



United States  
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Service

# Plant Inventory No. 210, Vol. 1

Plant Materials Introduced 2001  
(Nos. 615162 to 620366)



## **Forward**

Norris, R.A., ed. 2001. Plant Inventory No. 210, Vol. 1. Plant Materials Introduced in 2001. Vol.1 contains Nos. 615162 to 620366. Vol. 2 contains Nos. 620367 to 628613.

U.S. Department of Agriculture, Agricultural Research Service.  
This inventory lists plant materials introduced into the U.S. National Plant Germplasm System during calendar year 1999. It is not a listing of plant material for distribution.

For questions about data organization and proper plant identification, contact the editor: R.A. Norris, [dbmubn@ars-grin.gov](mailto:dbmubn@ars-grin.gov)

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The following were developed by Dale L. Reeves, South Dakota State University, Dept. of Plant Science, Plant Sci. Bldg., Box 2140C, NPB 247, Brookings, South Dakota 57007, United States. Received 01/02/2001.

**PI 615162. *Avena sativa* L.**

Breeding. Pureline. SD 92057; NSGC 8680. Pedigree - Dal/Ab71-36//Wix2221-2/Noble/3/SD955/Kelsey/4/Settler/5/WI-14/Spear/3/SD 6422//Kelsey. Spring oat. Early maturity, very high test weight, high groat percentage, high protein, medium high oil, and medium beta glucan. Moderately susceptible to BYDV, moderately susceptible to smut, moderately resistant to crown rust.

**PI 615163. *Avena sativa* L.**

Breeding. Pureline. SD 92287; NSGC 8681. Pedigree - Dal/Nodaway 70//Moore/3/Settler//Wix2221-2/Moore/4/Troy. Spring oat. Mid-season maturity, very high test weight, medium lodging, high groat percentage, high protein, medium low oil, medium beta glucan. Moderately susceptible to crown rust, resistant to smut, and susceptible to stem rust.

The following were developed by Dale L. Reeves, South Dakota State University, Dept. of Plant Science, Plant Sci. Bldg., Box 2140C, NPB 247, Brookings, South Dakota 57007, United States; Deon D. Stuthman, University of Minnesota, Dept. of Agronomy and Plant Genetics, St. Paul, Minnesota 55108, United States. Received 01/02/2001.

**PI 615164. *Avena sativa* L.**

Breeding. Pureline. SD 93311; NSGC 8682. Pedigree - Troy/PA8393-1761. Spring oat. Moderately late, good test weight, good straw strength, average groat percentage, high protein, low oil, and medium low beta glucan. Moderately resistant to crown rust, resistant to smut, and moderately susceptible to BYDV.

The following were developed by Dale L. Reeves, South Dakota State University, Dept. of Plant Science, Plant Sci. Bldg., Box 2140C, NPB 247, Brookings, South Dakota 57007, United States. Received 01/02/2001.

**PI 615165. *Avena sativa* L.**

Breeding. Pureline. SD 93018; NSGC 8683. Pedigree - Don/5/Dal/Allen//MN78142/4/Spear/Kelsey/3/Wix2221-2/Froker//ND770015. Spring oat. Very early maturity, excellent test weight, white seeds, stands well, high groat percentage, high protein, medium oil, and medium beta glucan. Intermediate in resistance to BYDV, 5% smut, and is moderately resistant to crown rust.

**PI 615166. *Avena sativa* L.**

Breeding. Pureline. SD 94152; NSGC 8684. Pedigree - IA681/Settler//Don/PI502958. Spring oat. Early midseason maturity, good test weight, red seed, moderate lodging, good groat percentage, medium high protein, low oil, and medium beta glucan. Susceptible to smut, resistant to crown rust, and moderately susceptible to BYDV.

**PI 615167. *Avena sativa* L.**

Breeding. Pureline. SD 94155; NSGC 8685. Pedigree - IA681/Settler//Don/PI502958. Spring oat. Very early maturity, red grain, good test weight, medium straw strength, good groat percentage,

medium protein, low oil, and medium beta glucan. Resistant to crown rust, susceptible to smut, and moderately susceptible to BYDV.

**PI 615168. *Avena sativa* L.**

Breeding. Pureline. SD 91228; NSGC 8686. Pedigree - WIX2221-2/Noble/3/Dal/Allen//MN78142. Spring oat. Medium maturity, very high test weight, moderate straw strength, high protein, moderately high groat percentage, medium high oil, and medium beta glucan. Moderately resistant to crown rust, resistant to smut, and moderately susceptible to BYDV.

**PI 615169. *Avena sativa* L.**

Breeding. Pureline. SD 89504; NSGC 8687. Pedigree - Settler/4/Nodaway 70/Dal//Moore/3/Dumont. Spring oat. Very high test weight, moderately late heading, medium straw strength, high groat percentage, high protein, medium oil, and medium beta glucan. Resistant to smut, resistant to moderately resistant to crown rust, and moderately susceptible to BYDV.

**PI 615170. *Avena sativa* L.**

Breeding. Pureline. SD 91008; NSGC 8688. Pedigree - Don/PI502958. Spring oat. High test weight, very early maturity, medium straw strength, medium groat percentage, high protein, medium oil, and medium beta glucan. Resistant to smut, susceptible to BYDV, and resistant to moderately resistant to crown rust.

The following were donated by N. Quat Ng, International Institute of Tropical Agriculture, Oyo Road, PMB 5320, Ibadan, Oyo, Nigeria. Received 09/28/1992.

**PI 615171. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 7362; Grif 12070.

**PI 615172. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 7363; Grif 12071.

**PI 615173. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 7427; Grif 12072.

**PI 615174. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 7859; Grif 12073.

**PI 615175. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 11563; Grif 12074.

**PI 615176. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 11730; Grif 12075.

**PI 615177. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 13815; VCR 193-T-7; Grif 12171.

**PI 615178. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 13816; VCR 204-T-2; Grif 12172.

**PI 615179. *Vigna unguiculata* (L.) Walp. subsp. *unguiculata***  
TVu 13817; VCR 206A-T-5; Grif 12173.

- PI 615180. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13818; Piteinba; Grif 12174.
- PI 615181. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13819; Ovebra Codeira; Grif 12175.
- PI 615182. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13823; AJ 01; Grif 12178.
- PI 615183. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13834; G-31; Grif 12187.
- PI 615184. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13840; G-39; Grif 12192.
- PI 615185. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13841; G-44; Grif 12193.
- PI 615186. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13843; G-53; Grif 12195.
- PI 615187. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13854; G-96; Grif 12206.
- PI 615188. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13874; G-176; Grif 12223.
- PI 615189. *Vigna unguiculata* (L.) Walp. subsp. unguiculata**  
TVu 13875; G-179; Grif 12224.

The following were developed by Arnel R. Hallauer, Iowa State University, Department of Agronomy, 1401 Agronomy Hall, Ames, Iowa 50011-1010, United States; Paul R. White, Iowa State University, Dept. of Agronomy, Ames, Iowa 50011, United States; Kendall R. Lamkey, USDA, ARS, Iowa State University, 1555 Agronomy, Ames, Iowa 50011, United States. Donated by Arnel R. Hallauer, Iowa State University, Department of Agronomy, 1401 Agronomy Hall, Ames, Iowa 50011-1010, United States. Received 12/21/2000.

- PI 615190. *Zea mays* L. subsp. mays**  
Breeding. Inbred. B115; 2000:154; Ames 26141. PL-304. Pedigree - BS11(FR)C9-3227-9-1-1-1-1-1-1-1-1-1. Height medium with excellent plant health for moderate resistance to 1st and 2nd generations of European corn borer and fungal leaf diseases. Flowers 90 to 95 days after planting. Flint yellow kernels on red cobs. Exhibits good combining ability with lines derived from Iowa Stiff Stalk Synthetic.

The following were donated by Joshua Tao, 8922 Diamond Lake Lane, Houston, Texas 77083, United States. Received 09/05/1996.

- PI 615191. *Oryza sativa* L.**  
Cultivar. Pureline. "B5-XIEQINZAO"; SQ96-7; NSGC 6148. Developed in China.
- PI 615192. *Oryza sativa* L.**  
Cultivar. Pureline. "YOU-I B"; SQ96-10; NSGC 6151. Developed in China.

- PI 615193. *Oryza sativa* L.**  
Cultivar. Pureline. "JIN-23 B"; SQ96-11; NSGC 6152. Developed in China.
- PI 615194. *Oryza sativa* L.**  
Cultivar. Pureline. "BO B"; SQ96-14; NSGC 6155. Developed in China.
- PI 615195. *Oryza sativa* L.**  
Cultivar. Pureline. "R 647"; SQ96-15; NSGC 6156. Developed in China.
- PI 615196. *Oryza sativa* L.**  
Cultivar. Pureline. "CE 64"; IR9761; SQ96-16; NSGC 6157. Developed in China. Pedigree - IR8464/IR36.

The following were donated by China National Rice Research Institute, Hangzhou, Zhejiang, China. Received 09/05/1996.

- PI 615197. *Oryza sativa* L.**  
Cultivar. Pureline. "NANJING 11"; SQ96-23; NSGC 6164. Developed in China. Pedigree - Liang Zuo/Ai Zi Zhong Shan Xuan = DW333/DW334.
- PI 615198. *Oryza sativa* L.**  
Cultivar. Pureline. "CHUNJIANGZAO NO. 1"; SQ96-25; NSGC 6166. Developed in China.
- PI 615199. *Oryza sativa* L.**  
Cultivar. Pureline. "LUHONGZAO"; SQ96-30; NSGC 6171. Developed in China.
- PI 615200. *Oryza sativa* L.**  
Cultivar. Pureline. "ZHONG 156"; SQ96-35; NSGC 6176. Developed in China.
- PI 615201. *Oryza sativa* L.**  
Cultivar. Pureline. "ZHONGYOUWAN NO. 1"; SQ96-36; NSGC 6177. Developed in China.
- PI 615202. *Oryza sativa* L.**  
Cultivar. Pureline. "ZHONG 86-44"; SQ96-37; NSGC 6178. Developed in China. Pedigree - Zhefu 802/Guang Lu Ai 4//HA79317-7.
- PI 615203. *Oryza sativa* L.**  
Cultivar. Pureline. "ZHONGYOUZAO NO. 5"; SQ96-39; NSGC 6180. Developed in China.
- PI 615204. *Oryza sativa* L.**  
Cultivar. Pureline. "ZHONG 413"; SQ96-40; NSGC 6181. Developed in China.
- PI 615205. *Oryza sativa* L.**  
Cultivar. Pureline. "JING 185-7"; SQ96-43; NSGC 6184. Developed in China.
- PI 615206. *Oryza sativa* L.**  
Cultivar. Pureline. "MINKEZAO NO. 22"; SQ96-46; NSGC 6187. Developed in China.
- PI 615207. *Oryza sativa* L.**  
Cultivar. Pureline. "LONGQING NO. 3"; SQ96-49; NSGC 6190. Developed in

China.

**PI 615208. *Oryza sativa* L.**

Cultivar. Pureline. "LUDAO"; SQ96-50; NSGC 6191. Developed in China.  
Upland rice.

**PI 615209. *Oryza sativa* L.**

Cultivar. Pureline. "BENCHANGKUIFU NO. 3"; SQ96-51; NSGC 6192. Developed in China.

**PI 615210. *Oryza sativa* L.**

Cultivar. Pureline. "SHANGYU 394"; SQ96-55; NSGC 6196. Developed in China.

**PI 615211. *Oryza sativa* L.**

Cultivar. Pureline. "W48-3"; SQ96-59; NSGC 6200. Developed in China.

**PI 615212. *Oryza sativa* L.**

Cultivar. Pureline. "XIFENG 43"; SQ96-60; NSGC 6201. Developed in China.

**PI 615213. *Oryza sativa* L.**

Cultivar. Pureline. "XIANDAN"; SQ96-62; NSGC 6203. Developed in China.

**PI 615214. *Oryza sativa* L.**

Cultivar. Pureline. "DANWANBAO 24"; SQ96-66; NSGC 6207. Developed in China.

The following were donated by Chengdu Institute of Biology, Academia Sinica, P.O. Box 416, Chengdu, Sichuan, China. Received 09/05/1996.

**PI 615215. *Oryza sativa* L.**

Cultivar. Pureline. "MPH 501"; SQ96-75; NSGC 6216. Developed in China.

**PI 615216. *Oryza sativa* L.**

Cultivar. Pureline. "97B"; SQ96-79; NSGC 6220. Developed in China.

**PI 615217. *Oryza sativa* L.**

Cultivar. Pureline. "II-32B"; SQ96-80; NSGC 6221. Developed in China.

**PI 615218. *Oryza sativa* L.**

Cultivar. Pureline. "ZAO 402"; SQ96-81; NSGC 6222. Developed in China.

**PI 615219. *Oryza sativa* L.**

Cultivar. Pureline. "CHAOYANG NO. 1"; SQ96-92; NSGC 6233. Developed in China.

**PI 615220. *Oryza sativa* L.**

Cultivar. Pureline. "VRH 701"; SQ96-95; NSGC 6236. Developed in China.

**PI 615221. *Oryza sativa* L.**

Cultivar. Pureline. "SHENG H411"; SQ96-101; NSGC 6242. Developed in China.

**PI 615222. *Oryza sativa* L.**

Cultivar. Pureline. "ZHONGBAI NO. 4"; SQ96-104; NSGC 6245. Developed in China. Pedigree - Kiho/Nanjing 15.

The following were donated by Sichuan Agricultural University, Rice Research Institute, Wenjiang, Sichuan 611130, China. Received 09/05/1996.

**PI 615223. *Oryza sativa* L.**

Cultivar. Pureline. "DUOYINGLINSHUIDAO"; SQ96-120; NSGC 6261. Developed in China.

The following were donated by Joshua Tao, 8922 Diamond Lake Lane, Houston, Texas 77083, United States. Received 09/05/1996.

**PI 615224. *Oryza sativa* L.**

Breeding. Pureline. GL 2; SQ96-169; NSGC 6310. Developed in China.

**PI 615225. *Oryza sativa* L.**

Breeding. Pureline. 493; SQ96-172; NSGC 6313. Developed in China.

**PI 615226. *Oryza sativa* L.**

Breeding. Pureline. 4429-3; SQ96-176; NSGC 6317. Developed in China.

The following were donated by Institute for Plant Production & Qualification, Research Centre for Agrobotany, Tapioszele, Pest H-2766, Hungary. Received 10/26/1995.

**PI 615227. *Triticum aestivum* L. subsp. *aestivum***

Landrace. 28749; RCAT004795; Nagyatadi TF. Collected in Hungary.

The following were collected by Zhejiang Agricultural University, Hangzhou, Zhejiang, China. Donated by Chia-Tsang Liu, University of Idaho, Ag. Coop. Extension, 1214 Joseph St., Moscow, Idaho 83843, United States. Received 09/21/1998.

**PI 615228. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. "ZHE PA TA MAI"; NSGC 7386. Collected in Zhejiang, China. Collected in Japan.

The following were collected by Bundesamt fur Agrarbiologie, Referat Genbank, Wieningerstr. 8, Linz, Upper Austria A-4020, Austria. Donated by Heinrich Grausgruber, University of Agriculture, Gregor Mendel Str. 33, Wien, Vienna A-1180, Austria. Received 01/27/1997.

**PI 615229. *Triticum aestivum* L. subsp. *aestivum***

Landrace. BVAL 213064; Bartweizen; NSGC 7389. Collected in Upper Austria, Austria. Latitude 47 deg. 55' 48'' N. Longitude 13 deg. 31' 12'' E. Strass/Attergau. Resistant to scab in Austria.

**PI 615230. *Triticum aestivum* L. subsp. *aestivum***

Landrace. BVAL 213123; Sipbachzeller; NSGC 7390. Collected in Upper Austria, Austria. Latitude 48 deg. 4' 0'' N. Longitude 12 deg. 58' 0'' E. Ibm. Resistant to scab in Austria.

**PI 615231. *Triticum aestivum* L. subsp. *aestivum***

Landrace. BVAL 213142; Sipbachzeller; NSGC 7391. Collected in Styria, Austria. Latitude 47 deg. 33' 0'' N. Longitude 14 deg. 12' 0'' E. Ennstal. Resistant to scab in Austria.

