Renewable
477924—continued
Resources Center, University of Nevada; Reno, Nevada.
Received February 1983.

Lake, State Forestry nursery, Nevada. Shrub woody, large.
Drought and salt resistant. Cultivated. Seed.

477925 TO 477926. Zea mays L. (Poaceae) Field corn.

From China, Peoples Repub of. Donated by Department of
Agriculture, Beijing Agricultural University; Beijing.
Received December 1982.


477927 TO 477928. Lupinus arbustus subsp. neolaxiflorus D. Dunn
(Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA,
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

8km west of John Day river crossing, Oregon. 900m. Plants
growing with sage brush, bottle brush, cheat grass,
rabbit brush and yarrow. Plants glabrous. Flowers blue.
Wild. Seed.

477928. D&S 52. United States. Hwy 97, 6.4km south of Shaniko,
at Snowcap Identifier turnout, Oregon. 990m. Plants
growing with sage brush, aster, bottle brush and sneeze

477929 TO 477931. Lupinus argenteus subsp. argenteus var. tenellus
(Dougl. ex G. Don) D. Dunn (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA,
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

Rd, 4.8km east of Madras, Oregon. 90m. Plants growing
with three awn, juniper, sage brush and cheat grass.

Disturbed area, hwy 26, 3.2km north of Prineville, Oregon.
900m. Plants growing with sage brush, cheat grass, widely
scattered juniper. Plants tall, glabrous. Wild. Seed.

477932 TO 477934. Lupinus aridus Dougl. ex Lindl. (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA,
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

above the John Day river, 1.6km west of Spray, Oregon.
555m. Plants growing with juniper, sage brush, rabbit
brush, and cheat grass. Plants short. Leaves fine.
Flowers blue. Wild. Seed.

Rd, 9.9km east of Madras, Oregon. 900m. Plants growing
with juniper, sage brush, and three awn. Plants small,

19.2km from Mitchell towards Service Creek, Oregon. 900m.
Plants growing with sage brush, juniper, and rabbit brush.
Wild. Seed.

477935. Lupinus caudatus Kell. (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA,
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

Mtn Rd, 20.8km from Madras, 1.6km N of Hay Creek Ranch
Hdgtrs, Oreg. 450m. Near reservoir, growing with sage
brush, cheat grass, and juniper. Plants short. Annual.
Wild. Seed.

477936. Lupinus caudatus Kell. subsp. caudatus (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA,
Regional Plant Introduction Station, Washington State
477936-continued
University; Pullman, Washington.
Received November 1981.


477937. Lupinus leucophyllus var. belliae C. P. Sm. (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA, Regional Plant Introduction Station, Washington State University; Pullman, Washington.
Received November 1981.


477938 to 477946. Lupinus leucophyllus Dougl. ex Lindl. (Fabaceae).

From United States. Collected by A.M. Davis and D.M. Stout; USDA, Regional Plant Introduction Station, Washington State University; Pullman, Washington.
Received November 1981.


**477947.** Lupinus leucophyllus Dougl. ex Lindl. var. leucophyllus (Fabaceae).

*From United States. Collected by A.M. Davis and D.H. Stout; USDA, Regional Plant Introduction Station, Washington State University; Pullman, Washington. Received November 1981.*


**477948.** Lupinus littoralis Dougl. ex Lindl. (Fabaceae).

*From United States. Collected by A.M. Davis and D.H. Stout; USDA, Regional Plant Introduction Station, Washington State*
477948-continued
University; Pullman, Washington.
Received November 1981.

Coastal dune, Ona beach Hwy 101, south of Newport, Oregon.
Salt tolerant. Wild. Seed.

477949 TO 477950. Lupinus sericeus var. egglestonianus C. P. Sm.
(Fabaceae).
From United States. Collected by A.M. Davis and D.H. Stout; USDA.
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

of Waterville, Washington, 12.8km, after turn. 840m.
Reseeded hillside of crested wheat. Plants small,
puberulent, grayish. Wild. Seed.

Republic to Tonasket, 1.6km, Washington. 750m. Plants
growing with rabbit brush and sage brush. Plants medium

477951 TO 477953. Lupinus sericeus var. flexuosus (Lindl. ex Agardh) C.
P. Sm. (Fabaceae).
From United States. Collected by A.M. Davis and D.H. Stout; USDA.
Regional Plant Introduction Station, Washington State
University; Pullman, Washington.
Received November 1981.

Roadside above Lake Conconully, 1.6km from Conconully,
Washington. 600m. Plants growing with ponderosa pine,
spruce, and fir. Plants medium height, puberulent.
Flowers blue. Wild. Seed.

30, 32km from Tonasket to Republic, Washington. 900m.
Plants growing with ponderosa pine. Plants medium height,

Swamp Creek Rd and Hwy 30, 40km west of Republic,
Washington. 900m. Plants growing with fir and prostrate
Ceanothus. Plants medium height, glabrous. Flowers blue.
Wild. Seed.
477954. Triraphis schinzii Hack. (Poaceae).

From South Africa. Collected by Botanical Research Unit, Department of Agricultural Technical Services; Durban - 4001.
Received June 1983.


From United States. Donated by Cape May Plant Materials Center, Soil Conservation Service, USDA; Cape May Courthouse, New Jersey. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


477956. Echinochloa walteri (Pursh) Heller (Poaceae).

From United States. Donated by Cape May Plant Materials Center, Soil Conservation Service, USDA; Cape May Courthouse, New Jersey. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


477957. Bothriochloa barbinodis var. perforata (Trin. ex Fourn.) Gould (Poaceae).

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas.
Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


477958. Bothriochloa ischaemum (L.) Keng var. ischaemum (Poaceae) Yellow bluestem.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas.
477958-continued
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

Oklahoma State University. Collected by C. Taliferro.
Used as pasture and range forage. Perennial Herb.
Cultivar. Seed.

477959 TO 477960. Bouteloua gracilis (Willd. ex H.B.K.) Lag. ex
Griffiths (Poaceae) Blue grama.

From United States. Donated by Knox City Plant Materials Center,
Soil Conservation Service, USDA; Knox City, Texas.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

477959. T 8231. United States. Collected March 1964. Aspermont,
Texas. Collected by M. Brown on C. A. Greer Ranch.
Multiple use conservation plant for forage and
Cultivar. Seed.

Composite of seed from Waurika, Walters, Duncan and
Lawton Counties. Multiple use conservation plant for
forage and revegetation of alkaline soils. Perennial Herb.
Cultivated. Cultivar. Seed.

477961. Desmanthus velutinus Scheele (Fabaceae) Velvet bundleflower.

From United States. Donated by Knox City Plant Materials Center,
Soil Conservation Service, USDA; Knox City, Texas.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

Multiple use conservation plant for range, wildlife food

477962. Engelmannia pinnatifida Torr. & A. Gray (Asteraceae) Engelmann
daisy.

From United States. Donated by Knox City Plant Materials Center,
Soil Conservation Service, USDA; Knox City, Texas.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.
477962-continued


477963 TO 477964. Indigofera miniata var. leptosepala (Nutt.) Turner (Fabaceae) Western Indigo.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477965 TO 477966. Juglans microcarpa Berland (Juglandaceae) Little walnut.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477967. Menodora longiflora (Engelm.) Gray (Oleaceae) Showy menodora.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.

**477967-continued**


**477968.** *Pavonia lasiopetala* Scheele (Malvaceae) Wright's pavonia.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


**477969.** *Prunus minutiflora* Engl. (Rosaceae) Smallflower peachbush.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


**477970.** *Prunus texana* Dietr. (Rosaceae) Texas peachbush.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.

477970-continued


From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477972. Viguiera stenoloba Blake (Asteraceae).

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477975. Calamovilfa longifolia (Hook.) Scribn. (Poaceae) Prairie
477975-continued
sandreed.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477976. Cercocarpus montanus Raf. (Rosaceae).

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received March 1983.


477977. Chilopsis linearis (Cav.) Sweet (Bignoniaceae) Desertwillow.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.

477979. *Muhlenbergia montana* (Nutt.) Hitchc. (Poaceae).

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477980. *Penstemon strictus* Benth. (Scrophulariaceae).

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From United States. Donated by Manhattan Plant Materials Center, Soil Conservation Service, USDA; Manhattan, Kansas. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477982 to 477984. *Alopecurus pratensis* L. (Poaceae) Meadow foxtail.

From United States. Donated by National Plant Materials Center, Soil Conservation Service, USDA; Beltsville, Maryland. Received March 1983.


From United States. Donated by Pullman Plant Materials Center, Soil Conservation Service, USDA; Pullman, Washington. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.

T 12019. 'P-14762'. Selection from PI 110067 and PI 110351 from USSR. Perennial Herb. Cultivar. Seed.

477986. Malus sargentii Rehder (Rosaceae) Sargent crabapple.

From United States. Donated by Rose Lake Plant Materials Center, Soil Conservation Service, USDA; East Lansing, Michigan. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From France. Donated by Institut National de la Recherche Agronomique; Versailles. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to Index Seminum 1970-71. Received June 1982.


From France. Donated by Institut National de la Recherche Agronomique; Versailles. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer
477988-continued

to Index Seminum 1970-71.
Received June 1982.

974. France. SCS, Beltsville, MD. T 16750. Received as Bromus uruguayensis. Perennial Herb. Seed.

477989. *Dactylis marina* Borrill (Poaceae).

From France. Donated by Institut National de la Recherche Agronomique; Versailles. Received through National Plant Materials Center, SCS, Beltsville, MD. Code numbers refer to Index Seminum 1970-71.
Received June 1982.


From United States. Donated by American Plant Materials Center, Soil Conservation Service, USDA; Americus, Georgia. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


From United States. Donated by Big Flats Plant Materials Center, Soil Conservation Service, USDA; Big Flats, New York. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.


From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received March 1983.
477992-continued


From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477994. Andropogon gerardii Vitm. (Poaceae) Big bluestem.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477995. Calamovilfa longifolia (Hook.) Scribn. (Poaceae) Prairie sandreed.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


477996 TO 477997. Elymus angustus Trin. (Poaceae) Altai wildrye.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD.
477996 TO 477997-continued
Received March 1983.


477998. Lonicera maackii (Rupr.) Maxim. (Caprifoliaceae).

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD.

Received March 1983.


477999. Lonicera tataria L. (Caprifoliaceae).

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD.

Received March 1983.


478000. Malus baccata var. mandshurica (Maxim.) C. K. Schn. (Rosaceae).

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD.

Received March 1983.

478001 TO 478002. Panicum virgatum L. (Poaceae) Switchgrass.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


478003. Prunus fruticosa Pall. (Rosaceae) European dwarf cherry.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


478004. Pyrus ussuriensis Maxim. (Rosaceae) Harbin pear.

From United States. Donated by Bismarck Plant Materials Center, Soil Conservation Service, USDA; Bismarck, North Dakota. Received through National Plant Materials Center, SCS, Beltsville, MD. Received March 1983.


From United States. Donated by Bismarck Plant Materials Center,
478005—continued
Soil Conservation Service, USDA; Bismarck, North Dakota.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

Station, Morden, Manitoba. Collected by J. D. McDermand.
Potential multiple use conservation plant: wildlife
habitat, shelterbelts, ornamental, critical area
stabilization, surface mine reclamation. Perennial Woody.
Cultivated. Seed.

478006. Sorghastrum nutans (L.) Nash (Poaceae) Indian grass.

From United States. Donated by Bismarck Plant Materials Center,
Soil Conservation Service, USDA; Bismarck, North Dakota.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

T 6216. United States. Composite of NP-343, SD-44, SD-56.
Collected by J. D. McDermand. Selected for forage
production and surface mine reclamation. Perennial Herb.
Cultivated. Seed.

478007. Stipa viridula Trin. (Poaceae) Green needle grass.

From United States. Donated by Bismarck Plant Materials Center,
Soil Conservation Service, USDA; Bismarck, North Dakota.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

T 6224. United States. Collected August 1962. Fairburn,
Custer County, South Dakota. Collected by J. D. McDermand.
Purchased from Bober Seed Co. Potential use for surface
mine reclamation and forage. Forage yield high. Perennial
Herb. Cultivated. Seed.

478008. Syringa reticulata (Bl.) Kara (Oleaceae) Lilac.

From United States. Donated by Bismarck Plant Materials Center,
Soil Conservation Service, USDA; Bismarck, North Dakota.
Received through National Plant Materials Center, SCS,
Beltsville, MD.
Received March 1983.

T 6225. Canada. Collected May 1954. Research Station,
Morden, Manitoba. Collected by J. D. McDermand. Potential
multiple use conservation plant: shelterbelt, wildlife habitat, ornamental. Cold and drought tolerant. Received as Syringa amurensis var. japonica. Tree. Cultivated. Plants.


From United States. Donated by C. Bruns; North American Plant Breeders; Berthoud, Colorado. Received June 1983.


From Pakistan. Collected by Pakistan Agricultural Research Council, Foundation for Agricultural Plant Breeding, and IBPGR; Islamabad, Wageningen, Netherlands, & Rome, Italy. Received March 1983.


478011 TO 478284-continued


478011-478284—continued


Spikes awned. Cultivated. Seed.


478112. PNE 243-2. Pakistan. Collected June 04, 1981. Threshing place, irrigated, 78km from Ziarat to Luralai,
Baluchistan. 1580m. Large population. Spikes awned. Cultivated. Seed.


478125. PNE 250-5. Pakistan. Collected June 06, 1981. Irrigated


478164. PNE 267-5. Pakistan. Collected June 12, 1981. Dryland field, 13km from Daghari to Quetta, Baluchistan. 1650m.
478011 TO 478284—continued

Large population. Spikes awned. Cultivated. Seed.


478011 TO 478284-continued


478011 TO 478284—continued


478239. PNE 408-5. Pakistan. Collected June 02, 1981. Farm
478011 TO 478284—continued


Spikes awned. Cultivated. Seed.


478285 TO 478286. Triticum durum Desf. (Poaceae) Durum wheat. From Pakistan. Collected by Pakistan Agricultural Research Council, Foundation for Agricultural Plant Breeding, and IBPGR; Islamabad, Wageningen, Netherlands, & Rome, Italy. Received March 1983.


478287. Spartium junceum L. (Fabaceae) Spanish broom. From Ecuador. Collected by P. K. Soderholm; Subtropical Horticultural Research Station, USDA; Miami, Florida. Received June 1983.
From Madagascar. Collected by T. A. Perez; International Institute of Tropical Agriculture (IITA); Ibadan, Nigeria. Received through IBFGR, Rome. Received March 1982.

478288. AP80-44. Madagascar. Latitude: 18 deg 56 m S; Longitude: 048 deg 14 m E. Moramanga, 115km W., Tananarive to Tamatave. Cultivated. Seed.

478289. AP80-57. Madagascar. Latitude: 18 deg 56 m S; Longitude: 048 deg 14 m E. Moramanga, 115km W., Tananarive to Tamatave. Local name Katsaka Mena. Cultivated. Seed.


From United States. Donated by R. G. Cantrell; Department of Agronomy, North Dakota State University; Fargo, North Dakota. Received June 1983.

478305. Triticosecale (Poaceae) Triticale.

From United States. Donated by M. F. Kolding; Columbia Basin Agricultural Research Center, Oregon State University; Pendleton, Oregon.
Received May 1983.


From United States. Donated by M. Wilson; Department of Agronomy and Soils, Washington State University; Pullman, Washington.
Received May 1983.


From United States. Collected by I. M. Cull; Horticultural and
478307-continued
Special Crops Laboratory, Northern Regional Research Center, USDA; Peoria, Illinois.
Received June 1983.


From United States. Collected by I. M. Cull; Horticultural and Special Crops Laboratory, Northern Regional Research Center, USDA; Peoria, Illinois.
Received June 1983.


From United States. Collected by I. M. Cull; Horticultural and Special Crops Laboratory, Northern Regional Research Center, USDA; Peoria, Illinois.
Received June 1983.


From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China.
Received May 1983.


478311 TO 478319. Apium graveolens var. dulce (Mill.) Pers. (Apiaceae) Celery.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis,
### 478311 TO 478319—continued

California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
</table>

### 478320 TO 478322

**Brassica campestris L. (Brassicaceae) Bird rape.**

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.

<table>
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<tr>
<th>Code</th>
<th>Description</th>
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232
478320 TO 478322-continued
Cultivated. Seed.


478323 TO 478324. Brassica chinensis L. (Brassicaceae).

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478325 TO 478338. Brassica juncea (L.) Czern. & Coss. (Brassicaceae) Indian mustard.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478327. 0 62. China, Peoples Repub of. Collected August 08, 1980. Km marker 196-205, along road between Urumchi and Stone River, Sinkiang. 600m. Variable seed size, pod set, seeds per pod and pod density. Escaped cultivated types showing signs of reversion to wild. Seeds brown and/or yellow.
478325 TO 478338-continued
Cultivated. Seed.

478328. 0 63. China, Peoples Repub of. Collected August 08, 1980. Km marker 196-205, along road between Urumchi and Stone River, Sinkiang. 600m. Variable seed size, pod set, seeds per pod and pod density. Escaped cultivated types showing signs of reversion to wild. Seeds brown and/or yellow. Cultivated. Seed.

478329. 0 64. China, Peoples Repub of. Collected August 08, 1980. Km marker 196-205, along road between Urumchi and Stone River, Sinkiang. Variable seed size, pod set, seeds per pod and pod density. Escaped cultivated types showing signs of reversion to wild. Seeds brown and/or yellow. Cultivated. Seed.


478325 TO 478338-continued
Southeast, 90km of Urumchi, Sinkiang. 1050m. Plants 25-

South, 15km of Urumchi, Sinkiang. 950m. Volunteer in
wheat field. Cultivated. Seed.

South, 40km of Urumchi, Sinkiang. 1200m. Volunteer in
irrigated ditch. Cultivated. Seed.

478339 TO 478340. Brassica napus L. (Brassicaceae) Rape.
From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.

Campus, Lanzhou Municipal University, Lanzhou, Gansu.
Already harvested-exact origin unknown.

Urumchi Hotel Compound, Sinkiang. Already harvested-exact
origin unknown. Pods long, robust with good yield

478341. Brassica oleracea var. botrytis L. (Brassicaceae) Cauliflower.
From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.

0 121. China, Peoples Repub of. Shanghai. Lab. of
Vegetables, Institute of Horticulture. Collected August

478342 TO 478347. Brassica oleracea var. capitata L. (Brassicaceae)
Cabbage.
From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.

478342 TO 478347-continued

Vegetable commune, 5km W of Xirinhout, Inner Mongolia. Local type. Cultivated. Seed.


478348 TO 478349. Brassica pekinensis (Lour.) Rupr. (Brassicaceae) Chinese cabbage.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478350. Brassica rapa L. (Brassicaceae) Turnip.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant
478350-continued

Germplasm Team to Peoples Republic of China.
Received May 1983.

Vegetable commune, 5km W of Xirinhot, Inner Mongolia.
Local type. Cultivated. Seed.

478351 TO 478361. Capsicum annuum L. (Solanaceae).
From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.

Vegetable commune, 5km W of Xirinhot, Inner Mongolia.
Local type. Hotter than standard U.S. bell types.
Cultivated. Seed.

Institute of Vegetables. Collected August 01, 1980.
Shanghai Municipality breeding program. Plants virus-free.
Yield uniform, good. Fruit shape good. Flesh thick.
Cultivated. Seed.

Institute of Vegetables. Collected August 01, 1980. Local
type. Cultivated. Seed.

Wild Geese Peoples Commune, east of Lanzhou, Gansu. Local
type. Cultivated. Seed.

Collected August 10, 1980. Red Flag Commune, Turfan,
Sinkiang. Plants virus-free. Yield poor. Fruits small,
green, maturing to red. Cultivated. Seed.

Red Flag Commune, Turfan, Sinkiang. Local presumably
sweet bell type. Cultivated. Seed.

Provincial Academy of Agricultural Sciences. Collected
August 13, 1980. Local sweet/hot green bell type.
Cultivated. Seed.

Provincial Academy of Agricultural Sciences. Collected
August 13, 1980. Local, long, hot red type for drying.
Cultivated. Seed.

237


From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478363. Colocasia esculenta (L.) Schott (Araceae) Taro.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478364 TO 478366. Cucumis sativus L. (Cucurbitaceae) Cucumber.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.

478364 TO 478366—continued
Cultivated. Seed.


From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478368 TO 478369. Daucus carota L. subsp. carota (Apiaceae) Wild carrot.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.
478370-continued


478371 TO 478377. Lycopersicon esculentum Mill. (Solanaceae) Tomato.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478378 TO 478379. Petroselinum crispum (Mill.) Nym. ex A. W. Hill

240
478378 TO 478379-continued
(Apiaceae) Parsley.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478380 TO 478382. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478383 TO 478384. Pisum sativum L. (Fabaceae) Garden pea.

From China, Peoples Repub of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478385 TO 478387. Raphanus sativus L. (Brassicaceae) Radish.

From China, Peoples Republic of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478388 TO 478392. Solanum melongena L. (Solanaceae) Eggplant.

From China, Peoples Republic of. Collected by T.J. Orton; Department of Vegetable Crops, University of California; Davis, California, USA. Received through The 1980 US Plant Germplasm Team to Peoples Republic of China. Received May 1983.


478388 TO 478392—continued
large-20cm or more in diameter. Locally developed type.
Cultivated. Seed.

478393. Spinacia oleracea L. (Chenopodiaceae) Spinach.

From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.


478394 TO 478395. Vigna unguiculata subsp. sesquipedalis (L.) Verd. (Fabaceae) Yard-long bean.

From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.


478396 TO 478397. Vigna unguiculata (L.) Walp. subsp. unguiculata (Fabaceae) Southern pea.

From China, Peoples Repub of. Collected by T.J. Orton; Department
of Vegetable Crops, University of California; Davis,
California, USA. Received through The 1980 US Plant
Germplasm Team to Peoples Republic of China.
Received May 1983.


478398. Ornithopus sativus Brot. (Fabaceae) Serradella.

From German Democratic Repub. Donated by Reckin, J.; Experimental Garden; Gorkistrasse 20.
Received June 1983.

He/Re. German Democratic Repub. Useful as forage and as green manure crop for improving infertile sandy soils. Cultivar. Seed.

478399. Zea mays subsp. mexicana (Schrad.) Iltis (Poaceae) Teosinte.

From Mexico. Donated by J. F. Doebley; Department of Statistics, North Carolina State University; Raleigh, North Carolina, USA.
Received May 1983.

625. Latitude: 24 deg 04 m N; Longitude: 104 deg 31 m W. Collected October 01, 1982. Three kilometers NE of Alcalde, a pueblito 20km ENE (by air) of Durango. 2050m. In thickets along small stream and irrigation ditch. Rarely on edges of sorghum, pepper, and maize fields. Growing with Salix, Ipomoea, Bidens, Tithonia, Solanum and Cosmos. Plants 1-2m tall, moderately robust. Wild. Seed.

478400 TO 478401. Vigna radiata (L.) Wilczek (Fabaceae) Mungbean.

From China, Republic of. Donated by Asian Vegetable Research and Development Center; Shanhua, Tainan 741, Taiwan.
Received June 1983.


478402. Acacia sp. (Fataceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.

Plants 3m to 4.5m tall. Goats eat pods. Local name Allgarobo. Tree. Wild. Seed.

**478403. Amaranthus sp. (Amaranthaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.  
Received September 1981.


**478404. Aristida sp. (Poaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.  
Received September 1981.


**478405. Bouteloua sp. (Poaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.  
Received September 1981.


**478406 TO 478407. Chenopodium pallidicaule Aellen (Chenopodiaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.  
Received September 1981.

478406. R-62. 'Laste rosada'. Bolivia. Patacamaya, La Paz
478406-continued


478408-478418. Chenopodium quinoa Willd. (Chenopodiaceae) Quinoa.

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478419. Chloris sp. (Poaceae).

From Bolivia. Collected by H. Fumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478420. Chloris virgata Sw. (Poaceae) Feather fingergrass.

From Bolivia. Collected by H. Fumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


From Bolivia. Collected by H. Fumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.

478422. *Crotalaria* sp. (Fabaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478423. *Eragrostis* sp. (Poaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478424 to 478425. *Festuca* sp. (Poaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478426. *Hordeum* sp. (Poaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478428 TO 478433. Hordeum vulgare L. (Poaceae) Barley.

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478434. Linum usitatissimum L. (Linaceae) Flax.

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.

R-111. Bolivia. Collected April 29, 1981. Field, 10km S
of Aiquila. 2400 m. Used for medicinal purposes by Indians. Cultivated. Seed.

**Lupinus mutabilis Sweet (Fabaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


**Lupinus sp. (Fabaceae).**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


**Medicago lupulina L. (Fabaceae) Black medic.**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.

**R-60.** Bolivia. Patacamaya, La Paz Province. Patacamaya Experiment Station. Collected April 24, 1981. 3800 m. Wild. Seed.

**Medicago polymorpha L. (Fabaceae) California burclover.**

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field
478439 TO 478440-continued
Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478441 TO 478465. Medicago sativa L. (Fabaceae) Alfalfa.

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478461 TO 478465-continued


478466 TO 478467. Medicago sp. (Fabaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.

Received September 1981.


From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops

478469. Muhlenbergia sp. (Poaceae).

From Bolivia. Collected by H.D. Bumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478470 TO 478471. Paspalum sp. (Poaceae).

From Bolivia. Collected by H.D. Bumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478472 TO 478474. Pennisetum sp. (Poaceae).

From Bolivia. Collected by H.D. Bumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478475. Pisum sativum L. (Fabaceae) Garden pea.

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478476. Poa andina Trin. (Poaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478477. Pyracantha sp. (Rosaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.

478479 to 478480. Schinus sp. (Anacardiaceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478481 to 478482. Setaria sp. (Poaceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478483. Solanum juzepczukii Buk. (Solanaceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478484. Solanum tuberosum subsp. andigena (Juz. & Buk.) Hawkes (Solanaceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.

256
478484—continued
Received September 1981.


478485. Solanum sp. (Solanaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478486. Sporobolus poiretti (Roem. & Schult.) Hitchc. (Poaceae) Smutgrass.

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478487 TO 478492. Stipa sp. (Poaceae).

From Bolivia. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478493. Trifolium sp. (Fabaceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.

R-61. Bolivia. Patacamaya, La Paz Province. Patacamaya Experiment Station. 3800m. Plants very mature, few seeds. Received as T. album. Wild. Seed.


From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478494 TO 478500-continued


478501 TO 478504. Undetermined (Asteraceae).

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478505 TO 478506. Vicia faba L. (Fabaceae) Broadbean.

From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478507. Vicia sp. (Fabaceae).
From Bolivia. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478508. Lolium multiflorum Lam. (Poaceae) Italian ryegrass.
From Ecuador. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478509. Lupinus sp. (Fabaceae).
From Ecuador. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478510 TO 478511. Medicago sativa L. (Fabaceae) Alfalfa.
From Ecuador. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


Plants tall, erect, large leaflets and long internodes. Cultivar. Seed.

**478512 TO 478513. Bromus unioloides H.B.K. (Poaceae) Rescuegrass.**

*From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.*


**478514. Crotalaria sp. (Fabaceae).**

*From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.*


**478515. Eragrostis curvula (Schrad.) Nees (Poaceae) Weeping lovegrass.**

*From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.*


**478516. Eragrostis sp. (Poaceae).**

*From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.*
478516-continued

478517 TO 478518. Festuca dolichophylla Presl (Poaceae).
From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478519. Festuca weberbaueri Pilger (Poaceae).
From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478520. Helianthus sp. (Asteraceae).
From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478521 TO 478526. Lupinus mutabilis Sweet (Fabaceae).
From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.

478521 TO 478526—continued


478527 TO 478529. Lupinus sp. (Fabaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478530 TO 478531. Medicago polymorpha L. (Fabaceae) California burclover.

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El
478530 TO 478531—continued
Centro, California.
Received September 1981.


478532 TO 478573. Medicago sativa L. (Fabaceae) Alfalfa.

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California.
Received September 1981.


478532 TO 478573-continued
Cultivated. Seed.


478532 TO 478573-continued

Local name Tibillo. Cultivated. Seed.


478574. Muhlenbergia fastigiata (Presl) Henr. (Poaceae).

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478576 TO 478577. Oryza sativa L. (Poaceae) Rice.

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.

478576 TO 478577-continued


478578. Pennisetum sp. (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478579. Piptochaetium sp. (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478580. Poa candamoana Pilger (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478581. Poa gilgiana Pilger (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.

478581-continued
plot. Cultivated. Seed.

478582. Poa horridula Filger (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops
Research Laboratory, USDA, and Imperial Valley Field
Station, University of California; Logan, Utah and El
Centro, California.
Received September 1981.

R-172. Peru. Puno. Univeridade Nacional Technica del
Altiplano. Collected May 06, 1981. 3835m. Field trial
plot. Cultivated. Seed.

478583. Setaria sp. (Poaceae).

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops
Research Laboratory, USDA, and Imperial Valley Field
Station, University of California; Logan, Utah and El
Centro, California.
Received September 1981.

R-202. Peru. Collected May 09, 1981. Farm, Sama, 35km W
of Tacna. 620m. Best grown with alfalfa. Used for pasture.
Cultivated. Seed.