**PI 615232. *Triticum aestivum* L. subsp. *aestivum***

Landrace. BVAL 213149; Sipbachzeller; NSGC 7392. Collected in Upper Austria, Austria. Latitude 47 deg. 53' 0'' N. Longitude 14 deg. 43' 0'' E. Gafrenz. Resistant to scab in Austria.

The following were donated by Denis de Froidmont, Centre de Recherches Agronomiques, Station d'Amelioration des Plantes, 4 rue du Bordia, Gembloux, Namur B-5030, Belgium. Received 11/20/1997.

**PI 615233. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0002; 111; NSGC 7393. Collected in Luxembourg, Belgium. Latitude 50 deg. 5' 0'' N. Longitude 5 deg. 8' 0'' E. Halma.

**PI 615234. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0003; 115; NSGC 7394. Collected in Namur, Belgium. Latitude 50 deg. 7' 0'' N. Longitude 5 deg. 9' 0'' E. Ave et Auffe.

**PI 615235. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0004; 118; NSGC 7395. Collected in Luxembourg, Belgium. Latitude 50 deg. 5' 0'' N. Longitude 5 deg. 8' 0'' E. Halma.

**PI 615236. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0005; 122; NSGC 7396. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615237. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0006; 123.1; NSGC 7397. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615238. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0007; 123.2; NSGC 7398. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615239. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0008; 128.1; NSGC 7399. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615240. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0009; 128.2; NSGC 7400. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615241. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0010; 128.3; NSGC 7401. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615242. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0011; 129; NSGC 7402. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

**PI 615243. *Triticum aestivum* subsp. *spelta* (L.) Thell.**

Landrace. GBXTS-0012; 130.1; NSGC 7403. Collected in Luxembourg, Belgium. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

- PI 615244. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0013; 130.2; NSGC 7404. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615245. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0014; 131; NSGC 7405. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615246. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0015; 133; NSGC 7406. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615247. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0016; 134; NSGC 7407. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615248. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0017; NSGC 7408. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615249. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0018; 136; NSGC 7409. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615250. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0019; 138; NSGC 7410. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615251. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0020; 140; NSGC 7411. Collected in Namur, Belgium.  
Latitude 50 deg. 7' 0'' N. Longitude 5 deg. 9' 0'' E. Ave et Auffe.
- PI 615252. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0021; 144; NSGC 7412. Collected in Namur, Belgium.  
Latitude 50 deg. 7' 0'' N. Longitude 5 deg. 9' 0'' E. Ave et Auffe.
- PI 615253. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0022; 150; NSGC 7413. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 5' 0'' N. Longitude 5 deg. 8' 0'' E. Halma.
- PI 615254. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0023; 153; NSGC 7414. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615255. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0024; 154.1; NSGC 7415. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615256. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0025; 154.2; NSGC 7416. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615257. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0026; 154.3; NSGC 7417. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.

- PI 615258. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0027; 154.4; NSGC 7418. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615259. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0028; 154.5; NSGC 7419. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615260. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0029; 154.6; NSGC 7420. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615261. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0030; 155; NSGC 7421. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615262. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0031; 158; NSGC 7422. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615263. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0032; 159; NSGC 7423. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 12' 0'' E. Transinne.
- PI 615264. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0033; 160; NSGC 7424. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 10' 0'' E. Redu.
- PI 615265. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0034; 203.1; NSGC 7425. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 14' 0'' N. Longitude 5 deg. 25' 0'' E. A. Marenne  
Thilessart.
- PI 615266. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0035; 203.2; NSGC 7426. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 14' 0'' N. Longitude 5 deg. 25' 0'' E. A. Marenne  
Thilessart.
- PI 615267. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0036; 207; NSGC 7427. Collected in Luxembourg, Belgium.  
Latitude 45 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. Paliseul.
- PI 615268. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0037; 208.1; NSGC 7428. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. Paliseul.
- PI 615269. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0038; 208.2; NSGC 7429. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. Paliseul.
- PI 615270. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0039; 208.3; NSGC 7430. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. Paliseul.
- PI 615271. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0040; 214.1; NSGC 7431. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 17' 0'' N. Longitude 5 deg. 31' 0'' E. Soy.

- PI 615272. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0041; 214.2; NSGC 7432. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 17' 0'' N. Longitude 5 deg. 31' 0'' E. Soy.
- PI 615273. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0042; 217; NSGC 7433. Collected in Belgium. E. Baltazard  
.
- PI 615274. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0043; 223; NSGC 7434. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 5' 0'' N. Longitude 5 deg. 8' 0'' E. Halma.
- PI 615275. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0044; 226; NSGC 7435. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. Paliseul.
- PI 615276. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0045; 228; NSGC 7436. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 8' 0'' E. region of  
Paliseul.
- PI 615277. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0046; 229; NSGC 7437. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 58' 0'' N. Longitude 5 deg. 13' 0'' E. Villance.
- PI 615278. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0047; 234; NSGC 7438. Collected in Namur, Belgium.  
Latitude 50 deg. 15' 0'' N. Longitude 5 deg. 0' 0'' E. Foy Notre Dame.
- PI 615279. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0048; 238; NSGC 7439. Collected in Namur, Belgium.  
Latitude 50 deg. 15' 0'' N. Longitude 5 deg. 6' 0'' E. Corbion-Leignon.
- PI 615280. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0049; 239; NSGC 7440. Collected in Namur, Belgium.  
Latitude 50 deg. 13' 0'' N. Longitude 5 deg. 3' 0'' E. Custinne.
- PI 615281. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0050; 240; NSGC 7441. Collected in Namur, Belgium.  
Latitude 50 deg. 10' 0'' N. Longitude 5 deg. 13' 0'' E. region of  
Rochefort.
- PI 615282. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0051f; 244; NSGC 7442. Collected in Namur, Belgium.  
Latitude 50 deg. 13' 0'' N. Longitude 5 deg. 7' 0'' E. Chevetogne.
- PI 615283. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0052; 253; NSGC 7443. Collected in Namur, Belgium.  
Latitude 50 deg. 13' 0'' N. Longitude 5 deg. 8' 0'' E. Montgauthier.
- PI 615284. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0053; 258.1; NSGC 7444. Collected in Antwerp, Belgium.  
Latitude 51 deg. 2' 0'' N. Longitude 4 deg. 28' 0'' E. Malinnes.
- PI 615285. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0054; 258.2; NSGC 7445. Collected in Antwerp, Belgium.

Latitude 51 deg. 2' 0'' N. Longitude 4 deg. 28' 0'' E. Malinnes.

- PI 615286. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0055; 259; NSGC 7446. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 48' 0'' N. Longitude 5 deg. 30' 0'' E. Lavaux.
- PI 615287. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0056; 260.1; NSGC 7447. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 55' 0'' N. Longitude 5 deg. 27' 0'' E.  
Renaumont-Sainte Marie.
- PI 615288. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0057; 260.2; NSGC 7448. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 55' 0'' N. Longitude 5 deg. 27' 0'' E.  
Renaumont-Sainte Marie.
- PI 615289. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0058; 262; NSGC 7449. Collected in Namur, Belgium.  
Latitude 50 deg. 18' 0'' N. Longitude 5 deg. 6' 0'' E. vicinity of Ciney  
.
- PI 615290. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0059; 263; NSGC 7450. Collected in Namur, Belgium.  
Latitude 50 deg. 20' 0'' N. Longitude 5 deg. 11' 0'' E. Morin Achet.
- PI 615291. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0060; 264; NSGC 7451. Collected in Namur, Belgium.  
Latitude 50 deg. 15' 0'' N. Longitude 5 deg. 6' 0'' E. Corbion-Leignon.
- PI 615292. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0061; 265; NSGC 7452. Collected in Namur, Belgium.  
Latitude 50 deg. 18' 0'' N. Longitude 5 deg. 2' 0'' E. Sovet.
- PI 615293. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0062; 267.1; NSGC 7453. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 47' 0'' N. Longitude 5 deg. 37' 0'' E. Anlier.
- PI 615294. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0063; 267.2; NSGC 7454. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 47' 0'' N. Longitude 5 deg. 37' 0'' E. Anlier.
- PI 615295. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0064; 268; NSGC 7455. Collected in Namur, Belgium.  
Latitude 50 deg. 16' 0'' N. Longitude 4 deg. 30' 0'' E. Fraire.
- PI 615296. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0065; 269; NSGC 7456. Collected in Namur, Belgium.  
Latitude 50 deg. 11' 0'' N. Longitude 4 deg. 37' 0'' E. Merlemont.
- PI 615297. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0066; 270; NSGC 7457. Collected in Namur, Belgium.  
Latitude 50 deg. 18' 0'' N. Longitude 4 deg. 28' 0'' E. Somzee.
- PI 615298. *Triticum aestivum* subsp. *spelta*** (L.) Thell.  
Landrace. GBXTS-0067; 271; NSGC 7458. Collected in Namur, Belgium.  
Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 1' 0'' E. Oizy.

- PI 615299. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0068; 272; NSGC 7459. Collected in Namur, Belgium.  
Latitude 50 deg. 16' 0'' N. Longitude 5 deg. 7' 0'' E. Leignon.
- PI 615300. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0069; 273; NSGC 7460. Collected in Namur, Belgium.  
Latitude 50 deg. 7' 0'' N. Longitude 5 deg. 13' 0'' E. Belvaux-Wavreille  
.
- PI 615301. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0070; 274; NSGC 7461. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 52' 0'' N. Longitude 5 deg. 13' 0'' E. Glaumont.
- PI 615302. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0071; 275.1; NSGC 7462. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 52' 0'' N. Longitude 5 deg. 13' 0'' E. Glaumont.
- PI 615303. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0072; 275.2; NSGC 7463. Collected in Luxembourg, Belgium  
. Latitude 49 deg. 52' 0'' N. Longitude 5 deg. 13' 0'' E. Glaumont.
- PI 615304. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0073; 276; NSGC 7464. Collected in Namur, Belgium.  
Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 2' 0'' E. Baillamont.
- PI 615305. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0074; 278; NSGC 7465. Collected in Namur, Belgium.  
Latitude 49 deg. 54' 0'' N. Longitude 5 deg. 2' 0'' E. Baillamont.
- PI 615306. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0075; 280; NSGC 7466. Collected in Namur, Belgium.  
Latitude 50 deg. 4' 0'' N. Longitude 4 deg. 25' 0'' E. Aublain.
- PI 615307. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0076; 283; NSGC 7467. Collected in Namur, Belgium.  
Latitude 50 deg. 14' 0'' N. Longitude 4 deg. 41' 0'' E. Rosee.
- PI 615308. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0077; 284; NSGC 7468. Collected in Namur, Belgium.  
Latitude 50 deg. 13' 0'' N. Longitude 4 deg. 32' 0'' E. Jamagne.
- PI 615309. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0078; 285; NSGC 7469. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 58' 0'' N. Longitude 5 deg. 13' 0'' E. Villance.
- PI 615310. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0079; 266.1; NSGC 7470. Collected in Luxembourg, Belgium  
. Latitude 50 deg. 7' 0'' N. Longitude 5 deg. 33' 0'' E. Erneville.
- PI 615311. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0080; 289; NSGC 7471. Collected in Luxembourg, Belgium.  
Latitude 49 deg. 48' 0'' N. Longitude 5 deg. 28' 0'' E. Lavaux-Assenois.
- PI 615312. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0081; 290; NSGC 7472. Collected in Belgium. Lignee 73,  
Armon. Gerard a Baude.

- PI 615313. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0082; 291; NSGC 7473. Collected in Belgium. Lignee 73,  
Rene Hatterert a Baude.
- PI 615314. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0083; 292; NSGC 7474. Collected in Belgium. Charles  
Burnotte a Baude.
- PI 615315. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0084; 293; NSGC 7475. Collected in Belgium. Leon  
Collard - Harin.
- PI 615316. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0085; 294; NSGC 7476. Collected in Belgium. Leon  
Georges.
- PI 615317. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0086; 295; NSGC 7477. Collected in Belgium. Charles  
Burnotte.
- PI 615318. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0087; 296; NSGC 7478. Collected in Belgium. Jacques  
Collin a Halleu.
- PI 615319. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Cultivated. GBXTS-0088; 297; NSGC 7479. Collected in Belgium. Jacques  
Collin a Halleu.
- PI 615320. *Triticum aestivum* subsp. *spelta* (L.) Thell.**  
Landrace. GBXTS-0089; 298; NSGC 7480. Collected in Luxembourg, Belgium.  
Latitude 50 deg. 0' 0'' N. Longitude 5 deg. 43' 0'' E. Bastogne.

The following were collected by Chinese Academy of Agricultural Sciences,  
Institute of Crop Germplasm Resources, Crop Introduction Laboratory, Beijing,  
Beijing 100081, China. Donated by Richard Wang, USDA-ARS, Forage & Range  
Research Laboratory, Utah State University, Logan, Utah 84322-6300, United  
States. Received 04/30/1996.

- PI 615321. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "BAI MONG MAI"; Jing 217; NSGC 7586. Collected in China. High  
protein.
- PI 615322. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "LIANG MAI"; Jing 1467; NSGC 7587. Collected in China. High  
protein.
- PI 615323. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "KER YI 26"; Jing 2918; NSGC 7589. Collected in China. Salt  
tolerant.
- PI 615324. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "ZHONG ZHO 634"; Jing 3555; NSGC 7590. Collected in China.  
Stress tolerant.
- PI 615325. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "YUAN DONG 847"; Jing 3915; NSGC 7591. Collected in China.

Stress tolerant.

- PI 615326. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "FONG KONG 8"; Jing 3467; NSGC 7592. Collected in China. High yield.
- PI 615327. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "DONG SHIEH 1"; Jing 3610; NSGC 7595. Collected in China. High yield.
- PI 615328. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "BEIJING 837"; Jing 3556; NSGC 7596. Collected in China. High yield.
- PI 615329. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "PING YI 79-5049"; Jing 3823; NSGC 7598. Collected in China. Early maturity.
- PI 615330. *Triticum aestivum* L. subsp. *aestivum***  
Cultivar. "JING HER 90 JIAN 4"; Jing 4682; NSGC 7600. Collected in China. Early maturity.

The following were donated by Institute for Agrobotany, Kulsomezo 15, Tapioszele, Pest 2766, Hungary. Received 06/10/1999.

- PI 615331. *Secale cereale* L. subsp. *cereale***  
Landrace. RCAT013928; NSGC 7694. Collected in Bacs-Kiskun, Hungary. Latitude 46 deg. 41' 0'' N. Longitude 19 deg. 41' 0'' E. Bugac.
- PI 615332. *Secale sylvestre* Host**  
Wild. RCAT042415; NSGC 7698. Collected in Pest, Hungary. Latitude 47 deg. 31' 0'' N. Longitude 19 deg. 33' 0'' E. Dany.
- PI 615333. *Secale sylvestre* Host**  
Wild. RCAT042416; NSGC 7699. Collected in Pest, Hungary. Latitude 47 deg. 22' 0'' N. Longitude 19 deg. 51' 0'' E. Farnos.
- PI 615334. *Secale sylvestre* Host**  
Wild. RCAT042417; NSGC 7700. Collected in Pest, Hungary. Latitude 47 deg. 38' 0'' N. Longitude 19 deg. 36' 0'' E. Tura.
- PI 615335. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000120; NSGC 7701. Collected in Bekes, Hungary. Latitude 47 deg. 7' 0'' N. Longitude 21 deg. 13' 0'' E. Fuzesgyarmat.
- PI 615336. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000132; NSGC 7702. Collected in Szabolcs-Szatmar, Hungary. Latitude 48 deg. 2' 0'' N. Longitude 21 deg. 14' 0'' E. Tiszadada.
- PI 615337. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000396; NSGC 7703. Collected in Szolnok, Hungary. Latitude 47 deg. 17' 0'' N. Longitude 20 deg. 27' 0'' E. Nagykoru.
- PI 615338. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000403; NSGC 7704. Collected in Hajdu-Bihar, Hungary. Latitude 47 deg. 1' 0'' N. Longitude 21 deg. 32' 0'' E. Komadi.

- PI 615339. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000411; NSGC 7705. Collected in Veszprem, Hungary.  
Latitude 47 deg. 0' 0'' N. Longitude 17 deg. 26' 0'' E. Nyirad.
- PI 615340. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000038; NSGC 7706. Collected in Zala, Hungary. Latitude 46  
deg. 58' 0'' N. Longitude 17 deg. 1' 0'' E. Zalaber.
- PI 615341. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000051; NSGC 7707. Collected in Borsod-Abauj-Zemplen,  
Hungary. Latitude 48 deg. 0' 0'' N. Longitude 20 deg. 55' 0'' E. Onod.
- PI 615342. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000052; NSGC 7708. Collected in Borsod-Abauj-Zemplen,  
Hungary. Latitude 47 deg. 58' 0'' N. Longitude 20 deg. 55' 0'' E.  
Sajoszoged.
- PI 615343. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000055; NSGC 7709. Collected in Pest, Hungary. Latitude 48  
deg. 1' 0'' N. Longitude 18 deg. 54' 0'' E. Kemence.
- PI 615344. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000057; NSGC 7710. Collected in Csongrad, Hungary.  
Latitude 46 deg. 35' 0'' N. Longitude 20 deg. 21' 0'' E. Derekegyhaz.
- PI 615345. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000059; NSGC 7711. Collected in Csongrad, Hungary.  
Latitude 46 deg. 39' 0'' N. Longitude 20 deg. 16' 0'' E. Szentes.
- PI 615346. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000060; NSGC 7712. Collected in Szabolcs-Szatmar, Hungary.  
Latitude 48 deg. 2' 0'' N. Longitude 22 deg. 36' 0'' E. Komoro.
- PI 615347. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000062; NSGC 7713. Collected in Heves, Hungary. Latitude  
47 deg. 38' 0'' N. Longitude 20 deg. 35' 0'' E. Ujlorincfalva.
- PI 615348. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000064; NSGC 7714. Collected in Heves, Hungary. Latitude  
47 deg. 57' 0'' N. Longitude 20 deg. 29' 0'' E. Noszvaj.
- PI 615349. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000065; NSGC 7715. Collected in Heves, Hungary. Latitude  
48 deg. 9' 0'' N. Longitude 20 deg. 26' 0'' E. Nagyvisnyo.
- PI 615350. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000066; NSGC 7716. Collected in Heves, Hungary. Latitude  
48 deg. 2' 0'' N. Longitude 20 deg. 6' 0'' E. Erdokovesd.
- PI 615351. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000067; NSGC 7717. Collected in Heves, Hungary. Latitude  
47 deg. 58' 0'' N. Longitude 20 deg. 5' 0'' E. Matraderecske.
- PI 615352. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000069; NSGC 7718. Collected in Heves, Hungary. Latitude  
47 deg. 58' 0'' N. Longitude 20 deg. 10' 0'' E. Szajla.

- PI 615353. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000070; NSGC 7719. Collected in Heves, Hungary. Latitude 47 deg. 37' 0'' N. Longitude 20 deg. 27' 0'' E. Komlo.
- PI 615354. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000071; NSGC 7720. Collected in Heves, Hungary. Latitude 47 deg. 43' 0'' N. Longitude 20 deg. 29' 0'' E. Mezőtarkány.
- PI 615355. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000140; NSGC 7721. Collected in Borsod-Abaúj-Zemplén, Hungary. Latitude 47 deg. 50' 0'' N. Longitude 21 deg. 1' 0'' E. Tiszatárján.
- PI 615356. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000248; NSGC 7722. Collected in Fejér, Hungary. Latitude 47 deg. 23' 0'' N. Longitude 18 deg. 27' 0'' E. Csákvár.
- PI 615357. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000394; NSGC 7723. Collected in Borsod-Abaúj-Zemplén, Hungary. Latitude 48 deg. 18' 0'' N. Longitude 21 deg. 32' 0'' E. Bodrogolaszi.
- PI 615358. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000397; NSGC 7724. Collected in Veszprém, Hungary. Latitude 47 deg. 8' 0'' N. Longitude 17 deg. 22' 0'' E. Somlóvásárhely.
- PI 615359. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000398; NSGC 7725. Collected in Nógrád, Hungary. Latitude 48 deg. 4' 0'' N. Longitude 19 deg. 3' 0'' E. Dregelypálank.
- PI 615360. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000399; NSGC 7726. Collected in Nógrád, Hungary. Latitude 47 deg. 59' 0'' N. Longitude 19 deg. 7' 0'' E. Borsosberény.
- PI 615361. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000400; NSGC 7727. Collected in Borsod-Abaúj-Zemplén, Hungary. Latitude 48 deg. 21' 0'' N. Longitude 21 deg. 56' 0'' E. Nagyrózvagy.
- PI 615362. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000401; NSGC 7728. Collected in Pest, Hungary. Latitude 47 deg. 10' 0'' N. Longitude 19 deg. 37' 0'' E. Mikebuda.
- PI 615363. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000404; NSGC 7729. Collected in Bács-Kiskun, Hungary. Latitude 46 deg. 8' 0'' N. Longitude 18 deg. 53' 0'' E. Szeremle.
- PI 615364. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000405; NSGC 7730. Collected in Szabolcs-Szatmár, Hungary. Latitude 47 deg. 52' 0'' N. Longitude 22 deg. 1' 0'' E. Pocspetri.
- PI 615365. *Triticum aestivum* L. subsp. *aestivum***  
Landrace. RCAT000406; NSGC 7731. Collected in Somogy, Hungary. Latitude 46 deg. 38' 0'' N. Longitude 17 deg. 45' 0'' E. Gamas.
- PI 615366. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT000408; NSGC 7732. Collected in Borsod-Abauj-Zemplen, Hungary. Latitude 47 deg. 57' 0'' N. Longitude 20 deg. 49' 0'' E. Emod.

**PI 615367. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT000409; NSGC 7733. Collected in Gyor-Sopron, Hungary. Latitude 47 deg. 34' 0'' N. Longitude 17 deg. 43' 0'' E. Ecs.

**PI 615368. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT000430; NSGC 7734. Collected in Szolnok, Hungary. Latitude 47 deg. 18' 0'' N. Longitude 20 deg. 4' 0'' E. Ujszasz.

**PI 615369. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT000491; NSGC 7735. Collected in Gyor-Sopron, Hungary. Latitude 47 deg. 55' 0'' N. Longitude 17 deg. 25' 0'' E. Kisbodak.

**PI 615370. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT000412; NSGC 7736. Collected in Csongrad, Hungary. Latitude 46 deg. 15' 0'' N. Longitude 20 deg. 9' 0'' E. Szeged (Szoreg).

**PI 615371. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT001801; NSGC 7737. Collected in Szolnok, Hungary. Latitude 47 deg. 28' 0'' N. Longitude 20 deg. 43' 0'' E. Jaszkiser.

**PI 615372. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003312; NSGC 7738. Collected in Csongrad, Hungary. Latitude 46 deg. 36' 0'' N. Longitude 20 deg. 17' 0'' E. Csanytelek.

**PI 615373. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003313; NSGC 7739. Collected in Szabolcs-Szatmar, Hungary. Latitude 48 deg. 6' 0'' N. Longitude 22 deg. 46' 0'' E. Milota.

**PI 615374. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003334; NSGC 7740. Collected in Bekes, Hungary. Latitude 47 deg. 12' 0'' N. Longitude 21 deg. 0' 0'' E. Bucsa.

**PI 615375. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003418; NSGC 7741. Collected in Bekes, Hungary. Latitude 46 deg. 38' 0'' N. Longitude 21 deg. 22' 0'' E. Gyulavari.

**PI 615376. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003768; NSGC 7742. Collected in Borsod-Abauj-Zemplen, Hungary. Latitude 48 deg. 20' 0'' N. Longitude 21 deg. 59' 0'' E. Ricse.

**PI 615377. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003782; NSGC 7743. Collected in Heves, Hungary. Latitude 47 deg. 45' 0'' N. Longitude 20 deg. 15' 0'' E. Kompolt.

**PI 615378. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003784; NSGC 7744. Collected in Csongrad, Hungary. Latitude 46 deg. 11' 0'' N. Longitude 20 deg. 26' 0'' E. Kiszombor.

**PI 615379. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003865; NSGC 7745. Collected in Bekes, Hungary. Latitude 46 deg. 56' 0'' N. Longitude 20 deg. 50' 0'' E. Gyoma.

**PI 615380. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003874; NSGC 7746. Collected in Szolnok, Hungary. Latitude

47 deg. 19' 0'' N. Longitude 20 deg. 55' 0'' E. Karcag.

**PI 615381. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT003906; NSGC 7747. Collected in Bekes, Hungary. Latitude 46 deg. 55' 0'' N. Longitude 21 deg. 16' 0'' E. Veszto.

**PI 615382. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004126; NSGC 7748. Collected in Zala, Hungary. Latitude 46 deg. 33' 0'' N. Longitude 17 deg. 3' 0'' E. Nagybakonak.

**PI 615383. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT002105; NSGC 7749. Collected in Somogy, Hungary. Latitude 46 deg. 4' 0'' N. Longitude 17 deg. 26' 0'' E. Csokonyavisonta.

**PI 615384. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT002116; NSGC 7750. Collected in Pest, Hungary. Latitude 47 deg. 22' 0'' N. Longitude 19 deg. 53' 0'' E. Tapioszele.

**PI 615385. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004129; NSGC 7751. Collected in Nograd, Hungary. Latitude 47 deg. 56' 0'' N. Longitude 10 deg. 10' 0'' E. Bank.

**PI 615386. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004555; NSGC 7752. Collected in Bacs-Kiskun, Hungary. Latitude 46 deg. 54' 0'' N. Longitude 19 deg. 41' 0'' E. Kecskemet.

**PI 615387. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004556; NSGC 7753. Collected in Nograd, Hungary. Latitude 47 deg. 6' 0'' N. Longitude 19 deg. 6' 0'' E. Retsag.

**PI 615388. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004759; NSGC 7754. Collected in Csongrad, Hungary. Latitude 46 deg. 18' 0'' N. Longitude 20 deg. 44' 0'' E. Pitvaros.

**PI 615389. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004795; NSGC 7755. Collected in Somogy, Hungary. Latitude 46 deg. 14' 0'' N. Longitude 17 deg. 22' 0'' E. Nagyatad.

**PI 615390. *Triticum aestivum* L. subsp. *aestivum***

Landrace. RCAT004797; NSGC 7756. Collected in Fejer, Hungary. Latitude 47 deg. 19' 0'' N. Longitude 18 deg. 47' 0'' E. Martonvasar.

The following were developed by Dermot P. Coyne, University of Nebraska, Department of Horticulture, 386 Plant Sciences Hall, Lincoln, Nebraska 68583-0724, United States. Received 06/27/2000.

**PI 615391. *Phaseolus vulgaris* L.**

Cultivar. Pureline. "EMERSON"; Nebr. BW-68-45; W6 22536. Pedigree - Great Northern 1140 / PI 165078. Large seeded (0.40-0.43 g/seed) of medium maturity (91-96 days), with a viny plant habit (type III). Resistant to all strains of bacterial wilt (*Curtobacterium flaccumfacies*), moderately resistant to common bacterial blight (*Xanthomonas campestris*), and resistant to bean common mosaic virus.

**PI 615392. *Phaseolus vulgaris* L.**

Cultivar. Pureline. "HARRIS"; W6 22537. Pedigree - Derived by bulking

100 moderately early plants in a field of Great Northern Valley. High yielding with a prostrate viny growth habit (type III), medium seed size (36-38 g/100 seed), and moderately late maturity (91-95 days). Possesses multiple disease resistance to common blight (*Xanthomonas compestris*), halo blight (*Pseudomonas syringae* pv. *phaseolicola*), brown spot (*Pseudomonas syringae* pv. *syringae*), and to bean common mosaic virus. Susceptible to rust (*Uromyces appendiculatus*) and to white mold (*Sclerotinia sclerotiorum*) due to dense canopy.

**PI 615393. *Phaseolus vulgaris* L.**

Cultivar. Pureline. "MONUMENT"; W6 22539. Pedigree - Aurora/3/small white #533\*/small white #53/Meader #1. Released 2000. Small white dry bean (0.15 g/seed) with an upright and porous plant habit (type IIa), and early maturity (85-90 days). Resistant to some strains of rust (*Uromyces appendiculatus*), and to bean common mosaic virus, and has good avoidance to white mold (*Sclerotinia sclerotiorum*) due to upright plant habit. Susceptible to common blight (*Xanthomonas campestris*).

**PI 615394. *Phaseolus vulgaris* L.**

Cultivar. Pureline. "VALLEY"; W6 22542. Pedigree - GN 1140 / GN Nebr. #1 sel. 27. High yielding with prostrate very viny growth habit (type III), with medium seed size (30-38 g/100 seed), and moderately late maturity (93-100 days). Possesses multiple disease resistance to the bacterial pathogens common blight (*Xanthomonas campestris*), halo blight (*Pseudomonas syringae* pv. *phaseolicola*), brown spot (*Pseudomonas syringae* pv. *syringae*), and to bean common mosaic virus.

The following were donated by Waller Flowerseed Company, P.O. Box 935, 4th and Obispo Streets, Guadalupe, California 93434, United States. Received 1962.

**PI 615395. *Lupinus mexicanus* Cerv. ex Lag.**  
NSL 15513; GIANT KING W-F FORMULA BLEND.

**PI 615396. *Lupinus mexicanus* Cerv. ex Lag.**  
NSL 15514; GIANT KING BLUE.

**PI 615397. *Lupinus mexicanus* Cerv. ex Lag.**  
NSL 15515; GIANT KING HELIOTROPE.

**PI 615398. *Lupinus mexicanus* Cerv. ex Lag.**  
NSL 15516; GIANT KING SKY BLUE.

**PI 615399. *Lupinus mexicanus* Cerv. ex Lag.**  
NSL 15517; GIANT KING WHITE.

The following were donated by University of Florida, Florida Agr. Exp. Sta., Department of Agronomy, Gainesville, Florida 32611, United States. Received 1963.

**PI 615400. *Lupinus angustifolius* L.**  
NSL 26482; RITCHEY.

The following were donated by University of Arkansas, Arkansas Agr. Exp.

Sta., Fayetteville, Arkansas 72701, United States. Received 1967.

**PI 615401. *Lupinus albus* L.**  
NSL 56365; LINE NO 2.

**PI 615402. *Lupinus albus* L.**  
NSL 56366; LINE NO 3.

**PI 615403. *Lupinus albus* L.**  
NSL 56367; LINE NO 5.

**PI 615404. *Lupinus albus* L.**  
NSL 56368; LINE NO 6.

**PI 615405. *Lupinus albus* L.**  
NSL 56369; LINE NO 7.

**PI 615406. *Lupinus albus* L.**  
NSL 56370; LINE NO 8.

The following were donated by University of Florida, Florida Agr. Exp. Sta., Department of Agronomy, Gainesville, Florida 32611, United States. Received 1969.

**PI 615407. *Lupinus angustifolius* L.**  
Cultivar. "FROST"; REG NO 3; NSL 73047; NSL 90524. CV-3.

The following were donated by John D. Miller, USDA, ARS, Coastal Plain Experiment Station, Agronomy Dept., Tifton, Georgia 31793, United States. Received 1980.

**PI 615408. *Lupinus angustifolius* L.**  
Cultivar. "TIFBLUE-78"; NSL 109787. CV-5.

**PI 615409. *Lupinus albus* L.**  
Cultivar. "TIFWHITE-78"; NSL 109788. CV-6.

**PI 615410. *Lupinus angustifolius* L.**  
Breeding. WH-1; NSL 117761. GP-1.

**PI 615411. *Lupinus hispanicus* Boiss. & Reut.**  
Breeding. BICOLOR-1; NSL 166420. GP-2.

The following were donated by Susan Wallace, Bok Tower Gardens, P. O. Box 3810, Lake Wales, Florida 33859-3810, United States. Received 04/19/1990.

**PI 615412 CPCG. *Lupinus westianus* Small var. *westianus***  
Wild. LW 068909 S.

The following were collected by Teresa Kotlinska, Research Institute of Vegetable Crops, Plant Genetic Resources Laboratory, Konstytucji 3 Maja 1/3, Skierniewice, Skierniewice 96-100, Poland; Philipp W. Simon, USDA, ARS, Vegetable Crops Research Unit, University of Wisconsin, Department of

Horticulture, Madison, Wisconsin 53706, United States; Stelios Samaras, Center of Macedonia & Thrach, Greek Gene Bank, Thessaloniki, Macedonia 570 01, Greece. Received 09/15/1999.