478584. Sorghum bicolor (L.) Moench (Poaceae) Sorghum.

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops
Research Laboratory, USDA, and Imperial Valley Field
Station, University of California; Logan, Utah and El
Centro, California.
Received September 1981.

R-263. Azucarado. Peru. La Molina, Lima. Univeridad
Nacional Agraria. Donated by R. Zambrano. Selection from
'Sugar drip'. High forage production. Sugar content 18%.
Cultivar. Seed.

478585 TO 478586. Spartium junceum L. (Fabaceae) Spanish broom.

From Peru. Collected by H.D. Rumbaugh & W.F. Lehman; Crops
Research Laboratory, USDA, and Imperial Valley Field
Station, University of California; Logan, Utah and El
Centro, California.
Received September 1981.

Ornamental shrub. Flowers large, attractive, yellow,
478585 TO 478586-continued
pleasant scent. Local name Retama. Cultivated. Seed.


478587. Sporobolus sp. (Poaceae).

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478588. Stipa brachyphylla Hitchc. (Poaceae).

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478589. Trifolium amabile H.B.K. (Fabaceae).

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.


478590. Undetermined (Poaceae).

From Peru. Collected by M.D. Rumbaugh & W.F. Lehman; Crops Research Laboratory, USDA, and Imperial Valley Field Station, University of California; Logan, Utah and El Centro, California. Received September 1981.

R-205. Peru. Collected May 10, 1981. Northeast, 120km of
478590-continued

Hoguegua. 4380m. Unpalatable to llama. Eaten by alpaca. Wild. Seed.

478591. Bauhinia esculenta Burchell (Fabaceae) Morama bean.

From Botswana. Collected by Murray, R.; Foundation for Interdisciplinary Research; Bryan, Texas, USA. Received June 1983.


478592. Arachis hypogaea L. (Fabaceae) Peanut.

From Canada. Donated by Peterson, J. F.; Department of Plant Science, Macdonald College of McGill University; Ste. Anne de Bellevue, Quebec. Received June 1983.


478593 TO 478596. Agrostis sp. (Poaceae).

From United Kingdom. Donated by Welsh Plant Breeding Station, University College of Wales; Aberystwyth, Wales. Code numbers refer to 1981 Seed Exchange List of the Welsh Plant Breeding Station. Received June 1983.


478597 to 478602. Deschampsia cespitosa (L.) Beauv. (Poaceae) Tufted hairgrass.

From United Kingdom. Donated by Welsh Plant Breeding Station, University College of Wales; Aberystwyth, Wales. Code numbers refer to 1981 Seed Exchange List of the Welsh Plant Breeding Station. Received June 1983.


From United Kingdom. Donated by Welsh Plant Breeding Station, University College of Wales; Aberystwyth, Wales. Code numbers refer to 1981 Seed Exchange List of the Welsh Plant Breeding Station. Received June 1983.


478604. Cynosurus echinatus L. (Poaceae).

478604-continued


478605. Lycopersicon pimpinellifolium (L.) Mill. (Solanaceae) Currant tomato.

From United States. Collected by Goldman, C. R.; Division of Environmental Studies, University of California; Davis, California. Received 1982.


478606. Pithecellobium arboreum (L.) Urban (Fabaceae).

From United States. Donated by Soderholm, P. K.; Subtropical Horticultural Research Station, USDA; Miami, Florida. Received June 1983.

M 29694. Haiti. Rocke-Blanche. 120m. Collected by Pierre Roumain. Annual rainfall 600mm. Seed.


From United States. Donated by Agri-Business Consultants, Division of Plantation Equipment Company; Clearwater, Florida. Received July 1983.


478608. Corchorus sp. (Tiliaceae).

From United States. Donated by Agri-Business Consultants, Division of Plantation Equipment Company; Clearwater, Florida. Received July 1983.


478609 TO 478610. Hibiscus cannabinus L. (Malvaceae) Kenaf.

From United States. Donated by Agri-Business Consultants, Division of Plantation Equipment Company; Clearwater, Florida. Received July 1983.


478611 TO 478613. Lens culinaris Medik. (Fabaceae) Lentil.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.


478614 TO 478615. Phaseolus vulgaris L. (Fabaceae) Garden bean.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.


478616. Trigonella foenum-graecum L. (Fabaceae) Fenugreek.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.


478617. Vicia faba L. (Fabaceae) Broadbean.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.

478618 TO 478620. Vigna radiata (L.) Wilczek (Fabaceae) Mungbean.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.

478618. 48-069-10075. 'Gohar'. India. Cultivar. Seed.
478619. 48-071-10827. 'Mehr'. Iran. Cultivar. Seed.

478621 TO 478622. Vigna unguiculata (L.) Walp. subsp. unguiculata (Fabaceae) Southern pea.

From Iran. Donated by Regional Pulse Improvement Project, Ministry of Agriculture; Tehran. Received through A.S. Whitney, Dept. of Agronomy & Soil Science, Univ. of Hawaii, Kula. Received 1978.


478623 TO 478637. Lathyrus odoratus L. (Fabaceae) Sweet pea.

From New Zealand. Donated by Hammett, K.R.W.; Division of Horticulture and Processing, Department of Scientific and Industrial Research; Auckland, New Zealand. Received July 1983.


478638. Teramnus labialis (L. f.) Spreng. (Fabaceae) Blue wiss.
From Philippines. Collected by Gruezo, W. S.; Museum of Natural History, University of the Philippines at Los Banos; College, Laguna 3720, Philippines. Received July 1983.

478639 TO 478663. Parthenium argentatum A. Gray (Asteraceae).
From United States. Donated by Hammond, B. L.; U. S. Agricultural Research Station, United States Department of Agriculture; Salinas, California. Received through National Seed Storage Laboratory, Ft. Collins, Colorado. Received May 1983.
478639 TO 478663-continued


478664 TO 478665. Parthenium argentatum A. Gray (Asteraceae).

From United States. Donated by Estilai, A.; Guayule Development Project, Univ. of California, California Dept. of Food & Agriculture, and USDA; Shafter, California. Received through National Seed Storage Laboratory, Fort Collins, Colorado. Received May 1983.


478666 TO 478667. *Parthenium* hybrid (*Asteraceae*).

From United States. Donated by Estilai, A.; Guayule Development Project, Univ. of California, California Dept. of Food & Agriculture, and USDA; Shafter, California. Received through National Seed Storage Laboratory, Fort Collins, Colorado. 
Received May 1983.


478668 TO 478679. *Allium cepa* L. (*Amaryllidaceae*) Onion.

From New Zealand. Donated by Yates Research; Courtenay, RD 1, Christchurch. 
Received July 1983.


478668 TO 478679-continued


478680 TO 478748. Triticum dicoccoides (Koern. ex Asch. & Graebn.) Aaronsohn (Poaceae) Wild emmer.

From Israel. Donated by Gerechter-Amitai, Z.; Institute of Field & Garden Crops, The Volcani Center; Bet Dagan 50-250. Received through Binational Agric. Research Development Projects (BARD) I-63-79 and I-365-81. Received August 1983.


281
478715. G-744M. Israel. Resistant to leaf rust and powdery
478743. G-7-2-4H. Israel. Resistant to powdery mildew and leaf rust. Wild. Seed.

478749 TO 478755. Gossypium australe F. Muell. (Malvaceae).

From Australia. Collected by Stewart, J.M.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA.
Received July 1983.


478751. JMS 163. Australia. Collected May 18, 1983. Roadside, 44km east of Kununurra on road to Katherine, Northern Territory. Plants 2m tall. Flowers mauve, with dark red petal spots and large nectaries. Shrub - Upright. Wild. Seed.

478752. JMS 164. Australia. Collected May 19, 1983. Roadside, 50km E of Timber Creek, on road to Katherine, Northern Territory. Plants 2m tall. Flowers mauve, with dark red petal spots and large nectaries. Shrub - Upright. Wild.
478749 TO 478755—continued
Seed.


478755. JMS 197. Australia. Ord River Station, near Kununurra, Western Australia. Donated by M. Fischer. Seed from original collection. Seed.


From Australia. Collected by Stewart, J.M.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA. Received July 1983.


From Australia. Collected by Stewart, J.M.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA. Received July 1983.


478758 TO 478759. *Gossypium hirsutum* L. (Malvaceae) Upland cotton.

From Australia. Collected by Stewart, J.M.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA. Received July 1983.

478758. JMS 174. Australia. Collected May 22, 1983. Daly River,
near Bamboo Creek, vicinity of Wooliana, Northern Territory. Plant 2.5m tall, widely branching. Flowers cream colored. Feral. Shrub - Upright. Wild. Seed.


**478760 TO 478761.** Gossypium pilosum Fryxell (Malvaceae).

From Australia. Collected by Stewart, J.A.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA.

Received July 1983.


**478762 TO 478763.** Gossypium populifolium (Benth.) F. Muell. (Malvaceae).

From Australia. Collected by Stewart, J.A.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA.

Received July 1983.


478764 TO 478770. Gossypium sp. (Malvaceae) Cotton.

From Australia. Collected by Stewart, J.H.; USDA, Department of Plant & Soil Science, University of Tennessee; Knoxville, Tennessee, USA. Received July 1983.


From United States. Donated by Agricultural Experiment Station, North Dakota State University, and U.S. Department of Agriculture.
478771-continued
Agriculture; Fargo, North Dakota.
Received July 1983.


From United States. Donated by North Central Regional Plant Introduction Station, Iowa State University; Ames, Iowa.
Received May 1983.


478773. Melilotus alba var. annua H. S. Coe (Fabaceae).

From United States. Donated by North Central Regional Plant Introduction Station, Iowa State University; Ames, Iowa.
Received May 1983.


478774 TO 478776. Arachis hypogaea L. (Fabaceae) Peanut.

From China, Peoples Repub of. Donated by Peanut Research Institute; Laixi, Shandong Province. Received through Inst. of Crop Germplasm Resources, Chinese Academy of Ag. Sciences, Beijing. Received August 1983.


From United States. Donated by Lehman, W. F.; Imperial Valley Field Station, University of California; El Centro, California. Received through N. W. Scott, Newman Seed Company, El Centro, California. Received July 1981.


478778 TO 478779. Medicago sativa L. (Fabaceae) Alfalfa.

From United States. Donated by Lehman, W. F.; Imperial Valley Field Station, University of California; El Centro, California. Received through G. Worker, University of California, El Centro, California. Received July 1981.


478780 TO 478829. Arachis hypogaea L. (Fabaceae) Peanut.

From India. Donated by International Crops Research Institute for the Semi-Arid Tropics (ICRISAT); Andhra Pradesh 502324. Received August 1983.


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290


478830. Atriplex nuttallii S. Wats. (Chenopodiaceae).

From United States. Donated by Bridger Plant Materials Center, Soil Conservation Service, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


From United States. Donated by Bridger Plant Materials Center, Soil Conservation Service, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


From United States. Donated by Bridger Plant Materials Center, Soil Conservation Service, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, MD. Received May 1983.

T 16187. United States. Well adapted to sandy soil stabilization where rainfall exceeds 17.8cm per year. Moderately salt tolerant. Perennial Herb. Wild. Seed.

478833. Oryzopsis hymenoides (Roem. & Schult.) Ricker (Poaceae).

From United States. Donated by Bridger Plant Materials Center, Soil Conservation Service, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


478834. Petalostemon candidum (Willd.) Michx. (Fabaceae).

From United States. Donated by Bridger Plant Materials Center, Soil Conservation Service, USDA; Bridger, Montana. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


478835. Sporobolus asper var. hookeri (Trin.) Vasey (Poaceae) Meadow dropseed.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.

478836. Sporobolus texanus Vasey (Poaceae) Texas dropseed.

From United States. Donated by Knox City Plant Materials Center, Soil Conservation Service, USDA; Knox City, Texas. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


478837 to 478838. Atriplex canescens (Pursh) Nutt. (Chenopodiaceae) Fourwing saltbush.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


478840. Ceratoides lanata (Pursh) Howell (Chenopodiaceae) Winterfat.

From United States. Donated by Los Lunas Plant Materials Center, Soil Conservation Service, USDA; Los Lunas, New Mexico. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.
478840-continued


478841. Atriplex canescens (Pursh) Nutt. (Chenopodiaceae) Fourwing saltbush.

From United States. Donated by Upper Colorado Environmental Plant Center, Soil Conservation Service, USDA; Meeker, Colorado. Received through National Plant Materials Center, SCS, Beltsville, Md. Received May 1983.


From United States. Donated by Merkle, O.G.; Plant Science Research Laboratory, USDA-ARS; Stillwater, Oklahoma. Received September 1983.


478844. Medicago hybrid (Fabaceae).

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received August 1983.


478845 to 478848. Leucaena leucocephala (Lam.) de Wit (Fabaceae) Leadtree.

From United States. Collected by Soffes, Ann; Department of
478845 TO 478848-continued
Agronomy, University of Florida; Gainesville, Florida.  
Received through A.J. Oakes, Germplasm Resources  
Laboratory, USDA, Beltsville, MD.  
Received August 1983.

478845. United States. Collected 1983. Selection from campus  

478846. United States. Collected 1983. Selection from campus  

478847. United States. Collected 1983. Selection from campus  

478848. United States. Collected 1983. Selection from campus  

478849 TO 478857. Arachis hypogaea L. (Fabaceae) Peanut.

From China, Republic of. Donated by Crops Improvement Department,  
Tainan District Agricultural Improvement Station; Tainan,  
Taiwan 700.  
Received August 1983.

478849. Peru. NC AC 17090. ICRISAT, India. ICG 1675. Collected  
Rust resistant. Landrace. Seed.

478850. Uganda. ICRISAT, India. ICG 2716 (EC76446). Valencia  
(fastigiata type). Testa purple. Probable introduction  
from South America. Rust resistant. Landrace. Seed.

478851. 73(2)-6-26. China, Republic of. Tainan(s) 9/ PI 314817.  


478853. 74(1)-1-52. China, Republic of. Tainan(s) 9/ PI 314817.  

478854. 75(2)-3-21. China, Republic of. Tainan(s) 9/ PI 314817.  

478855. 78(2)-4-31. China, Republic of. (Tainan(s) 9/PI 314817)/  
Tainan(s) 9 BC2. Valencia type. Rust resistant. Breeding  
Material. Seed.

478856. 78(2)-4-33. China, Republic of. (Tainan(s) 9/PI 314817)/  
Tainan(s) 9 BC2. Valencia type. Rust resistant. Breeding  
Material. Seed.
478849 TO 478857—continued


478858. Daucus aureus Desf. (Apiaceae).

From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.


478859 TO 478881. Daucus carota L. (Apiaceae).

From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.


478867. German Democratic Repub. Greifswald. Bot. Inst. de Ernst-


From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.


478883. Daucus carota subsp. gadecaei (Rouy & Camus) Heywood (Apiaceae).

From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.


From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.


From United States. Donated by McCollum, G.D.; Vegetable Laboratory, Horticultural Sciences Institute, USDA; Beltsville, Maryland.
Received July 1983.

478886. Nicotiana rustica L. (Solanaceae) Aztec tobacco.

From India. Donated by National Bureau of Plant Genetic Resources, IARI; New Delhi-PIN:110012. Received August 1983.


478887 TO 478891. Arachis hypogaea L. (Fabaceae) Peanut.

From Senegal. Donated by Gautreau, J.; Institut Senegalais de Recherches Agricoles (ISRA), Centre Nacional de Recherches Agronomiques; Bambe.
478892 to 478897—continued


From Mexico. Donated by Centro Internacional de Mejoramiento de Maiz and Trigo; Mexico 6, D.F. Received through Pioneer Hi-Bred International, Inc., Dept. of Corn Breeding, Homestead, FL. Received August 1983.


478898 TO 479199—continued

478898 to 479199—continued

478898 TO 479199-continued

478898 TO 479199—continued

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479125. TRIN 10. Trinidad and Tobago. Cultivated. Seed.
479126. TRIN 12. Trinidad and Tobago. Cultivated. Seed.
479127. URU 40A. Uruguay. Cultivated. Seed.
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479149. URU 293A. Uruguay. Cultivated. Seed.
479151. URU 300A. Uruguay. Cultivated. Seed.
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479167. URU 358A. Uruguay. Cultivated. Seed.
479174. URU 376A. Uruguay. Cultivated. Seed.
478898 TO 479199-continued

479198. URU 1157A. Uruguay. Cultivated. Seed.
479199. URU 1195A. Uruguay. Cultivated. Seed.

479200 TO 479210. Lycopersicon esculentum Mill. (Solanaceae) Tomato.

From Colombia. Donated by Lobo, M.; Plant Breeding Program, Instituto Colombiano Agropecuario; 51764 Medellin. Received September 1983.


479211. *Lycopersicon esculentum* var. *cerasiforme* (Dunal) A. Gray (Solanaceae) Cherry tomato.

From Colombia. Donated by Lobo, H.; Plant Breeding Program, Instituto Colombiano Agropecuario; 51764 Medellin. Received September 1983.


479212. *Sinapidendron bourgeaui* Webb ex Christ (Brassicaceae).

From Norway. Donated by Borgen, L.; Botanical Garden, University of Oslo; Oslo, 5. Received through G.D. McCollum, Vegetable Laboratory, USDA-ARS, Beltsville, MD. Received August 1983.


From United States. Collected by Knight, R.J.; Subtropical Horticulture Research Station, USDA-ARS; Miami, Florida. Received through Rare Fruit Council International, Inc., Miami, Florida. Received August 1983.


From United States. Collected by Knight, R.J.; Subtropical Horticulture Research Station, USDA-ARS; Miami, Florida. Received through Rare Fruit Council International, Inc., Miami, Florida.
479214-continued
Received August 1983.


479215. Dimocarpus longan Lour. (Sapindaceae) Longan.

From United States. Collected by Knight, R.J.; Subtropical Horticulture Research Station, USDA-ARS; Miami, Florida. Received through Rare Fruit Council International, Inc., Miami, Florida. Received August 1983.

M-22638. 'E-Dol'. Thailand. Nursery near Chiang Mai. Propagated from air layer (marcot). Received as Euphoria longan. Cultivar. Plants.

479216. Litchi chinensis Sonn. (Sapindaceae) Litchi.

From United States. Collected by Knight, R.J.; Subtropical Horticulture Research Station, USDA-ARS; Miami, Florida. Received through Rare Fruit Council International, Inc., Miami, Florida. Received August 1983.


479217 TO 479236. Mangifera indica L. (Anacardiaceae) Mango.

From United States. Collected by Knight, R.J.; Subtropical Horticulture Research Station, USDA-ARS; Miami, Florida. Received through Rare Fruit Council International, Inc., Miami, Florida. Received August 1983.


479221. M-22419. 'Hong Sa'. Thailand. Chiang Mai. Chiang Dao


479237. *Zea mays var. tunicata* Larr. ex St.-Hil. (Poaceae) Pod corn.

From United States. Donated by Shuster, A.H.; Athens, Ohio.
Received through C. Fowler, Annapolis, Maryland.
Received September 1983.

United States. Inside wall of farm house, Belfontaine, Ohio. Original ear believed to be about 100 years old. Cultivated. Seed.


From China, Peoples Repub of. Donated by Dong, Yushen; Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences; Beijing.
Received September 1983.


479245. *Arachis hypogaea* L. (Fabaceae) Peanut.

From Zambia. Donated by Sandhu, B.S.; Msekera Regional Research Station; Chipata.
Received September 1983.


479246-continued
Center: US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.


Received February 1983.


Received February 1983.


479248 TO 479252-continued
deciduous woodland. Seeds collected from several plants. Wild. Seed.


479253. Acanthopanax sciadophylloides Fr. & Sav. (Araliaceae).


479254-continued

Collected October 15, 1982. Mt Idzura, near shrine of
Idzura-Kam-non-Son, Tochigi-shi, Tochigi-ken, Honshu. 150m.
Honshu. Tree deciduous, small, 9m tall. Branches wide
Growing in woodland above stream on a ledge under
Cryptomeria japonica. Wild. Seed.

479255 TO 479259. Acer caudatum subsp. ukurunduense (Trautv. & C.A.
Mey.) E. Murr. (Aceraceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 15, 1982. Hokkaido Univ., Uryu Forest, Moshiri,
Horokari-cho, Uryu-gun, Hokkaido. Snow cover 1.5-2.5m
growing along stream with Sasa, to 10 ft. Seed from 2
plants. Received as Acer ukurunduense. Wild. Seed.

September 19, 1982. S of hwy 344, E of pass toward Lake
Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44
deg. 03' N, Long. 145 deg. 10' E. Snow cover 1.5m per
annum. Minimum temperature -20C. Shrub, deciduous, 2.5m
tall. Branches open. Bark smooth, light gray. Leaves dark
green above, gray green beneath. Growing in open woodland
along stream, fairly common. Seed collected from many
plants. Received as Acer ukurunduense. Wild. Seed.

Collected September 22, 1982. Akkeshi Prefectural Forest,
Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 650m.
Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover
40cm, deepest 1.3m. Minimum temperature -20C. Tree
deciduous, small, 8m tall, upright habit. Bark smooth,
light gray. Leaves dark green above, gray green beneath,
petioles often dark reddish, as well as twigs.
Inflorescence nearly erect, somewhat arching in fruit.
Growing in mixed woodland in field 47. Seed collected
from one tree. Received as Acer ukurunduense. Wild. Seed.

Collected September 24, 1982. W side of Lake Kusharo,
Urankoshi, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat.
43 deg. 34' N, Long. 144 deg. 19' E. Snow cover 60cm per
annum. Minimum temperature -25C. Tree deciduous, small,


dark green above, lighter beneath. Petioles often somewhat reddish. Seed collected from 3 trees. Cultivated. Seed.

Acer mono Maxim. (Aceraceae) Mono maple.


Received February 1983.

Acer aono var. mayriii (Schwerin) Koidz. ex Nemoto (Aceraceae).


Received February 1983.
479267 TO 479269-continued


Received February 1983.


along a service road. Seed collected from one tree. Wild. Seed.


479277. JH-336-82. Japan. US National Arboretum. 51356. Collected October 09, 1982. Along Oirase, Yakeyama, Towada-machi, Aomori-ken, Honshu. 320m. Snow 2-3m per annum, 58 days covered by 50cm or deeper. Minimum temperature -20 C. Tree, deciduous, 6m tall, spreading

**479278. Acer sieboldianum** Miq. (Aceraceae).


Received February 1983.

**479279 TO 479281. Acer tschonoskii** Maxim. (Aceraceae).


Received February 1983.
Aconitum yezoense Nakai (Ranunculaceae).

Received February 1983.


Actaea erythrocarpa Fisch. (Ranunculaceae).

Received February 1983.


Actinidia arguta (Sieb. & Zucc.) Planch. ex Miq. (Actinidiaceae).

Received February 1983.

for 20 days. Minimum temperature -29°C. Plant deciduous, woody climber, ascending to the tops of the tallest trees, 6-9m. Bark gray, peeling, becoming very shaggy on older stems. Leaves lustrous dark green above, lighter beneath. Fruit oblong 2.5cm long x 1.9cm wide, green to yellowish, sweet to taste. Abundant in woodland along road. Seed from several plants. Wild. Seed.


impressed veins. Fruit greenish, soft when ripe, sweet to taste. Growing on edge of woodland in field 47. Wild. Seed.


479290. Actinidia polygama (Sieb. & Zucc.) Maxim. (Actinidiaceae).

Received February 1983.


479291 TO 479292. Aesculus turbinata Bl. (Hippocastanaceae) Japanese horsechestnut.

Received February 1983.


479291 TO 479292-continued
Akaigawa, Mori-machi, Kayabe-gun, Hokkaido. 200m. Lat. 42 deg. 0' N, Long. 140 deg. 39' E. Snow cover for 2 days by 50cm or deeper. Minimum temperature -18C. Tree deciduous, 21m tall. Branches ascending. Bark light gray, scaly. Leaves dark green above with impressed veins, pale beneath with raised veins. Fruit egg shaped, yellowish with speckled pericarp, nuts dark brown. Growing in woodland along forest road. Seed collected from one tree. Wild. Seed.

479293 TO 479295. Alnus hirsuta (Spach) Rupr. (Betulaceae) Manchurian alder.

Received February 1983.


479296 TO 479298. Alnus japonica (Thunb.) Steud. (Betulaceae) Japanese alder.

479296 TO 479298-continued
Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Collected September 22, 1982. Osonai, Hamanaka-machi,
Akkeshi-gun, Hokkaido. Lat. 43 deg. 09' N, Long. 145 deg.
04' E. Snow cover 40 cm per annum. Minimum temperature -
20°C. Tree deciduous, 6 m tall. Branches upright, spreading.
Bark rough, dark brown, peeling in plates. Leaves dark
green, lustrous above, impressed veins lighter beneath.
Growing as a hedge around a private house. Cultivated.
Seed.

Collected September 23, 1982. East, 7 km of Kushiro along
hwy 44, Kushiro-shi, Hokkaido. Lat. 42 deg. 59' N, Long.
144 deg. 27' E. Snow cover 50 cm or deeper for 6 days.
Minimum temperature -28°C. Tree deciduous, 7.6-9.1 m tall.
Branches spreading, very brittle. Bark rough, light gray.
Leaves deep green above, impressed. Growing in a marsh
moor, open area; only tree in this habitat. Seed
collected from 5 trees. Wild. Seed.

Forest Breeding Station, Hokkaido. Sent to US Arboretum
by M. Kawase. Collected in Esashi-machi. Seed.

479299 TO 479301. Alnus maximowiczii Callier (Betulaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected September 19, 1982. S of hwy 344, E of pass
toward Lake Rausu, Rausu-cho, Menashi-gun, Hokkaido. Lat.
44 deg. 03' N, Long. 145 deg. 10' E. Snow cover 1.5 m per
annum. Minimum temperature -20°C. Shrub deciduous, 3.5-
4.5 m tall, much branched, spreading habit. Bark gray to
brownish. Leaves dark green above, impressed veins,
lighter beneath. Growing along a stream in open situation.
Seed collected from several trees. Wild. Seed.

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg.
14' N, Long. 142 deg. 24' E. Snow cover 2.5 m per annum.
Minimum temperature -30°C. Shrub 3.7 m tall. Branches
spreading, multistemmed from base. Bark smooth, light
479299 TO 479301-continued


479302. Alnus pendula Matsum. (Betulaceae).

Received February 1983.


479303. Alnus sp. (Betulaceae).

Received February 1983.

479304. Arachniodes standishii (T. Moore) Ohwi (Dryopteridaceae).

Received February 1983.


479305. Aralia cordata Thunb. (Araliaceae).

Received February 1983.


Received February 1983.


479307 TO 479308. Artemisia stelleriana Besser (Asteraceae).


479310. Aster sp. (Asteraceae).

Received February 1983.


479317. Betula apoiensis Nakai (Betulaceae).

Received February 1983.


479318 TO 479322. Betula ermanii Cham. (Betulaceae) Birch.

Received February 1983.


479320. JH-92-82. Japan. US National Arboretum. 51114. Collected September 19, 1982. S of hwy 344, E of pass toward Lake Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44 deg. 03' W, Long. 145 deg. 10' E. Snow cover 1.5m per annum. Minimum temperature -20C. Tree deciduous, reddish brown, shiny twigs, 7.5m tall. Bark grayish to whitish,
peeling in thick rough plates. Leaves dark green above. Fruit erect on branches. Extremely common, the dominant deciduous tree of the area. Growing on open hillside with Acer under dense Pinus pumila and Sasa. Seed collected from several trees. Wild. Seed.


479323 TO 479325-continued

gun, Hokkaido. Snow cover 60cm per annum. Minimum temperature -25C. Tree up to 12m tall. Growing on NE beach of Lake Kusharo. Wild. Seed.

479326 TO 479327. Betula platyphylla var. japonica (Miq.) Hara (Betulaceae).

Received February 1983.


479328. Betula tatewakiana M. Ohki & S. Watanabe (Betulaceae).

Received February 1983.


479329. Buckleya lanceolata (Sieb. & Zucc.) Miq. (Santalaceae).

Received February 1983.
479329-continued


479330. Calanthe torifera Schltr. (Orchidaceae).


479331. Callicarpa japonica Thunb. (Verbenaceae).


479332 TO 479333. Carex sp. (Cyperaceae).

479332 TO 479333-continued
Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg.
14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum.
Minimum temperature -30C. Several plants collected.
Cultivated. Plants.

Forest, Tomakomai-shi, Hokkaido. Lat. 42 deg. 38' N, Long.
141 deg. 39' E. Snow cover 40cm. Ground freeze to 70cm.
Minimum temperature -30C. Wild. Plants.

479334 TO 479340. Carpinus cordata Bl. (Betulaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 18, 1982. Shari National Forest, Utoro, Shari-
machi, Shari-gun, Hokkaido. 350m. Lat. 44 deg. 03' N,
Long. 145 deg. 0' E. Snow fall 2m per annum. Tree
deciduous, up to 11m tall. Bark smooth, light gray.
Leaves dull bright green above. Fruiting catkins
pendulous, green. Growing in dense woodland on steep
mountain slope, with trees similar to JH-75. Seed
collected from 2 trees. Wild. Seed.