**PI 615413. *Vigna unguiculata* subsp. *sesquipedalis* (L.) Verdc.**

Uncertain. G046; GPS 133; Grif 14277. Collected 08/1999 in Greece. Latitude 39 deg. 30' 39'' N. Longitude 20 deg. 26' 14'' E. Elevation 180 m. Thesprotia Pref. in Neohori; seed from Lefteris Kotsis dealer. Phil Simon will supply passport data to the NPGS sites at some later date. (Date now: 10/01/1999).

The following were donated by Institute for Plant Production & Qualification, Research Centre for Agrobotany, Tapioszele, Pest H-2766, Hungary. Received 10/26/1995.

**PI 615414. *X Triticosecale* sp.**

Cultivar. "TRITICALE 64"; 14918; RCAT013681. Developed in Hungary.

The following were collected by John F. Swenson, 245 Hawthorn Avenue, Glencoe, Illinois 60022, United States; Leonard M. Pike, Texas A&M University, Department of Horticulture, College Station, Texas 77843-2119, United States; Philipp W. Simon, USDA, ARS, Vegetable Crops Research Unit, University of Wisconsin, Department of Horticulture, Madison, Wisconsin 53706, United States. Received 09/06/1989.

**PI 615415. *Allium sativum* L. var. *sativum***

Cultivar. "MAISKI"; U025; W6 1860. Collected in Turkmenistan. Latitude 58 deg. 20' N. Longitude 38 deg. E. Ashkhabad, Turkmen.

The following were collected by I.G. Levichev. Donated by John F. Swenson, 245 Hawthorn Avenue, Glencoe, Illinois 60022, United States; Leonard M. Pike, Texas A&M University, Department of Horticulture, College Station, Texas 77843-2119, United States; Philipp W. Simon, USDA, ARS, Vegetable Crops Research Unit, University of Wisconsin, Department of Horticulture, Madison, Wisconsin 53706, United States. Received 09/06/1989.

**PI 615416. *Allium sativum* L. var. *sativum***

Wild. U079; W6 1890. Collected in Uzbekistan. Latitude 70 deg. 20' N. Longitude 41 deg. 20' E. Elevation 1300 m. Eastern Tien Shan, Chatkal, Uzbek.

The following were donated by John F. Swenson, 245 Hawthorn Avenue, Glencoe, Illinois 60022, United States. Received 11/09/1989.

**PI 615417. *Allium sativum* L. var. *sativum***

#36; W6 2557; GOMECAI.

**PI 615418. *Allium sativum* L. var. *sativum***

#33; W6 2558; ACHAIAMI.

The following were donated by Central Siberian Botanical Gardens, Academy of Sciences of USSR, Siberian Branch, Novosibirsk, Novosibirsk 630090, Russian

Federation. Received 05/14/1990.

**PI 615419. *Allium sativum* var. *ophioscorodon*** (Link) Doll  
Wild. W6 4264. Collected in Siberia, Former Soviet Union.

**PI 615420. *Allium sativum* var. *ophioscorodon*** (Link) Doll  
Cultivar. "SYBIRSKY"; W6 4285. Collected in Siberia, Former Soviet Union

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 07/12/1990.

**PI 615421. *Allium sativum* var. *ophioscorodon*** (Link) Doll  
Cultivated. WJK-PRC-4; W6 4462. Collected 05/21/1990 in Beijing, China. Latitude 39 deg. 56' 0'' N. Longitude 116 deg. 24' 0'' E. Local outdoor market, Beijing, near the Ministry of Agriculture Building. Bulbs large, white with reddish neck area.

The following were donated by J. De Andalucia, CIDA, Alameda del Obisposin, Apdo 240, Cordoba, Cordoba 14070, Spain. Received 11/20/1991.

**PI 615422. *Allium sativum* L. var. *sativum***  
Cultivar. "BLANCO DE HUELMA ZAMORA I"; W6 8407.

**PI 615423. *Allium sativum* var. *ophioscorodon*** (Link) Doll  
Cultivar. "BLANCO DE HUELMA ZAMORA-2"; W6 8408.

**PI 615424. *Allium sativum* L. var. *sativum***  
Cultivar. "FINO DE CHINCKO AJOFRIN"; W6 8412.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 08/24/1992.

**PI 615425. *Allium sativum* L. var. *sativum***  
Wild. B92-18; No. 115; W6 10731. Collected 06/26/1992 in Razgrad, Bulgaria. Latitude 43 deg. 31' 0'' N. Longitude 26 deg. 33' 0'' E. Mortogonovo Village. Local landrace.

**PI 615426. *Allium sativum* L. var. *sativum***  
Wild. B92-19; No. 116; W6 10732. Collected 06/26/1992 in Shumen, Bulgaria. Latitude 43 deg. 20' 0'' N. Longitude 26 deg. 14' 0'' E. Town of Popovo. Local landrace.

**PI 615427. *Allium sativum* L. var. *sativum***  
Wild. B92-20; No. 117; W6 10733. Collected 06/26/1992 in Plovdiv, Bulgaria. Latitude 42 deg. 13' 0'' N. Longitude 24 deg. 38' 0'' E. Voysil Village. Local landrace.

**PI 615428. *Allium sativum* var. *ophioscorodon* (Link) Doll**

Cultivated. B92-97; W6 10738. Collected 07/01/1992 in Bulgaria. Latitude 43 deg. 23' 0'' N. Longitude 28 deg. 5' 0'' E. Behind Institute of Wheat and Sunflower (IWS) Guest house, Albena. Local landrace.

The following were collected by James McFerson, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456, United States. Donated by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Received 09/01/1995.

**PI 615429. *Allium sativum* L. var. *sativum***

Cultivated. Jian Shang Dong; W6 17260. Collected 10/19/1994 in New York, United States. Commonly grown cultivar in province. Bulbs from commercial stock.

The following were developed by INRA, France. Donated by Francisco Mansilla Sousa, Centro de Investigacion y desarrollo agr, Alameda del obispa s/n, Apartado 240, Cordoba, Cordoba 14071, Spain. Received 10/23/1989.

**PI 615430. *Allium sativum* var. *ophioscorodon* (Link) Doll**

W6 1962; GERMIDOUR. Collected in France.

The following were donated by Horace Shaw, Sweetwater Farms, Route 1, Box 27, Weston, Oregon 97886, United States. Received 10/18/1993.

**PI 615431. *Allium sativum* L. var. *sativum***

W6 12911; ASIAN TEMPEST. Collected in Korea, South.

The following were donated by Greg Lutofsky, Greg Anthony's Alliums, 2025 136th Avenue E., Sumner, Washington 98390, United States. Received 09/15/1994.

**PI 615432. *Allium sativum* L. var. *sativum***

W6 16275. Collected in Vietnam.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Lufter Xhuveli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Received 09/1996.

**PI 615433. *Allium sativum* L. var. *sativum***

Cultivated. Al 020; W6 18618. Collected 08/25/1996 in Albania. Latitude 40 deg. 32' 44'' N. Longitude 19 deg. 25' 6'' E. Elevation 20 m. Vlore, market. Local variety. Fruit size small with many cloves.

**PI 615434. *Allium sativum* L. var. *sativum***

Cultivated. Al 078; W6 18643. Collected 08/28/1996 in Albania. Latitude 40 deg. 37' 11'' N. Longitude 20 deg. 46' 56'' E. Elevation 320 m. Korce, market. Local variety.

The following were donated by Truong Trong Ngon, Cantho University, Department of Crop Sciences, 3/2 Street, Can Tho, Vietnam. Received 01/29/2001.

- PI 615435. **Glycine max** (L.) Merr.  
Cultivated. O Mon 3; SY0101001.
- PI 615436. **Glycine max** (L.) Merr.  
Cultivated. A-79; SY0101002.
- PI 615437. **Glycine max** (L.) Merr.  
Cultivated. A.9; SY0101003.
- PI 615438. **Glycine max** (L.) Merr.  
Cultivated. Dong Phu 1; SY0101004.
- PI 615439. **Glycine max** (L.) Merr.  
Cultivated. Dau Ghep; SY0101005.
- PI 615440. **Glycine max** (L.) Merr.  
Cultivated. Den Van Quan; SY0101006.
- PI 615441. **Glycine max** (L.) Merr.  
Cultivated. Ba Vi; SY0101007.
- PI 615442. **Glycine max** (L.) Merr.  
Cultivated. Ban Thang; SY0101008.
- PI 615443. **Glycine max** (L.) Merr.  
Cultivated. Bac Luong; SY0101009.
- PI 615444. **Glycine max** (L.) Merr.  
Cultivated. Hong Linh b; SY0101010.
- PI 615445. **Glycine max** (L.) Merr.  
Cultivated. Hi Long 3; SY0101011.
- PI 615446. **Glycine max** (L.) Merr.  
Cultivated. Hoang Mai; SY0101012.
- PI 615447. **Glycine max** (L.) Merr.  
Cultivated. Mat Den; SY0101013.
- PI 615448. **Glycine max** (L.) Merr.  
Cultivated. MTD 455-3; SY0101014.
- PI 615449. **Glycine max** (L.) Merr.  
Cultivated. MTD 6; SY0101015.
- PI 615450. **Glycine max** (L.) Merr.  
Cultivated. Nam Can 4; SY0101016.
- PI 615451. **Glycine max** (L.) Merr.  
Cultivated. Nam Vang-1; SY0101017.

- PI 615452. **Glycine max** (L.) Merr.  
Cultivated. Nam Vang-2; SY0101018.
- PI 615453. **Glycine max** (L.) Merr.  
Cultivated. Nau Tua Chua; SY0101019.
- PI 615454. **Glycine max** (L.) Merr.  
Cultivated. Ngoc dong; SY0101020.
- PI 615455. **Glycine max** (L.) Merr.  
Cultivated. Santa Maria; SY0101021.
- PI 615456. **Glycine max** (L.) Merr.  
Cultivated. No 82; SY0101022.
- PI 615457. **Glycine max** (L.) Merr.  
Cultivated. No 92; SY0101023.
- PI 615458. **Glycine max** (L.) Merr.  
Cultivated. Tan Uyen 2; SY0101024.
- PI 615459. **Glycine max** (L.) Merr.  
Cultivated. Tho Xuan; SY0101025.
- PI 615460. **Glycine max** (L.) Merr.  
Cultivated. Tra Linh; SY0101026.
- PI 615461. **Glycine max** (L.) Merr.  
Cultivated. Trung Quoc; SY0101027.
- PI 615462. **Glycine max** (L.) Merr.  
Cultivated. V.70; SY0101028.
- PI 615463. **Glycine max** (L.) Merr.  
Cultivated. Den Trung Quoc; SY0101029.
- PI 615464. **Glycine max** (L.) Merr.  
Cultivated. Song Boi; SY0101030.
- PI 615465. **Glycine max** (L.) Merr.  
Cultivated. Den Cao Bang; SY0101031.
- PI 615466. **Glycine max** (L.) Merr.  
Cultivated. Viet Khai 1; SY0101032.
- PI 615467. **Glycine max** (L.) Merr.  
Cultivated. Vang Luc Khu; SY0101033.
- PI 615468. **Glycine max** (L.) Merr.  
Cultivated. Phi Hai; SY0101034.
- PI 615469. **Glycine max** (L.) Merr.  
Cultivated. No. 144; SY0101035.
- PI 615470. **Glycine max** (L.) Merr.  
Cultivated. No. 81; SY0101036.

- PI 615471. **Glycine max** (L.) Merr.  
Cultivated. Xanh Cao Bang; SY0101037.
- PI 615472. **Glycine max** (L.) Merr.  
Cultivated. Thanh Linh; SY0101038.
- PI 615473. **Glycine max** (L.) Merr.  
Cultivated. T4; SY0101039.
- PI 615474. **Glycine max** (L.) Merr.  
Cultivated. Viet Khai 5; SY0101040.
- PI 615475. **Glycine max** (L.) Merr.  
Cultivated. Minh Hai; SY0101041.
- PI 615476. **Glycine max** (L.) Merr.  
Cultivated. No. 1; SY0101042.
- PI 615477. **Glycine max** (L.) Merr.  
Cultivated. No. 290; SY0101043.
- PI 615478. **Glycine max** (L.) Merr.  
Cultivated. T105; SY0101044.
- PI 615479. **Glycine max** (L.) Merr.  
Cultivated. Hau Giang 1; SY0101045.
- PI 615480. **Glycine max** (L.) Merr.  
Cultivated. Xanh Ha Bac; SY0101046.
- PI 615481. **Glycine max** (L.) Merr.  
Cultivated. Tu Quy Xanh; SY0101047.
- PI 615482. **Glycine max** (L.) Merr.  
Cultivated. MTD.65; SY0101048.
- PI 615483. **Glycine max** (L.) Merr.  
Cultivated. T.87; SY0101049.
- PI 615484. **Glycine max** (L.) Merr.  
Cultivated. MTD 176; SY0101050.
- PI 615485. **Glycine max** (L.) Merr.  
Cultivated. Xuan Loc 2; SY0101051.
- PI 615486. **Glycine max** (L.) Merr.  
Cultivated. Can Tho 4; SY0101052.
- PI 615487. **Glycine max** (L.) Merr.  
Cultivated. Xanh Tien Dai; SY0101053.
- PI 615488. **Glycine max** (L.) Merr.  
Cultivated. Ha Lang; SY0101054.
- PI 615489. **Glycine max** (L.) Merr.  
Cultivated. Thoung Pham; SY0101055.

- PI 615490. **Glycine max** (L.) Merr.  
Cultivated. Vang Moc Chau; SY0101056.
- PI 615491. **Glycine max** (L.) Merr.  
Cultivated. Viet Khai 7; SY0101057.
- PI 615492. **Glycine max** (L.) Merr.  
Cultivated. Cao Qua Dia hoa tim; SY0101058.
- PI 615493. **Glycine max** (L.) Merr.  
Cultivated. Trung Quoc mat nau; SY0101059.
- PI 615494. **Glycine max** (L.) Merr.  
Cultivated. Ba thang te nau; SY0101060.
- PI 615495. **Glycine max** (L.) Merr.  
Cultivated. Vang Pu Nhung; SY0101061.
- PI 615496. **Glycine max** (L.) Merr.  
Cultivated. Mo Qua Kien Thuy hat nho long vang; SY0101062.
- PI 615497. **Glycine max** (L.) Merr.  
Cultivated. Vang Nguyen Duong; SY0101063.
- PI 615498. **Glycine max** (L.) Merr.  
Cultivated. Vang Muong Khuong; SY0101064.
- PI 615499. **Glycine max** (L.) Merr.  
Cultivated. Van Den Tu Liem; SY0101065.
- PI 615500. **Glycine max** (L.) Merr.  
Cultivated. Chi Thao long trang; SY0101066.
- PI 615501. **Glycine max** (L.) Merr.  
Cultivated. Bach Hoa Vang; SY0101067.
- PI 615502. **Glycine max** (L.) Merr.  
Cultivated. Mat trang Binh Dinh; SY0101068.
- PI 615503. **Glycine max** (L.) Merr.  
Cultivated. Da trau bong tim; SY0101069.
- PI 615504. **Glycine max** (L.) Merr.  
Cultivated. Nguu Mao Hong; SY0101070.
- PI 615505. **Glycine max** (L.) Merr.  
Cultivated. Ban doc a hat vang; SY0101071.
- PI 615506. **Glycine max** (L.) Merr.  
Cultivated. Mat hong Long Khanh; SY0101072.
- PI 615507. **Glycine max** (L.) Merr.  
Cultivated. Ban doc hat den; SY0101073.
- PI 615508. **Glycine max** (L.) Merr.  
Cultivated. Ban doc a hat den; SY0101074.

- PI 615509. *Glycine max* (L.) Merr.**  
Cultivated. Mo Qua Kien Thuy hat nho; SY0101075.
- PI 615510. *Glycine max* (L.) Merr.**  
Cultivated. Hat to 2 vu te nau; SY0101076.
- PI 615511. *Glycine max* (L.) Merr.**  
Cultivated. Nam Vang No. 4; SY0101077.
- PI 615512. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 1; ST #1; SY0101078.
- PI 615513. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 2; ST #2; SY0101079.
- PI 615514. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 3; ST #3; SY0101080.
- PI 615515. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 4; ST #4; SY0101081.
- PI 615516. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 5; ST #5; SY0101082.
- PI 615517. *Glycine max* (L.) Merr.**  
Cultivated. Soc Trang 6; ST #6; SY0101083.