Collected September 23, 1982. East, 7km of Kushiro along
hwy 44, Kushiro-shi, Hokkaido. Lat. 42 deg. 59' N, Long.
144 deg. 27' E. Snow cover 50cm or deeper for 6 days.
Minimum temperature -28C. Shrub deciduous, large to small
tree, 6m tall. Leaves dark green above, impressed veins,
glaucous green beneath. Fruiting aments pendulous.
Growing in woodland. Seed collected from 2 plants. Wild.
Seed.

Collected September 24, 1982. SE, 3,2km of Lake Kusharo,
Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 35' 
N, Long. 144 deg. 23' E. Snow cover 60cm per annum.
Minimum temperature -25C. Tree deciduous, 10m tall. Bark
smooth, gray. Leaves light green above, impressed veins,
lighter beneath. Fruiting aments pendulous. Growing in
woodland. Seed collected from one tree. Wild. Seed.

Forest, Tomakomai-shi, Hokkaido. Lat. 42 deg. 38' N, Long.
141 deg. 39' E. Snow cover 40cm, ground freeze to 70cm.

339


479341 TO 479342. Carpinus laxiflora (Siebold & Zucc.) Blume (Betulaceae) Hornbeam.


479341 TO 479342—continued

Collected October 06, 1982. Near Lake Onuma, Onuma, Nanae-
cho, Kameda-gun, Hokkaido. Lat. 41 deg. 59' N, Long. 140
deg. 43' E. Snow cover 2 days by 50cm or deeper. Minimum
temperature -18C. Tree deciduous, 7.6m tall. Branches
wide spreading. Leaves dark green above with impressed
veins, somewhat lustrous beneath. Fruiting aments
pendulous, green. Growing in open woodland. Seed
collected from one plant. Wild. Seed.

479343. Castanopsis cuspidata (Thunb.) Schottky (Fagaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 13, 1982. Near 1864 Hinogawa-joonai-
machi, Tochigi-shi, Tochigi-ken, Honshu. Tree evergreen,
dense habit and broad crown. Bark smooth, gray. Growing
in garden near Mr. M. Furuse's house. Cultivated. Seed.

479344. Cephalotaxus harringtonia var. nana (Nakai) Rehd. (Taxaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg.
14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum.
Minimum temperature -30C. Shrub evergreen, 1.2m tall.
Branches spreading. Leaves lustrous green above, whitish
beneath. Fruit greenish (immature). Seed collected from
several plants. Cultivated. Seed.

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.
479345-continued

Collected September 22, 1982. Akkeshi Prefectural Forest,
Bekambegyu, Akkeshi-machi, Akkeshi-gun, Hokkaido. Lat. 43
deg. 06' N, Long. 145 deg. 0' W. Snow cover 40cm, deepest
1.3m. Minimum temperature -20C. Tree deciduous, 15m tall,
usually multitrunked. Bark furrowed, light gray, peeling
in strips. Leaves bright green above, glaucous beneath.
Common in mixed deciduous woodland. Seed collected from
one tree. Wild. Seed.

479346. Chaenomeles japonica (Thunb.) Lindl. ex Spach (Rosaceae)
Flowering quince.

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Kairyo-en, Angyo, Kawaguchi,
Saitama-ken, Central Honshu. Flowers orange. Plants
purchased. Received as var. alpina. Cultivated. Plants.

479347. Chaenomeles japonica f. alba (Nak.) Ohwi (Rosaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Kairyo-en, Angyo, Kawaguchi,
Saitama-ken, Central Honshu. Flowers white. Plants
purchased. Cultivated. Plants.

479348. Chimonanthus praecox (L.) Link (Calycanthaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Kairyo-en, Angyo, Kawaguchi,
Saitama-ken, Central Honshu. Plants purchased. Local name
Dai-oga (Large Yellow River). Cultivated. Plants.

479349. Chloranthus serratus (Thunb.) Roem. & Schult. (Chloranthaceae).

479349-continued
Marx, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Forest, Tomakomai-shi, Hokkaido. Lat. 42° 38' N, Long.
141° 39' E. Snow cover 40cm, ground freeze to 70cm.
Minimum temperature -30°C. Wild. Plants.

479350. Chrysanthemum pacificum Nakai (Asteraceae).
March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Collected October 12, 1982. Kogara Co-operative
Nursery, Bonsai Center, Angyo, Saitama-ken, Central Honshu.
Attractive selection with hairy margin on upper edge of
Plants.

479351. Chrysanthemum sp. (Asteraceae).
March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Collected September 22, 1982. Kujiranohama, Hamanaka-
machi, Akkeshi-gun, Hokkaido. Lat. 42° 59' N, Long.
145° 0' E. Snow cover 40cm per annum, deepest 1.3m.
Minimum temperature -20°C. Growing in sea-side meadow.
Wild. Plants.

479352. Cimicifuga simplex Wormsk. (Ranunculaceae).
March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

479352-continued
Collected September 22, 1982. Akkeshi Prefectural Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 650m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20'C. Perennial from short rhizome, 0.76-1.5m tall. Leaves light green above, glaucous beneath. Inflorescence sometimes arching, flowers white. Common in mixed woodland, in field 41. Several plants collected. Wild Plants.

Received February 1983.

479354. Clinopodium chinense var. shibetchense (Lev.) Koidz. (Lamiaceae).
Received February 1983.

479355. Codonopsis lanceolata (Sieb. & Zucc.) Trautv. (Campanulaceae).
Received February 1583.
479355-continued


479356. Convallaria keiskei Miq. (Liliaceae).


479357 TO 479358. Cornus controversa Hemsl. (Cornaceae).


Cornus kousa Hance (Cornaceae).


Corylus sieboldiana Bl. (Betulaceae).


Crataegus chlorosarca Maxim. (Rosaceae).


479362. *Crataegus* sp. (Rosaceae).

Received February 1983.


479363. *Cymbidium* virescens Lindl. (Orchidaceae).

Received February 1983.


479364. *Daphne kamtschatica* var. *jezoensis* (Maxim.) Ohwi (Thymelaeaceae).

Received February 1983.


479365. *Daphniphyllum macropodum* Mig. (Daphniphyllaceae).

479365-continued
Received February 1983.

Collected October 12, 1982. Funatsu-en, Akashiba,
Kawaguchi, Saitama-ken, Central Honshu. Leaves variously

479366 to 479369. Daphniphyllum macropodum var. humile (Maxim.)
Rosenth. (Daphniphyllaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 18, 1982. Shari National Forest, Utoro, Shari-
machi, Shari-gun, Hokkaido. 200m. Lat. 44 deg. 03' N,
Long. 145 deg. 0' E. Snow cover 2m per annum. Evergreen,
low shrub, 1 m tall, gregarious. Leaves lustrous green
above, glaucous green beneath. Fruit purple. Growing in
semi-open place in woodland with Ulmus, Quercus, Cornus,
Sorbus, yew, Cercis, Abies, and Juglans. Wild. Seed.

Collected October 05, 1982. Arboretum, Hokkaido Pref.
41 deg. 49' N, Long. 140 deg. 48' E. Snow cover 50cm or
deeper for 2 days. Minimum temperature -18C. Cuttings
collected from 1 m tall plant moved from Kikonai-machi
where it was native. Cultivated. Cuttings.

Collected October 08, 1982. Tsuta Onsen, Towada-shi,
Aomori-ken, Honshu. 470m. Snow cover 2-3m, 58 days 50cm
or deeper. Minimum temperature -20C. Shrub evergreen,
low, 60-90cm tall, growing from underground runners.
Leaves lustrous above, blue green beneath. Fruit purple.
Growing in deep woodland under Fagus crenata. Cuttings
obtained from male plants. Wild. Cuttings.

Collected October 08, 1982. Tsuta Numa, Towada-shi,
Aomori-ken, Honshu. Lat. 40 deg. 33' N, Long. 140 deg.
58' E. Snow cover 2-3m, 58 days 50cm or deeper. Cuttings
collected from a male plant. Wild. Cuttings.

479370 to 479371. Dianthus superbus L. (Caryophyllaceae).

479370 TO 479371—continued

March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.


479372 TO 479373. Diospyros lotus L. (Ebenaceae).

Received February 1983.


479374. Dryopteris crassirhizoma Nakai (Dryopteridaceae).

Received February 1983.
479374—continued

Collected October 08, 1982. Tsuta Numa, Towada-shi, Honshu. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m, 58 days covered by 50cm or deeper. Minimum temperature -20C. Wild. Plants.

479375. Edgeworthia chrysantha Lindl. (Thymelaeaceae).

Received February 1983.


479376. Eleutherococcus senticosus (Rupr. & Maxim.) Maxim. (Araliaceae).

Received February 1983.

Collected September 24, 1982. W side of Lake Kusharo, Urankoshi, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 34' N, Long. 144 deg. 19' E. Snow cover 60cm per annum. Minimum temperature -25C. Shrub deciduous, 1.5-1.8m tall, mostly unbranched, with retrorse prickles on stems. Leaves lustrous dark green above, light green beneath. Fruit in a globose head, nearly black. Growing in woodland, recently cutover, along forest road on slopes above the lake. Seed collected from several plants. Received as Acanthopanax senticosus. Wild. Seed.

479377 TO 479378. Enkianthus campanulatus (Miquel) Nicholson (Ericaceae) Redvein enkianthus.

Received February 1983.

Collected October 03, 1982. Botanic Garden, Hokkaido Univ., Sapporo-shi, Hokkaido. Lat. 43 deg. 03' N, Long. 141 deg. 22' E. Snow cover for 55 days 50cm or deeper. Minimum
479377 to 479378-continued

Temperature -24°C. Shrub deciduous, 3m tall, multistemmed. Leaves dark green above, pale beneath. Seed collected from one plant with large leaves and pink flowers. Cultivated. Seed.


479379. Enkianthus perulatus (Mig.) C. K. Schn. (Ericaceae).


479380. Epimedium sp. (Berberidaceae).


479381. Euonymus alatus f. subtriflorus (Bl.) Ohwi (Celastraceae).


479381-continued

September 15, 1982. Hokkaido Univ., Uryu Forest, Hoshiri, Horokanai-cho, Uryu-gun, Hokkaido. Snow cover 1.5-2.5m per annum. Minimum temperature -35C. Shrub deciduous, 1.2-1.5m, much branched, multistemmed from base. Leaves bright green. In mixed woodland with Kalopanax, Quercus, & Sasa by field marker 320. Seed from several plants. Wild. Seed.

479382 to 479383. Euonymus fortunei var. radicans (Sieb. ex Mig.) Rehd. (Celastraceae).

Received February 1983.


479384 to 479388. Euonymus macroptera Rupr. (Celastraceae).

Received February 1983.


479384. To 479388—continued

Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper for 20 days. Minimum temperature -29C. Shrub deciduous, 4m tall, spreading habit with long pointed green buds. Leaves dark green above, light green beneath. Growing in woodland along roadside in field no. 122. Wild. Seed.


479389. Euonymus melanantha Fr. & Sav. (Celastraceae).

Received February 1983.

479390 TO 479391. *Euonymus oxyphylla* Miq. (Celastraceae).


Received February 1983.


479392 TO 479395. *Euonymus planipes* (Koehne) Koehne (Celastraceae).


Received February 1983.


479392 TO 479395—continued


479396 TO 479401. Euonymus sieboldiana Blume (Celastraceae).


479396 TO 479401-continued
Growing in open swampy area. Wild. Seed.


479402. Eucaphis japonica (Thunb.) Kanitz (Staphyleaceae).

Received February 1983.


479403 TO 479404. Fagus crenata Blume (Fagaceae) Beech.

Received February 1983.


479405. Fagus japonica Maxim. (Fagaceae).

Received February 1983.


479406. Festuca sp. (Poaceae).

Received February 1983.


479407. Ficus sarmentosa var. nipponica (Fr. & Sav.) Corner (Moraceae).

Received February 1983.

lax. Leaves coriaceous, lustrous above, glaucous beneath, petioles somewhat rufous. Climbing up trunk of Zelkova serrata, probably one of the hardiest species of the genus. Growing in woodland. Wild. Cuttings.

479408. Fraxinus lanuginosa Koidz. (Oleaceae).

Received February 1983.

Collected September 22, 1982. Akkeshi Prefectural Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 70m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Tree deciduous, small, 6-8m tall. Spreading crown. Bark smooth, light gray. Leaves dark green above, lighter beneath. Growing in mixed woodland, in field 47. Seed collected from one tree. Wild. Seed.

479409 TO 479411. Fraxinus mandshurica var. japonica Maxim. (Oleaceae).

Received February 1983.


479412. Fritillaria camschatcensis (L.) Ker-Gawl. (Liliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 14, 1982. Sarobetsu Moor, Wakasakanai, Toyotomi-
machi, Teshio-gun, Hokkaido. Lat. 45 deg. 05' N, Long.
141 deg. 43' E. Bulbs purchased from Tourist Center at

479413 TO 479414. Gaultheria mucilans Takeda (Ericaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected September 22, 1982. Garden, Hichirippu,
Hamanaka-machi, Akkeshi-gun, Hokkaido. Lat. 43 deg. 04' N, Long.
145 deg. 05' E. Snow cover 40cm, deepest 1.3m.
Minimum temperature -20C. Shrub evergreen, low creeping,
7-11cm tall. Leaves light green, lustrous above, lighter
beneath. Fruit spongy, inflated. Rather soft, pure white,
obovoid, ridged. Seed collected from one plant originally
purchased from nursery. Cultivated. Seed.

Lab., Road 1, Aomori-shi, Aomori-ken, Honshu. 1050m. Lat.
40 deg. 37' N, Long. 140 deg. 58' E. Snow 2-3cm; 58 days
covered by snow 50cm or deeper. Minimum temperature -20C.
Shrub evergreen, 30-35cm tall. Leaves coriaceous, bright
lustrous green above, somewhat rugose, pale beneath.
Fruit white, spongy texture, nearly globose, ridged
(carpeis) on reddish petioles. Growing in bog near pond.
Seed collected from many plants. Wild. Seed.


March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
479415-continued
D.C.
Received February 1983.


479416 TO 479417. Hemerocallis sp. (Liliaceae).

Received February 1983.


479418. Hosta japonica var. coerulea Makino (Liliaceae).

Received February 1983.


479419 TO 479421. Hosta sp. (Liliaceae).


479422 TO 479425-continued

Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m, 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Shrub deciduous, 1.2-1.7m tall, multistemmed from base. Leaves dark green above with impressed veins; lustrous and pale green beneath. Growing by edge of stream under shade in woodland. Seed collected from one plant. Wild. Seed.

Collected October 09, 1982. Yunotai, Towada-shi, Aomori-ken, Honshu. Lat. 40 deg. 37' N, Long. 140 deg. 58' E. Snow 2-3m, 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Shrub deciduous, 1.2-1.5m tall, multistemmed from base, erect. Leaves dark green above, rugose beneath. Flowers bluish. Bracts deep blue. Forms extensive colonies in open areas, on edge of woodland. Seed collected from several plants. Wild. Seed.

479426 TO 479429. Hydrangea paniculata Sieb. (Saxifragaceae).

Received February 1983.


Collected September 25, 1982. SW slope of Mt. Ivo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow cover 60cm per annum. Minimum temperature -25C. Shrub deciduous, 1.5-2.5m tall. Branches many, especially in upper portion. Leaves deep
green above, pale beneath. Sterile flowers, deep purplish on underside of older flowers; more so than in most other plants observed locally. Growing in mixed woodland. Seed collected from one plant. Wild. Seed.

479429


479430 TO 479431. Hydrangea petiolaris Sieb. & Zucc. (Saxifragaceae).


479430


479431


annum. Minimum temperature -17°C. Shrub evergreen, 1.2m. Leaves lustrous above. Fruit black. Seed from one plant moved from wild. Cultivated. Seed.

Ilex crenata var. paludosa (Nakai) Hara (Aquifoliaceae).


Received February 1983.


Ilex leucoclada (Maxim.) Makino (Aquifoliaceae).


Received February 1983.


479435 TO 479438—continued

Collected October 09, 1982. Along Kendo #1 hwy,
Kansuizawa, Aomori-shi, Aomori-ken, Honshu. 730m. Lat. 40
deg. 39' N, Long. 140 deg. 50' E. Snow 2-3m; 58 days
covered by snow 50cm or deeper. Minimum temperature -20C.
Growing in wooded area. Cuttings from 2 male plants. Wild.
Cuttings.

Collected October 09, 1982. Along Kendo #1 hwy,
Kansuizawa, Aomori-shi, Aomori-ken, Honshu. 730m. Lat. 40
deg. 39' N, Long. 140 deg. 50' E. Snow 2-3m; 58 days
covered by snow 50cm or deeper. Minimum temperature -20C.
Shrub evergreen, 60-90cm tall, erect habit, stems green.
Leaves coriaceous deep green above, pale beneath. Fruit
dark red, globose. Growing in Fagus crenata woodland.
Cuttings from two female plants. Wild. Cuttings.

479439. Ilex macropoda Mig. (Aquifoliaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 15, 1982. Foot of Mt Nyokoo, near
Zyakko Falls, Nikko, Tochigi-ken, Honshu. Tree deciduous,
7.5m tall. Branches wide spreading. Bark smooth, whitish
to gray. Leaves dark green above with impressed veins,
pale beneath and lustrous. Fruit purplish red, sweet to


479440 TO 479442. Ilex rugosa F. Schmidt (Aquifoliaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 14, 1982. Dune Forest, Wakaisakanai, Toyotomi-
machi, Teshio-gun, Hokkaido. Lat. 45 deg. 05' N, Long.
141 deg. 43' E. Shrub evergreen, decumbent, 31-38.7cm.
Branches rooting along, greenish. Leaves dark green
above, rugose, light green beneath. Fruits orange-red.
Growing with Viburnum furcatum, Abies sacchalinensis,
Magnolia, Quercus mongolica, Acanthopanax, Kalopanax.
479440 TO 479442—continued
Seed from several plants. Wild. Seed.


479443 TO 479446. Ilex sugerokii Maxim. (Aquilifoliaceae).

Received February 1983.


479443 TO 479446-continued
Lab., Tohoku Univ., Sukayu, Aomori-shi, Aomori-ken. Lat. 40
deg. 37' N, Long. 140 deg. 56' E. Snow cover 2-3m, 58
days covered by snow 50cm or deeper. Minimum temperature -

479447 TO 479448. Iris ensata var. spontanea (Makino) Nakai
(Iridaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 14, 1982. Wakasakanai, Toyotomi-machi, Teshio-
gun, Hokkaido. Lat. 45 deg. 04' N, Long. 141 deg. 35' E.
Perennial densely tufted, 50-75cm tall. Rhizomatous;
makes a dense clump. Leaves bright green. Fruiting scapes
longer than leaves. Wet meadow 0.7km from beach. One
plant collected. Wild. Plants.

September 14, 1982. Wakasakanai, Toyotomi-machi, Teshio-
gun, Hokkaido. Lat. 45 deg. 04' N, Long. 141 deg. 35' E.
Perennial densely tufted, 50-75cm tall. Rhizomatous;
makes a dense clump. Leaves bright green. Fruiting scapes
longer than leaves. Wet meadow 0.7km from beach. Seed
collected from several plants. Wild. Seed.

479449 TO 479451. Iris setosa Pall. (Iridaceae) Arctic iris.
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 12, 1982. Cape Soya, Soya Hisaki, Wakkani-shi,
Kitami-gun, Hokkaido. Lat. 45 deg. 26' N, Long. 141 deg.
56' E. Snow cover 50cm or more for 67 days. Minimum
temperature -19C. Rhizomatous from loose clumps 92cm tall.
Leaves green but purplish at base. Common in wet meadow.
Wild. Plants.

Collected September 22, 1982. Kujiranohama, Hamanaka-
machi, Akkeshi-gun, Hokkaido. Lat. 42 deg. 59' N, Long.
145 deg. 0' E. Snow cover 40cm per annum, deepest 1.3m.
479449 TO 479451-continued

Minimum temperature -20°C. Growing in sea-side meadow on cliff with Sasa (Same as JH-172). Wild. Plants.


479452. Iris sp. (Iridaceae).

Received February 1983.

Collected September 19, 1982. S of hwy 344, E of pass toward Lake Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44 deg. 03' N, Long. 145 deg. 10' E. Snow cover 1.5m per annum. Minimum temperature -20°C. Growing in sphagnum bog. Wild. Plants.

479453 TO 479454. Juglans ailantifolia Carr. (Juglandaceae).

Received February 1983.

Collected September 22, 1982. Akkeshi Prefectural Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 70m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20°C. Tree deciduous, 9m tall. Branches wide spreading. Leaves dark green above, impressed veins, gray green beneath. Growing in woodland in field 41. Seed collected from one tree. Wild. Seed.


March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.


479456 TO 479458. Juniperus chinensis var. sargentii Henry (Cupressaceae) Juniper.

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

479456. JH-75-82. Japan. US National Arboretum. 51095. Collected September 27, 1982. Shari National Forest, Otoro, Shari-machi, Shari-gun, Hokkaido. 350m. Lat. 44 deg. 03' N, Long. 145 deg. 0' E. Snow fall 2m per annum. Bush upright, 1 m tall, densely branched, stem base 4cm. Growing in sunny location on open cliff of mixed forest with same trees as JH-75. Seed collected from several plants. Wild. Seed.


Received February 1983.


479460. Ledum palustre var. diversipilosum Nakai (Ericaceae).


Received February 1983.


479461 to 479462. Lespedeza thunbergii (DC.) Nakai (Fabaceae).


Received February 1983.

Leaves dark green above, pale beneath. Flowers white. Plants divided from original plant, which was purchased at a garden center and now established. Cultivated. Plants.


479463 TO 479466. Lilium cordatum (Thunb.) Koidz. (Liliaceae).


Received February 1983.


479467. Lilium maculatum var. davuricum (Ker-Gawl.) Ohwi (Liliaceae).


Received February 1983.
479467-continued


479468 TO 479470. Lilium sp. (Liliaceae).

Received February 1983.


479471. Lindera umbellata Thunb. (Lauraceae).

Received February 1983.

479472 TO 479473. Lindera umbellata var. aurantiaca Hiyama (Lauraceae).

Received February 1983.

Collected October 08, 1982. Along Kendo #1 Hwy, Kansuizawa, Aomori-shi, Aomori-ken, Honshu. 730m. Lat. 40° 39′ N, Long. 140° 40′ E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20°C. Shrub 1.8-2.1m tall, upright habit, branches somewhat yellowish and aromatic when broken. Leaves light green above, nearly glaucous beneath. Fruit yellowish, hard. Seed collected from 2 plants. Wild. Seed.


479474. Lithocarpus edulis (Makino) Nakai (Fagaceae).

Received February 1983.


479475. Lonicera alpigena var. glehnii (F. Schmidt) Nakai (Caprifoliaceae).

Received February 1983.

141 deg. 43' E. Shrub deciduous, 2m tall. Leaves dark green above, light green beneath. Fruit red. Sunny location in forest clearing. Seed collected from 2 plants. Wild. Seed.

Lonicera sp. (Caprifoliaceae).

Received February 1983.


Lysichiton camtschatcense (L.) Schott (Araceae).

Received February 1983.


Magnolia kobus DC. (Magnoliaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington,
479479 TO 479480—continued

D.C.
Received February 1983.


479481. Magnolia kobus var. borealis Sarg. (Magnoliaceae).

Received February 1983.


479482 TO 479488. Magnolia obovata Thunb. (Magnoliaceae).

Received February 1983.


479489. Magnolia salicifolia (Sieb. & Zucc.) Maxim. (Magnoliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.


479490. Maianthemum bifolium (L.) F.W. Schmidt (Liliaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyère, F.;
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.


479491 TO 479492. Malus baccata var. mandshurica (Maxim.) C. K. Schn. (Rosaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.


479491 TO 479492-continued


479493. Menziesia ciliicalyx (Miq.) Maxim. (Ericaceae).

Received February 1983.


479494. Menziesia ciliicalyx var. multiflora (Maxim.) Makino (Ericaceae).

Received February 1983.


479495. Hertensia pterocarpa (Turcz.) Tatew. & Ohwi (Boraginaceae).

Received February 1983.
479495-continued


479496. Miscanthus sacchariflorus (Maxim.) Hack. (Poaceae).

Received February 1983.


479497. Nuphar japonicum DC. (Nymphaeaceae).

Received February 1983.


479498. Nymphaea tetragona var. angusta Casp. (Nymphaeaceae).

Received February 1983.

479499. Nymphaea tetragona Georgi var. tetragona (Nymphaeaceae).

Received February 1983.

Collected October 09, 1982. Sukayu Sta., Tohoku Univ., Road 1, Mt. Hakkado, Aomori-shi, Aomori-ken, Honshu. 1050m. Lat. 40 deg. 37' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Leaves small, white. Wild. Plants.

479500. Orchis sp. (Orchidaceae).

Received February 1983.

Collected October 06, 1982. Mori National Forest, Akaigawa, Mori-machi, Kayabe-gun, Hokkaido. 200m. Lat. 42 deg. 0' N, Long. 140 deg. 39' E. Snow cover for 2 days by 50cm or deeper. Minimum temperature -18C. Wild. Plants.

479501. Oreorchis patens (Lindl.) Lindl. (Orchidaceae).

Received February 1983.


479502 TO 479503. Ostrya japonica Sargent (Betulaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington,
479502 TO 479503-continued

D.C.
Received February 1983.


479504. Pachysandra axillaris Franch. (Buxaceae).

Received February 1983.


479505 TO 479509. Pachysandra terminalis Sieb. & Zucc. (Buxaceae).

Received February 1983.

Collected September 22, 1982. Akkeshi Prefectural Forest,
Bekambegyu, Akkeshi-machi, Akkeshi-gun, Hokkaido. Lat. 43
deg. 06' N, Long. 145 deg. 0' E. Snow 40cm, deepest 1.3m.
Minimum temperature -20C. Evergreen ground creeper, 15-
20cm tall, rhizomatous, stems green. Leaves dark green
above, veins lighter. Fruit white. Growing in a very wet
place in dense woodland. Several plants collected. Wild.
Plants.

Collected September 24, 1982. SE, 3.2km of Lake Kusharo,
Teshikaga-machi, Kavakami-gun, Hokkaido. Lat. 43 deg. 35'
N, Long. 144 deg. 23' E. Snow 60cm per annum. Minimum

Forest, Tomakomai-shi, Hokkaido. Lat. 42 deg. 38' N, Long.
141 deg. 39' E. Snow cover 40cm, ground freeze to 70c m.
Minimum temperature -30C. Evergreen subshrub with long
creeping root stalks. Stems smooth, green, pliable.
Leaves lustrous green above with lighter colored veins,
lighter beneath with veins not evident. Fruit white to
translucent with black seeds. Abundant on forest floor in
woodland. Wild. Plants.

Collected October 05, 1982. Onuma, Nanae-machi, Kameda-
gun, Hokkaido. Lat. 41 deg. 57' N, Long. 140 deg. 42' E.
Snow cover for 2 days by 50cm or deeper. Minimum
temperature -18C. Wild. Plants.

479510. Paeonia japonica (Hakino) Miyabe & Takeda (Ranunculaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 17, 1982. Abashiri National Forest, Urbar,
Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper
for 20 days. Minimum temperature -29C. Perennial, 32cm
tall. Leaves green above, glaucous beneath. Mature seeds
purple black, the follicles covered with numerous red
sterile seeds. Growing in deep woodland near roadside and
in field no. 121. Seed collected from a single plant.
Wild. Plants.

Received February 1983.


Received February 1983.


479513. *Phellodendron* sp. (Rutaceae).

Received February 1983.


479514 to 479515. *Picea glehnii* (Schmidt) Masters (Pinaceae) Sakhalin spruce.

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, P.; March, S.; Ohio Agricultural Research & Development
479514 TO 479515-continued
Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Collected September 19, 1982. S of hwy 344, E of pass toward Lake
Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44 deg. 03' N,
Long. 145 deg. 10' E. Snow cover 1.5m per annum. Minimum
temperature -20°. Evergreen tree, 6m tall. Branches stiff. Leaves bright green, lustrous. Cones
reddish brown. Growing in open, wet area with Abies
sachalinensis. Tree seems rare in area, only one seen.
Seed collected from one plant. Wild. Seed.

Collected September 29, 1982. South slope of Mt. Dairoku,
Furano-shi, Hokkaido. Lat. 43 deg. 36' N, Long. 144 deg.
26' E. Snow cover 2.5m per annum. Minimum temperature -30°. Evergreen, up to 4.6m tall, spreading. Branches
stiff, close. Leaves lustrous dark green. Cones erect,
purple. Scattered on steep wooded slopes. Seed collected
from 2 trees. Wild. Seed.

479516 TO 479517. Picea jezoensis (Sieb. & Zucc.) Carr. (Pinaceae)
Yedo spruce.

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

Collected September 22, 1982. Osonai, Hamanaka-machi,
Akkeshi-gun, Hokkaido. Lat. 43 deg. 09' N, Long. 145 deg.
04' E. Snow 40cm, deepest 1.3m. Minimum temperature -20°.
Tree mature. Bark white. Seedling collected from a
nursery of Hokkaido Pref. Forest Service, Akkeshi Station.
Seeds for the seedlings are of local origin. Cultivated. Plants.