The following were donated by Theodore Hymowitz, University Illinois, Department of Crop Sciences, 1102 South Goodwin Avenue, Urbana, Illinois 61801, United States. Received 01/29/2001.

- PI 615518. *Glycine max* (L.) Merr.**  
Cultivated. SY0102001.
- PI 615519. *Glycine max* (L.) Merr.**  
Cultivated. SY0102002.

The following were developed by Robert T. Lewellen, USDA, ARS, Crop Improvement and Protection Research, 1639 E. Alisal St., Salinas, California 93905, United States. Received 02/02/2001.

- PI 615520. *Beta vulgaris* L. subsp. *vulgaris***  
Breeding. Population. CZ25-9; Z025-9. GP-219. Pedigree - Multigerm, self-fertile, rhizomania, aa plants from population 912 x composite of ZZ Polish lines. High sugar S1 line with rhizomania resistance identified and increased in bulk. Multigerm, self-fertile, segregates for genetic male sterility (A-:aa), red hypocotyl,  $2n = 2x = 18$ . Resistant to rhizomania. Moderately susceptible to CTV, VY, Erwinia, Powdery mildew, bolting. High sucrose concentration and sugar yield GCA.
- PI 615521. *Beta vulgaris* L. subsp. *vulgaris***  
Breeding. Population. CR09-1; CR009-1. GP-220. Pedigree - Cercospora resistant accession from Italy crossed and backcrossed to multigerm, self-fertile, rhizomania resistant, aa plants from populations similar to C918. S1 progeny and mass selection used to select for resistance to

rhizomania and *Cercospora beticola*. Multigerm, self-fertile, segregates for genetic male sterility (A-:aa),  $2n = 2x = 18$ . Resistant to rhizomania. Moderately resistant to *Cercospora* leaf spot, *Erwinia* and downy mildew. Moderately susceptible to CTV, powdery mildew, virus yellows, bolting. Erect canopy. Hybrids have good sugar yield and sucrose concentration. Red hypocotyls.

**PI 615522. *Beta vulgaris* L. subsp. *vulgaris***

Breeding. Population. C833-5; 0833-5. PL-38. Pedigree - Selected from composite cross between population 867 and monogerm, O-type, nonbolting, curly top resistant inbred lines. S1 reselected for resistance to rhizomania and O-type. Increase of S1 monogerm, O-type, red hypocotyl, self-fertile line that segregates for genetic male sterility (A-:aa). Resistant to rhizomania. Moderately resistant to *Erwinia*, bolting, powdery mildew. Intermediate reaction to curly top and VY. High sucrose concentration and sugar yield GCA.

**PI 615523. *Beta vulgaris* L. subsp. *vulgaris***

Breeding. Population. C833-5CMS; 0833-5CMS; 0833-5HO. PL-39. Near cytoplasmic male sterile counterpart of O-type maintainer C833-5.

**PI 615524. *Beta vulgaris* L. subsp. *vulgaris***

Breeding. Population. C911-4-10; 0911-4-10. Pedigree - Monogerm line extracted from multigerm line C911-4. Monogerm segregates identified in S3 and isolated. Inbred monogerm line with resistance to rhizomania, bolting, *Erwinia* and downy mildew. Moderate resistance to VY, powdery mildew. Moderately susceptible to CTV. O-type unknown. Self-fertile, red hypocotyls, does not segregate for genetic male sterility.

The following were developed by G. E. Coe, USDA, ARS, Field Crops Lab., Lab. 6B, Bldg. 009, BARC-West, Beltsville, Maryland 20705, United States. Donated by Devon L. Doney, USDA, ARS, Northern Crops Research Laboratory, P.O. Box 5677, 331 Walster Hall, Fargo, North Dakota 58105, United States. Received 07/06/1995.

**PI 615525. *Beta vulgaris* L. subsp. *vulgaris***

Cultivar. Population. SP 6322-0; SP22-0; SP5822-0; SP7822-0; 00-SP22-0; W6 17143. PL-7. Pedigree - Open-pollinated, self-sterile line developed by combining 7 pseud-self-fertile *Cercospora* leaf spot resistant progenies. Selection from SP 6122-0 for improvement in leaf spot resistance. Value of SP 6322-0 over SP 5822-0 or SP 6122-0 is the likelihood of improvement in leaf spot resistance. Moderately resistant to *Cercospora beticola* and *Aphanomyces cochlioides*. Susceptible to curly top virus. Early bolting.

The following were developed by John Foster, University of Nebraska-Lincoln, Department of Entomology, 321F Plant Industry Bldg., Lincoln, Nebraska 68583-0816, United States; Nora E. D'Croz-Mason, University of Nebraska, Department of Agronomy, Maize Breeding Project, Lincoln, Nebraska 68583-0915, United States; S.C. Mason, University of Nebraska-Lincoln, Dept. of Agronomy, Lincoln, Nebraska 68583-0915, United States. Donated by Nora E. D'Croz-Mason, University of Nebraska, Department of Agronomy, Maize Breeding Project, Lincoln, Nebraska 68583-0915, United States. Received 01/11/2001.

**PI 615526. *Zea mays* L. subsp. *mays***

Breeding. Inbred. N547; (NECBY5)-8-2-1-2-1. GP-367. Pedigree - Derived by selfing a selected full-sib family from the tropical population MBITA, developed by CYMMIT, Mexico, with multiple borer resistance to fall armyworm, southwestern corn borer and ECB. Line advanced ear-to-row by self-pollination to S5. Inbred germplasm with resistance to stalk and shank tunneling damage by the second generation of the European corn borer( ECB) *Ostrinia nubilalis*. S1, S3, and S5 were manually infested with ECB larvae. Stalk and shank injury were determined by splitting both and counting the number of tunnels (cavities) per plant. Only plants with no tunnelling in either stalk or shank were advanced to the next generation. Susceptible check Missouri 17 averaged 6.0 inches of stalk tunneling and 0.3 inches of shank tunneling. Uniform, open yellow-reddish tassels, is a good pollen shedder requiring 72 days from planting to pollen shedding. Silks yellow-redish and their emergence begins two to three days after pollen shed begins. Produces sturdy plants with an average plant height of 1.90 m and ear height of 0.78 m. Ears conical shaped, 0.15 to 0.17 m long, and have 12 to 14 kernel rows with relatively small yellow kernels on a white cob.

The following were developed by Central Valley Seeds, Inc., United States. Received 02/06/2001.

**PI 615527 PVPO. *Lactuca sativa* L.**  
Cultivar. "LAGUNA FRESCA". PVP 200100044.

The following were developed by Abbott & Cobb, Inc., United States. Received 02/06/2001.

**PI 615528 PVPO. *Citrullus lanatus* (Thunb.) Matsum. & Nakai**  
Cultivar. "4N63". PVP 200100047.

The following were developed by Plant Breeding and Acclimatization Institute, Poland. Received 02/06/2001.

**PI 615529 PVPO. X *Triticosecale* sp.**  
Cultivar. "ALZO". PVP 200100051.

The following were developed by Pure Line Seeds, Inc., P.O. Box 8866, Moscow, Idaho 83843, United States. Received 02/06/2001.

**PI 615530 PVPO. *Pisum sativum* L.**  
Cultivar. "PIVOT". PVP 200100052.

The following were developed by Syngenta Seeds, Inc., United States. Received 02/06/2001.

**PI 615531 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "NP2167". PVP 200100054.

The following were developed by Pure Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 02/06/2001.

**PI 615532 PVPO. *Poa pratensis* L.**  
Cultivar. "SHOWCASE". PVP 200100055.

The following were developed by Speight Seed Farms, Inc., Box 507,  
Winterville, North Carolina 28590, United States. Received 02/06/2001.

**PI 615533 PVPO. *Nicotiana tabacum* L.**  
Cultivar. "SPEIGHT 179". PVP 200100056.

The following were developed by California Cooperative Rice Research  
Foundation, Biggs, California, United States. Received 02/06/2001.

**PI 615534 PVPO. *Oryza sativa* L.**  
Cultivar. "M-104". PVP 200100057.

**PI 615535 PVPO. *Oryza sativa* L.**  
Cultivar. "M-205". PVP 200100058.

The following were developed by Busch Agricultural Resources, Inc., 3515 East  
County Road 52, Fort Collins, Colorado 80524, United States. Received  
02/06/2001.

**PI 615536 PVPO. *Oryza sativa* L.**  
Cultivar. "AB6564". PVP 200100059.

The following were developed by Pioneer Hi-Bred International, Inc, United  
States. Received 02/06/2001.

**PI 615537 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "90B11". PVP 200100060.

**PI 615538 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "91B12". PVP 200100061.

**PI 615539 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "91B33". PVP 200100062.

**PI 615540 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "91B92". PVP 200100063.

**PI 615541 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "92B38". PVP 200100064.

**PI 615542 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "92B95". PVP 200100065.

The following were developed by NDSU Research Foundation, North Dakota,  
United States. Received 02/06/2001.

**PI 615543 PVPO. *Triticum aestivum* L.**  
Cultivar. "ALSEN". PVP 200100066.

The following were developed by Syngenta Seeds, Inc., United States. Received 02/07/2001.

**PI 615544 PVPO. *Zea mays* L. subsp. *mays***

Cultivar. "NP2171". PVP 200100068.

The following were developed by Pure Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 02/07/2001.

**PI 615545 PVPO. *Festuca rubra* L. subsp. *rubra***

Cultivar. "CAMILLA". PVP 200100069.

The following were developed by John Lloyd-Reilley, USDA, NRCS-NPMC, Kika de la Garza Plant Materials Center, 3409 N. FM1355, Kingsville, Texas 78363, United States; Elizabeth Kadin, USDA-NRCS-NPMC, Kika de la Garza Plant Materials Center, 3409 N. FM1355, Kingsville, Texas 78363, United States. Received 04/04/2000.

**PI 615546. *Atriplex acanthocarpa* (Torr.) S. Watson**

Cultivated. 9085310; NSL 403028. Pedigree - Composite of #9055720 from San Benito, Cameron Co., TX and #9055721 from Dimmit Co., TX. Saline-tolerant, perennial evergreen shrub. Grows 3-10 dm in height. Herbaceous on top, woody below. Flowers from summer to fall; dioecious. Fruit is utricle enclosed in tubercled bracts. Seeds are 1.5-2 mm long, broad; radicle is superior. Extremely drought-tolerant; appears to be tolerant of most insect pests. Susceptible to Cotton Root Rot (*Phymatotrichum omnivorum*) which weakens root system and kills the plant. Uses: windbreak, to prevent soil erosion, as ornamental. Provides wildlife cover and is eaten by cattle.

The following were collected by Harold E. Bockelman, USDA, ARS, National Small Grains Collection, 1691 S 2700 W, Aberdeen, Idaho 83210, United States; Richard C. Johnson, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Roman Boguslavsky, National Centre for Plant Genetic Resources of Ukraine, Lab. for Introduction & Storage of Plant Genetic Resources, Yurjev Institute of Plant Production, Kharkiv, Kharkiv 310060, Ukraine; Vladislav Korzhenevsky, State Nikitsky Botanical Gardens, Department of Flora & Vegetation, Yalta, Krym 334267, Ukraine. Received 10/25/1999.

**PI 615547. *Trifolium angustifolium* L.**

Wild. UKR-99-035. . Collected 07/28/1999 in Krym, Ukraine. Latitude 44 deg. 24' 40'' N. Longitude 34 deg. 0' 16'' E. Elevation 195 m. Near Simeiz along road A-294. South slope, rocky, dry, highly diverse, calcareous.

**PI 615548. *Trifolium arvense* L.**

Wild. UKR-99-203. . Collected 08/02/1999 in Krym, Ukraine. Latitude 44 deg. 55' 34'' N. Longitude 35 deg. 14' 0'' E. Elevation 350 m. In military/nature reserve between Koktebel' and Kurortne and south of road A-294. North slope, moderately steep, rocky, dry, mixed forest and grassland.

**PI 615549. *Trifolium arvense* L.**

Wild. UKR-99-208. . Collected 08/02/1999 in Krym, Ukraine. Latitude 44 deg. 55' 25'' N. Longitude 35 deg. 13' 56'' E. Elevation 320 m. In military/nature reserve between Koktebel' and Kurortne and south of road A-294. East slope, steep, rocky, basaltic cliffs dropping to sea along trail.

**PI 615550. *Trifolium campestre* Schreb.**

Wild. UKR-99-036. . Collected 07/28/1999 in Krym, Ukraine. Latitude 44 deg. 24' 40'' N. Longitude 34 deg. 0' 16'' E. Elevation 195 m. Near Simeiz along road A-294. South slope, rocky, dry, highly diverse, calcareous.

**PI 615551. *Trifolium campestre* Schreb.**

Wild. UKR-99-129. . Collected 07/31/1999 in Krym, Ukraine. Latitude 44 deg. 30' 41'' N. Longitude 33 deg. 50' 5'' E. Elevation 420 m. In lake valley near Peredove. South, grazed, rocky.

**PI 615552. *Trifolium* sp.**

Wild. UKR-99-215. . Collected 08/02/1999 in Krym, Ukraine. Latitude 44 deg. 55' 16'' N. Longitude 35 deg. 13' 54'' E. Elevation 280 m. In military reserve between Koktebel' and Kurortne and south of road A-294. Opening in woods along trail.

The following were developed by Randall Nelson, USDA, ARS, National Soybean Research Laboratory, 1101 West Peabody Drive, Urbana, Illinois 61801, United States; Gina L. Brown-Guedira, USDA, ARS, Kansas State University, Agronomy Department, Manhattan, Kansas 66506-5502, United States; Marilyn Warburton, Applied Biotechnology Center, Apdo. Postal 6-641, Mexico City, Federal District 06600, Mexico. Received 02/13/2001.

**PI 615553. *Glycine max* (L.) Merr.**

Genetic. Pureline. LG92-1255; SY0103001. Pedigree - LG84-1291 (PI 68522 x Hobbit) x A3127. Combines high yield with unique genetic diversity not currently present in the commercially used gene pool in North America. Indeterminate stem termination. Late group II maturity. Purple flowers, tawny pubescence, tan pods, yellow seed coat and black hilum. Susceptible to races 4 and 7 of *Phytophthora sojae*.

**PI 615554. *Glycine max* (L.) Merr.**

Genetic. Pureline. LG93-7054; SY0103002. Pedigree - LG85-3343 (PI 361064 x PI 407710) x S42-30. Combines high yield with unique genetic diversity not currently present in the commercially used gene pool in North America. Indeterminate stem termination. Late group II maturity. Purple flowers, gray pubescence, brown pods, yellow seed coat and imperfect black hilum. Susceptible to races 4 and 7 of *Phytophthora sojae*.

**PI 615555. *Glycine max* (L.) Merr.**

Genetic. Pureline. LG93-7654; SY0103003. Pedigree - LG86-2734 (PI 424195B x PI 361066A) x A3205. Combines high yield with unique genetic diversity not currently present in the commercially used gene pool in North America. Indeterminate stem termination. Late group III maturity. Purple flowers, tawny pubescence, brown pods, yellow seed coat and brown hilum. Susceptible to races 4 and 7 of *Phytophthora sojae*.

**PI 615556. *Glycine max* (L.) Merr.**

Genetic. Pureline. LG93-7792; SY0103004. Pedigree - LG86-6989 (PI 253655D x PI 283331) x A3205. Combines high yield with unique genetic diversity not currently present in the commercially used gene pool in North America. Indeterminate stem termination. Early group IV maturity. Purple flowers, tawny pubescence, brown pods, yellow seed coat and brown hilum. Susceptible to races 4 and 7 of *Phytophthora sojae*.

The following were donated by Waller Flowerseed Company, P.O. Box 935, 4th and Obispo Streets, Guadalupe, California 93434, United States. Received 1962.

**PI 615557. *Lathyrus odoratus* L.**

EA MULTI SHIRLEY TEMPLE SUPREM.

**PI 615558. *Lathyrus odoratus* L.**

EA MULTI DEEP ELKS PUR SUPREME.

**PI 615559. *Lathyrus odoratus* L.**

EA MULTI CRANBERRY RED SUPREME.