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg.
14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum.
Minimum temperature -30°. Seed collected from one plant.
Cultivated. Plants.

479518. Picrasma quassioides (D. Don) Benn. (Simaroubaceae).

479518-continued

March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

Received February 1983.


Received February 1983.


479520 TO 479523. Pinus pumila (Pallas) Regel (Pinaceae) Stone pine.


Received February 1983.


479520 to 479523-continued

deg. 03' N, Long. 145 deg. 10' E. Snow cover 1.5m per annum. Minimum temperature -20C. Tree evergreen, low, 1.2-3m tall, usually with ascending trunks, sometimes erect, forms extensive dense stands to the timber line. Bark scaly in old specimens. Leaves blue green. Cones brown (very rare this season). Growing in open field with Sasa. Wild. Seed.


479524. Plagiogyria semicordata subsp. matsumureana (Makino) Nakaike (Plagiogyriaceae).


479525. Polygonatum sp. (Liliaceae).


386
479525-continued


479526. Polygonum sp. ( Polygonaceae).

Received February 1983.


479527. Primula kisoana Mig. ( Primulaceae).

Received February 1983.


479528. Primula takedana Tatew. ( Primulaceae).

Received February 1983.


479529. Prunus ssiori Schmidt (Rosaceae).

479529-continued

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

JH-7-82. Japan. US National Arboretum. 51026. Collected
342m. Lat. 43 deg. 53' N, Long. 141 deg. 47' E. Snow
cover 50cm or more for 73 days. Minimum temperature -23C.
Shrub deciduous, 3-4.6m tall, open-branched. Leaves
bright green above, lighter beneath. Fruit purple-black,
fleshy on pendulous racemes. Component of dense woodland
(2nd growth) on hillside. Wild. Seed.


March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 09, 1982. Yunotai, Towada-shi, Aomori-
ken, Honshu. Lat. 40 deg. 37' N, Long. 140 deg. 58' E.
Snow 2-3m; 58 days covered by snow 50cm or deeper.
Minimum temperature -20C. Tree deciduous, 11m tall.
Branches spreading. Bark peeling in plates, gray-green.
Leaves dark green above, pale beneath. Fruit pendulous in
long chain like spikes. Growing in open area near
roadside. Seed collected from 3 trees. Wild. Seed.

479531 TO 479533. Pyracantha angustifolia (Franch.) C. Schneid.
(Rosaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Garden of M. Yoko, Angyo,
Kawaguchi, Saitama-ken, Central Honshu. Yellow foliage in

Collected October 12, 1982. Garden of M. Yoko, Angyo,
Kawaguchi, Saitama-ken, Central Honshu. Leaves variegated.
Local name Chiyoda-Nishiki. Cuttings donated. Cultivated.
Cuttings.
479533. Quercus mongolica Fisch. ex Turcz. (Fagaceae).


Received February 1983.

479535 TO 479539. Quercus mongolica var. grosseserrata (Bl.) Rehd. & E. H. Wilson. (Fagaceae).


Received February 1983.
479535 TO 479539


Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Tree 13m tall. Seed collected from one tree. Wild. Seed.


479540. Quercus myrsinifolia Bl. (Fagaceae).

Received February 1983.


479541 TO 479542. Rhamnus japonica Maxim. (Rhamnaceae).

Received February 1983.

479541 to 479542—continued


479543 to 479544. Rhododendron albrechtii Maxim. (Ericaceae).

Received February 1983.

Collected September 29, 1982. South slope of Mt Dairoku, Furano-shi, Hokkaido. 1100m. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow cover 2.5m per annum. Minimum temperature -30C. Shrub deciduous, 1-2m tall, open branched. Leaves dark green above, pale and somewhat lustrous beneath. Growing in open woodland. Seed collected from several plants. Wild. Seed.


479545. Rhododendron aureum Georgi (Ericaceae).

Received February 1983.

Collected September 27, 1982. Hanabe Teien, Inada-machi,
479545—continued
Obihiro-shi, Hokkaido. Lat. 42 deg. 55' N, Long. 143 deg. 12' E. Snow cover 16 days 50cm or deeper. Minimum temperature -35C. Cultivated. Plants.

479546 TO 479548. Rhododendron brachycarpum D. Don (Ericaceae).

Received February 1983.


479549 TO 479551. Rhododendron dauricum L. (Ericaceae).

Received February 1983.

479549 TO 479551—continued


479552. Rhododendron japonicum (A. Gray) Suring. (Ericaceae).

Received February 1983.


479553 TO 479556. Rhododendron kaempferi Planch. (Ericaceae).

Received February 1983.


479553 TO 479556—continued

deg. 43' E. Snow cover 2 days by 50cm or deeper. Minimum temperature -18C. Shrub deciduous, 1.2-1.5m tall, multitrunked from base, very twiggy throughout. Flowers brick red. Growing on edge of lake. Cuttings collected from several plants. Wild. Cuttings.

Collected October 06, 1982. Near Lake Onuma, Onuma, Nanako-cho, Kameda-gun, Hokkaido. Lat. 41 deg. 59' N, Long. 140 deg. 43' E. Snow cover 2 days by 50cm or deeper. Minimum temperature -18C. Flowers purple. Seed collected from a plant moved from Esan in Shirikishinai-cho, Todohokke-machi, where it was native. Cultivated. Seed.

Collected October 06, 1982. Near Lake Onuma, Onuma, Nanako-cho, Kameda-gun, Hokkaido. Lat. 41 deg. 59' N, Long. 140 deg. 43' E. Snow cover 2 days by 50cm or deeper. Minimum temperature -18C. Flowers purple. Seed collected from a plant moved from Esan in Shirikishinai-cho, Todohokke-machi, where it was native. Cultivated. Cuttings.

479557. Rhododendron yedoense var. poukhanense (Lev.) Nakai (Ericaceae).

Received February 1983.


479558. Rhus trichocarpa Miq. (Anacardiaceae).

Received February 1983.

Collected September 25, 1982. SW slope of Mt Iwo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow 60cm per annum. Minimum temperature -25C. Shrub deciduous, large, 2.5-3m tall, multistemmed from base. Leaves turning scarlet in autumn.

394
479558-continued
Exocarp of fruit easily peeling off exposing white mesocarp. Growing on bushy, open, steep slope. Seed collected from one plant. (Handling seed may cause rash). Wild. Seed.

479559. Rodgersia podophylla A. Gray (Saxifragaceae).

Received February 1983.


479560. Rosa acicularis Lindl. (Rosaceae) Prickly rose.

Received February 1983.


479561. Rosa davurica Fall. (Rosaceae).

Received February 1983.

Leaves light green above, glaucous beneath. Hips orange-red, lustrous, nearly globose. Seed from plant moved from the wild. Cultivated. Seed.

479562 TO 479563. Rosa rugosa Thunb. (Rosaceae) Rugosa rose.

Received February 1983.


479564. Salix integra Thunb. (Salicaceae).

Received February 1983.

479565. Salix vulpina Anderss. (Salicaceae).

Received February 1983.

Collected October 09, 1982. Along Kendo # 1 hwy, Kayanokogen, Aomori-shi, Aomori-ken, Honshu. 530m. Lat. 40 deg. 40' N, Long. 140 deg. 49' E. Snow 2-3m; 58 days covered by snow 50 cm or deeper. Minimum temperature -20C. Growing at edge of woodland. Cuttings from 3 plants. Wild. Cuttings.

479566. Sambucus sieboldiana (Miq.) Graebn. (Caprifoliaceae).

Received February 1983.


479567. Saxifraga cortusifolia Sieb. & Zucc. (Saxifragaceae).

Received February 1983.


479568. Saxifraga fortunei Hook. f. (Saxifragaceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, P.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington,
479568-continued
D.C.
Received February 1983.

Collected October 12, 1982. Kogara Co-operative Nursery,
Bonsai Cen., Angyo, Saitama-ken, Central Honshu. Leaves
red on back. Plants purchased. Local name 'Ura beni'.
Cultivated. Plants.

479569. Saxifraga fortunei var. incisolobata (Engl. & Irmsch.) Nakai
(Saxifragaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Nihonkaki Corp, 184 Tshigami,
Kawaguchi, Saitama-ken, Central Honshu. Dwarf form from
Plants.

479570 TO 479571. Schisandra chinensis (Turcz.) B. Baill.
(Schisandraceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 17, 1982. Abashiri National Forest, Urbar,
Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper
for 20 days. Minimum temperature -29C. Deciduous woody
climber, 3-4.6m. Leaves bright green above, lighter
beneath. Fruit pendulous, cherry red, fleshy. Twining
over shrubbery in open situation along forest road,
growing with Aralia in field no. 122. Seeds collected
from several vines on a Maackia tree. Wild. Seed.

Collected September 29, 1982. Nunobe, Furano-shi,
Hokkaido. Lat. 43 deg. 14' N, Long. 142 deg. 24' E. Snow
cover 2.5m per annum. Minimum temperature -30C. Woody
climber, 4.6m tall, climbing over low bushes and trees in
woodland. Fruit coral-red, fleshy, in pendulous clusters.
Seed collected from one plant. Wild. Seed.
479572. Schizophragma hydrangeoides Sieb. & Zucc. (Saxifragaceae).

Received February 1983.

479573. Scutellaria sp. (Lamiaceae).

Received February 1983.

479574. Sedum sp. (Crassulaceae).

Received February 1983.

479575. Skimmia japonica Thunb. (Rutaceae).

479575-continued

March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.


479576. Skimmia japonica var. intermedia Komar. (Rutaceae).

March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.


479577. Skimmia japonica var. intermedia f. repens (Nakai) Hara (Rutaceae).

March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.

479578 TO 479583. Sorbus alnifolia (Sieb. & Zucc.) K. Koch (Rosaceae).

Received February 1983.


Aomori-ken, Honshu. Lat 40° 33' N, Long. 140° 58' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20°C. Tree deciduous, 3.5-8m tall, divided into main trunks. Bark smooth, light gray. Leaves dark green above with impressed veins; paler with prominent veins beneath. Fruit bright red, glossy. Growing by edge of small lake in marsh. Seed collected from 2 plants. Cultivated. Wild. Seed.

479584 TO 479593. Sorbus commixta Hedl. (Rosaceae) Japanese mountain-ash.


Received February 1983.


479587. JH-94-82. Japan. US National Arboretum. 51116. Collected September 19, 1982. S of hwy 344, E of pass toward Lake Rausu, Rausu-cho, Menashi-gun, Hokkaido. 675m. Lat. 44° 03' N, Long. 145° 10' E. Snow cover 1.5m per annum. Minimum temperature -20°C. Shrub deciduous, 4.6m
479584 TO 479593-continued


479584 TO 479593-continued
several plants. Cultivated. Wild. Seed.


479594 TO 479595. Sorbus matsumurana (Makino) Koehne (Rosaceae).
Received February 1983.


479596 TO 479597. Sorbus sambucifolia (Cham. & Schltdl.) Roem. (Rosaceae).
Received February 1983.

10 years ago from Nosapp Point (Tip of Nemuro Peninsula) where it was growing in wilderness. Cultivated. Seed.


**479598.** Spiranthes sinensis (Pers.) Ames (Orchidaceae).


**479599.** Staphylea bumalda DC. (Staphyleaceae).


**479600 TO 479601.** Styrax japonicus Sieb. & Zucc. (Styracaceae).

Collected October 05, 1982. Arboretum, Hokkaido Pref.
41 deg. 49' N, Long. 140 deg. 48' E. Snow cover for 2
days by snow 50 cm or deeper. Minimum temperature -18C.
Shrub to small tree, deciduous, 4.6 m tall, single trunked.
Leaves dark green above, pale beneath. Plant originally
growing in Yokotsudake where it was native. Seed
collected from one plant. Cultivated. Seed.

Collected October 05, 1982. Arboretum, Hokkaido Pref.
41 deg. 49' N, Long. 140 deg. 48' E. Snow cover for 2
days by snow 50 cm or deeper. Minimum temperature -18C.
Same plant as JH-260-82. Scions collected. Cultivated.
Scionwood.

479602 TO 479603. Styrax obassia Sieb. & Zucc. (Styracaceae).
March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg.
14' N, Long. 142 deg. 24' E. Snow cover 2.5 m per annum.
Minimum temperature -30C. Tree deciduous, 6 m tall.
Branches ascending. Bark smooth, dark brown. Leaves dark
green above, light green beneath. Seed collected from 3

Forest, Tomakomai-shi, Hokkaido. Lat. 42 deg. 38' N, Long.
141 deg. 39' E. Snow cover 40 cm, ground freeze to 70 cm.
Minimum temperature -30C. Tree deciduous, small, 6 m tall,
shallowly grooved, light gray, becoming smooth on younger
branches. Leaves light green above, whitish beneath,
veins raised. Fruiting racemes pendulous. Growing in
woodland. Wild. Seed.
479604. Symplocos chinensis var. leucocarpa (Nakai) Ohwi (Symplocaceae).

Received February 1983.


479605 TO 479606. Syringa reticulata (Bl.) Hara (Oleaceae) Lilac.

Received February 1983.


479607 TO 479608—continued
Received February 1583.

Collected September 18, 1982. Forestry Headquarters
Garden, Shari-machi, Shari-gun, Hokkaido. Lat. 43 deg.
55' N, Long. 144 deg. 44' E. Snow cover 2m per annum.
Seed collected in gardens. Plants transplanted from
nearby mountains. Cultivated. Seed.

Pref. Forest, Hichirippu, Bekambegyu, and Kitanosawa,
Akkeshi-gun. Tree evergreen, 7-9m tall. Branches
spreading. Crown broad. Bark shredded, brown. Leaves
lustrous green above, yellow green beneath. Seeds
imbedded in a fleshy, coral red aril. Seed collected
from several trees in 3 localities. Wild. Seed.

479609 TO 479610. Taxus cuspidata var. luteobaccata Miyabe & Tatew.
(Taxaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 03, 1982. Botanic Garden, Hokkaido Univ.,
Sapporo-shi, Hokkaido. Lat. 43 deg. 03' N, Long. 141 deg.
22' E. Covered with snow for 55 days 50cm or deeper.
Minimum temperature -24C. Shrub evergreen, spreading, 1.2-
1.5m tall. Leaves dark green above, radiate. Seed
embedded in yellowish, fleshy, aril. Seed collected from
one plant. Cultivated. Seed.

Collected October 03, 1982. Botanic Garden, Hokkaido Univ.,
Sapporo-shi, Hokkaido. Lat. 43 deg. 03' N, Long. 141 deg.
22' E. Covered with snow for 55 days 50cm or deeper.
Minimum temperature -24C. Same plant as JH-250-82.
Cuttings taken from one plant. Cultivated. Cuttings.

479611. Thermopsis lupinoides (L.) Link (Fabaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

JH-110-82. Japan. US National Arboretum. 51132. Sand
479611-continued

Dune near sea, Shunkunitai, Nemuro-shi, Nemuro Hanto, eastern Hokkaido. Lat. 43 deg. 18' N, Long. 145 deg. 36' E. Snow cover 50cm or deeper for 3 days. Minimum temperature -23°C. Seed collected from several plants. Wild. Seed.

479612. Thymus quinquecostatus Celak. (Lamiaceae).

Received February 1983.


479613. Tiarella polyphylla D. Don (Saxifragaceae).

Received February 1983.


479614 to 479617. Tilia japonica (Hig.) Simonk. (Tiliaceae).

Received February 1983.

479614 TO 479617-continued

**marker 320. Seed collected from a single tree. Wild. Seed.**


**479616. JH-318-82. Japan. US National Arboretum. 51337. Collected October 09, 1982. Along Kendo #1 Hwy, Kayanokogen, Aomori-shi, Aomori-ken, Honshu. 530m. Lat. 40 deg. 40' N, Long. 140 deg. 49' E. Snow 2-3m, 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Tree deciduous, 7.6m tall. Branches many, spreading, more or less globose habit, light brown lenticellate. Bark tight, light gray. Leaves dark green above, blue green beneath. Many specimen trees growing in a park. Wild. Seed.**


**479618 TO 479620. Tilia maximowicziana Shiras. (Tiliaceae).**


*Received February 1983.*

**479618. JH-3-82. Japan. US National Arboretum. 51022. Collected September 11, 1982. Togeshita near Rumoi-shi, Hokkaido. 342m. Lat. 43 deg. 53' N, Long. 141 deg. 49' E. Snow cover 50cm or more for 73 days. Minimum temperature -23C. Tree deciduous, to 7.6m. Leaves bright green above, silvery beneath. Growing on open NE hillside with Sasa, Acer and Alnus. Seeds from single tree. Wild. Seed.**


479621. Tofieldia nuda Maxim. (Liliaceae).


479622. Trapa incisa Sieb. & Zucc. (Trapaceae).


479623. Tricyrtis formosana Baker (Liliaceae).


479624. Tricyrtis hybrid (Liliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 11, 1982. Mitsukashi Dept. Store,
Muromachi, Nihomba-shi, Chud-ku, Tokyo. Plants purchased.
Received as Tricyrtis formosana x hirta. Cultivated.
Plants.

479625. Tricyrtis nana Yatabe (Liliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

Collected October 12, 1982. Mihonkaki Corp., 184
Tshigami, Kawaguchi, Saitama-ken, Central Honshu. Plants

479626. Trillium smallii Maxim. (Liliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

September 14, 1982. Kasai-Okuchi area, Hokkaido Univ.,
Teshio Fcrest, Horonobe-cho, Teshio-gun. 125m. Lat. 45
deg. 0' N, Long. 141 deg. 58' E. Snow cover 1-2m per
annum. Minimum temperature -17C. Growing on moist bank.
Wild. Plants.

479627. Trillium tschonoskii Maxim. (Liliaceae).

March, S.; Ohio Agricultural Research & Development
Center; US National Arboretum; Wooster, Ohio; Washington,
D.C.
Received February 1983.

479627-continued

479628. Tsuga diversifolia (Maxim.) Masters (Pinaceae) Japanese hemlock.

Received February 1983.


479629. Typha latifolia L. (Typhaceae).

Received February 1983.


479630. Ulmus sp. (Ulmaceae).

Received February 1983.

479631. **Vaccinium praestans** Lamb. (Ericaceae).


Received February 1983.


479632. **Vaccinium smallii** A. Gray (Ericaceae).


Received February 1983.


479633. **Vaccinium sp.** (Ericaceae).


Received February 1983.

479634 TO 479635. Viburnum dilatatum Thunb. (Caprifoliaceae) Linden viburnum.


Received February 1983.


479636 TO 479642. Viburnum furcatum Bl. ex Maxim. (Caprifoliaceae).


Received February 1983.


479643. Viburnum opulus var. calvescens (Rehd.) Hara (Caprifoliaceae).

Received February 1983.

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg. 14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum. Minimum temperature -30C. Shrub deciduous, multistemmed, 4.6m tall. Bark light gray. Leaves dull, dark green above. Fruit nearly globose, fleshy, dark red to purplish. Seed collected from one plant. Cultivated. Seed.

479644 TO 479646. Viburnum wrightii Hig. (Caprifoliaceae).
Received February 1983.


479647. Vitis coignetiae Pulliat. (Vitaceae).
Received February 1983.
479647-continued


479648 TO 479650. Weigela hortensis (Sieb. & Zucc.) K. Koch (Caprifoliaceae).

Received February 1983.


479651 TO 479652. Weigela middendorffiana (Carr.) K. Koch (Caprifoliaceae).

479651 TO 479652-continued

Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
Received February 1983.


From South Africa. Donated by Kilpatrick, R.A.; Small Grain Centre, Grain Crops Research Institute, Department of Agriculture; Bethlehem 9700.
Received September 1983.


From South Africa. Donated by Kilpatrick, R.A.; Small Grain Centre, Grain Crops Research Institute, Department of Agriculture; Bethlehem 9700.
Received September 1983.

From United States. Donated by Melvin, W.H.; Fruitland, Maryland. Received September 1983.


479705. Magnolia hybrid (Magnoliaceae).

From United States. Donated by National Arboretum, U.S.
479705-continued
Department of Agriculture; Washington, D.C.
Received August 1983.


479706. Magnolia virginiana var. australis Sargent (Magnoliaceae).

From United States. Donated by National Arboretum, U.S. Department of Agriculture; Washington, D.C.
Received August 1983.


479707 TO 479708. Platanus x acerifolia (Ait.) Willd. (Platanaceae).

From United States. Donated by National Arboretum, U.S. Department of Agriculture; Washington, D.C.
Received August 1983.

479707. NA 36539. 'Columbia'. P. orientalis (Turkey) x P. occidentalis (Maryland). Vigorous, single-stemmed, to 20m tall. Leaves distinctly 5-lobed. Fruit balls generally 2 or 3 per stalk, occasionally single or in 4's. Resistant to sycamore anthracnose disease and to trunk decay caused by wounds. Tree. Cultivar. Plants.

479708. NA 36537. 'Liberty'. P. orientalis (Turkey) x P. occidentalis (Maryland). Vigorous, single-stemmed, to 20m tall. Leaves remotely 5-lobed. Fruit balls generally 1 or 2 per stalk, sessile with short distance between balls. Resistant to sycamore anthracnose disease and to trunk decay caused by wounds. Tree. Cultivar. Plants.

479709 TO 479743. Glycine max (L.) Merr. (Fabaceae) Soybean.

From China, Peoples Repub of. Donated by Jilin Academy of Agricultural Sciences; Gongzhuling, Jilin Province.
Received through U.S. Delegation to PRC/USA Soybean Symposium of Changchun, July 1983. Code numbers refer to


479709 TO 479743-continued


From China, Peoples Repub of. Donated by Jilin Academy of Agricultural Sciences; Gongzhuling, Jilin Province. Received through U.S. Delegation to PRC/USA Soybean Symposium of Changchun, July 1983. Code numbers refer to Conservation designations. Received October 1983.


479754 TO 479756. Glycine max (L.) Merr. (Fabaceae) Soybean.

From China, Peoples Repub of. Donated by Hejiang Agricultural Research Institute; Jiamusi, Heilongjiang Province. Received through R.I. Bernard, Northern Soybean Collection, USDA-ARS, Univ. of Ill., Urbana. Received October 1983.


479757 TO 479759. Glycine max (L.) Merr. (Fabaceae) Soybean.

From China, Peoples Repub of. Donated by Mudanjiang Agricultural
479757 TO 479759—continued
Research Institute; Mudanjiang, Heilongjiang Province.
Received through R.I. Bernard, Northern Soybean
Collection, USDA-ARS, Univ. of Ill., Urbana.
Received October 1983.

479758. Mufu 80-3125. China, Peoples Repub of. Developed by
radiation breeding. Cultivar. Seed.
479759. Mufu 81-4220. China, Peoples Repub of. Developed by
radiation breeding. Cultivar. Seed.

479760 TO 479766. Glycine max (L.) Merr. (Fabaceae) Soybean.
From China, Peoples Repub of. Donated by Heilongjiang Academy of
Agricultural Sciences; Harbin, Heilongjiang Province.
Received through R.I. Bernard, Northern Soybean
Collection, USDA-ARS, Univ. of Ill., Urbana.
Received October 1983.


From China, Peoples Repub of. Donated by Heilongjiang Academy of
Agricultural Sciences; Harbin, Heilongjiang Province.
Received through R.I. Bernard, Northern Soybean
Collection, USDA-ARS, Univ. of Ill., Urbana.
Received October 1983.

479770. Calopogonium caeruleum (Benth.) Hemsl. (Fabaceae).

From Fiji. Donated by Animal Husbandry, Koronivia Research Station, Ministry of Agriculture and Fisheries; Nausori. Received August 1983.

Fiji. Seed.

479771. Desmodium adscendens (Sw.) DC. (Fabaceae) Beggarweed.

From Fiji. Donated by Animal Husbandry, Koronivia Research Station, Ministry of Agriculture and Fisheries; Nausori. Received August 1983.

Fiji. Received as D. ovalifolium. Seed.

479772. Desmodium heterophyllum (Willd.) DC. (Fabaceae).

From Fiji. Donated by Animal Husbandry, Koronivia Research Station, Ministry of Agriculture and Fisheries; Nausori. Received August 1983.


479773 TO 479774. Lycopersicon esculentum Mill. (Solanaceae) Tomato.

From Brazil. Donated by Da Costa, C.; University of Sao Paulo; Piracicaba. Received September 1983.


479775. Lycopersicon esculentum Mill. (Solanaceae) Tomato.

From Sweden. Donated by Weibulls; Landskrona. Received through O. Jahn, USDA-ARS, Northwest Plant Germplasm Repository, Corvallis, Oregon. Received September 1983.

'Ida'. Sweden. Leading cultivar for greenhouse
479775-continued

production in Scandinavian countries. Cultivar. Seed.

479776. Trigonella foenum-graecum L. (Fabaceae) Fenugreek.

From Egypt. Donated by Naguib, K.; Food and Dairy Research Laboratory, National Research Center; Cairo. Received through H.B. Shuyler, Agency for International Development, Washington, D.C.

Received October 1983.


479777 TO 479782. Triticum dicoccoides (Koern. ex Asch. & Graebn.) Aaronsohn (Poaceae) Wild emmer.

From Israel. Donated by Nevo, E.; Institute of Evolution, University of Haifa; Mount Carmel, Haifa 31 999.

Received October 1983.


From Italy. Donated by Instituto del Germoplasma, Consiglio Nazionale delle Ricerche; 70126 Bari.

Received June 1983.


479786. MG 31124. Ethiopia. Latitude: 09 deg 12 m N; Longitude:
479783 TO 479908—continued

479787. MG 31126. Ethiopia. Latitude: 09° 12' N; Longitude:

479788. MG 31131. Ethiopia. Latitude: 09° 13' N; Longitude:

479789. MG 31132. Ethiopia. Latitude: 09° 13' N; Longitude:

479790. MG 31133. Ethiopia. Latitude: 09° 13' N; Longitude:

479791. MG 31134. Ethiopia. Latitude: 09° 13' N; Longitude:

479792. MG 31135. Ethiopia. Latitude: 09° 13' N; Longitude:

479793. MG 31136. Ethiopia. Latitude: 09° 13' N; Longitude:

479794. MG 31137. Ethiopia. Latitude: 09° 13' N; Longitude:

479795. MG 31140. Ethiopia. Latitude: 09° 13' N; Longitude:

479796. MG 31141. Ethiopia. Latitude: 09° 13' N; Longitude:

479797. MG 31149. Ethiopia. Latitude: 09° 13' N; Longitude:

479798. MG 31150. Ethiopia. Latitude: 09° 13' N; Longitude:

479799. MG 31200. Ethiopia. Latitude: 09° 38' N; Longitude:
039° 22' E. Sel. from IDG 986. Collected December 07,


479783 TO 479908—continued


479783 to 479908—continued


479783 TO 479908-continued


479909 TO 480470. Triticum turgidum L. (Poaceae) Poulard wheat.

From Italy. Donated by Instituto del Germoplasma Consiglio Nazionale delle Ricerche; 70126 Bari.
Received June 1983.


479909 TO 480470—continued


479909 TO 480470—continued


<table>
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479909 TO 480470—continued


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479909 TO 480470—continued


479909 TO 480470-continued


479909 to 480470—continued


479909 TO 480470—continued


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475909 to 480470—continued


From Zambia. Donated by Mt. Makulu Research Station, Ministry of Rural Development; Chilanga. Received through W.W. Roath, Zambian Agricultural Research and Extension, Lusaka, Zambia.

Received October 1983.

480471. FS-a-3. Zambia. Cytoplasm male sterile used in commercial production. Cytoplasm unknown but perhaps natural occurring and identified from a Mozambique
480471 TO 480473-continued
collection. Cultivar. Seed.

of Alternaria and Septoria leaf spot diseases. Cultivar.
Seed.

480473. CCD82. Zambia. Composite. Resistant to Zambian strains
of Alternaria and Septoria leaf spot diseases. Cultivar.
Seed.


From United States. Collected by Starling, T.M.; Dept. of
Agronomy & Virginia Agricultural Station, Virginia
Polytechnic Institute & State University; Blacksburg,
Virginia.
Received October 1983.

Va. 79-54-254. 'Saluda'. United States. Va. 71-54-147 x
Coker 68-15. Maturity mid-season. Plants medium-short,
tillers profusely. Lodges under conditions of high
fertility. Spikes short, compact, awnleted with very
short tip awns. Chaff white. Seeds generally 3 per
spikelet, plump. Milling quality good. Baking quality
fair. Moderately resistant to powdery mildew, leaf rust.
Moderately susceptible to spindle streak virus.
Susceptible to stem rust and Hessian fly. Winter hardy
for the mid-Atlantic region. Cultivar. Seed.


From United States. Donated by National Small Grain Collection,
Germplasm Resources Laboratory, USDA-ARS; Beltsville,
Maryland.
Received October 1983.

Glumes white. Cultivated. Seed.


480475 TO 480481-continued


480482 TO 480486. Lupinus albus L. (Fabaceae) White lupine.

From Israel. Collected by Mattatia, J.; Plant Introduction Department, The Volcani Center; Bet-Dagan 50250. Received September 1983.


480487 TO 481476. Amaranthus sp. (Amaranthaceae).

From India. Donated by National Bureau of Plant Genetic Resources, IARI; New Delhi-PIN:110012. Received September 1983.

480487. IC-1838. India. Delhi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Ramdana. Primitive Cultivar. Seed.

480488. IC-5564-1. India. Poona. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Primitive Cultivar. Seed.

480489. IC-5574. India. Delhi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves
continued

used as vegetable and as purgative. Local name Ramdana.
Primitive Cultivar. Seed.

480490. IC-5575. India. Delhi. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Local name Ramdana.
Primitive Cultivar. Seed.

480491. IC-5626. India. Kulu. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Local name Siriana.
Primitive Cultivar. Seed.

480492. IC-5627. India. Kulu. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Local name Siriana.
Primitive Cultivar. Seed.

480493. IC-7916. India. Simla. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Ornamental. Local
name Bathu. Primitive Cultivar. Seed.

480494. IC-7919. India. Simla. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Ornamental. Local
name Bathu. Primitive Cultivar. Seed.

Popped seeds eaten with milk and sugar, sugar, or syrup.
Leaves used as vegetable and as purgative. Ornamental. Local
name Seol. Primitive Cultivar. Seed.

Popped seeds eaten with milk and sugar, sugar, or syrup.
Leaves used as vegetable and as purgative. Ornamental. Local
name Bathu. Primitive Cultivar. Seed.

480497. IC-7926. India. Sirmour. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Ornamental. Local
name Seol. Primitive Cultivar. Seed.

480498. IC-7928. India. Simla. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Ornamental. Local
name Bathu. Primitive Cultivar. Seed.

480499. IC-7932. India. Kinnaur. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Ornamental. Local
name Kalgi. Primitive Cultivar. Seed.
480500. IC-7933-B. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Kalgi. Primitive Cultivar. Seed.

480501. IC-7934. India. Andhra Pradesh. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Primitive Cultivar. Seed.

480502. IC-7935-C. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480503. IC-7941. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480504. IC-13382. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480505. IC-13383. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480506. IC-15564-1-A. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.


480509. IC-16639. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480510. IC-17454. India. Manipur. Collected by P.K. Arora. Used
for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.

480511. IC-17923. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used for vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480512. IC-17925. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480513. IC-17927. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480514. IC-17929. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480515. IC-17932. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480516. IC-17933. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480517. IC-17934. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480518. IC-17937. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480519. IC-17938. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480520. IC-17939. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480521. IC-17941. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480522. IC-17943. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480523. IC-17945. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480524. IC-17946. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480525. IC-17947. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480526. IC-17949. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480527. IC-17950. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480528. IC-17951. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480529. IC-17953. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480530. IC-17954. India. Simla. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480531. IC-17955. India. Simla. Used for baking bread. Popped
480487 to 481476—continued

seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480532. IC-17956. India. Simla. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480533. IC-18314. India. Sirmour. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480534. IC-18315. India. Sirmour. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480535. IC-18362. India. Sirmour. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480536. IC-18363. India. Mandi. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Seol. Primitive Cultivar. Seed.

480537. IC-18364. India. Mandi. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Seol. Primitive Cultivar. Seed.

480538. IC-18369. India. Kinnaur. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480541. IC-18373. India. Kinnaur. Used for baking bread. Popped
seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Fermented seeds used
as a beverage. Local name Kalgi. Primitive Cultivar. Seed.
480542. IC-18374. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480543. IC-18375. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480544. IC-18376. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480545. IC-18377. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480546. IC-18378. India. Kinnaur. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480547. IC-24206. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480548. IC-24266. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480549. IC-25783. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480550. IC-25784. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480551. IC-25786. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480552. IC-25787. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves
used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480553. IC-25788. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480554. IC-25789. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480555. IC-26269. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480556. IC-26273. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480557. IC-26684. India. Mandi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480558. IC-26692. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

480559. IC-26693. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.

480560. IC-26694. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.

480561. IC-31004. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.

480562. IC-31005. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.
480487 TO 481476-continued

480563. IC-31006. India. Lahaul. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Primitive Cultivar. Seed.


480572. IC-38043. India. Solan. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
IC-38045. India. Arki. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Primitive Cultivar. Seed.

IC-38046. India. Haryana. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Primitive Cultivar. Seed.

IC-38047. India. Kathal, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Local name Kalgi. Primitive Cultivar. Seed.

IC-38048. India. Chawai, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Local name Siriara. Primitive Cultivar. Seed.

IC-38049. India. Mansai, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Local name Siriara. Primitive Cultivar. Seed.

IC-38050. India. Manthl, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Local name Siriara. Primitive Cultivar. Seed.

IC-38051. India. Banjar, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Used to ward off birds in maize fields. Local name Siriara. Primitive Cultivar. Seed.


milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480590. IC-38060-1. India. Narkanda, Simla. Collected by B.D.
480487 TO 481476—continued
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480602. IC-38069-1. India. Markanda, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480607. IC-38086. India. Sarbati, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive


480616. IC-38094. India. Hawrabaagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480617. IC-38095. India. Seyalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480618. IC-38096. India. Seyalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480619. IC-38097. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480620. IC-38098. India. Seyalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480621. IC-38099. India. Seyalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480622. IC-38100. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480623. IC-38101. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480624. IC-38102. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

480625. IC-38103. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
480487 to 481476—continued

purgative. Local name Siriara. Primitive Cultivar. Seed.

480626. IC-38104. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480627. IC-38105. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480628. IC-38106. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480629. IC-38107. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480630. IC-38108. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480631. IC-38109. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480632. IC-38109-1. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480633. IC-38111. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480634. IC-38112. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480635. IC-38113. India. Manali, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.
480636. IC-38115. India. Manali, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480637. IC-38116. India. Shelagaon, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480638. IC-38117. India. Shelagaon, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480639. IC-38118. India. Shelagaon, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480640. IC-38119. India. Shelagaon, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480641. IC-38120. India. Shelagaon, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480643. IC-38121-1. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480646. IC-38123-1. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480648. IC-38125. India. Dhar, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480649. IC-38126. India. Dhar, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480650. IC-38127. India. Dhar, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480651. IC-38127-1. India. Chenota, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480652. IC-38129. India. Dhar, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480653. IC-38130. India. Shalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480654. IC-38131. India. Shalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480655. IC-38132. India. Shalbagh, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

480656. IC-38133. India. Shalbagh, Kulu. Collected by B.D. Joshi.
Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

480658. IC-38134-1. India. Chenota, Kulu. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Ornamental. Local name Siriara.
Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

480660. IC-38136. India. Shalbagh, Kulu. Collected by B.D. Joshi.
Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Siriara. Primitive Cultivar. Seed.
480666. IC-38142. India. Runbee, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480670. IC-38146. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480671. IC-38147. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480673. IC-38149. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480674. IC-38150. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480675. IC-38151. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480676. IC-38152. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480677. IC-38153. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480680. IC-38155-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480681. IC-38157. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480682. IC-38158. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480684. IC-38160. India. Bhunter, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480685. IC-38161. India. Bhunter, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480686. IC-38162. India. Bhunter, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480691. IC-38168. India. Soghi, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Bathu. Primitive Cultivar. Seed.


480694. IC-38171. India. Jatil, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480695. IC-38172. India. Jatil, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480696. IC-38173. India. Resardi, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480697. IC-38174. India. Resardi, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480703. IC-38180. India. Koti, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480704. IC-38181. India. Koti, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.


480708. IC-38184-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480710. IC-38185-1. India. Koti, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480711. IC-38187. India. Butore, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480712. IC-38187-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480713. IC-38188. India. Butore, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480714. IC-38189. India. Butore, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480715. IC-38189-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480716. IC-38190. India. Butore, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480717. IC-38190-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara.

480719. IC-38191-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480723. IC-38194. India. Matan, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480725. IC-38195. India. Dharampur, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480726. IC-38196. India. Changari, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480727. IC-38197. India. Kote, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
480487 TO 481476—continued


480730. IC-38199-1. India. Khanash, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480733. IC-38201-1. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.

480734. IC-38202-1. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480736. IC-38203-1. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480738. IC-38204-1. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480740. IC-38205-1. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480742. IC-38206-1. India. Kadi, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480762. IC-38228. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive
Cultivar. Seed.


480771. IC-38239. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as


480780. IC-38251. India. Sarhan, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480798. IC-38276-1. India. Kadi, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480800. IC-38277-1. India. Kadi, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480802. IC-38278-1. India. Kadi, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480804. IC-38279-1. India. Kadai, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480806. IC-38280-1. India. Kadai, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive
Cultivar. Seed.


480809. IC-38282-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480811. IC-38283-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480813. IC-38284-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480815. IC-38285-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
480487 TO 481476-continued


480818. IC-38287-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480820. IC-38288-1. India. Chaki, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480824. IC-38297-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


IC-38298-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


IC-38299-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


IC-38300-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


IC-38301-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480487 TO 481476—continued

Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.

480834. IC-38302-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480837. IC-38304-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480839. IC-38305-1. India. Bounda, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480841. IC-38306-1. India. Mandi, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.

480843. IC-38307-1. India. Sahgana, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480845. IC-38308-1. India. Sahganga, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480847. IC-38309-1. India. Sahganga, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480849. IC-38310-1. India. Sahganga, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.

480850. IC-38311. India. Sahgan, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive
480851. IC-38311-1. India. Sahganga, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480853. IC-38312-1. India. Sahganga, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480859. IC-38315-1. India. Sagan, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as


480868. IC-38320-1. India. Jareid, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480872. IC-38323-1. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.


480875. IC-38326. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480877. IC-38327. India. Kelodhar, Mandi. Collected by B.D.
480487 to 481476-continued

Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480878. IC-38327-1. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.

480879. IC-38328. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480882. IC-38331. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480883. IC-38331-1. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.

480884. IC-38332. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480885. IC-38332-1. India. Kelodhar, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Seol. Primitive Cultivar. Seed.
480886. IC-38334. India. Kulu, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Siriara. Primitive Cultivar. Seed.

480887. IC-38334-1. India. Dharam, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480889. IC-38335-1. India. Dharam, Kulu. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Siriara. Primitive Cultivar. Seed.


480898. IC-38348. India. Chiri, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480899. IC-38348-1. India. Karole, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Kalgi. Primitive Cultivar. Seed.


480902. IC-38350. India. Chiri, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.


Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.


IC-38352. India. Chiri, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

IC-38353. India. Chiri, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

IC-38353-1. India. Chiri, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

IC-38354. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38355. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38356. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38356-1. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38357. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38357-1. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480915. IC-38358. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480916. IC-38358-1. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480917. IC-38359. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480918. IC-38360. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480919. IC-38362. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480920. IC-38363. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480921. IC-38364. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480922. IC-38365. India. Churag, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480923. IC-38366. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480924. IC-38367. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
480487 TO 481476-continued

purgative. Local name Kalgi. Primitive Cultivar. Seed.

480925. IC-38370. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480926. IC-38371. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480927. IC-38372. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480928. IC-38374. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480929. IC-38375. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480930. IC-38377. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480931. IC-38378. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.

480932. IC-38379. India. Sorey, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Kalgi. Primitive Cultivar. Seed.


480934. IC-38382. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480936. IC-38384. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480937. IC-38385. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480938. IC-38386. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480939. IC-38387. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480940. IC-38388. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480942. IC-38390. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480943. IC-38391. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480945. IC-38393. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.
IC-38394. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38395. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38396. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38397. India. Karsog, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38398. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38399. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38400. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38401. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38403. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38404. India. Taban, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

IC-38415. India. Memel, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
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purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
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purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
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purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
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purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
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purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Local name Seol. Primitive Cultivar. Seed.
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<th>Location</th>
<th>Collector</th>
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<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative.</td>
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sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480978. IC-38444. India. Kotalu, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480979. IC-38445. India. Kotalu, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480980. IC-38446. India. Kotalu, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480981. IC-38447. India. Kotalu, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.

480982. IC-38448. India. Kotalu, Mandi. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Seol. Primitive Cultivar. Seed.


480487 TO 481476—continued

Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


480992. IC-38490. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480993. IC-38491. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480994. IC-38493. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480995. IC-38494. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.
480996. IC-38495. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480997. IC-38496. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480998. IC-38497. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

480999. IC-38498. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481000. IC-38499. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481001. IC-38500. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481002. IC-38501. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481003. IC-38504. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481004. IC-38505. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage.
480487 TO 481476-continued

Local name Kalgi. Primitive Cultivar. Seed.

481005. IC-38506. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481006. IC-38507. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481007. IC-38508. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481008. IC-38509. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481009. IC-38510. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481010. IC-38513. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481011. IC-38515. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481012. IC-38516. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Kalgi. Primitive Cultivar. Seed.

481013. IC-38517. India. Sangla, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable
480487 to 481476—continued

and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481014. IC-38518. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481015. IC-38519. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481016. IC-38520. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481017. IC-38521. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481018. IC-38522. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

481019. IC-38523. India. Sangla, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Fermented seeds used as a beverage.
Local name Kalgi. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Dhankar. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Dhankar. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.


480487 TO 481476-continued

Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.


1804 TO 481476—continued


Dhankar. Primitive Cultivar. Seed.


481057. IC-38573. India. Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as
480487 TO 481476—continued

purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481058. IC-38576. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481059. IC-38577. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481060. IC-38578. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481061. IC-38579. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481062. IC-38580. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481063. IC-38581. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481064. IC-38582. India, Kalpa, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481065. IC-38583. India, Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481066. IC-38584. India, Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481067. IC-38585. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481068. IC-38586. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481069. IC-38587. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481070. IC-38589. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481071. IC-38590. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481072. IC-38591. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481073. IC-38592. India. Pangi, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Dhankar. Primitive Cultivar. Seed.

481074. IC-38593. India. Pagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

480487 to 481476-continued

Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481076. IC-38595. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481077. IC-38596. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481078. IC-38597. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481079. IC-38598. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481080. IC-38599. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481081. IC-38601. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481082. IC-38602. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.

481083. IC-38603. India. Fagu, Simla. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Fermented seeds used as a beverage. Local name Bathu. Primitive Cultivar. Seed.
Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Bathu. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Bathu. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Bathu. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Bathu. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Bathu. Primitive Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Ornamental. Local name Bathu. Primitive
Cultivar. Seed.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Ornamental. Local name Bathu. Primitive
Cultivar. Seed.

481091. IC-38612. India. Kinnaur, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Ornamental. Local name Kalgi. Primitive
Cultivar. Seed.

481092. IC-38613. India. Kinnaur, Kinnaur. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Ornamental. Local name Kalgi. Primitive
Cultivar. Seed.


milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Bathu. Primitive Cultivar. Seed.


48119. IC-38659. India. Palampur, Kangra. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Sil. Primitive Cultivar. Seed.


481136. IC-42267-1. India. Dhangri, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local


481145. IC-42268-2. India. Dhangri, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable


IC-42269-2. India. Dhangri, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481163. IC-42271-8. India. Sunargaon, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.

IC-42272-1. India. Sunargaon, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


IC-42273-1. India. Sunargaon, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


IC-42274-1. India. Sunargaon, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481180. IC-42274-15. India. Sunargaon, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.


481189. IC-42276-3. India. Bhatkot, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable


milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


Primitive Cultivar. Seed.


481233. IC-42279-3. India. Bhatkot, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable
480487 TO 481476—continued

and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481234. IC-42279-4. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481235. IC-42279-5. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481236. IC-42279-6. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481237. IC-42279-7. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481238. IC-42279-8. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481240. IC-42279-10. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481241. IC-42279-11. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.

481242. IC-42280-2. India. Bhatkot, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481268. IC-42281-19. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local


IC-42282-9. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable


481279. IC-42283-1. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481286. IC-42283-8. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


**481288.** IC-42284-1. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


**481295.** IC-42284-10. India. Tungar, Pauri. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481312. IC-42285-10. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local
name Marchu. Primitive Cultivar. Seed.


481321. IC-42286-7. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable


<table>
<thead>
<tr>
<th>ID</th>
<th>Locality</th>
<th>Cultivar Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
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<td>481331</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481332</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481333</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481334</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481335</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481336</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481337</td>
<td>India, Tungar, Pauri</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481338</td>
<td>India, Tungar, Tungar</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481339</td>
<td>India, Tungar, Tungar</td>
<td>Collected by B.D. Joshi</td>
<td>Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
</tbody>
</table>
480487 TO 481476-continued

Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481356. IC-42292-3. India. Tungar, Tungar. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local
<table>
<thead>
<tr>
<th>Code</th>
<th>Origin</th>
<th>Variety</th>
<th>Collection</th>
<th>Uses</th>
<th>Additional Information</th>
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<tr>
<td>481357</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481358</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481359</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481360</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481361</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481362</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
<tr>
<td>481363</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.</td>
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<td>481364</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.</td>
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<tr>
<td>481365</td>
<td>India</td>
<td>Tungar</td>
<td>B.D. Joshi</td>
<td>Baking bread</td>
<td>Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.</td>
</tr>
</tbody>
</table>
480487 TO 481476-continued

and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


481368. IC-42294-1. India. Tungar, Pauri. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


481374. IC-42296. India. Pondukesar, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


481379. IC-42307-1. India. Govindghat, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


481383. IC-42307-5. India. Govindghat, Chamoli. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.

IC-42308-1. India. Govindghat, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


IC-42309-1. India. Govindghat, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Ornamental. Local name Marchu. Primitive Cultivar. Seed.


481400. IC-42313-4. India. Govindghat, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local
480487 TO 481476-continued

name Marchu. Primitive Cultivar. Seed.


481409. IC-42313-14. India. Govindghat, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as
vegetable and as purgative. Dried stems burned (folklore). Local name Harchu. Primitive Cultivar. Seed.


481418. IC-42314-6. India. Pirola, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481427. IC-42315-9. India. Pirola, Chamoli. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local name Marchu. Primitive Cultivar. Seed.


481444. IC-42318-1. India. Pirola, Chamoli. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Dried stems burned (folklore). Local


481453. HAC-13. India. Kinnaur, Kinnaur. Collected by B.D. Joshi. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as


481462. EC-16616. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481463. EC-18602. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481464. EC-18626. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.
481465. EC-18696. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481466. EC-18717. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481467. EC-18765. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481468. EC-18862. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481469. EC-18874. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481470. EC-19363. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481471. EC-21260. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481472. EC-24260. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.

481473. EC-24262. Nepal. Used for baking bread. Popped seeds eaten with milk and sugar, sugar, or syrup. Leaves used as vegetable and as purgative. Local name Latare. Primitive Cultivar. Seed.


From Israel. Donated by Gerechter-Amitai, Z.; Institute of Field & Garden Crops, The Volcani Center; Bet-Dagan 50-250. Received through Binational Agric. Research Development Projects (BARD) I-63-79 and I-365-81. Received November 1983.

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481540. Arachis hypogaea L. (Fabaceae) Peanut.

From India. Donated by Mouli, C.; Biology and Agriculture Division, Bhabha Atomic Research Center; Trombay, Bombay 400.085.

Received November 1983.

TG-18A. India. Mutant from irradiated Trombay Groundnut.


From United States. Donated by Bruns, C.; North American Plant Breeders; Berthoud, Colorado. Received November 1983.


From China, Peoples Repub of. Donated by Zhao, Y.; Jiangsu Academy of Agricultural Sciences; Nanjing, Jiangsu Province. Received through J.M. Foehlman, Dept. of Agronomy, Univ. of Missouri, Columbia. Received October 1963.


481545 TO 481560. Lupinus albus L. (Fabaceae) White lupine.

From Soviet Union. Donated by N. I. Vavilov Institute of Plant Industry; Leningrad. Received December 1983.

481553. VIR 1662. Hadmerslebener Nahrguell. German Democratic
481545 TO 481560—continued

481554. VIR 1801. Petkuser Bittere Weislupine. German Democratic

481555. VIR 1813. Weise Bitterlupine. German Democratic Repub.
Cultivated. Seed.


From Iraq. Donated by Sharif, A.T.; Plant Genetic Resources
Division, Botany Directorate, Ministry of Agriculture and
Agrarian Reform; Abu-Ghraib, Iraq. Received through
International Board for Plant Genetic Resources (IBPGR),
Rome, Italy.
Received January 1983.


481561 TO 481579—continued


481580 TO 481593. Triticum durum Desf. (Poaceae) Durum Wheat.

From Iraq. Donated by Sharif, A.T.; Plant Genetic Resources Division, Botany Directorate, Ministry of Agriculture and Agrarian Reform; Abu-Ghraib, Iraq. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.

481594 TO 481610. Amaranthus sp. (Amaranthaceae).

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481601. 228. Bhutan. Latitude: 27 deg 40 m N; Longitude: 091 deg 10 m E. Collected September 17, 1981. Farm store and garden, Khampong, Lhuntshi District. 1800m. Sown April,
481594 TO 481610-continued


481606. 403. Bhutan. Latitude: 27 deg 31 m N; Longitude: 090 deg 48 m E. Collected September 28, 1981. Garden, Yak and sheep research farm, 13km from Jakar Dzong, Jakar District. 2500m. Local original source. Seeds both red and white. Cultivated. Seed.


481608. 447. Bhutan. Latitude: 27 deg 33 m N; Longitude: 089 deg 40 m E. Garden, Decheling, 1 km N of Dechlencholing Palace, Thimphu Valley. 2200m. Local original source. Sown April, harvested October. Local names Sinichikap and Sinichinap. Cultivated. Seed.


481610. 467. Bhutan. Latitude: 27 deg 23 m N; Longitude: 089 deg
481594 TO 481610-continued

481611 TO 481617. Cucumis sativus L. (Cucurbitaceae) Cucumber.

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481617. 457. Bhutan. Latitude: 27 deg 27 m N; Longitude: 089 deg 40 m E. Collected October 02, 1981. Farm store, Luntiphu, Thimphu valley. 2150m. Local original source. Sown April,
481611 TO 481617-continued


481618 TO 481627. Cucurbita pepo L. (Cucurbitaceae).

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IEPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481622. 235. Bhutan. Latitude: 27 deg 40 m N; Longitude: 091 deg 10 m E. Collected September 17, 1981. Farm store and garden 1 km SW from Lhuntshi Dzong, Lhuntshi District. 1800m. Local original source. Sown April, harvested August-September. Fruits small, round with white or green rind. Local name Haushar. Cultivated. Seed.

481623. 236. Bhutan. Latitude: 27 deg 40 m N; Longitude: 091 deg 10 m E. Collected September 17, 1981. Farm store and garden 1 km SW from Lhuntshi Dzong, Lhuntshi District. 1800m. Originally from Thimphu. Sown April, harvested August-September. Fruits very large (20kg or more), less favorable than PI 481622, used for animal feed. Cultivated. Seed.


481628 TO 481643. Fagopyrum esculentum Moench (Polygonaceae) Buckwheat.

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481632. 35. Bhutan. Latitude: 27 deg 16 m N; Longitude: 089 deg 21 m E. Collected August 29, 1981. Farm store, Lamchi,
481628 TO 481643—continued

Paro District, Dunj Ramjam division. 2650m. Local original source. Sown June-July, harvested September-October. Local name Gereh. Cultivated. Seed.


481641. 330. Bhutan. Latitude: 27 deg 17 m N; Longitude: 091 deg 13 m E. Collected September 19, 1981. Farm store,
Phossang block, Mongor District. 1700m. Local original source. Sown first week September, harvested December. Local name Braima Guele. Cultivated. Seed.


481644 TO 481675. Fagopyrum tataricum (L.) Gaertn. (Polygonaceae).

From Bhutan. Collected by Croston, B.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481644 to 481675—continued

Local name Brama. Cultivated. Seed.


481675. 463. Bhutan. Latitude: 27 deg 23 m N; Longitude: 089 deg 37 m E. Collected October 02, 1981. Farm store, Namseling, Thimpu valley, Thimphu District. 2150m. Local original source. Sown February, harvested May. Local name
481644 to 481675—continued

481676 to 481691. *Glycine max* (L.) Merr. (Fabaceae) Soybean.

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481682. 254. Bhutan. Latitude: 27 deg 41 m N; Longitude: 091 deg 11 m E. Collected September 17, 1981. Farm store, Bordapang, Lhuntshi District. 1350m. Local original source. Sown March, harvested May. Seeds white. Local
name Shaaling Kharti. Cultivated. Seed.


**481691.** 442. Bhutan. Latitude: 27 deg 34 m N; Longitude: 091 deg 37 m E. Collected October 02, 1981. Farm store, Kabgesa, 1.5km N of Dechtencholing, Thimphu valley. 2200m. Local
481692 TO 481697. *Lablab purpureus* (L.) Sweet (Fabaceae) Hyacinth bean.

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR, Department of Agriculture. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481696. 249. Bhutan. Latitude: 27 deg 40 m N; Longitude: 091 deg 10 m E. Collected September 17, 1981. Farm store, Khompang, Lhuntshi District. 1800m. Local original source. Sown April, harvested October-November. Local name Patans Shpe. Received as *Lablab niger*. Cultivated. Seed.

481697. 390. Bhutan. Latitude: 27 deg 37 m N; Longitude: 091 deg 31 m E. Collected September 21, 1981. Farm store, Rijigang, Tashigang District. 1750m. Local original source. Sown April, harvested November. Local name Cha Shepai. Received as *Lablab niger*. Cultivated. Seed.

481698 TO 481699. *Luffa* sp. (Cucurbitaceae).

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR;
481698 TO 481699—continued
Department of Agriculture; Rome, Italy; Thimphu, Bhutan.
Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy.
Received May 1982.


481700 TO 481705. Perilla frutescens (L.) Britt (Lamiaceae) Perilla.

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan.
Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy.
Received May 1982.


481704. 448. Bhutan. Latitude: 27 deg 27 m N; Longitude: 089 deg
481700 TO 481705-continued
40 m E. Collected October 02, 1981. Farm store, Luntiphu, Thimphu District. 2150m. Sown April, harvested October. Local name Zintshinan. Cultivated. Seed.


481706 TO 481707. Saccharum sp. (Poaceae).

From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy, Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.

481706. 400. Bhutan. Latitude: 27 deg N; Longitude: 091 deg E. Collected September 24, 1981. Alluvial Island, Samdrup Jongkhor, 0.5km upstream from river bridge. 300m. Plants 1-3m tall. Stems 5-12mm in diameter with heavy wax deposit at nodes. Inflorescence white. Received as unknown grass. Wild. Seed.


From Bhutan. Collected by Croston, R.P.; Dorji, T.; IBPGR; Department of Agriculture; Rome, Italy; Thimphu, Bhutan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received May 1982.


481732. Mozambique. Collected by Perret, P.M.; Malithano, A.D.; Rao, V.R.; IBPGR; National Inst. of Res. in Agronomy; International Crops Res. Inst. for the Semi-Arid Tropics; Rome, Italy; Maputo, Mozambique; Patancheru, India. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received September 1981.


481734. RPM 004. Mozambique. Collected April 1981. Field, 32km from Nampula to Corrane, Nampula Province. Plants erect,
481732 TO 481814-continued
bunch type. Local name Native. Cultivar. Seed.


481732 to 481814—continued

with runners. Local name Aamendoim. Cultivar. Seed.


481773. RPM 069. Mozambique. Collected April 1981. Field,
Chalapla, Zambezia Province. Local name Fejo gogo. Cultivar. Seed.


481786. RPM 094. Mozambique. Collected April 1981. Field,
481732 to 481814—continued


481732 TO 481814—continued


481815 TO 481827. Pennisetum americanum (L.) Leeke (Poaceae) Pearl millet.

From Mozambique. Collected by Perret, P.M.; Malithano, A.D.; Rao, V.R.; IBPGR; National Inst. of Res. in Agronomy; International Crops Res. Inst. for the Semi-Arid Tropics; Rome, Italy; Maputo, Mozambique; Patancheru, India. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received September 1981.


481822. RPM 137. Mozambique. Collected April 1981. Field,
481815 TO 481827-continued


481828 TO 481850. Sorghum bicolor (L.) Moench (Poaceae) Grain sorghum.

From Mozambique. Collected by Perret, P.M.; Malithano, A.D.; Pao, V.R.; IBPGR; National Inst. of Res. in Agronomy; International Crops Res. Inst. for the Semi-Arid Tropics; Rome, Italy; Maputo, Mozambique; Patancheru, India. Received through International Board for Plant Genetic Resource (IBPGR), Rome, Italy. Received September 1981.


481851. Lupinus albus L. (Fabaceae) White lupine.

From Israel. Donated by Plant Introduction Department, The Volcani Center; Bet-Dagan 50250.
Received September 1983.

18A. Israel. Cultivated. Seed.


From United States. Donated by Lafever, H.W.; Department of Agronomy, Ohio Agricultural Research and Development Center; Wooster, Ohio.
Received October 1983.


481853. Nicotiana rustica L. (Solanaceae).

From Turkey. Donated by Tobacco Laboratory, USDA-ARS; Beltsville, Maryland, USA.
Received December 1983.

481854 TO 481868. Nicotiana tabacum L. (Solanaceae) Tobacco.

From Turkey. Donated by Tobacco Laboratory, USDA-ARS; Beltsville, Maryland, USA.
Received December 1983.


481869 TO 481870. Amaranthus sp. (Amaranthaceae).

From Sudan. Collected by Croston, R.P.; El Ahmadi, A.E.; IBPGE;
481869 TO 481870-continued
Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.