**PI 615560. *Lathyrus odoratus* L.**

SPENCER PIRATE GOLD.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 02/14/2001.

**PI 615561 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "93B67". PVP 200100070.

**PI 615562 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "93B72". PVP 200100071.

**PI 615563 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "95B96". PVP 200100072.

**PI 615564 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "93B85". PVP 200100073.

**PI 615565 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "94B23". PVP 200100074.

**PI 615566 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "95B34". PVP 200100075.

The following were developed by Syngenta Seeds, Inc., United States. Received 02/14/2001.

**PI 615567 PVPO. *Zea mays* L.**

Cultivar. "NP2174". PVP 200100076.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 02/14/2001.

PI 615568 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "97B52". PVP 200100077.

PI 615569 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "96B51". PVP 200100078.

PI 615570 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "95B97". PVP 200100079.

PI 615571 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "94B73". PVP 200100080.

PI 615572 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "94B54". PVP 200100081.

PI 615573 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "94B24". PVP 200100082.

PI 615574 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "93B87". PVP 200100083.

PI 615575 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "93B86". PVP 200100084.

PI 615576 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "93B47". PVP 200100085.

PI 615577 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "93B15". PVP 200100086.

PI 615578 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "92B84". PVP 200100087.

PI 615579 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "92B76". PVP 200100088.

PI 615580 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "92B12". PVP 200100089.

The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 02/14/2001.

PI 615581 PVPO. **Lactuca sativa** L.  
Cultivar. "ALPINE". PVP 200100090.

The following were developed by Don Domber, University of Arkansas, Arkansas, United States. Received 02/14/2001.

PI 615582 PVPO. **Glycine max** (L.) Merr.  
Cultivar. "CAVINESS". PVP 200100091.

The following were developed by Jerome D. Franckowiak, North Dakota State University, Department of Plant Sciences, P.O. Box 5051, Fargo, North Dakota

58105-5051, United States; Richard D. Horsley, North Dakota State University, Dept of Plant Sciences, Fargo, North Dakota 58105-5051, United States; Brian J. Steffenson, University of Minnesota, Department of Plant Pathology, 495 Borlaug Hall, St. Paul, Minnesota 55108-6030, United States; C.A. Urrea, International Maize & Wheat Improvement Center, South American Maize Program, Apdo. Postal 6-641, Mexico, Mexico. Received 02/01/2001.

**PI 615583. *Hordeum vulgare* L. subsp. *vulgare***

Breeding. Pureline. C95-167-250-9; 6NDRFG-1. GP-136. Pedigree - Foster / CIho 4196. Six-rowed line with partial resistance to Fusarium head blight (FHB) (*Fusarium graminearum*), which accumulates reduced concentrations of the mycotoxin deoxynivalenol (DON) and does not have Chevron (PI 38061) in its pedigree. Many of the six-rowed genotypes with good FHB resistance derive their resistance from Chevron or Chevron-derived lines. Averaged across 5 environments, mean FHB was 20% (Foster, CIho 4196, and Chevron 51%, 8%, AND 14% respectively. In 1999 at Langdon and Osnabrock, mean days to heading was similar to Chevron and about 10 d later than Foster. Mean plant height was similar to Chevron (130 cm) and much taller than Foster (100 cm). Has sessile six-rowed spike (vvII), smooth lemma awns, and glume awn length equal to the length of the glume.

The following were developed by Jerome D. Franckowiak, North Dakota State University, Department of Plant Sciences, P.O. Box 5051, Fargo, North Dakota 58105-5051, United States; Richard D. Horsley, North Dakota State University, Dept of Plant Sciences, Fargo, North Dakota 58105-5051, United States; P.B. Schwarz, North Dakota State University, Dept. of Cereal Science, Fargo, North Dakota 58105-5051, United States; Brian J. Steffenson, University of Minnesota, Department of Plant Pathology, 495 Borlaug Hall, St. Paul, Minnesota 55108-6030, United States. Received 02/02/2001.

**PI 615584. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. Pureline. "DRUMMOND"; ND15477. CV-291; PVP 200100098. Pedigree - Hazen\*2/WPG821/4/Stander/3/Bumper/Hazen//Azure. Released 2000. Semi-smooth awns, covered kernels, long-rachilla hairs, and white aleurone. 5 cm shorter, heads similar, has better straw, and yields about 5% more than Robust. Resistant to spot blotch (*Cochliobolus sativus*) and prevalent pathotypes of wheat stem rust (*Puccinia graminis*) in the Midwest U.S. except Pgt-QCC, moderately susceptible to net blotch (*Pyrenophora teres*) and susceptible to loose smut (*Ustilago nuda*).

The following were developed by Berlin D. Nelson, North Dakota State University, Dept. of Plant Pathology, P.O. Box 5012, Fargo, North Dakota 58105-5012, United States; Theodore C. Helms, North Dakota State University, Dept. of Plant Science, Rm 166 Loftsgard Hall, Fargo, North Dakota 58105-5051, United States; Robert Jay Goos, North Dakota State University, Dept. of Soil Science, Walster Hall, Fargo, North Dakota 58105-5638, United States. Received 02/07/2001.

**PI 615585. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "Sargent"; ND96-1593. CV-438; PVP 200100099. Pedigree - (Maple Amber \* Evans -1-1-10) X Council). Has the Rpsb allele which confers resistance to phytophthora root rot. Flower color white, grey pubescence, brown pods at maturity, dull yellow seed coat with yellow hila, indeterminate growth habit and high seed coat peroxidase.

Maturity 0.8 and moderately resistant to iron chlorosis on high pH soils.

**PI 615586. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "Walsh"; ND96-8929. CV-437; PVP 200100100. Pedigree - (Maple Amber \* Evans -1-1-10) X Council. Has the Rps6 allele which confers resistance to phytophthora root rot. Flower color purple, grey pubescence, brown pods at maturity, dull yellow seed coat color with yellow hila, indeterminate growth habit and high seed coat peroxidase. Maturity 0.0.

The following were developed by David A. Sleper, University of Missouri, Department of Agronomy, 201 Waters Hall, Columbia, Missouri 65211, United States; H. F. Mayland, USDA-ARS, Northwest Irrigation and Soils Research Lab., 3793 N 3600 E, Kimberly, Idaho 83341, United States; Glenn E. Shewmaker, University of Idaho, Twin Falls R&E Center, PO Box 1827, Twin Falls, Idaho 83303-3608, United States; R.J. Crawford, University of Missouri-Columbia, Southwest Missouri Agricultural Research and Education Ctr., Mt. Vernon, Missouri 65712, United States; M.D. Massie, University of Missouri-Columbia, the Southwest Research Center, Mt. Vernon, Missouri 65211, United States. Received 02/20/2001.

**PI 615587. *Festuca arundinacea* Schreb.**

Cultivar. Population. "HiMag". GP-79. Pedigree - Two cycles of recurrent selection. Parents for C1 cycle of selection included 11 plants from Kentucky-31 and 54 plants from Missouri-96 tall fescue cultivars. Forty-six parents were selected from the C1 population to develop the C2. Relatively high concentrations of Mg and Ca. Also relatively low cation ratio, K/(Ca+Mg), expressed as moles of charge. Good resistance to crown rust (*Puccinia coronata*). Medium to early maturity in comparison to other tall fescue cultivars. Harvested seed has the following characteristics: 400 seeds g<sup>-1</sup>, 2.5 g 1000 seeds<sup>-1</sup>, and 302 kg m<sup>-3</sup>. Grows well on both calcareous alkaline and acid soils.

The following were developed by Steven Leath, USDA, ARS, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695, United States; R.A. Navarro, North Carolina State University, North Carolina Agric. Exp. Station, Dept. of Crop Science, Raleigh, North Carolina 27695-7629, United States; Paul Murphy, North Carolina State University, Dept. of Crop Science, P.O. Box 7629, Raleigh, North Carolina 27695, United States. Received 02/12/2001.

**PI 615588. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. NC99BGTAG11. GP-729. Pedigree - Saluda \*3 / PI 427315. Soft red winter wheat adapted to the Southeastern U.S. Resistant to prevalent powdery mildew (*Blumeria graminis*) isolates found in cultivation in North Carolina during 1998-2000 season. The source of resistance was the *Triticum timopheevii* subsp. *armeniacum* accession PI 427315 collected in Iraq. F7-derived line. Heading date, plant height, and straw strength similar to recurrent parent Saluda.

The following were developed by Robert E. Allan, USDA-ARS, Dept. of Crop & Soil Science, 209 Johnson Hall, Pullman, Washington 99164, United States. Received 02/05/2001.

**PI 615589. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1032; 95 2118. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961032. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for the Rht Bla gene of Brevor (CI 12385) by backcrossing. Brevor is a soft white winter common cv. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ mid-sized. Differing from Brevor for plant height (35 vs. 106 cm), heading (4.5d later), grain yield (291 vs. 477g/m<sup>2</sup>), kernel wt. (28 vs. 37 mg), test wt. (739 vs. 807 g/L) and lodging (1 vs. 46%).

**PI 615590. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1033; 95 2127. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961033. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for the Rht Bla gene of Brevor (CI 12385) by backcrossing. Brevor is a soft white winter common cv. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ mid-sized. Differing from Brevor for plant ht (36 vs. 106 cm), heading (4d later), grain yield (302 vs. 477 g/m<sup>2</sup>), kernel wt. (31 vs. 37 mg), test wt. (751 vs. 807 g/L) and lodging (1 vs. 46%).

**PI 615591. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1034; 95 2130. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961034. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for the Rht Bla gene of Brevor (CI 12385) by backcrossing. Brevor is a soft white winter common cv. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ mid-sized. Differing from Brevor for plant ht. (37 vs. 106 cm), heading 4.5d later), grain yield (347 vs. 477 g/m<sup>2</sup>), kernel wt. (30 vs. 37 mg), test wt. (753 vs. 807 g/L) and lodging (1 vs. 46%).

**PI 615592. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1035; 95 2144. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961035. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for the Rht Bla gene of Brevor (CI 12385) by backcrossing. Brevor is a soft white winter common cv. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate, germ mid-sized. Differing from Brevor for plant ht. (34 vs. 106 cm), heading (5d later), grain yield (303 vs. 477g/m<sup>2</sup>), kernel wt. (31 vs. 37 mg), test wt. (738 vs. 807 g/L) and lodging (1 vs. 46%).

**PI 615593. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1037; 95 2156. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961037. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for the Rht Bla gene of Brevor (CI 12385) by backcrossing. Brevor is a soft white winter common cv. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ mid-sized. Differing from Brevor for plant ht. (34 vs. 106 cm), heading (4.5d later), grain yield (281 vs. 477 g/m<sup>2</sup>), kernel wt. (27 vs. 37 mg), test wt. (702 vs. 807 g/L) and lodging (1 vs. 46%).

**PI 615594. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1040; 95 2125. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961040. F3:6, BC6 near-isoline with normal height gene Rht Bla of Brevor (CI 12385) a soft white winter common cv. Sib to Brevor NILs with Rht B1c gene of Tom Thumb. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ

midsized. Agronomically similar to Brevor for plant ht., grain yield, kernel wt., test wt., lodging. Differing from Brevor for heading (1.2d later).

**PI 615595. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1041; 95 2139. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961041. F3:6, BC6 near-isoline with normal height gene Rht Bla of Brevor (CI 12385) a soft white winter common cv. Sib to Brevor NILs with Rht Blc gene of Tom Thumb. Similar to Brevor for the spike awnletted, oblong, white. Kernels white, soft, ovate. Germ midsized. Agronomically similar to Brevor for plant ht., grain yield, kernel wt., test wt., lodging. Differing from Brevor for heading (1d later).

**PI 615596. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1042; 95 2140. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961042. F3:6, BC6 near-isoline with normal height gene Rht Bla of Brevor (CI 12385) a soft white winter common cv. Sib to Brevor NILs with Rht Blc gene of Tom Thumb. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ midsized. Agronomically similar to Brevor for plant ht., heading, grain yield, kernel wt., test wt. Differing from Brevor for lodging (29 vs. 46%).

**PI 615597. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1043; 95 2151. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961043. F3:6, BC6 near-isoline with normal height gene Rht Bla of Brevor (CI 12385) a soft white winter common cv. Sib to Brevor NILs with Rht Blc gene of Tom Thumb. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ midsized. Agronomically similar to Brevor for plant ht., grain yield, kernel wt., test wt. Differing from Brevor for heading (2d later), lodging (62 vs. 46%).

**PI 615598. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1045; 95 2161. Pedigree - Brevor\*4///Tom Thumb/7\*Burt//3\*Brevor, 961045. F3:6, BC6 near-isoline with normal height gene Rht Bla of Brevor (CI 12385) a soft white winter common cv. Sib to Brevor NILs with Rht Blc gene of Tom Thumb. Similar to Brevor for spike awnletted, oblong, white. Kernels white, soft, ovate. Germ midsized. Agronomically similar to Brevor for plant ht., grain yield, kernel wt., test wt., lodging. Differing from Brevor for heading 2d (later).

**PI 615599. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1051; 95 2276. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961051. F3:6, BC6 near-isoline with reduced height gene (Rht Blc) of Tom Thumb backcrossed into Moro (CI 13740) a soft white winter club cv. Similar to Moro for spike awnletted, elliptical, dense, glumes brown. Kernels white, short, soft, ovate. Germ small. Differing from Moro for plant ht. (55 vs. 110 cm), grain yield (422 vs. 601 g/m<sup>2</sup>), kernel wt. (25 vs. 30 mg), test wt. (723 vs. 772 g/L), lodging (13 vs. 54%) and heading (1 d later).

**PI 615600. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1052; 95 2277. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961052. F3:6, BC6 near-isoline with reduced height

gene (Rht B1c) of Tom Thumb backcrossed into Moro (CI 13740) a soft white winter club cv. Similar to Moro for spike awnletted, elliptical, dense, glumes brown. Kernels white, short, soft, ovate. Germ small. Differing from Moro for plant ht. (53 vs. 110 cm), grain yield (463 vs. 601 g/m<sup>2</sup>), kernel wt. (22 vs. 30 mg), test wt. (710 vs. 772 g/L), lodging (1 vs. 54%) and heading (1.8d later).

**PI 615601. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1053; 95 2280. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961053. F3:6, BC6 near-isoline with reduced height gene (Rht B1c) of Tom Thumb backcrossed into Moro (CI 13740) a soft white winter club cv. Similar to Moro for spike awnletted, elliptical, dense, glumes brown. Kernels white, short, soft, ovate, germ small. Differing from Moro for plant ht. (52 vs. 110 cm), grain yield (404 vs. 601 g/m<sup>2</sup>), kernel wt. (22 vs. 30 mg), test wt. (715 vs. 772 g/L), lodging (1 vs. 54%) and heading (1d later).

**PI 615602. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1054; 95 2282. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961054. F3:6, BC6 near-isoline with reduced height gene (Rht B1c) of Tom Thumb backcrossed into Moro (CI 13740) a soft white winter club cv. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Differing from Moro for plant ht. (52 vs. 110 cm), grain yield (471 vs. 601 g/m<sup>2</sup>), kernel wt. (24 vs. 30 mg), test wt. (697 vs. 772 g/L), lodging (4 vs. 54%).

**PI 615603. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1055; 95 2283. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961055. F3:6, BC6 near-isoline with reduced height gene (Rht B1c) of Tom Thumb backcrossed into Moro (CI 13740) a soft white winter club cv. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Differing from Moro for plant ht. (56 vs. 110 cm), grain yield (446 vs. 601 g/m<sup>2</sup>), kernel wt. (23 vs. 30 mg), test wt. (696 vs. 772 g/L), lodging (2 vs. 54%).

**PI 615604. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1058; 95 2264. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961058. F3:6, BC6 near-isoline which has normal height gene (Rht B1a) of Moro. Sib to Moro NILs with (Rht B1c) gene of Tom Thumb. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Agronomically very similar to Moro except for grain yield (462 vs. 601g/m<sup>2</sup>) and lodging (65 vs 54%).

**PI 615605. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1060; 95 2270. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961060. F3:6, BC6 near-isoline which has normal height gene (Rht B1a) of Moro. Sib to Moro NILs with (Rht B1c) gene of Tom Thumb. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Agronomically very similar to Moro except for lodging (72 vs. 54%) and plant ht. (114 vs. 110 cm).