481869. 120. Sudan. Latitude: 12 deg 51 m N; Longitude: 024 deg 23 m E. Collected November 06, 1981. Irrigated wheat field, Gur Lambang, Jebel Marra, Darfur Province. 2000m. Wild/Weedy. Seed.

481870. 163. Sudan. Latitude: 12 deg 57 m N; Longitude: 024 deg 10 m E. Collected November 11, 1981. Irrigated sorghum field, Beldong, Jebel, Darfur Province. 1300m. Wild/Weedy. Seed.


From Sudan. Collected by Croston, R.P.; El Ahaadi, A.B.; IBPGR; Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.


481872 TO 481873. Oryza sp. (Poaceae).

From Sudan. Collected by Croston, R.P.; El Ahmadi, A.E.; IBPGR; Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.


481874 TO 481879. Sesamum indicum L. (Pedaliaceae) Sesame.

From Sudan. Collected by Croston, R.P.; El Ahmadi, A.E.; IBPGR;
481874 TO 481879-continued
Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.


481880 TO 481914. Sorghum bicolor (L.) Moench (Poaceae) Sorghum.
From Sudan. Collected by Croston, R.P.; El Ahmadi, A.B.; IBPGR; Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.


481884. 108. Sudan. Latitude: 13 deg 05 m N; Longitude: 024 deg 17 m E. Collected November 01, 1981. Millet field, 2km W from Jebel Marra, Darfur Province. 1900m. Original local source. Cultivated. Seed.


481891. 150. Sudan. Latitude: 12 deg 44 m N; Longitude: 024 deg 16 m E. Collected November 10, 1981. Kalo Kittins, Jebel


481895. 162. Sudan. Latitude: 12 deg 57 m N; Longitude: 024 deg 10 m E. Collected November 11, 1981. Beldong, Jebel Marra, Darfur Province. 1300m. Local original source. Plants highly diverse with different heights, head shapes, and seed colors. Cultivated. Seed.

481896. 164. Sudan. Latitude: 12 deg 57 m N; Longitude: 024 deg 10 m E. Collected November 11, 1981. East 1.5km from Beldons, Jebel Marra, Darfur Province. 1300m. Local original source. Sown August, harvested November. Enclosed seeds with various colors. Cultivated. Seed.

481897. 166. Sudan. Latitude: 12 deg 57 m N; Longitude: 024 deg 10 m E. Collected November 11, 1981. East, 1.5km from Beldong, Jebel Marra, Darfur Province. 1300m. Local original source. Sown August, harvested November. Farmer selectively harvested, stacked for drying. Cultivated. Seed.

481898. 169. Sudan. Latitude: 12 deg 57 m N; Longitude: 024 deg 09 m E. Collected November 10, 1981. West, 0.5km from Beldong, Jebel Marra, Darfur Province. 1200m. Local original source. Sown August, harvested November. Cultivated. Seed.


481902. 177. Sudan. Latitude: 13 deg 27 m N; Longitude: 022 deg 30 m E. Collected November 13, 1981. East, 8km from Genena, Jebel Marra, Darfur Province. 750m. Plants 2m tall, some goosenecked red types. Sown August, harvested November. Cultivated. Seed.


481906. 190-1. Sudan. Latitude: 13 deg 10 m N; Longitude: 022 deg 49 m E. Collected November 15, 1981. South, 26km from Noori, Jebel Marra, Darfur Province. 800m. Local original source. Plants 2-2.5m tall, sweet stem type. Sown August, harvested mid-November. Cultivated. Seed.

481907. 192. Sudan. Latitude: 12 deg 57 m N; Longitude: 022 deg 50 m E. Collected November 15, 1981. Mourni, Jebel Marra, Darfur Province. 900m. Local original source. Plants 3-3.5m tall, some with 3 to 7 heads. White and red seeded types and weedy, white, red, and black seeded free threshing types. Sown in June, harvested end of November. Cultivated. Seed.

481908. 193. Sudan. Latitude: 12 deg 57 m N; Longitude: 022 deg 52 m E. Collected November 15, 1981. East, 1 km of Mourni, Jebel Marra, Darfur Province. 900m. Local original source. Maturity 150 days, sown June, harvested November. Twin seeded, white type. Cultivated. Seed.

481909. 195. Sudan. Latitude: 12 deg 47 m N; Longitude: 022 deg
481880 TO 481914-continued


481912. 207. Sudan. Latitude: 12 deg 30 m N; Longitude: 022 deg 39 m E. Collected November 16, 1981. West, 3km of Wadi Azum, S Darfur Province. 700m. Plants 1.5-3m tall, cultivated and weedy types. Cultivated. Seed.


From Sudan. Collected by Croston, R.P.; El Ahmadi, A.B.; IBPGR; Agricultural Research Corporation; Rome, Italy; Wad Medani, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome Italy. Received May 1982.


481916. 109. Sudan. Latitude: 13 deg 05 m N; Longitude: 024 deg 17 m E. Collected November 02, 1981. West, 2km from Kelling, Jebel Marra, Darfur Province. 1900m. Local original source. Sown August, harvested November. Heads awned and awnless with white and brown glumes. Brown type less than 1 percent. Cultivated. Seed.
481915 TO 481931—continued

481917. 110. Sudan. Latitude: 13 deg 05 m N; Longitude: 024 deg 17 m E. Collected November 02, 1981. West, 2km from Kelling, Jebel Marra, Darfur Province. 1900m. Local original source. Sown August, harvested November. Brown-glummed type less than 1 percent. Cultivated. Seed.


481923. 123. Sudan. Latitude: 12 deg 51 m N; Longitude: 024 deg 23 m E. Collected November 06, 1981. West, 1 km from junction to Gur Lambang, Jebel Marra, Darfur Province. 2100m. Local original source. Sown August, harvested November. Cultivated. Seed.


481925. 125. Sudan. Latitude: 12 deg 54 m N; Longitude: 024 deg 19 m E. Collected November 06, 1981. Gulobei, Jebel Marra, Darfur Province. 2300m. Local original source.
481915 TO 481931—continued

481926. 126. Sudan. Latitude: 12 deg 54 m N; Longitude: 024 deg 19 m E. Collected November 06, 1981. Seven km from Gur Lambeng junction, Jebel Marra, Darfur Province. 2350m. Sown in August, harvested end of November. Maturity somewhat variable. Heads mainly awned, some awnless. Cultivated. Seed.

481927. 127. Sudan. Latitude: 12 deg 55 m N; Longitude: 024 deg 18 m E. Collected November 06, 1981. South, 1 km from Toron Tonga, Jebel Marra, Darfur Province. 2300m. Local original source. Cultivated. Seed.


481932 TO 481939. Sorghum bicolor (L.) Moench (Poaceae) Sorghum.

From Sudan. Donated by Harvey, J.; Jebel Marra Rural Development Project; Khartoum, Sudan. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received August 1983.

481932. H 001. Sudan. Latitude: 12 deg 20 m N; Longitude: 023 deg 08 m E. Collected December 07, 1981. Field, Paya, S Darfur Province. 950m. Maturity 120 days, sown late June to late July, harvested October to late November. Cultivated. Seed.

481933. H 002. Sudan. Latitude: 12 deg 20 m N; Longitude: 023
481932 TO 481939—continued


481940 TO 481946. *Leucaena leucocephala* (Lam.) de Wit (Fabaceae)

Leadtree.

From Japan. Donated by National Grassland Research Institute, Ministry of Agriculture, Forestry & Fisheries; Nishinasuno, Tochigi. Received November 1983.


481947 to 481972. Amaranthus caudatus L. (Amaranthaceae).

From United States. Collected by Feine-Dudley, L.; Rodale Research Center; Kutztown, Pennsylvania. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Code numbers refer to collector's field designations. Received October 1982.


481947 TO 481972-continued

white. Consumed toasted for breakfast and used for flour. Local name Achis. Cultivated. Seed.


Continued


481986. TGR 1215. Zimbabwe. Latitude: 18 deg 36 m S; Longitude: 032 deg 05 m E. Collected June 01, 1982. Farmstore, 6km E of Tsanzaguru BC, Midlands Province. 1320m. Cultivated. Seed.
481973 TO 482043—continued


481997. TGR 1518. Zimbabwe. Latitude: 17 deg 33 m S; Longitude: 029 deg 38 m E. Collected June 16, 1982. Farmstore, N of


482008. TGR 1675. Zimbabwe. Latitude: 17 deg 07 m S; Longitude:


482029. TGR 1954. Zimbabwe. Latitude: 16 deg 37 m S; Longitude: 031 deg 45 m E. Collected July 03, 1982. Farmstore, E of
481973 TO 482043—continued

Chawanda BC, Mashonaland Central Province. 980m. Cultivated. Seed.


482034. TGR 1985A. Zimbabwe. Latitude: 16 deg 33 m S; Longitude: 031 deg 34 m E. Collected July 04, 1982. Farmstore, 1 km W of Dotito BC, Mashonaland Central Province. 990m. Pods split into more than five sections. Cultivated. Seed.


### 482048. TGR 540. Zimbabwe. Latitude: 19 deg 33 m S; Longitude: 032 deg 34 m E. Collected May 07, 1982. Backyard, 1.7km W of Nhodziwa BC, Manicaland Province. 1030m. Leaves used
482044 TO 482056-continued


482057 TO 482059. Amaranthus spinosus L. (Amaranthaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.
482057 TO 482059-continued


482060 TO 482242. Arachis hypogaea L. (Fabaceae) Peanut.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482064. TGR 24. Zimbabwe. Latitude: 17 deg 32 m S; Longitude: 031 deg 17 m E. Collected April 08, 1982. Farmland, 1.6km


**482067. TGR 51. Zimbabwe. Latitude: 20 deg 12 m S; Longitude: 030 deg 26 m E. Collected April 14, 1982. Farmstead, 9km W of Chibi Do, Chibi District, Victoria Province. 950m. Sown November, harvested February. Mixture of two pod types - Chiburandaya; usually two seeded, and Mutatu, more than two seeded. Cultivated. Seed.**


482060 TO 482242—continued

S of Kyle Dam Wall, Victoria Province. 700m. Sown December, harvested April. Local name Chinjanjani. Cultivated. Seed.


482060 TO 482242-continued


482116. TGR 776. Zimbabwe. Latitude: 18 deg 54 m S; Longitude: 031 deg 02 m E. Collected May 20, 1982. Farmstore, 1 km W
of All Saints School, Midlands Province. 1490m. Sown
November. Local name Chinandara. Cultivated. Seed.

48217. TGR 779. Zimbabwe. Latitude: 18 deg 54 m S; Longitude:
031 deg 02 m E. Collected May 20, 1982. Farmstore 1 km W
of all Saints School, Midlands Province. 1490m. Sown
November. Local name Kasawaya. Cultivated. Seed.

48218. TGR 788. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, 9km W
of Sadza, Midlands Province. 1420m. Local name Chidonono.
Cultivated. Seed.

48219. TGR 789. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, 9km W
of Sadza BC, Midlands Province. 1420m. Local name

48220. TGR 790. Zimbabwe. Latitude: 18 deg 54 m S; Longitude:
031 deg 27 m E. Collected May 20, 1982. Farmstore, Sadza
BC, Midlands Province. 1340m. Sown November, harvested
May. Local name Kaboko. Cultivated. Seed.

48221. TGR 796. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Local name Cibhurandaya.
Cultivated. Seed.

48222. TGR 803. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Sown November. Local name

48223. TGR 804. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Sown November. Red and white
specks on seed. Cultivated. Seed.

48224. TGR 805. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Local name Kaboko. Cultivated.
Seed.

48225. TGR 806. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Sown November. Local name


48227. TGR 814. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
Midlands Province. 1420m. Local name Kasawaya. Cultivated.


482138. TGR 879. Zimbabwe. Latitude: 18 deg 12 m S; Longitude:
482060 TO 482242—continued


482159. TGR 976. Zimbabwe. Latitude: 18 deg 53 m S; Longitude: 031 deg 24 m E. Collected May 20, 1982. Farmstore, Sadza,
482060 TO 482242-continued

Midlands Province. 1420m. Local name Chivende. Cultivated.
Seed.

482160. TGB 981. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, 4km
from Sadza, Midlands Province. 1420m. Local name Kopoko.
Cultivated. Seed.

482161. TGB 985. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, 8km NE
of Sadza, Midlands Province. 1420m. Local name Cibrandai.
Cultivated. Seed.

482162. TGB 986. Zimbabwe. Latitude: 18 deg 53 m S; Longitude:
031 deg 24 m E. Collected May 20, 1982. Farmstore, 6km NE
of Sadza, Midlands Province. 1420m. Local name Hutonono.
Cultivated. Seed.

482163. TGB 996. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Cultivated. Seed.

482164. TGB 997. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Seeds red with
white markings. Cultivated. Seed.

482165. TGB 1000. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Local name

482166. TGB 1003. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Local name

482167. TGB 1004. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Local name

482168. TGB 1010. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Local name

482169. TGB 1014. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km
from Mupatsi, Midlands Province. 1200m. Local name
Chisvina. Cultivated. Seed.

482170. TGB 1015. Zimbabwe. Latitude: 19 deg 02 m S; Longitude:
482060 TO 482242—continued

031 deg 28 m E. Collected May 20, 1982. Farmstore, 5km from Mupatsi, Midlands Province. 1200m. Local name Kasawaya. Cultivated. Seed.


482060 TO 482242—continued


482201. TGR 1494. Zimbabwe. Latitude: 17 deg 45 m S; Longitude:
482060 TO 482242-continued


482210. TGR 1596. Zimbabwe. Latitude: 17 deg 46 m S; Longitude: 030 deg 17 m E. Collected June 18, 1982. Farmstore, 2km E
482060 TO 482242-continued

of Madzima BC, Mashonaland West Province. 1300m. Sown November, harvested April. Local name Tumbe. Cultivated. Seed.


482238. TGR 1998. Zimbabwe. Latitude: 16 deg 31 min S; Longitude:
482060 TO 482242—continued


482243 TO 482245. Celosia trigyna L. (Amaranthaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482246 to 482381. Citrullus lanatus (Thunb.) Matsum. & Nakai (Cucurbitaceae) Watermelon.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482246 to 482381—continued

Cultivated. Seed.


482265. TGR 273. Zimbabwe. Latitude: 20 deg 33 m S; Longitude: 030 deg 42 m E. Collected April 26, 1982. Farmland, 13km S of Turgwana Bridge, Victoria Province. 760m. Flesh bitter, cooked, and eaten, also fed to animals. Cultivated. Seed.


482272. TGR 326. Zimbabwe. Latitude: 20 deg 24 m S; Longitude: 031 deg 27 m E. Collected April 30, 1982. Farmstore, 7km...
482246 TO 482381—continued

S of Zaka, Victoria Province. 680m. Cultivated. Seed.


482283. TGR 649. Zimbabwe. Latitude: 20 deg 26 m S; Longitude:
482246 TO 482381—continued
032 deg 45 m E. Collected May 11, 1982. Backyard, 8.3km S of Mt. Selinda Mission, Manicaland Province. 860m. Flesh bitter, cooked. Also fed to animals. Cultivated. Seed.


482293. TGR 711. Zimbabwe. Latitude: 18 deg 40 m S; Longitude:


482323. **TGR 925. Zimbabwe.** Latitude: 19 deg 14 m S; Longitude: 029 deg 58 m E. Collected May 24, 1982. Farmstore, 5km E
482246 to 482381—continued


482246 TO 482381—continued

482344. TGR 1457. Zimbabwe. Latitude: 20 deg 03 m S; Longitude:
032 deg 26 m E. Collected June 11, 1982. Farmstore, 4km N
of Musani BC, Manicaland Province. 700m. Flesh mixed
sweet and bitter types. Cultivated. Seed.

482345. TGR 1465. Zimbabwe. Latitude: 20 deg 03 m S; Longitude:
032 deg 21 m E. Collected June 11, 1982. Farmstore, 14km
S of Birchenough Bridge, Manicaland Province. 500m. Flesh
sweet. Cultivated. Seed.

482346. TGR 1512. Zimbabwe. Latitude: 17 deg 29 m S; Longitude:
029 deg 56 m E. Collected June 16, 1982. Farmstore, 5km
SE of Kanzamba BC, Mashonaland Province. 1000m. Sown
November, harvested April. Flesh sweet and red mixed
types. Cultivated. Seed.

482347. TGR 1530. Zimbabwe. Latitude: 17 deg 34 m S; Longitude:
029 deg 36 m E. Collected June 16, 1982. Farmstore, E
from Gwidzma BC, Mashonaland West Province. 900m. Sown
November, harvested April. Flesh sweet, red. Seeds black.
Cultivated. Seed.

482348. TGR 1547. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
029 deg 29 m E. Collected June 16, 1982. Farmstore, Obva
BC, Mashonaland West Province. 850m. Sown November,
harvested April. Flesh sweet. Seeds black and brown.
Cultivated. Seed.

482349. TGR 1564. Zimbabwe. Latitude: 17 deg 37 m S; Longitude:
030 deg 11 m E. Collected June 18, 1982. Farmstore, 15km
N of Murombedzi BC, Mashonaland West Province. 1200m.
Sown November, harvested April. Flesh mixed sweet and red
types. Cultivated. Seed.

482350. TGR 1571. Zimbabwe. Latitude: 17 deg 39 m S; Longitude:
030 deg 05 m E. Collected June 18, 1982. Farmstore, 2km E
of Chivere BC, Mashonaland West Province. 1100m. Sown
November, harvested April. Flesh mixed sweet, red types.
Cultivated. Seed.

482351. TGR 1624. Zimbabwe. Latitude: 16 deg 52 m S; Longitude:
029 deg 24 m E. Collected June 21, 1982. Farmstore, 20km
SW of Magunje BC, Mashonaland West Province. 1200m. Sown
November, harvested April. Flesh sweet, red. Seeds red.
Cultivated. Seed.

482352. TGR 1630. Zimbabwe. Latitude: 16 deg 53 m S; Longitude:
029 deg 28 m E. Collected June 21, 1982. Farmstore, 8km E
of Magunje BC, Mashonaland West Province. 1200m. Sown
November, harvested April. Flesh sweet, red. Seeds black.
Cultivated. Seed.


482362. TGB 1772. Zimbabwe. Latitude: 16 deg 32 m S; Longitude: 029 deg 53 m E. Collected June 24, 1982. Farmstore, 6km E of Kadunga BC, Mashonaland West Province. 1100m. Sown


482246 TO 482381—continued

deg 05 m E. Collected July 09, 1982. Farmstore, 8km S of Hadombwe, Mashonaland Central Province. 1200m. Sown

482382. Coccinia sp. (Cucurbitaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway,
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.

TGR 160. Zimbabwe. Latitude: 20 deg 26 m S; Longitude:
031 deg 52 m E. Collected April 17, 1982. Farmland, 13km
S of Magaisa, Bikita District, Victoria Province. 650m.
Leaves used as a pot herb. Fruits red. Local name
Mutangaya. Wild. Seed.

482383 TO 482392. Cucumis anguria L. (Cucurbitaceae) West Indian
gherkin.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway,
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.

482383. TGR 44. Zimbabwe. Latitude: 20 deg 23 m S; Longitude:
030 deg 40 m E. Collected April 14, 1982. Backyard, 19km
E of Chiti, Chibi District, Victoria Province. 750m.
Flowers yellow. Fruits oval, yellow with spines. Local
name Machacha. Wild. Seed.

482384. TGR 80. Zimbabwe. Latitude: 19 deg 32 m S; Longitude:
031 deg 22 m E. Collected April 15, 1982. Farmland, 32km
NE of Gutu Do, Gutu District, Victoria Province. 1100m.

482385. TGR 171. Zimbabwe. Latitude: 20 deg 15 m S; Longitude:
031 deg 03 m E. Collected April 19, 1982. Farmland, 3km E
of Nashentere, Victoria Province. 1100m. Found in maize

482386. TGR 212. Zimbabwe. Latitude: 20 deg 56 m S; Longitude:
030 deg 38 m E. Collected April 25, 1982. Backyard, 2km
SW of Neshuro, Muanets District, Victoria Province. 600m.
Wild. Seed.

482387. TGR 235. Zimbabwe. Latitude: 21 deg 04 m S; Longitude:
032 deg 07 m E. Collected April 21, 1982. Farmland, 11km
S of Sabi Bridge, Chiredze District, Victoria Province. 400m. Wild. Seed.


TGR 539. Zimbabwe. Latitude: 19 deg 33 m S; Longitude: 032 deg 34 m E. Collected May 07, 1982. Backyard, 1.7km W of Mazhidziwa BC, Manicaland Province. 1030m. Leaves used as a vegetable. Wild. Seed.


TGR 140. Zimbabwe. Latitude: 20 deg 24 m S; Longitude: 031 deg 44 m E. Collected April 17, 1982. Farmland, 1 km SW of Magaisa, Bikita District, Victoria Province. 660m.


482404. TGR 328. Zimbabwe. Latitude: 20 deg 24 m S; Longitude: 031 deg 27 m E. Collected April 30, 1982. Farmstore, 7 km S of Zaka, Victoria Province. 650m. Fruits yellow with...


482424. TGR 1709. Zimbabwe. Latitude: 16 deg 24 m S; Longitude: 029 deg 36 m E. Collected June 23, 1982. Farmland, 4km NE
of Chitake River Bridge, Mashonaland West Province. 1200m.
Fruits yellow, round. Flesh slightly bitter, cooked when
immature. Cultivated. Seed.

482425. TGR 1731. Zimbabwe. Latitude: 16 deg 28 m S; Longitude:
029 deg 39 m E. Collected June 23, 1982. Farmland, 1 km E
of Mhondiwa BC, Mashonaland West Province. 1200m. Fruits
yellow, large, pimpled. Cultivated. Seed.

482426. TGR 1748. Zimbabwe. Latitude: 16 deg 36 m S; Longitude:
029 deg 46 m E. Collected June 24, 1982. Farmstore, 11 km
W of Kadunga BC, Mashonaland West Province. 1200m. Sown
November, harvested April. Fruits round, smooth, yellow.

482427. TGR 1766. Zimbabwe. Latitude: 16 deg 29 m S; Longitude:
029 deg 53 m E. Collected June 24, 1982. Farmstore, 14 km
N of Kadunga BC, Mashonaland West Province. 1100m. Sown
November, harvested April. Fruits orange to green stripes.
Flesh white. Cultivated. Seed.

482428. TGR 1784. Zimbabwe. Latitude: 16 deg 33 m S; Longitude:
029 deg 54 m E. Collected June 24, 1982. Farmstore, 15 km
SE of Kadunga BC, Mashonaland West Province. 1100m. Sown
November, harvested April. Fruits large, oblong, orange.
Flesh white. Cultivated. Seed.

482429. TGR 1843. Zimbabwe. Latitude: 17 deg 07 m S; Longitude:
031 deg 36 m E. Collected June 30, 1982. Farmstore, 4 km N
of Chakonda BC, Mashonaland Central Province. 950m. Sown
November. Fruits smooth, purple-yellow. Flesh white.
Cultivated. Seed.

482430. TGR 1920. Zimbabwe. Latitude: 16 deg 12 m S; Longitude:
031 deg 42 m E. Collected July 02, 1982. Farmstore, Mjukumbura BC, Mashonaland Central Province. 450m. Sown
November. Fruits large, orange, smooth. Flesh white.
Cultivated. Seed.

482431. TGR 1937. Zimbabwe. Latitude: 16 deg 25 m S; Longitude:
031 deg 49 m E. Collected July 02, 1982. Farmstore, 29 km
SE of Mukumbura BC, Mashonaland Central Province. 900m.
Sown November, harvested April. Fruits orange, smooth.
Cultivated. Seed.

482432. TGR 1958. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
031 deg 45 m E. Collected July 03, 1982. Farmstore, E of
Chawanda BC, Mashonaland Central Province. 780m. Sown
November, harvested April. Fruits yellow, smooth with

482433. TGR 2018. Zimbabwe. Latitude: 16 deg 18 m S; Longitude:
031 deg 05 m E. Collected July 06, 1982. Farmstore, 25 km
482393 TO 482434—continued

HE of Mzarabani, Mashonaland Central Province. 400m.

482434. TGR 2047. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:
030 deg 18 m E. Collected July 07, 1982. Farmstore, 9km W
of Angwa Bridge, Mashonaland Central Province. 400m.

482435 TO 482462. Cucumis metuliferus E. Mey. ex Naudin
(Cucurbitaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway,
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.

482435. TGR 28. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
031 deg 18 m E. Collected April 08, 1982. Farmland, 4km
SE of Makumbe BC, Mashonaland East Province. 1300m.
Fruits eaten fresh, have stout spines. Weedy pumpkin and
squash occur in same field. Wild. Seed.

482436. TGR 103. Zimbabwe. Latitude: 19 deg 32 m S; Longitude:
031 deg 25 m E. Collected April 15, 1982. Farmland, 37km
NE of Gutu Do, Gutu District, Victoria Province. 1150m.
Fruits have spines. Have stout spines. Wild. Seed.

482437. TGR 607. Zimbabwe. Latitude: 20 deg 18 m S; Longitude:
032 deg 49 m E. Collected May 15, 1982. Backyard, 1 km S
of Tamandayi BC, Manicaland Province. 700m. Fruits eaten

482438. TGR 672. Zimbabwe. Latitude: 18 deg 50 m S; Longitude:
029 deg 03 m E. Collected May 17, 1982. Farmstore, 32.6km
W of Crossroads, Midlands Province. 1000m. Sown December.
Fruits have spines. Flesh sweet, green. Cultivated. Seed.

482439. TGR 778. Zimbabwe. Latitude: 18 deg 54 m S; Longitude:
031 deg 02 m E. Collected May 20, 1982. Farmstore, 1 km W
of All Saints School, Midlands Province. 1490m. Spined.

482440. TGR 836. Zimbabwe. Latitude: 18 deg 15 m S; Longitude:
028 deg 44 m E. Collected May 21, 1982. Farmstore, 35km W
of Gokwe Do, Midlands Province. 1100m. Flesh sweet, green.

482441. TGR 930. Zimbabwe. Latitude: 19 deg 14 m S; Longitude:
029 deg 58 m E. Collected May 24, 1982. Backyard, 5km E
of Muchakata BC, Midlands Province. 1300m. Flesh sweet,


482452. TGR 1641. Zimbabwe. Latitude: 16 deg 46 m S; Longitude:
482453. TGR 1710. Zimbabwe. Latitude: 16 deg 24 m S; Longitude:
482454. TGR 1711. Zimbabwe. Latitude: 16 deg 24 m S; Longitude:
482455. TGR 1712. Zimbabwe. Latitude: 16 deg 24 m S; Longitude:
482456. TGR 1713. Zimbabwe. Latitude: 16 deg 24 m S; Longitude:
482457. TGR 1714. Zimbabwe. Latitude: 16 deg 24 m S; Longitude:
482458. TGR 1831. Zimbabwe. Latitude: 17 deg 32 m S; Longitude:
482459. TGR 1882. Zimbabwe. Latitude: 16 deg 35 m S; Longitude:
482460. TGR 1957. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
482461. TGR 1962. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
482462. TGR 2066. Zimbabwe. Latitude: 16 deg 46 m S; Longitude:
482463 TO 482464. Cucumis sativus L. (Cucurbitaceae) Cucumber.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482466 TO 482486. Cucurbita maxima Duch. (Cucurbitaceae) Winter squash.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482466 TO 482486-continued


482478. TGR 1243. Zimbabwe. Latitude: 18 deg 01 m S; Longitude:
032 deg 39 m E. Collected June 02, 1982. Farmstore, 4km E
of Nyatate BC, Manicaland North Province. 1190m.
Cultivated. Seed.

482479. TGR 1248A. Zimbabwe. Latitude: 17 deg 50 m S; Longitude:
032 deg 39 m E. Collected June 02, 1982. Farmstore,
Nyautare, Manicaland Province. 1100m. Seeds white. Local
name Nyamutowa and Nzururu. Cultivated. Seed.

482480. TGR 1248E. Zimbabwe. Latitude: 17 deg 50 m S; Longitude:
032 deg 39 m E. Collected June 02, 1982. Farmstore,
Nyautare, Manicaland Province. 1100m. Seeds tan. Local
name Nyamutowa and Nzururu. Cultivated. Seed.

482481. TGR 1436. Zimbabwe. Latitude: 20 deg 52 m S; Longitude:
032 deg 13 m E. Collected June 09, 1982. Farmstore, 4km
NE of Machona School, Manicaland Province. 400m.
Cultivated. Seed.

482482. TGR 1548. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
029 deg 29 m E. Collected June 16, 1982. Farmstore, Obva
BC, Mashonaland West Province. 850m. Sown November,
harvested April. Cultivated. Seed.

482483. TGR 1783. Zimbabwe. Latitude: 16 deg 33 m S; Longitude:
029 deg 54 m E. Collected June 24, 1983. Farmstore, 15km
SE of Kadunga BC, Mashonaland West Province. 1100m. Sown

482484. TGR 1945. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
031 deg 49 m E. Collected July 03, 1982. Farmstore, 3km W
of Ganderson Mission, Mashonaland Central Province. 900m.

482485. TGR 1980. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
031 deg 41 m E. Collected July 03, 1982. Farmstore,
Chawanda BC, Mashonaland Central Province. 960m. Sown
November, harvested April. Local name Dindimangwa.
Cultivated. Seed.

482486. TGR 2102. Zimbabwe. Latitude: 22 deg 50 m S; Longitude:
031 deg 12 m E. Collected April 22, 1982. Farmstore, 25km

482487 TO 482588. Cucurbita moschata (Duch.) Duch. ex Poir.
(Cucurbitaceae) Squash.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway,
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.


482506. TGR 596. Zimbabwe. Latitude: 20 deg 18 m S; Longitude: 032 deg 49 m E. Collected May 15, 1982. Farmstore, Tamandayi BC, Manicaland Province. 700m. Sown October,


482527. TGR 1143. Zimbabwe. Latitude: 20 deg 44 m S; Longitude: 030 deg 12 m E. Collected May 27, 1982. Farmstore,
Maranda BC, Midlands Province. 850m. Fruits large, oval creamy yellow skinned types and green striped types. Cultivated. Seed.


482531. TGR 1211. Zimbabwe. Latitude: 18 deg 36 m S; Longitude: 036 deg 05 m E. Collected June 01, 1982. Farmstore, 6km S of Tsanzaguru, Manicaland Province. 1320m. Local name Nzunzu. Cultivated. Seed.


482487 TO 482588-continued
of Mapfungwe School, Mashonaland West Province. 880m. Cultivated. Seed.


482487 TO 482588-continued


482579. TGR 1688. Zimbabwe. Latitude: 17 deg 10 m S; Longitude: 029 deg 29 m E. Collected June 22, 1982. Farmstore, 3km E
of Chimusimbe BC, Mashonaland West Province. 1100m. Sown

482580. TGR 1696. Zimbabwe. Latitude: 17 deg 09 m S; Longitude:
029 deg 29 m E. Collected June 22, 1982. Farmstore, 4km W
of Chimusimbe BC, Mashonaland West Province. 1100m. Sown

482581. TGR 1701. Zimbabwe. Latitude: 17 deg 06 m S; Longitude:
029 deg 30 m E. Collected June 22, 1982. Farmstore, 12km
W of Chimusimbe BC, Mashonaland West Province. 1100m.

482582. TGR 1805. Zimbabwe. Latitude: 17 deg 25 m S; Longitude:
031 deg 11 m E. Collected June 29, 1982. Farmstore, 22km
W of Manhenga BC, Mashonaland Central Province. 1200m.

482583. TGR 1885. Zimbabwe. Latitude: 16 deg 35 m S; Longitude:
032 deg 10 m E. Collected July 01, 1982. Farmstore, Whawa
School, Mashonaland Central Province. 1000m. Sown

482584. TGR 1886. Zimbabwe. Latitude: 16 deg 35 m S; Longitude:
032 deg 10 m E. Collected July 01, 1982. Farmstore, Whawa
School, Mashonaland Central Province. 1000m. Fruits green/yellow. Cultivated. Seed.

482585. TGR 1926. Zimbabwe. Latitude: 16 deg 12 m S; Longitude:
031 deg 42 m E. Collected July 02, 1982. Farmstore,
Mukumbura BC, Mashonaland Central Province. 450m. Sown
November, harvested April. Fruits oval, angular to
penduncle shaped, green to yellow. Cultivated. Seed.

482586. TGR 1963. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
031 deg 42 m E. Collected July 03, 1982. Farmstore, east
of Chawshnda BC, Mashonaland Central Province. 980m. Sown
November, harvested October. Local name Mdodo. Cultivated. Seed.

482587. TGR 1982. Zimbabwe. Latitude: 16 deg 37 m S; Longitude:
031 deg 41 m E. Collected July 03, 1982. Farmstore,
Chawanda BC, Mashonaland Central Province. 960m. Sown

482588. TGR 2073. Zimbabwe. Latitude: 16 deg 42 m S; Longitude:
030 deg 29 m E. Collected July 08, 1982. Farmstore, 10km
W of Sipcilo, Mashonaland Central Province. 1200m.
Fruits elongated, ridged shape. Cultivated. Seed.
482589 TO 482593. Cucurbita pepo L. (Cucurbitaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482595 TO 482597. Fagopyrum esculentum Moench (Polygonaceae) Buckwheat.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway,
482595 TO 482597-continued
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.

482595. TGR 873. Zimbabwe. Latitude: 18 deg 07 m S; Longitude:
028 deg 31 m E. Collected May 23, 1982. Farmstore, 14km W
of Manyoni BC, Midlands Province. 1100m. Sown July. Seed
used for bread making. Cultivated. Seed.

482596. TGR 1375. Zimbabwe. Latitude: 18 deg 30 m S; Longitude:
032 deg 50 m E. Collected June 04, 1982. Farmstore, 1 km
W of Hauns BC, Manicaland Province. 800m. Sown February,
harvested May. Seed used for bread making. Cultivated.
Seed.

482597. TGR 1491. Zimbabwe. Latitude: 17 deg 45 m S; Longitude:
029 deg 43 m E. Collected June 15, 1982. Farmstore, St.
Rupert's Mission, Mashonaland West Province. 900m.
Cultivated. Seed.

482598 TO 482603. Glycine max (L.) Merr. (Fabaceae) Soybean.
From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway,
Zimbabwe. Received through International Board for Plant
Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.

482598. TGR 1492. Zimbabwe. Latitude: 17 deg 45 m S; Longitude:
029 deg 43 m E. Collected June 15, 1982. Farmstore, St.
Rupert's Mission, Mashonaland West Province. 900m. Pods
shatter. Cropped in rotation with Arachis. Seed not

482599. TGR 1668. Zimbabwe. Latitude: 16 deg 59 m S; Longitude:
029 deg 27 m E. Collected June 22, 1982. Farmstore, 2km N
of Samurivo BC, Mashonaland West Province. 1200m.
Cultivated. Seed.

482600. TGR 1676. Zimbabwe. Latitude: 17 deg 07 m S; Longitude:
029 deg 20 m E. Collected June 22, 1982. Farmstore, 14km
S of Samurivo BC, Mashonaland West Province. 1100m. Sown
November, harvested April. Cropped in rotation with maize.
Cultivated. Seed.

482601. TGR 1683. Zimbabwe. Latitude: 17 deg 11 m S; Longitude:
029 deg 22 m E. Collected June 22, 1982. Farmstore, Chief
Nujuga, Mashonaland West Province. 1000m. Sown November,
harvested April. Cultivated. Seed.

482602. TGR 1787. Zimbabwe. Latitude: 16 deg 36 m S; Longitude:
029 deg 52 m E. Collected June 24, 1982. Farmstore, 21km
482598 TO 482603–continued


482604 TO 482966. Sorghum bicolor (L.) Moench (Poaceae) Grain sorghum.

From Zimbabwe. Collected by Toll, J.; Gwarazimba, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482618. TGR 89. Zimbabwe. Latitude: 19 deg 32 m S; Longitude: 031 deg 25 m E. Collected April 15, 1982. Farmland, 36 km NE of Gutu Do, Gutu District, Victoria Province. 1100 m. Sown November, harvested April. Crossed to Fremila, an


482627. TGR 137. Zimbabwe. Latitude: 20 deg 52 m S; Longitude: 031 deg 44 m E. Collected April 17, 1982. Farmland, 1 km SW of Magaisa, Bikita District, Victoria Province. 660m.
482608 TO 482966—continued


482636. TGR 161. Zimbabwe. Latitude: 20 deg 26 m S; Longitude: 031 deg 52 m E. Collected April 17, 1982. Farmland, 13km
482604 TO 482966—continued


482672. TGR 249A. Zimbabwe. Latitude: 22 deg 41 m S; Longitude: 031 deg 19 m E. Collected April 22, 1982. Farmstore, 54 km N of Malapati, Chiredze District, Victoria Province. 400 m. Local name Mandhlovu. Cultivated. Seed.

482673. TGR 249B. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
482604 TO 482966—continued

031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Local name Tshalani. Cultivated. Seed.

482674. TGR 249C. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Local name Red Swazi. Cultivated. Seed.

482675. TGR 249D. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.

482676. TGR 249E. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Local name Chibendani. Cultivated. Seed.

482677. TGR 249F. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Stalks sweet. Cultivated. Seed.

482678. TGR 249G. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Local name Gangara. Cultivated. Seed.

482679. TGR 249H. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Local name Chitichi. Cultivated. Seed.

482680. TGR 249I. Zimbabwe. Latitude: 22 deg 41 m S; Longitude:
031 deg 19 m E. Collected April 22, 1982. Farmstore, 54km
N of Malapati, Chiredze District, Victoria Province. 400m.
Stalks sweet. Cultivated. Seed.

482681. TGR 250A. Zimbabwe. Latitude: 21 deg 21 m S; Longitude:
031 deg 47 m E. Collected April 22, 1982. Farmland, 21km
S of Lundi Bridge, Chiredze District, Victoria Province.
350m. Sown November, harvested April. Local name Gangara.
Cultivated. Seed.

482682. TGR 250B. Zimbabwe. Latitude: 21 deg 21 m S; Longitude:
031 deg 47 m E. Collected April 22, 1982. Farmland, 21km
S of Lundi Bridge, Chiredze District, Victoria Province.
350m. Sown November, harvested April. Race Caudatum.
Cultivated. Seed.

482683. TGR 257A. Zimbabwe. Latitude: 20 deg 31 m S; Longitude:
031 deg 31 m E. Collected April 23, 1982. Farmland, 36km


482604 TO 482966—continued

482694. TGR 341. Zimbabwe. Latitude: 20° 27′ S; Longitude: 
031° 20′ E. Collected April 30, 1982. Farmland, 23 km 
SW of Zaka, Victoria Province. 750 m. Sown November, 

482695. TGR 351. Zimbabwe. Latitude: 20° 27′ S; Longitude: 
031° 20′ E. Collected April 30, 1982. Farmland, 23 km 
SW of Zaka, Victoria Province. 720 m. Cultivated. Seed.

482696. TGR 351A. Zimbabwe. Latitude: 20° 27′ S; Longitude: 
031° 20′ E. Collected April 30, 1982. Farmland, 23 km 
SW of Zaka, Victoria Province. 720 m. Race Kafir. Seeds 
white, corneous. Heads compact. Local name Fumbala. 
Cultivated. Seed.

482697. TGR 351B. Zimbabwe. Latitude: 20° 27′ S; Longitude: 
031° 20′ E. Collected April 30, 1982. Farmland, 23 km 
SW of Zaka, Victoria Province. 720 m. Race Caudatum. Seeds 
white, heads loose. Local name Rundeude. Cultivated. Seed.

482698. TGR 354. Zimbabwe. Latitude: 20° 28′ S; Longitude: 
031° 22′ E. Collected April 30, 1982. Farmland, 38 km 
SW of Zaka, Victoria Province. 850 m. Stalks sweet. 
Cultivated. Seed.

482699. TGR 370. Zimbabwe. Latitude: 20° 13′ S; Longitude: 
031° 24′ E. Collected April 30, 1982. Farmstore, 22 km 
N of Zaka, Victoria Province. 960 m. Stalks sweet. 
Cultivated. Seed.

482700. TGR 371. Zimbabwe. Latitude: 20° 13′ S; Longitude: 
031° 24′ E. Collected April 30, 1982. Farmstore, 22 km 
N of Zaka, Victoria Province. 960 m. Races Bicolor and 

Show, Hwange (Wankie), Matebeleland North Province. Local 
name Tsweta. Cultivated. Seed.

Show, Hwange (Wankie), Matebeleland North Province. Local 
name Hau&kayaka. Cultivated. Seed.

Show, Ya-Thi, Matebeleland North Province. Local name 

482704. TGR 391. Zimbabwe. Latitude: 20° 13′ S; Longitude: 
031° 24′ E. Collected May 01, 1982. Bulawayo Show, E 
of Hwange (Wankie), Matebeleland North Province. Local 
name Malandisa. Cultivated. Seed.
Show, E of Hwange (Wankie), Matebeleland North Province.
Local name Tsweta. Cultivated. Seed.

Show, Zvishabane (Shaabani), Midlands South Province.
Local name Tsweta. Cultivated. Seed.

Show, Zvishabane (Shaban), Midlands South Province. Local
name Chifumbata. Cultivated. Seed.

Show, Zvishabane (Shaban), Midlands South Province. Local
name Ruttsutura. Cultivated. Seed.

Show, Zvishabane (Shaban), Midlands South Province. Local
name Sibedlane. Cultivated. Seed.

Show, N of Nkayi, Matebeleland North Province. Cultivated.
Seed.

Show, N of Nkayi, Matebeleland North Province. Local name
Impala. Cultivated. Seed.

Show, N of Bulawayo, Matebeleland North Province. Local name

Show, S of Nkayi, Matebeleland North Province. Local name
Impala. Cultivated. Seed.

Show, Chilimanzi, Midlands East Province. Cultivated.
Seed.

Show, Chilimanzi, Midlands East Province. Cultivated.
Seed.

Show, Plumtree, Matebeleland West Province. Local name

Show, Binga, Matebeleland North Province. Cultivated.
Seed.


482739. TGR 517. Zimbabwe. Latitude: 20 deg 05 m S; Longitude:
482604 TO 482966—continued
032 deg 52 m E. Collected May 06, 1982. Backyard, .5km E
of Rusitu Mission, Manicaland Province. 1000m. Sown
Cultivated. Seed.

482740. TGR 523. Zimbabwe. Latitude: 20 deg 01 m S; Longitude:
032 deg 55 m E. Collected May 06, 1982. Farmfield, 5km E
of Rusito Mission, Manicaland Province. 980m. Sown
November, harvested May. Race Kafir. Local name Chikota.
Cultivated. Seed.

482741. TGR 527. Zimbabwe. Latitude: 20 deg 01 m S; Longitude:
032 deg 57 m E. Collected May 06, 1982. Farmstore, 13km E
of Rusito Mission, Manicaland Province. 1020m. Sown
November, harvested May. Subtending head stem goosenecked.
Local name Chikota. Cultivated. Seed.

482742. TGR 536. Zimbabwe. Latitude: 20 deg 02 m S; Longitude:
032 deg 55 m E. Collected May 06, 1982. Farmfield, 1 km S
of Muchira BC, Manicaland Province. 840m. Sown November,
harvested May. Local name Chikota. Cultivated. Seed.

482743. TGR 546. Zimbabwe. Latitude: 19 deg 33 m S; Longitude:
032 deg 34 m E. Collected May 07, 1982. Farmfield, 1.7km W
of Mhedziwa BC, Manicaland Province. 1030m. Sown November,

482744. TGR 547. Zimbabwe. Latitude: 19 deg 33 m S; Longitude:
032 deg 34 m E. Collected May 07, 1982. Farmfield, 1.7km W
of Mhedziwa BC, Manicaland Province. 1030m. Seeds shatter
readily. Cultivated. Seed.

482745. TGR 548. Zimbabwe. Latitude: 19 deg 33 m S; Longitude:
032 deg 34 m E. Collected May 07, 1982. Farmfield, 1.7km W
of Mhedziwa BC, Manicaland Province. 1030m. Race Kafir.

482746. TGR 556A. Zimbabwe. Latitude: 19 deg 34 m S; Longitude:
032 deg 37 m E. Collected May 07, 1982. Farmstore, 5.2km W
of Mhedziwa BC, Manicaland Province. 1050m. Sown
November, harvested April. Race Kafir. Seeds red. Local
name Tsweta. Cultivated. Seed.

482747. TGR 556B. Zimbabwe. Latitude: 19 deg 34 m S; Longitude:
032 deg 37 m E. Collected May 07, 1982. Farmstore, 5.2km W
of Mhedziwa BC, Manicaland Province. 1050m. Sown
November, harvested April. Race Kafir. Seeds white. Local
name Dewe. Cultivated. Seed.

482748. TGR 558. Zimbabwe. Latitude: 19 deg 34 m S; Longitude:
032 deg 37 m E. Collected May 07, 1982. Farmfield, 5.2km W
of Mhedziwa BC, Manicaland Province. 1050m. Local name

715
**482604 TO 482966-continued**

*Mururu. Cultivated. Seed.*


**482754.** TGR 577A. *Zimbabwe* Latitude: 19 deg 42 m S; Longitude: 032 deg 56 m E. Collected May 08, 1982. Farmland, 2km N of Chikukwa BC, Manicaland Province. 1200m. Local name Chikota. Cultivated. Seed.

**482755.** TGR 577B. *Zimbabwe* Latitude: 19 deg 42 m S; Longitude: 032 deg 56 m E. Collected May 08, 1982. Farmland, 2km N of Chikukwa BC, Manicaland Province. 1200m. Local name Tsweta. Cultivated. Seed.


**482758.** TGR 610. *Zimbabwe* Latitude: 20 deg 15 m S; Longitude: 032 deg 49 m E. Collected May 10, 1982. Farmstore, 1.9km
482604 TO 482966—continued

S of Taaandayi BC, Manicaland Province. 700m. Sown November, harvested May. Local name Chikota. Cultivated. Seed.


482768. TGR 707. Zimbabwe. Latitude: 18 deg 40 m S; Longitude:
482604 TO 482966—continued
029 deg 22 m E. Collected May 18, 1982. Farmstore, 1 km E
of Zhombe BC, Midlands Province. 1130m. Race Kafir. Stalk
sweet. Local name Bedhlana. Cultivated. Seed.

482769. TGR 708. Zimbabwe. Latitude: 18 deg 40 m S; Longitude:
029 deg 22 m E. Collected May 18, 1982. Farmstore, 1 km E
of Zhombe BC, Midlands Province. 1130m. Stalk sweet.
Local name Umkumbe. Cultivated. Seed.

482770. TGR 714. Zimbabwe. Latitude: 18 deg 41 m S; Longitude:
029 deg 19 m E. Collected May 18, 1982. Farmstore, 4.5 km
S of Zhombe BC, Midlands Province. 1130m. Sown November.
Local name Tsweta. Cultivated. Seed.

482771. TGR 720. Zimbabwe. Latitude: 18 deg 35 m S; Longitude:
029 deg 25 m E. Collected May 18, 1982. Farmstore, 28 km N
of Zhombe BC, Midlands Province. 1080m. Sown December.
Local name Tsweta. Cultivated. Seed.

482772. TGR 733. Zimbabwe. Latitude: 18 deg 35 m S; Longitude:
029 deg 25 m E. Collected May 18, 1982. Farmstore, 28 km N
of Zhombe BC, Midlands Province. 1080m. Seeds mixed red
and white. Stalks sweet, chewed. Cultivated. Seed.

482773. TGR 738. Zimbabwe. Latitude: 19 deg 45 m S; Longitude:
030 deg 37 m E. Collected May 19, 1982. Farmstore, 5 km S
of St. Joseph Mission, Midlands Province. 1150m. Sown
September, harvested February. Heads compact, bristled.
Local name Ngumane. Cultivated. Seed.

482774. TGR 738A. Zimbabwe. Latitude: 19 deg 45 m S; Longitude:
030 deg 37 m E. Collected May 19, 1982. Farmstore, 5 km S
of St. Joseph Mission, Midlands Province. 1150m. Sown
September, harvested February. Heads compact, bristled.
Local name Ngumane. Cultivated. Seed.

482775. TGR 738B. Zimbabwe. Latitude: 19 deg 45 m S; Longitude:
030 deg 37 m E. Collected May 19, 1982. Farmstore, 5 km S
of St. Joseph Mission, Midlands Province. 1150m. Sown
September, harvested February. Heads semi-compact, bristled.

482776. TGR 738C. Zimbabwe. Latitude: 19 deg 45 m S; Longitude:
030 deg 37 m E. Collected May 19, 1982. Farmstore, 5 km S
of St. Joseph Mission, Midlands Province. 1150m. Sown
September, harvested February. Heads semi-compact. Glumes
black. Local name Ngumane. Cultivated. Seed.

482777. TGR 738D. Zimbabwe. Latitude: 19 deg 45 m S; Longitude:
030 deg 37 m E. Collected May 19, 1982. Farmstore, 5 km S
of St. Joseph Mission, Midlands Province. 1150m. Sown
Cultivated. Seed.


482787. TGR 800. Zimbabwe. Latitude: 18° 53' S; Longitude:
482604 TO 482966-continued


482797. TGR 980. Zimbabwe. Latitude: 18 deg 53 m S; Longitude: 031 deg 24 m E. Collected May 20, 1982. Farmstore, 4km of Sadza, Midlands Province. 1420m. Local name Tsweta.
482604 TO 482966—continued
Cultivated. Seed.


482818. TGR 1158B. Zimbabwe. Latitude: 20 deg 26 m S; Longitude:
482604 TO 482966—continued


482825. TGR 1204D. Zimbabwe. Longitude: 18 deg 36 m S; Longitude: 032 deg 05 m E. Collected June 01, 1982. Farmstore, 2.5km SE of Tsanzaguru BC, Manicaland Province. 1320m. Mixture of various glume colors and seed colors and textures. Race Kafir. Cultivated. Seed.


482828. TGR 1209. Zimbabwe. Latitude: 18 deg 36 m S; Longitude:
482604 to 482966—continued


482838. TGR 1306. Zimbabwe. Latitude: 18 deg 34 m S; Longitude:


482848. TGR 1347E. Zimbabwe. Latitude: 18 deg 36 m S; Longitude:
482604 TO 482966—continued

482849. TGR 1358. Zimbabwe. Latitude: 18 deg 31 m S; Longitude:
032 deg 44 m E. Collected June 07, 1982. Farmstore, 2km W
of Gatsi BC, Manicaland Province. 870m. Sown November.
Local name Tsene. Cultivated. Seed.

482850. TGR 1372. Zimbabwe. Latitude: 18 deg 30 m S; Longitude:
032 deg 50 m E. Collected June 07, 1982. Farmstore, 1 km
W of Hauna BC, Manicaland Province. 800m. Stalks sweet.
Cultivated. Seed.

482851. TGR 1384. Zimbabwe. Latitude: 18 deg 27 m S; Longitude:
032 deg 48 m E. Collected June 07, 1982. Farmstore, 3km
NE of Hparutsa BC, Manicaland Province. 800m. Sown
November. Local name Hukadziussende. Cultivated. Seed.

482852. TGR 1385. Zimbabwe. Latitude: 18 deg 27 m S; Longitude:
032 deg 48 m E. Collected June 07, 1982. Farmstore,
Hparutsa BC, Manicaland Province. 800m. Local name

482853. TGR 1402. Zimbabwe. Latitude: 18 deg 27 m S; Longitude:
032 deg 58 m E. Collected June 08, 1982. Farmstore, 10km
E of Mandeya BC, Manicaland Province. 750m. Races Kafir

482854. TGR 1406. Zimbabwe. Latitude: 18 deg 27 m S; Longitude:
032 deg 58 m E. Collected June 08, 1982. Farmstore, 10km
E of Mandeya BC, Manicaland Province. 750m. Sown November.
Cultivated. Seed.

482855. TGR 1423. Zimbabwe. Latitude: 20 deg 52 m S; Longitude:
032 deg 13 m E. Collected June 09, 1982. Farmstore, 4km
NE of Machona School, Manicaland Province. 400m. Sown

482856. TGR 1435. Zimbabwe. Latitude: 20 deg 52 m S; Longitude:
032 deg 13 m E. Collected June 09, 1982. Farmstore, 4km
NE of Machona School, Manicaland Province. 400m. Stalks
sweet. Cultivated. Seed.

482857. TGR 1444. Zimbabwe. Latitude: 20 deg 51 m S; Longitude:
032 deg 16 m E. Collected June 09, 1982. Farmstore, 7km N
of Chiwamkwakwa BC, Manicaland Province. 400m. Sown
November. Local name Nydhoriyana. Cultivated. Seed.

482858. TGR 1448. Zimbabwe. Latitude: 20 deg 53 m S; Longitude:
032 deg 17 m E. Collected June 09, 1982. Farmstore, 4km W
of Chinyamkwakwa, Manicaland Province. 390m. Sown
November. Local name Nydhoriyana. Cultivated. Seed.


482604 TO 482966—continued

482870. TGR 1546. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
029 deg 29 m E. Collected June 16, 1982. Farmstore, Obva
BC, Mashonaland West Province. 850m. Sown November,
harvested April. Local name Bongwe. Cultivated. Seed.

482871. TGR 1552. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
029 deg 29 m E. Collected June 16, 1982. Farmstore, Obva,
Mashonaland West Province. 850m. Sown November, harvested
April. Local name Kanzwonzwo. Cultivated. Seed.

482872. TGR 1556. Zimbabwe. Latitude: 17 deg 33 m S; Longitude:
030 deg 07 m E. Collected June 18, 1982. Farmstore, Chivere EC,
Mashonaland West Province. 1200m. Sown November, harvested April. Local name Kanzwonzwo. Cultivated. Seed.

482873. TGR 1574. Zimbabwe. Latitude: 17 deg 39 m S; Longitude:

482874. TGR 1575. Zimbabwe. Latitude: 17 deg 43 m S; Longitude:

482875. TGR 1605. Zimbabwe. Latitude: 17 deg 46 m S; Longitude:

482876. TGR 1616. Zimbabwe. Latitude: 16 deg 51 m S; Longitude:
029 deg 23 m E. Collected June 21, 1982. Farmstore, 8km

482877. TGR 1622. Zimbabwe. Latitude: 16 deg 56 m S; Longitude:

482878. TGR 1625. Zimbabwe. Latitude: 16 deg 52 m S; Longitude:
029 deg 24 m E. Collected June 21, 1982. Farmstore, 20km

482879. TGR 1636. Zimbabwe. Latitude: 16 deg 47 m S; Longitude:
029 deg 25 m E. Collected June 21, 1982. Farmstore, N of
482604 TO 482966—continued


482898. TGR 1757. Zimbabwe. Latitude: 16 deg 32 m S; Longitude:
482604 TO 482966—continued


482926. TGR 1934. Zimbabwe. Latitude: 16 deg 25 m S; Longitude:
482604 to 482966—continued


482944. TGR 2043A. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:

482945. TGR 2043E. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:

482946. TGR 2043C. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:

482947. TGR 2043D. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:

482948. TGR 2043E. Zimbabwe. Latitude: 16 deg 03 m S; Longitude:

482949. TGR 2052. Zimbabwe. Latitude: 16 deg 44 m S; Longitude:

482950. TGR 2054. Zimbabwe. Latitude: 16 deg 12 m S; Longitude:

482951. TGR 2056A. Zimbabwe. Latitude: 16 deg 12 m S; Longitude:

482952. TGR 2056E. Zimbabwe. Latitude: 16 deg 12 m S; Longitude:


482967 TO 482968. Sorghum sp. (Poaceae).

From Zimbabwe. Collected by Toll, J.; Gwarazima, V.; IBPGR; Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received January 1983.


482969 TO 483006. Zea mays L. (Poaceae) Field corn.

From Zimbabwe. Collected by Toll, J.; Gwarazima, V.; IBPGR;
Research and Specialist Services; Rome, Italy; Causeway, Zimbabwe. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy.
Received January 1983.


482969 TO 483006-continued
Cultivated. Seed.


482987. TGR 1293. Zimbabwe. Latitude: 18 deg 33 m S; Longitude: 032 deg 46 m E. Collected June 07, 1982. Farmstore, Samanga School, Manicaland Province. 850m. Sown November,
482969 TO 483006-continued

harvested May. Resistant to weevils. Local name Manjeke. Cultivated. Seed.


482997. TGR 1410. Zimbabwe. Latitude: 18 deg 27 m S; Longitude: 032 deg 58 m E. Collected June 08, 1982. Farmstore,
482969 TO 483006—continued
Handeya BC, Manicaland Province. 750m. Sown November.
Seeds sweet. Used for roasting. Local name Chimanyika.
Cultivated. Seed.

482998. TGR 1426. Zimbabwe. Latitude: 20 deg 52 m S; Longitude:
032 deg 13 m E. Collected June 09, 1982. Farmstore, 4km NE from Machona, Manicaland Province. 400m. Sown November.
Resistant to weevils and drought. Local name Chikaranga.
Cultivated. Seed.

482999. TGR 1500. Zimbabwe. Latitude: 17 deg 45 m S; Longitude:

483000. TGR 1508. Zimbabwe. Latitude: 17 deg 46 m S; Longitude:
024 deg 49 m E. Collected June 15, 1982. Farmstore, Chipfuvarumi School, Mashonaland West Province. 1000m.

483001. TGR 1509. Zimbabwe. Latitude: 17 deg 46 m S; Longitude:
024 deg 49 m E. Collected June 15, 1982. Farmstore, Chipfuvarumi School, Mashonaland West Province. 1000m.

483002. TGR 1533. Zimbabwe. Latitude: 17 deg 27 m S; Longitude:

483003. TGR 1607. Zimbabwe. Latitude: 17 deg 46 m S; Longitude:

483004. TGR 1608. Zimbabwe. Latitude: 17 deg 46 m S; Longitude:

483005. TGR 1799. Zimbabwe. 1300m. Seed.

483006. TGR 2062. Zimbabwe. Latitude: 16 deg 43 m S; Longitude:
From Cyprus. Collected by Chapman, C.D.G.; Della, A.; IBPGR; Agricultural Research Institute; Nicosia, Cyprus; Rome, Italy. Received through International Board for Plant Genetic Resources (IBPGR), Rome, Italy. Received August 1983.