**PI 615606. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1061; 95 2273. Pedigree - mORO\*5///Tom

Thumb/7\*Burt//2\*Moro, 961061. F3:6, BC6 near-isoline which has normal height gene (Rht Bla) of Moro. Sib to Moro NILs with (Rht Blc) gene of Tom Thumb. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Agronomically very similar to Moro except for grain yield (466 vs. 601 g/m<sup>2</sup>) and lodging (66 vs. 54%).

**PI 615607. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1063; 95 2287. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961063. F3:6, BC6 near-isoline which has normal height gene (Rht Bla) of Moro. Sib to Moro NILs with (Rht Blc) gene of Tom Thumb. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Agronomically very similar to Moro except for heading (1-6 d earlier), grain yield (492 vs. 601 g/m<sup>2</sup>), lodging (66 vs. 54%).

**PI 615608. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1065; 95 2291. Pedigree - Moro\*5///Tom Thumb/7\*Burt//2\*Moro, 961065. F3:6, BC6 near-isoline which has normal height gene (Rht Bla) of Moro. Sib to Moro NILs with (Rht Blc) gene of Tom Thumb. Similar to Moro for spike awnletted, elliptical, dense. Glumes brown. Kernels white, short, soft, ovate. Germ small. Agronomically very similar to Moro except for heading (2.2 d earlier), lodging (66 vs. 54%).

**PI 615609. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1067; 95 2169. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961067. F3:6, BC6 near-isoline combining reduced ht. genes Rht Blc of Tom Thumb with Rht D1b of Daws (CI 17419) by backcrossing. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (29 vs. 87 cm), heading (4d later), grain yield (437 vs. 758 g/m<sup>2</sup>), kernel wt. (36 vs. 40 mg), test wt. (752 vs. 801 g/L). Similar for kernel/spike, lodging.

**PI 615610. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1068; 95 2170. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961068. F3:6, BC6 near-isoline combining reduced ht. genes Rht Blc of Tom Thumb with Rht D1b of Daws (CI 17419) by backcrossing. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (31 vs. 87 cm), heading (4d later), grain yield (392 vs. 758 g/m<sup>2</sup>), kernel wt. (34 vs. 40 mg), test wt. (768 vs. 801 g/L). Similar for kernel/spike, lodging.

**PI 615611. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1069; 95 2174. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961069. F3:6, BC6 near-isoline combining reduced ht. genes Rht Blc of Tom Thumb with Rht D1b of Daws (CI 17419) by backcrossing. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (31 vs. 87 cm), heading (5d later), grain yield (422 vs. 758 g/m<sup>2</sup>), kernel wt. 34 vs. 40 mg), kernels/spike (35 vs. 41), test wt. (753 vs. 801 g/L). Similar lodging.

**PI 615612. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1070; 95 2175. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961070. F3:6, BC6 near-isoline combining reduced ht. genes Rht B1c of Tom Thumb with Rht D1b of Daws (CI 17419) by backcrossing. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (30 vs. 87 cm), heading (4d later), grain yield (430 vs. 758 g/m<sup>2</sup>), kernel/spike (27 vs. 41). Similar to lodging, test wt., kernel wt.

**PI 615613. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1073; 95 2237. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961073. F3:6, BC6 near-isoline combining reduced ht. genes Rht B1c of Tom Thumb with Rht D1b of Daws (CI 17419) by backcrossing. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (31 vs. 87 cm), heading (3d later), grain yield (468 vs. 758 g/m<sup>2</sup>), kernel wt. (31 vs. 40 mg), test wt. (741 vs. 801 g/L). Similar for kernel/spike, lodging.

**PI 615614. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1076; 95 2179. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961076. F3:6, BC6 near-isoline identical to Daws (CI 17419) for height genes Rht B1a and Rht D1b. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for heading (1d earlier). Similar for plant ht., grain yield, test wt., kernel wt., kernels/spike, lodging.

**PI 615615. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1077; 95 2180. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961077. F3:6, BC6 near-isoline identical to Daws (CI 17419) for height genes Rht B1a and Rht D1b. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for heading (1.6d earlier). Similar for plant ht., grain yield, test wt., kernel wt., kernels/spike, lodging.

**PI 615616. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1078; 95 2212. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961078. F3:6, BC6 near-isoline identical to Daws (CI 17419) for height genes Rht B1a and Rht D1b. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for heading (2.5d earlier), kernel wt. (45 vs. 40 mg). Similar for plant ht., grain yield, test wt., kernels/spike, lodging.

**PI 615617. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1079; 95 2224. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961079. F3:6, BC6 near-isoline identical to Daws (CI 17419) for height genes Rht B1a and Rht D1b. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for heading (1.4d later), kernels/spike (35 vs 41). Similar for plant ht., grain yield, test wt., lodging.

**PI 615618. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1083; 95 2249. Pedigree - Daws\*5///Tom

Thumb/7\*Burt//2\*Daws, 961083. F3:6, BC6 near-isoline identical to Daws (CI 17419) for height genes Rht Blc and Rht D1b. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for heading (1d earlier). Similar for plant ht., grain yield, test wt., kernel wt., kernels/spike, lodging.

**PI 615619. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1086; 95 2196. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961086. F3:6, BC6 near-isoline with height genes Rht Blc and Rht D1a of Tom Thumb backcrossed into Daws (CI 17419) a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (53 vs. 87 cm), heading (1d later), grain yield (586 vs. 758 g/m<sup>2</sup>), test wt. (770 vs. 801 g/L). Similar for kernel wt., kernels/spike, lodging.

**PI 615620. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1087; 95 2198. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961087. F3:6, BC6 near-isoline with height genes Rht Blc and Rht D1a of Tom Thumb backcrossed into Daws (CI 17419) a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant height (50 vs. 87 cm), heading (1d later), grain yield (621 vs. 758 g/m<sup>2</sup>), test wt. (720 vs. 801 g/L). Similar for kernel wt., kernels/spike, lodging.

**PI 615621. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1088; 95 2199. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961088. F3:6, BC6 near-isoline with height genes Rht Blc and Rht D1a of Tom Thumb backcrossed into Daws (CI 17419) a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (50 vs. 87 cm), heading (1d earlier), grain yield (592 vs. 758 g/m<sup>2</sup>), kernel wt. (37 vs. 40 mg), test wt. (747 vs. 801 g/L). Similar for kernels/spike, lodging.

**PI 615622. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1089; 95 2200. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961089. F3:6, BC6 near-isoline with height genes Rht Blc and Rht D1a of Tom Thumb backcrossed into Daws (CI 17419) a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (50 vs. 87 cm), grain yield (626 vs. 758g/m<sup>2</sup>), test wt. (748 vs. 801 g/L). Similar for heading, kernel wt., kernels/spike, lodging.

**PI 615623. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1091; 95 2204. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961091. F3:6, BC6 near-isoline with height genes Rht Blc and Rht D1a of Tom Thumb backcrossed into Daws (CI 17419) a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (50 vs. 87 cm), heading (1d earlier), kernel wt. (36 vs. 40 mg), grain yield (678 vs. 758 g/m<sup>2</sup>), test wt. (750 vs. 801 g/L). Similar for kernels/spike, lodging.

**PI 615624. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1094; 95 2186. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961094. F3:6, BC6 near-isoline with normal height genes Rht D1a of Tom Thumb and Rht B1a of Daws combined in Daws background. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (124 vs. 87 cm), heading (1.6d earlier), grain yield (440 vs. 758 g/m<sup>2</sup>), kernel wt. (47 vs. 40 mg), kernels/spike (23 vs. 41), lodging (46 vs 3%). Similar for test wt.

**PI 615625. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1095; 95 2188. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961095. F3:6, BC6 near-isoline with normal height genes Rht D1a of Tom Thumb and Rht B1a of Daws combined in Daws background. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (126 vs. 87 cm), grain yield (420 vs. 758 g/m<sup>2</sup>), kernel wt. (48 vs. 40 mg), kernels/spike (24 vs. 41), lodging (44 vs 3%). Similar for heading, test wt.

**PI 615626. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1096; 95 2189. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961096. F3:6, BC6 near-isoline with normal height genes Rht D1a of Tom Thumb and Rht B1a of Daws combined in Daws backcrossed. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (130 vs. 87 cm), heading (4d later), grain yield (313 vs. 758 g/m<sup>2</sup>), kernel wt. (47 vs. 40 mg), kernels/spike (20 vs. 41), lodging (44 vs. 3%). Similar for test wt.

**PI 615627. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1097; 95 2190. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961097. F3:6, BC6 near-isoline with normal height genes Rht D1a of Tom Thumb and Rht B1a of Daws combined in Daws background. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (129 vs. 87 cm), grain yield (376 vs. 758 g/m<sup>2</sup>), kernel wt. (47 vs. 40 mg), kernels/spike (18 vs. 41), lodging 36 vs. 3%). Similar for heading, test wt.

**PI 615628. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 96ARS 1099; 95 2209. Pedigree - Daws\*5///Tom Thumb/7\*Burt//2\*Daws, 961099. F3:6, BC6 near-isoline with normal height genes Rht D1a of Tom Thumb and Rht B1a of Daws combined in Daws background. Daws is a soft white winter common cv. Similar to Daws for spike awned, oblong, glumes white. Kernels white, soft, midlong. Germ midsize. Differing agronomically from Daws for plant ht. (121 vs. 87 cm), grain yield (491 vs. 758 g/m<sup>2</sup>), kernel wt. (46 vs. 40 mg), kernels/spike (28 vs. 41), lodging (30 vs. 3%). Similar for heading, test wt.

**PI 615629. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 131; 96 1158. Pedigree - Olympia\*5///Tom

Thumb/7\*Burt//2\*Olympia, 97131. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1a gene of Olympia. Olympia is a tall, semihard white winter Finish cv. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically different from Olympia for plant ht. (64 vs. 140 cm), grain yield (448 vs. 326 g/m<sup>2</sup>), kernel wt. (24 vs. 30 mg), kernels/spike (41 vs. 31), test wt. (690 vs. 774 g/L), lodging (1 vs. 62%), heading (2d later).

**PI 615630. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 140; 96 1173. Pedigree - Olympia\*5//Tom Thumb/7\*Burt//2\*Olympia, 97140. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1a gene of Olympia. Olympia is a tall, semihard white winter Finish cv. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically different from Olympia for plant ht. (68 vs. 140 cm), grain yield (448 vs. 326 g/m<sup>2</sup>), kernel wt. (26 vs. 30 mg), kernels/spike (52 vs. 31), test wt. (746 vs. 774 g/L), lodging (1 vs. 62%), heading (2d later).

**PI 615631. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 148; 96 1188. Pedigree - Olympia\*5//Tom Thumb/7\*Burt//2\*Olympia, 97148. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1a gene of Olympia. Olympia is a tall, semihard white winter Finish cv. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically different from Olympia for plant ht. (69 vs. 140 cm), grain yield (416 vs. 326 g/m<sup>2</sup>), kernel wt. (24 vs. 30 mg), kernels/spike (43 vs. 31), test wt. (685 vs. 774 g/L), lodging (1 vs. 62%). Similar for heading.

**PI 615632. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 149; 96 1190. Pedigree - Olympia\*5//Tom Thumb/7\*Burt//2\*Olympia, 97149. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1a gene of Olympia. Olympia is a tall, semihard white winter Finish cv. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically different from Olympia for plant ht. (67 vs. 140 cm), grain yield (380 vs. 326 g/m<sup>2</sup>), kernel wt. (25 vs. 30 mg), kernels/spike (39 vs. 31), test wt. (693 vs. 774 g/L), lodging (1 vs. 62%), heading (2d later).

**PI 615633. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 155; 96 1200. Pedigree - Olympia\*5//Tom Thumb/7\*Burt//2\*Olympia, 97155. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1a gene of Olympia. Olympia is a tall, semihard white winter Finish cv. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically different from Olympia for plant ht. (69 vs. 140 cm), grain yield (396 vs. 326 g/m<sup>2</sup>), kernel wt. (23 vs. 30 mg), kernels/spike (43 vs. 31), test wt. (697 vs. 774 g/L), lodging (1 vs. 62%), heading (4d later).

**PI 615634. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 135; 96 1164. Pedigree - Olympia\*5//Tom Thumb/7\*Burt//2\*Olympia, 97135. F3:6, BC6 near-isoline with normal height gene Rht B1a of Olympia, a tall semihard, white winter Finish cv.

Sib to NILs with Rht B1c gene of Tom Thumb in Olympia background. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically similar to Olympia for plant ht., heading, grain yield, kernel wt., kernels/spike, lodging. Differs for test wt. (726 vs. 774 g/L).

**PI 615635. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 136; 96 1165. Pedigree - Olympia\*5///Tom Thumb/7\*Burt//2\*Olympia, 97136. F3:6, BC6 near-isoline with normal height gene Rht Bla of Olympia, a tall semihard, white winter Finish cv. Sib to NILs with Rht B1c gene of Tom Thumb in Olympia background. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically similar to Olympia for plant ht., heading, grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615636. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 138; 96 1170. Pedigree - Olympia\*5///Tom Thumb/7\*Burt//2\*Olympia, 97138. F3:6, BC6 near-isoline with normal height gene Rht Bla of Olympia, a tall semihard, white winter Finish cv. Sib to NILs with Rht B1c gene of Tom Thumb in Olympia background. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically similar to Olympia for plant ht., heading, grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615637. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 159; 96 1206. Pedigree - Olympia\*5///Tom Thumb/7\*Burt//2\*Olympia, 97159. F3:6, BC6 near-isoline with normal height gene Rht Bla of Olympia, a tall semihard, white winter Finish cv. Sib to NILS with Rht B1c gene of Tom Thumb in Olympia background. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically similar to Olympia for plant ht., heading, grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615638. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 160; 96 1207. Pedigree - Olympia\*5///Tom Thumb/7\*Burt//2\*Olympia, 97160. F3:6, BC6 near-isoline with normal height gene Rht Bla of Olympia, a tall semihard, white winter Finish cv. Sib to NILs with Rht B1c gene of Tom Thumb in Olympia background. Similar to Olympia for spike lax, fusiform, awnletted. Glumes brown. Kernels white, midlong. Germ midsize. Agronomically similar to Olympia for heading, grain yield, kernel wt., kernels/spike, test wt., lodging. Taller ht. (145 vs. 140 cm).

**PI 615639. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 169; 96 1227. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97169. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1b gene of Stephens (CI 17596). Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft ovate. Germ small. Agronomically different from Stephens for plant ht. (45 vs. 82 cm), heading (2d later), grain yield (419 vs. 630 g/m<sup>2</sup>), kernel wt. (36 vs. 46 mg), test wt. (646 vs. 762 g/L). Similar for kernels/spike, lodging.

**PI 615640. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 170; 96 1228. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97170. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1b gene of Stephens (CI 17596). Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft ovate. Germ small. Agronomically different from Stephens for plant ht. (43 vs. 82 cm), heading (3d later), grain yield (429 vs. 630 g/m<sup>2</sup>), kernel wt. (40 vs. 46 mg), test wt. (656 vs. 762 g/L). Similar for kernels/spike, lodging.

**PI 615641. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 172; 96 1232. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97172. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1b gene of Stephens (CI 17596). Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft ovate. Germ small. Agronomically different from Stephens for plant ht. (45 vs. 82 cm), heading (3d later), grain yield (452 vs. 630 g/m<sup>2</sup>), kernel wt. (38 vs. 46 mg), kernels/spike (32 vs. 37), test wt. (662 vs. 762 g/L). Similar for lodging.

**PI 615642. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 178; 96 1241. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97178. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1b gene of Stephens (CI 17596). Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft ovate. Germ small. Agronomically different from Stephens for plant ht. (42 vs. 82 cm), heading (3d later), grain yield (429 vs. 630 g/m<sup>2</sup>), kernel wt. (39 vs. 46 mg), test wt. (647 vs. 762 g/L). Similar for kernels/spike, lodging.

**PI 615643. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 179; 96 1243. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97179. F3:6, BC6 near-isoline with reduced height gene Rht B1c of Tom Thumb substituted for Rht B1b gene of Stephens (CI 17596). Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, included, white glumes. Kernels white, long, soft ovate. Germ small. Agronomically different from Stephens for plant ht. (41 vs. 82 cm), heading (2d later), grain yield (418 vs. 630 g/m<sup>2</sup>), kernel wt. (38 vs. 46 mg), kernels/spike (31 vs. 38), test wt. (647 vs. 762 g/L). Similar for lodging.