483011. CC 42. Cyprus. Latitude: 35 deg 02 m N; Longitude: 034 deg 02 m E. Collected May 26, 1983. West-northwest, 4km from Ayia Varvara, Famagusta Province. 10m. Wild. Seed.

483012. CC 45. Cyprus. Latitude: 34 deg 57 m N; Longitude: 033 deg 25 m E. Collected May 27, 1983. West, 1 km from Moshphioti, Larnaca Province. 260m. Wild. Seed.


483016. CC 55. Cyprus. Latitude: 34 deg 50 m N; Longitude: 033 deg 37 m E. Collected May 27, 1983. Beach gravel, 5km WNW of Kiti, Larnaca Province. Wild. Seed.

483017. CC 56. Cyprus. Latitude: 34 deg 50 m N; Longitude: 033 deg 37 m E. Collected May 27, 1983. Beach gravel, 5km WNW of Kiti, Larnaca Province. Wild. Seed.

483018. CC 57. Cyprus. Latitude: 34 deg 50 m N; Longitude: 033 deg 37 m E. Collected May 27, 1983. Beach gravel, 5km WNW
483007 TO 483039—continued
of Kiti, Larnaca Province. Wild. Seed.


483020. CC 64. Cyprus. Latitude: 34 deg 51 m N; Longitude: 033 deg 30 m E. Collected May 27, 1983. North, 1 km from Kivisil, Larnaca Province. 100 m. Wild. Seed.


483023. CC 84. Cyprus. Latitude: 35 deg 10 m N; Longitude: 032 deg 35 m E. Collected May 31, 1983. North, 1 km from Pakhyamos, Nicosia Province. 100 m. Wild. Seed.


483027. CC 100. Cyprus. Latitude: 34 deg 57 m N; Longitude: 032 deg 28 m E. Collected May 31, 1983. South, 4 km from Skoulli, Paphos Province. 140 m. Wild. Seed.

483028. CC 112. Cyprus. Latitude: 34 deg 54 m N; Longitude: 032 deg 20 m E. Collected June 01, 1983. East-southeast, 5 km from Peyia, Paphos Province. 60 m. Wild. Seed.

483029. CC 118. Cyprus. Latitude: 34 deg 44 m N; Longitude: 032 deg 32 m E. Collected June 01, 1983. Northeast, 1 km from Anarita, Paphos Province. 80 m. Wild. Seed.

483030. CC 120. Cyprus. Latitude: 34 deg 45 m N; Longitude: 032 deg 33 m E. Collected June 01, 1983. Southwest, 2 km from Anarita, Paphos Province. 160 m. Wild. Seed.

483031. CC 126. Cyprus. Latitude: 34 deg 50 m N; Longitude: 032 deg 35 m E. Collected June 01, 1983. Southwest, 1 km from Amargeti, Paphos Province. 420 m. Wild. Seed.
483032. CC 139. Cyprus. Latitude: 34 deg 41 m N; Longitude: 032 deg 35 m E. Collected June 02, 1983. Northwest, 4km from Kouklia, Paphos Province. 10m. Wild. Seed.

483033. CC 147. Cyprus. Latitude: 34 deg 40 m N; Longitude: 032 deg 51 m E. Collected June 02, 1983. East, 4km from Episkopi, Limassol Province. 120m. Wild. Seed.

483034. CC 150. Cyprus. Latitude: 34 deg 39 m N; Longitude: 032 deg 55 m E. Collected June 02, 1983. Dried river bed, 1 km northwest of Episkopi, Limassol Province. 30m. Wild. Seed.

483035. CC 156. Cyprus. Latitude: 34 deg 48 m N; Longitude: 033 deg 20 m E. Collected June 02, 1983. Ruins of Neolithic village, 1 km east of Khirokitia, Larnaca Province. 200m. Wild. Seed.


From Australia. Donated by Australian Wheat Collection; Tamworth, New South Wales 2340. Received November 1983.

483040. AUS 99069. 'Hill'. Australia. Cultivar. Seed.

483041. AUS 99070. 'Bulban'. Australia. Cultivar. Seed.

483042. AUS 99071. 'Carbeen'. Australia. Cultivar. Seed.

483043. AUS 99078. 'Nile'. Australia. Cultivar. Seed.

483044. AUS 99075. 'Lort'. Australia. Cultivar. Seed.

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Origin</th>
<th>Cultivar Type</th>
<th>Germination Year</th>
</tr>
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<tbody>
<tr>
<td>483046-483049</td>
<td>Hordeum vulgare L. (Poaceae) Barley</td>
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<td>AUS 99075. 'Grimmet'. Australia. Cultivar. Seed</td>
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<td>AUS 99086. 'Schooner'. Australia. Cultivar. Seed</td>
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<td>Triticum aestivum L. (Poaceae) Common wheat</td>
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<tr>
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<tr>
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<tr>
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<td>AUS 21820. 'Suneca'. Australia. Spring Annual. Cultivar. Seed</td>
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<td>AUS 21961. 'King'. Australia. Winter Annual. Cultivar. Seed</td>
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From Australia. Donated by Australian Wheat Collection; Tamworth, New South Wales 2340. Received November 1983.


483066. X Triticosecale (Poaceae) Triticale.

From Australia. Donated by Australian Wheat Collection; Tamworth, New South Wales 2340. Received November 1983.


483067. Nicotiana rustica L. (Solanaceae).

From Italy. Donated by Sezione de Genetica, Instituto Sperimentale per il Tabacco; Scafati (Salerno). Received through FAO, Rome, Italy. Received November 1983.

Italy. FAO 60.893. Cultivated. Seed.

483068. Nicotiana rustica L. (Solanaceae).

From France. Donated by Institut Experimental du Tabac de la SEITA; Bergerac. Received through FAO, Rome, Italy. Received November 1983.

483069. Nicotiana tabacum L. (Solanaceae) Tobacco.
From France. Donated by Institut Experimental du Tabac de la SEITA; Bergerac. Received through FAO, Rome, Italy. Received November 1983.


From United States. Donated by Rice Research Station, Louisiana State University; Crowley, Louisiana. Received November 1983.

'Toro-2'. United States. CI 9902/3/'Rexoro'/'Lacrosse'/'13-D. Plants shorter, maturity 20 days earlier and more yield than Toro. Extra long grain, low amylose content, high head rice milling yield. Resistant to the two predominant races of blast (Pyricularia oryzae), to brown leaf spot (Helminthosporium oryzae), and leaf smut (Entyloma oryzae). Moderately susceptible to sheath blight (Rhizoctonia solani). Very susceptible to the physiological disease 'straighthead'. Cultivar. Seed.

From China, Peoples Repub of. Donated by Hu, T.S.; Institute of Soils and Fertilizers, Chinese Academy of Agricultural Sciences; Beijing. Received through R.H.Keyser, Nitrogen Fixation & Soybean Genetics Lab, Beltsville, MD 20705. Received November 1983.


483072 to 483075. Lupinus albus L. (Fabaceae) White lupine.
From Syria. Donated by ICARDA; Aleppo. Received November 1983.


483076. Lupinus angustifolius L. (Fabaceae) European blue lupine.
From Syria. Donated by ICARDA; Aleppo.
483076-continued
Received November 1983.


From United States. Donated by Miller, J.F.; USDA-ARS, Department of Agronomy, North Dakota State University; Fargo, North Dakota.
Received December 1983.


From Iran. Donated by Iranian Tobacco Institute; Shiraz. Received through Seed Exchange Service, FAO, Rome, Italy.
Received December 1983.


483079. Agropyron trachycaulum (Link) Malte ex H. F. Lewis (Poaceae) Slender wheatgrass.

From United States. Donated by Upper Colorado Environmental Plant Center, USDA-SCS; Meeker, Colorado. Received through National Plant Materials Center, SCS, Beltsville, MD.
Received December 1983.


483080. Vigna marina (Furm.) Merr. (Fabaceae).

From China, Republic of. Donated by Council for Agricultural Planning and Development Executive Yuan; Taipei, Taiwan 107.
Received December 1983.

483081. Vigna minima (Boxb.) Ohwi and Ohashi (Fabaceae).

From China, Republic of. Donated by Council for Agricultural Planning and Development Executive Yuan; Taipei, Taiwan 107.
Received December 1983.

China, Republic of. Sandy river bank near Taipei. Plants native to Taiwan, well-adapted to sandy soil, tolerate wet and dry conditions, competitive. Palatable. Wild. Seed.

483082 TO 483084. Glycine max (L.) Merr. (Fabaceae) Soybean.

From Korea, Republic of. Donated by Office of Rural Development; Suweon. Received through T. Hyndowitz, Univ. of Illinois and S.M. Lim, USDA-ARS, Urbana, Illinois.
Received December 1983.


483085 TO 483086. Arachis hypogaea L. (Fabaceae) Peanut.

From Malawi. Donated by Chitedze Agricultural Research Station, Ministry of Agriculture; Lilongwe.
Received December 1983.

483085. 'RG 1'. Malawi. Resistant to rosette virus. Cultivar. Seed.

483087 TO 483088. Zea mays L. (Poaceae) Field corn.

From United States. Donated by Bonsall, W.; Scatterseed Project; Farmington, Maine.
Received October 1983.


483087 TO 483088—continued
Roosevelttown, New York. Maturity about 120 days.
Primitive Cultivar. Seed.

483089 TO 483090. Amaranthus sp. (Amaranthaceae).
From India. Donated by NBPGR; New Delhi.
Received January 1984.

Used for baking bread. Popped seeds eaten with milk and
sugar, sugar, or syrup. Leaves used as vegetable and as
purgative. Fermented seeds used as a beverage. Local name
Dhankar. Primitive Cultivar. Seed.

483090. IC-42311-2. India. Govindghat, Chamoli. Collected by B.D.
Joshi. Used for baking bread. Popped seeds eaten with
milk and sugar, sugar, or syrup. Leaves used as vegetable
and as purgative. Dried stems burned (folklore). Local
name Narchu. Primitive Cultivar. Seed.

483091 TO 483095. Arachis hypogaea L. (Fabaceae) Peanut.
From Soviet Union. Donated by VIE; Leningrad.
Received January 1984.


483093. VIE 1469. Spain. Local name Colorado correntino.
Cultivated. Seed.


From Australia. Donated by Pacific Seeds; Toowoomba.
Received October 1963.
'Sunfola 68-2'. Australia. Selection from Peredovik.
Open-pollinated type. Cultivar. Seed.
Abelmoschus esculentus 481973-482043
Abies homolepis 479246
Abies mariesii 479247
Abies sachalinensis 479248-479252
Acacia sp. 478402
Acanthopanax sciadophylloides 479253
Acer carpinifolium 479254
Acer caudatum 479255-479259
Acer ginnala 477992
Acer japonicum 479260-479261
Acer miyabei 479262
Acer mono 479263-479269
Acer palatum 479270-479277
Acer sieboldianum 479278
Acer tschonoskii 479279-479281
Aconitum yezoense 479282
Acroceras aarun 476673-476678
Actaea erythrocarpa 479283
Actinidia arguta 479284-479286
Actinidia polygala 479287-479290
Adesmia bicolor 477042-477043
Aegilops sp. 483007-483039
Aegilops tauschii 476874
Agropyron caninum 477044
Agropyron scabrifolium 477047
Agropyron smithii 477993
Agrostis hygrometrica 478837
Agrostis sp. 478591-478596
Allium cepa 478668-478679
Alnus hirsuta 479293-479295
Alnus japonica 479296-479298
Alnus maximowiczii 479299-479301
Alnus pendula 479302
Alnus sp. 479303
Alopecurus arundinaceus 477985
Alopecurus pratensis 477108,477982-477984
Amaranthus caudatus 481947-481972
Amaranthus cruentus 477912-477914
Amaranthus hybridus 482044-482056
Amaranthus hypochondriacus 477915-477917
Amaranthus sp. 478403,480487-481476,481594-481610,481869-481870,483089-483090
Amaranthus spinosus 482057-482059
Amaranthus tricolor 477918
Ammophila arenaria 477109
Ammophila breviligulata 477955
Andropogon Gerardii 477994
Andropogon hallii 476990
Apium graveolens 478311-478319
Arachis helodes 476042-476046
Arachis sp. 475844-475847,475873-475887,475985-476014,476103-476140
Arachis tuberosa 476141-476142
Arachniodes standishii 479304
Aralia cordata 479305
Arisaema serratum 479306
Aristida sp. 478404
Artemisia stelleriana 479307-479308
Artocarpus heterophyllus 479213
Asparagus verticillatus 477110
Aster ageratoides 479309
Aster sp. 479310
Atriplex canescens 476816,478837-478838,478841
Atriplex hortensis 477111
Atriplex nutallii 478830
Atriplex patula 477112
Aucuba japonica 479311-479316
Avena sativa 476215,476810,476854-476855,479653-479659,483040-483045
Averrhoa carambola 479214
Axonopus argentinus 477046-477047
Axonopus barbigerus 477048
Axonopus suffultus 477049-477050
Bauhinia esculenta 478591
Beta vulgaris 476319-476323
Betula apoiensis 479317
Betula ermanii 479318-479322
Betula maximowicziana 479323
Betula platyphylla 479325
Betula tatewakiana 479326
Bothriochloa barbinodis 477957
Bothriochloa brasiliensis 477051
Bothriochloa caucasica 476808
Bothriochloa ischaemum 476809, 476987, 477958
Bouteloua curtipendula 476980-476981, 476991, 477001-477002, 478839
Bouteloua eriopoda 476992
Bouteloua gracilis 476993, 477959-477960
Bouteloua megapotamica 477052
Bouteloua sp. 4788405
Brassica campestris 478320-478322
Brassica chinensis 478323-478324
Brassica juncea 478325-478338
Brassica napus 478339-478340
Brassica oleracea 478341-478347
Brassica pekinensis 478348-478349
Brassica rapa 478350
Briza maxima 477113
Briza media 477114
Bromus auleticus 477053-477055
Bromus brachyanthera 477056, 477988
Bromus brevis 477987
Bromus inermis 476807
Bromus lanceolatus 477115
Bromus unioloides 477057, 478512-478513
Buchloe dactyloides 476988
Buckleya lanceolata 479329
Calamagrostis alba 477058-477059
Calamagrostis montevidensis 477060-477061
Calamagrostis varia 477116
Calamovilfa longifolia 477007, 477975, 477995
Calanthe torifera 479330
Calliandra calothyrsus 477301
Callicarpa japonica 479331
Calopogonium caeruleum 479770
Capsicum annuum 478351-478361
Carex sp. 479332-479333
Carpinus cordata 479334-479340
Carpinus laxiflora 479341-479342
Carum carvi 478362
Castanopsis cuspidata 479343
Celosia trigyna 482243-482245
Celtis occidentalis 476982
Cenchus ciliaris 476281, 476857, 476989
Cenchus tribuloides 477117
Cephalotaxus harringtonia 479344
Ceratothrix lanata 478840
Cercidiphyllum japonicum 479345
Cercocarpus montanus 477976
Chaenomeles japonica 479346-479347
Chascolytrum erectum 477062
Chascolytrum lamarckianum 477063
Chascolytrum subaristatum 477064-477065
Chenopodium pallidicaule 478406-478407
Chenopodium quinoa 476820, 478408-478418
Chilopsis linearis 477977
Chimonanthus praecox 479348
Chloranthus serratus 479349
Chloris sp. 478841
Chloris uliginosa 477066-477067
Chloris virgata 478420
Chrysanthemum cinerariifolium 476301-476304
Chrysanthemum pacificum 479350
Chrysanthemum sp. 479351
Chrysopogon gryllus 477118
Cicer arietinum 477031, 477291-477297, 478421
Cimicifuga simplex 479352
Citellus lanatus 476324-476330, 479704, 481871, 482246-482381
Clethera barbinervis 479353
Clinopodium chinense 479354
Coccinia sp. 482382
Codonopsis lanceolata 479355
Coelorachis selloana 477068-477069
Coffea arabica 477307-477370
Colocasia esculenta 478363
Convallaria keiskei 479356
Corchorus olitorius 478607
Corchorus sp. 478608
Cornus controversa 479357-479358
Cornus kousa 479359
Corylus sieboldiana 479360
<table>
<thead>
<tr>
<th>Species</th>
<th>Accession Numbers</th>
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<tbody>
<tr>
<td><em>Crataegus chlorosarca</em></td>
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<td>482487-482588</td>
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<td><em>Cucurbita pepo</em></td>
<td>478367, 481618-481627,482589-482593</td>
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<td><em>Cymbidium virescens</em></td>
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</tr>
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<td><em>Cynosurus echinatus</em></td>
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</tr>
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<tr>
<td>Sedum sp.</td>
<td>479574</td>
</tr>
<tr>
<td>Sesamum indicum</td>
<td>481874-481879</td>
</tr>
<tr>
<td>Sisymbria grandiflora</td>
<td>477302</td>
</tr>
<tr>
<td>Setaria sp.</td>
<td>478481-478482</td>
</tr>
<tr>
<td>Shepherdia argentea</td>
<td>478005</td>
</tr>
<tr>
<td>Simia calva</td>
<td>477971</td>
</tr>
<tr>
<td>Sinapidendron bourgeai</td>
<td>479212</td>
</tr>
<tr>
<td>Skimmia japonica</td>
<td>479575-479577</td>
</tr>
<tr>
<td>Solanum juzepczuki</td>
<td>478483</td>
</tr>
<tr>
<td>Solanum melongena</td>
<td>476415-478388</td>
</tr>
<tr>
<td>Solanum sp.</td>
<td>478485</td>
</tr>
<tr>
<td>Solanum tuberosum</td>
<td>478484</td>
</tr>
</tbody>
</table>
Sorbus alnifolia 479578-479583
Sorbus commixta 479584-479593
Sorbus matsumurana 479594-479595
Sorbus sambucifolia 479596-479597
Sorghastrum nutans 476279, 476999, 477006, 478006
Sorghum bicolor 478584, 481282-481290, 481369-481378, 481439-481448, 481509-481518, 481579-481588, 481709-481718, 481859-481868, 481919-481928, 483059-483068
Triticum dicoccoides 478680-478689, 478748, 479777-479782, 481477-481486
Triticum durum 476211, 476772-476773, 476796-477903-477911, 478285-478286, 478287-481915-481924, 481932-481939, 482604-482966
Triticum sp. 482967-482968
Spartium junceum 478287, 478585-478586
Spinacia oleracea
Spiranthes sinensis
Sporobolus asper
Sporobolus poiretti
Sporobolus sp.
Sporobolus texanus
Sporobolus wrightii
Staphylea dumalda
Stipa brachypylla
Stipa sp. 478487-478492
Stipa viridula 476300, 476983, 478007
Styrax japonicus 479600-479601
Styrax obassia 479602-479603
Symplocos chinensis 479604
Syringa reticulata 478008, 479605-479606
Taxus cuspidata 479607-479610
Teranum labialis 478638
Thermopsis lupinoides 479611
Thuja occidentalis 477011
Thymus quinquecostatus 479612
Tilia americana 477013
Tilia japonica 479614-479617
Tilia maximowicziana 479618-479620
Tofieldia nuda 479621
Trapa incisa 479622
Tricyrtis formosana 479623
Tricyrtis hybrid 479624
Tricyrtis nana 479625
Trifolium amabile 478589
Trifolium sp. 478493
Trigonella foenum-graecum 478584, 478594-478597
Trillium cowbellii 478626
Trillium tschonoskii 478627
Triapaxis chinensis 477954
Trisera bispinosa 478590-478591
Trisera polystachya 478606
Trisera sp. 478617
Vaccinium praeustans 479632
Vaccinium muravii 479633
Vaccinium sp. 479634
Viburnum dilatatum 479635
Viburnum furcatum 479636-479642
Viburnum opulus 479643
Viburnum wrightii 479644-479646
Vicia faba 478505-478506, 478617
Vicia sp. 478507
Vigna marina 483080
Vigna minima 483081
Vigna radiata 476877, 478401, 478618-478620
Vigna umbellata 476856
Vigna unguiculata 476416-476421, 476865, 478394-478397, 478621-478622
Viguiera stenoloba 477972
Vitis coignetiae 479647
Weigela hortensis 479650
Weigela middendorffiana 479651-479652
X Triticosecale 476216, 478305, 483066
Yucca elata 477000
Zea mays 476661-476672, 476866-476873, 477127, 477372-477762, 477925-477926, 478288-478290, 478399-478898-479199, 479237, 48269-483006, 483087-483088
| Alfalfa | 476392, 478441-478465, 478510-478511, 478532-478573, 478777-478779 |
| Altai wildrye | 477996-477997 |
| American beachgrass | 477955 |
| Arctic iris | 479449-479451 |
| Aromatic sumac | 477981 |
| Ashy sunflower | 478309 |
| Autumn eaeagnus | 476986, 477008 |
| Aztec tobacco | 478886 |
| Barley | 476308-476314, 476811-476812, 476976, 477763-477862, 478428-478433, 483046-483049 |
| Barreliclover | 476242-476273 |
| Basin wildrye | 476274, 477955 |
| Beech | 479403-479404 |
| Beggarweed | 479771 |
| Bermudagrass | 477004 |
| Big bluestem | 477994 |
| Big quaking grass | 477113 |
| Birch | 479318-479322 |
| Bird rape | 478320-478322 |
| Black graaa | 476992 |
| Black aedic | 478438 |
| Blue graaa | 476993, 477959-477960 |
| Blue panicgrass | 476289 |
| Blue wiss | 478638 |
| Broadbean | 478505-478506, 478617 |
| Brownseed paspalum | 477104 |
| Brunswickgrass | 477103 |
| Buckwheat | 476852, 481628-481643, 482595-482597 |
| Buffalograss | 476988 |
| Buffelgrass | 476281, 476857, 476989 |
| Bush sunflower | 477971 |
| Buttonclover medic | 476218-476219 |
| Cabbage | 478342-478347 |
| California burclover | 476220-476237, 478439-478440, 478530-478531 |
| Canby bluegrass | 477005 |
| Carambola | 479214 |
| Caraway | 478362 |
| Carpetgrass | 477046-477047, 477049-477050 |
| Carrot | 478370 |
| Caucasian bluestem | 478608 |
| Cauliflower | 478341 |
| Celery | 478311-478319 |
| Cherry tomato | 479211 |
| Chickpea | 477031, 477291-477297, 478421 |
| Chinese cabbage | 478348-478349 |
| Chinese juniper | 479455 |
| Citronella grass | 477304 |
| Coffee | 477307-477370 |
| Common beet | 476319-476323 |
| Common oat | 476315-476323 |
| Cotton | 478764-478770 |
| Creepeef foxtail | 477985 |
| Cucumber | 478364-478366, 481611-481617, 482463-482464 |
| Currant tomato | 478605 |
| Dallisgrass | 477099 |
| Darnel | 477121 |
| Desertwillow | 477977 |
| Dune sandbar | 477117 |
| Durum wheat | 476211, 476772-476785, 476796, 477903-477911, 478285-478286, 478286-478298, 478304-478306, 478427, 481580-481593, 483065 |
| Eggplant | 476415, 478388-478392 |
| Engelman daisy | 477962 |
| European beachgrass | 477109 |
| European blue lupine | 476377-476384, 483076 |
| European dwarf cherry | 478003 |
| Feather fingergrass | 478420 |
| Fenugreek | 478616, 479776 |
| Field corn | 476661-476672, 476866-476872, 477372-477762, 477925-477926, 478288-478297, 478898-479199, 482969-483006, 483087-483088 |
| Finger millet | 477026-477030, 482594 |
| Flax | 478343 |
| Flowering quince | 479346 |
| Fourwing saltbush | 476816, 478837-478838, 478841 |
| Garden bean | 476217, 476403-476406, 476407-476680-476703, 476705-476757, 476860-476864, 477016-477025, 478380-478382, 478614-478615 |
| Garden orach | 477111 |
Garden pea 476408-476414, 478383-478384, 478475
Grain sorghum 481828-481850, 482604-482966
Grass grass 477052
Green needlegrass 476300, 476983, 478007
Greenleaf desmodium 477305
Halberdleaf orach 478004
Harbin pear 478004
Harding grass 476287-476288
Hornbeam 479341-479342
Hornbeam maple 479254
Hyacinth bean 481692-481697
Idaho fescue 476286
Indian mustard 478325-478338
Indiangrass 476279, 476999, 477006, 478006
Italian ryegrass 478508
Jackfruit 479213
Japanese alder 479296-479298
Japanese hemlock 479628
Japanese holly 479432
Japanese horsechestnut 479291-479292
Japanese maple 479270-479277
Japanese mountain-ash 479584-479593
Japanese white pine 479519
Japanese yew 479607-479608
Juniper 479456-479458
Kaiu clover 477072-477073
Kenaf 478609-478610
Leadtree 478845-478848, 478910-478914
Lemongrass 477303
Lentil 476363-476369, 477290, 477298-477300, 477920-477922, 478611-478613
Lettuce 476359-476362
Lilac 478008, 479605-479606
Lima bean 476859, 477041
 Linden viburnum 479634-479635
Litchi 479216
Little bluestem 476298, 476998
Little walnut 477965-477966
Longan 479215
Mammoth wildrye 478832
Manchurian alder 479293-479295
Mango 479217-479236
Mara bean 478591
Maximilian's sunflower 478308
Meadow dropseed 478835
Meadow foxtail 477108, 477982-477984
Mediterranean bromegrass 477115
Melon 482393-482434
Mono maple 479263-479266
Hungbean 476877, 478400-478401, 478618-478620
Musk melon 476331-476342
Natalgrass 478478
Nile grass 476673-476678
Northern white cedar 477011
Okra 481973-482043
Onion 478668-478679
Orchardgrass 476282-476284, 476994
Pamirian winterfat 477924
Panic grass 477094
Parsley 478378-478379
Pearl millet 481815-481827
Perennial peavine 477009
Perennial quaking grass 477114
Perilla 481700-481705
Pod corn 479237
Poulard wheat 479909-480470
Prairie sandreed 477007, 477975, 477995
Prickly rose 479560
Privet 477010
Proso millet 476398-476402, 477123
Pumpkin 478367
Pyrethrum 476301-476304
Quinoa 476820, 478408-478416
Radish 478385-478387
Rape 478339-478340
Rattlesnake weed 478885
Red vein enkianthus 479377-479378
Rescuegrass 477057, 478512-478513
Rice 476394-476397, 476818-476819, 478576-478577, 483070
Rugosa rose 479562-479563
Russian wildrye 476299
Sacaton 476280
Sakhalin spruce 479514-479515
Sand bluestem 476990, 477973-477974
Sargent crabapple 477986
Scarlet runner bean 477015
Sea-island cotton 476944
Sericea lespedeza 476979
Serradella 478398
Sesame 481874-481879
Showy menodora 477967
Side-oats grama 476980-476981, 476991, 477001-477002, 478839
Silver buffaloberry 478005
Slender wheatgrass 483079
Smallflower peachbush 477969
Smooth bromegrass 476807
Smut grass 478486
Soaptree yucca 477000
Sorghum 478584, 481880-481914, 481932-481939
Southern pea 476416-476421, 476865, 478396-478397, 478621-478622
Soybean 476343-476352, 476878-476943, 479709-479743, 479754-479766, 481676-481697, 482598-482603, 483082-483084
Spanish broom 478287, 478585-478586
Spanish tickclover 477306
Spike Muhly 476996
Spinach 478393
Squash 482487-482588
Stargrass 476968-476973
Stone pine 479520-479523
Sunflower 476355-476358, 476658-476660, 476759, 476853, 478307, 480471-480473, 483077, 483096
Sweet corn 476873
Sweet pea 478623-478637
Switchgrass 476290-476297, 477003, 478001-478002
Tall fescue 476285
Taro 478363
Teosinte 477127, 478399
Tepary bean 476858, 477032-477039
Texas dropseed 478836
Texas peachbush 477970
Timothy 478603
Tobacco 481854-481868, 483069, 483078
Tomato 475834-475843, 476385-476391, 478371-478377, 479200-479210, 479773-479775
Triticale 476216, 478305, 483066
Tufted hairgrass 478597-478602
Turnip 478350
Tussa jute 478607
Upland cotton 476353-476354, 476945-476967, 477013, 478758
Velvet bundleflower 477961
Velvet grass 477083
Vine mesquitegrass 476278
Watermelon 476324-476330, 479704, 481871, 482246-482381
Weeping lovegrass 477012, 478515
West Indian gherkin 482383-482392
Western indigo 477963-477964
White lupine 476370-476376, 480482-480486, 481545-481560, 481851, 483072-483075
White sweetclover 478468, 478772
Wild carrot 478368-478369, 478882
Wild emmer 478680-478748, 479777-479782, 481477-481539
Wild soybean 479744-479753, 479767-479769, 483071
Winged bean 477137-477284
Winter squash 482466-482486
Winterfat 478840
Wright's pavonia 477968
Yard-long bean 478394-478395
Yedo spruce 479516-479517
Yellow bluestem 476809, 476987, 477958

761