**PI 615644. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 165; 96 1220. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97165. F3:6, BC6 near-isoline having Rht B1b semidwarf gene of Stephens (CI 17596). A sib of NILs with Rht B1c gene in same Stephens background. Stephens is a soft white winter common semidwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft, ovate. Germ small. Agronomically similar to Stephens for plant ht., grain yield, kernel wt., kernels/spike, test wt., lodging. Heads 1d later.

**PI 615645. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 168; 96 1225. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97168. F3:6, BC6 near-isoline having Rht B1b semidwarf gene of Stephens (CI 17596). A sib of NILs with Rht B1c gene in same Stephens background. Stephens is a soft white winter common semi-dwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft, ovate. Germ small. Agronomically similar to Stephens for plant ht., grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615646. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 181; 96 1248. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97181. F3:6, BC6 near-isoline having Rht B1b semidwarf gene of Stephens (CI 17596). A sib of NILs with Rht B1c gene in same Stephens background. Stephens is a soft white winter common semi-dwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft, ovate. Germ small. Agronomically similar to Stephens for plant ht., grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615647. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 182; 96 1249. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97182. F3:6, BC6 near-isoline having Rht B1b semidwarf gene of Stephens (CI 17596). A sib of NILs with Rht B1c gene in same Stephens background. Stephens is a soft white winter common semi-dwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft, ovate. Germ small. Agronomically similar to Stephens for plant ht., grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615648. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 192; 96 1265. Pedigree - Stephens\*5///Tom Thumb/7\*Burt//2\*Stephens, 97192. F3:6, BC6 near-isoline having Rht B1b semidwarf gene of Stephens (CI 17596). A sib of NILs with Rht B1c gene in same Stephens background. Stephens is a soft white winter common semi-dwarf cv. Similar to Stephens for spike awned, fusiform, middense, inclined, white glumes. Kernels white, long, soft, ovate. Germ small. Agronomically similar to Stephens for plant ht., grain yield, kernel wt., kernels/spike, test wt., lodging.

**PI 615649. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 195; 96 1270. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97195. F3:6, BC6 near-isoline combining reduced ht. gene Rht B1c of Tom Thumb with Rht D1b gene of Tres (CI 17917) by backcrossing. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (35 vs. 92 cm), heading (3d later), grain yield (222 vs. 584 g/m<sup>2</sup>), kernels/spike (23 vs. 45), test wt. (729 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615650. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 196; 96 1273. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97196. F3:6, BC6 near-isoline combining reduced ht. gene Rht B1c of Tom Thumb with Rht D1b gene of Tres (CI 17917) by backcrossing. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht.

(34 vs. 92 cm), heading (3d later), grain yield (238 vs. 584 g/m<sup>2</sup>), kernels/spike (23 vs. 45), kernel wt. (28 vs. 32 mg), test wt. (726 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615651. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 214; 96 1302. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97214. F3:6, BC6 near-isoline combining reduced ht. gene Rht B1c of Tom Thumb with Rht D1b gene of Tres (CI 17917) by backcrossing. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (35 vs. 92 cm), heading (1.3d later), grain yield (242 vs. 584 g/m<sup>2</sup>), kernels/spike (27 vs. 45), kernel wt. (29 vs. 32 mg), test wt. (721 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615652. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 216; 96 1309. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97216. F3:6, BC6 near-isoline combining reduced ht. gene Rht B1c of Tom Thumb with Rht D1b gene of Tres (CI 17917) by backcrossing. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (34 vs. 92 cm), heading (2d later), grain yield (242 vs. 584 g/m<sup>2</sup>), kernels/spike (32 vs. 45), kernel wt. (27 vs. 32 mg), test wt. (717 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615653. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 227; 96 1328. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97227. F3:6, BC6 near-isoline combining reduced ht. gene Rht B1c of Tom Thumb with Rht D1b gene of Tres (CI 17917) by backcrossing. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (35 vs. 92 cm), heading (3.3d later), grain yield (251 vs. 584 g/m<sup>2</sup>), kernels/spike (29 vs. 45), kernel wt. (28 vs. 32 mg), test wt. (696 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615654. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 199; 96 1281. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97199. F3:6, BC6 near-isoline with height genes Rht B1c and Rht D1a of Tom Thumb backcrossed into Tres (CI 17917) a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (47 vs. 92 cm), heading (1.3d later), grain yield (329 vs. 584 g/m<sup>2</sup>), kernels spike (32 vs. 45), kernel wt. (27 vs. 32 mg), test weight (730 vs. 785 g/L), lodging (1 vs. 11%).

**PI 615655. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 200; 96 1282. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97200. F3:6, BC6 near-isoline with height genes Rht B1c and Rht D1a of Tom Thumb backcrossed into Tres (CI 17917) a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (47 vs. 92 cm), heading (1.6d later), grain yield (337 vs. 584 g/m<sup>2</sup>), kernel wt. (24 vs. 32 mg), test wt. (698 vs. 785 g/L), lodging (1 vs. 11%). Similar for

kernels/spike.

**PI 615656. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 202; 96 1286. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97202. F3:6, BC6 near-isoline with height genes Rht B1c and Rht D1a of Tom Thumb backcrossed into Tres (CI 17917) a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (46 vs. 92 cm), heading (1.6d later), grain yield (367 vs. 584 g/m<sup>2</sup>), kernel wt. (27 vs. 32 mg), test wt. (737 vs. 785 g/L), lodging (1 vs. 11%). Similar for kernels/spike.

**PI 615657. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 204; 96 1290. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97204. F3:6, BC6 near-isoline with height genes Rht B1c and Rht D1a of Tom Thumb backcrossed into Tres (CI 17917) a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (44 vs. 92 cm), heading (1d later), grain yield (353 vs. 584 g/m<sup>2</sup>), kernel wt. (27 vs. 32 mg), test wt. (729 vs. 785 g/L). Similar for kernels/spike.

**PI 615658. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 205; 96 1291. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97205. F3:6, BC6 near-isoline with height genes Rht B1c and Rht D1a of Tom Thumb backcrossed into Tres (CI 17917) a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (45 vs. 92 cm), heading (1d later), grain yield (359 vs. 584 g/m<sup>2</sup>), kernel wt. (26 vs. 32 mg), test wt. (734 vs. 785 g/L), lodging (1 vs. 11%). Similar for kernels/spike.

**PI 615659. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 197; 96 1276. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97197. F3:6, BC6 near-isoline identical to Tres (CI 17917) for height genes Rht B1a and Rht D1b. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Agronomically similar to Tres for plant ht., heading, grain yield, kernel wt., lodging, test wt. lower (760 vs. 785 g/L).

**PI 615660. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 198; 96 1277. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97198. F3:6, BC6 near-isoline identical to Tres (CI 17917) for height genes Rht B1a and Rht D1b. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Agronomically similar to Tres for plant ht., heading, grain yield, kernel wt., lodging, test wt.

**PI 615661. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 219; 96 1315. Pedigree - Tres\*5///Tom Thumb/7\*Burt//2\*Tres, 97219. F3:6, BC6 near-isoline identical to Tres (CI 17917) for height genes Rht B1a and Rht D1b. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense,

glumes white. Kernels white, short, soft, ovate. Germ small.  
Agronomically similar to Tres for plant ht., heading, grain yield,  
kernel wt., lodging, test wt.

**PI 615662. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 225; 96 1326. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97225. F3:6, BC6 near-isoline identical to Tres  
(CI 17917) for height genes Rht Bla and Rht D1b. Tres is a soft white  
winter club cv. Similar to Tres for spike awnletted, elliptical, dense,  
glumes white. Kernels white, short, soft, ovate. Germ small.  
Agronomically similar to Tres for plant ht., heading, kernel wt.,  
lodging, test wt.

**PI 615663. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 230; 96 1334. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97230. F3:6, BC6, near-isoline identical to Tres  
(CI 17917) for height genes Rht Bla and Rht D1b. Tres is a soft white  
winter club cv. Similar to Tres for spike awnletted, elliptical, dense,  
glumes white. Kernels white, short, soft, ovate. Germ small.  
Agronomically similar to Tres for heading, grain yield, test wt.  
Slightly different for plant ht. (89 vs. 92 cm), kernel wt. (30 vs. 32  
mg), lodging (4 vs. 11%).

**PI 615664. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 209; 96 1296. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97209. F3:6, BC6 near-isoline with normal height  
genes Rht D1a of Tom Thumb and Rht Bla of Tres in Tres (CI 17917)  
background. Tres is a soft white winter club cv. Similar to Tres for  
spike awnletted, elliptical, dense, glumes white. Kernels white, short,  
soft, ovate. Germ small. Differing agronomically from Tres for plant ht.  
(108 vs. 92 cm), grain yield (498 vs. 584 g/m<sup>2</sup>), lodging (25 vs. 11%).  
Similar for heading, kernel wt., test wt.

**PI 615665. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 210; 96 1297. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97210. F3,6, BC6 near-isoline with normal height  
genes Rht D1a of Tom Thumb and Rht Bla of Tres in Tres (CI 17917)  
background. Tres is a soft white winter club cv. Similar to Tres for  
spike awnletted, elliptical, dense, glumes white. Kernels white, short,  
soft, ovate. Germ small. Differing agronomically from Tres for plant ht.  
(109 vs. 92 cm), grain yield (445 vs. 584 g/m<sup>2</sup>), test wt. (806 vs. 785  
g/L). Similar for heading, kernel wt.

**PI 615666. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 211; 96 1299. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97211. F3:6, BC6 near-isoline with normal height  
genes Rht D1a of Tom Thumb and Rht Bla of Tres in Tres (CI 17917)  
background. Tres is a soft white winter club cv. Similar to Tres for  
spike awnletted, elliptical, dense, glumes white. Kernels white, short,  
soft, ovate. Germ small. Differing agronomically from Tres for plant ht.  
(109 vs. 92 cm), grain yield (475 vs. 584 g/m<sup>2</sup>), test wt. (774 vs. 785  
g/L), lodging (23 vs. 11%). Similar fo heading, kernel wt.

**PI 615667. *Triticum aestivum* L. subsp. *aestivum***

Genetic. Pureline. 97ARS 212; 96 1300. Pedigree - Tres\*5///Tom  
Thumb/7\*Burt//2\*Tres, 97212. F3:6, BC6 near-isoline with normal height  
genes Rht D1a of Tom Thumb and Rht Bla of Tres in Tres (CI 17917)

background. Tres is a soft white winter club cv. Similar to Tres for spike awnletted, elliptical, dense, glumes white. Kernels white, short, soft, ovate. Germ small. Differing agronomically from Tres for plant ht. (107 vs. 92 cm), grain yield (475 vs. 584 g/m<sup>2</sup>). Similar for heading, kernel wt., test wt., lodging.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 09/15/1989.

**PI 615668. *Lens culinaris* subsp. *orientalis*** (Boiss.) Ponert

Wild. 060689-0201; Lo 0198; W6 2032. Collected 06/06/1989 in Mardin, Turkey. Latitude 37 deg. 34' N. Longitude 41 deg. 4' E. Elevation 1160 m. In shade of scattered oak shrub in rocky soil. Loose rubble. Rocky N facing limestone slope. Below man-made caves in N facing cliff. 2.7km W of Icorem or 18.3km NW of Senkoy. Common.

The following were collected by Gideon Ladizinsky, Hebrew University, Faculty of Agriculture, P.O. Box 12, Rehovot, Central, Israel; Dogan Sakar. Donated by David L. Hoffman, USDA-ARS, P.O. Box 307, Aberdeen, Idaho 83210, United States. Received 01/01/1986.

**PI 615669. *Lens culinaris* subsp. *orientalis*** (Boiss.) Ponert

Wild. km 20989; Hoffman # 81; Lo 0081; W6 3265. Collected 06/02/1981 in Turkey. Latitude 37 deg. 22' 0'' N. Longitude 40 deg. 32' 0'' E. Between Mardin and Midyat.

The following were collected by Nigel Maxted, Univ. of Southampton - Dept. of Biology, Med. & Biological Science Building, Bassett Crescent East, Southampton, England SO9 3TU, United Kingdom; Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 10/04/1991.

**PI 615670. *Lens culinaris* subsp. *orientalis*** (Boiss.) Ponert

Wild. 8195; 918195; W6 8286. Collected 06/10/1991 in Tajikistan. Latitude 39 deg. 28' 0'' N. Longitude 68 deg. 6' 0'' E. Elevation 1520 m. 3km north of Vechkan. Southern aspect, in rocky scree of small river valley. Associa. Additional voucher locations: MO, G, ERE.

**PI 615671. *Lens culinaris* subsp. *orientalis*** (Boiss.) Ponert

Wild. 8203; 918203; W6 8287. Collected 06/10/1991 in Tajikistan. Latitude 39 deg. 32' 0'' N. Longitude 67 deg. 53' 0'' E. Elevation 1540 m. Urmitan, on northern edge of town. Western aspect, in loose scree of canyon. Associated with mixed. Additional voucher locations: MO, G, ERE

**PI 615672. *Lens culinaris* subsp. *orientalis*** (Boiss.) Ponert

Wild. 8207; 918207; W6 8288. Collected 06/11/1991 in Tajikistan. Latitude 39 deg. 28' 0'' N. Longitude 67 deg. 44' 0'' E. Elevation 1270 m. 52km east of Penzikent near Erun. Northern aspect, rocky slope of

shrub-covered hillside adjacent. Additional voucher locations: MO, G, ERE.

The following were donated by Miho Mihov, Institute for Wheat and Sunflower, "Dobroudja" 9520, General Toschevo, Tolbukhin 9520, Bulgaria. Received 12/11/1991.

**PI 615673. *Lens culinaris* Medik. subsp. *culinaris***

Cultivated. SH 85-23-3; W6 8446. Pedigree - F7 generation of IWS accession numbers 48/HC1414. Obr.chiflik 7/Naslada.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 08/24/1992.

**PI 615674. *Lens culinaris* Medik. subsp. *culinaris***

Cultivated. B92-112; No. 2; W6 10801. Collected 07/02/1992 in France. Du Puy-2. Location Uncertain - RW.

**PI 615675. *Lens culinaris* Medik. subsp. *culinaris***

Cultivated. B92-130; No. 38; W6 10814. Collected 07/02/1992 in Russian Federation. Latitude 40 deg. 25' 8'' N. Longitude 69 deg. 56' 20'' E. Tadzhijskaja-95.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 07/01/1987.

**PI 615676. *Lens nigricans* (M. Bieb.) Godr.**

Wild. 230785-0101; Ln 0110; W6 11543. Collected 07/23/1985 in Turkey. Latitude 38 deg. 12' 0'' N. Longitude 30 deg. 11' 0'' E. Elevation 1010 m. 16km from Dinar on way to Afyon, Afyon Province. Plants shattered and dry, mostly small. Soil collected and sorted for seeds.

**PI 615677. *Lens nigricans* (M. Bieb.) Godr.**

Cultivated. 240785-0301; Ln 0116; W6 11545. Collected 07/24/1985 in Turkey. Latitude 37 deg. 46' 0'' N. Longitude 30 deg. 32' 0'' E. Elevation 910 m. Rocky area 2km after intersection of Isparta-Burdur on way to Isparta, hill on right side of road about 250m off road, Isparta Province. Lat/lon accurate to Isparta. Plants large, dentate stipules. Large population. Pods shattered, stipules oriented parallel to stem. Seeds found in rocks beneath plants, soil sample taken.

The following were donated by International Board for Plant Genetic Resources, AGPG, FAO, Via della terme de Caracalla, Rome, Latium 00100, Italy . Received 05/27/1994.

**PI 615678. *Lens culinaris* Medik. subsp. *culinaris***

Uncertain. 2723(1); W6 15652. Collected in Pakistan.

**PI 615679. *Lens culinaris* Medik. subsp. *culinaris***  
Uncertain. 2740(1); W6 15658. Collected in Pakistan.

The following were developed by Ross King, United States; Will Bilozir, United States. Received 02/28/2001.

**PI 615680 PVPO. *Solanum tuberosum* L.**  
Cultivar. "TRUE BLUE". PVP 9700170.

The following were developed by HZPC Holland B.V., Netherlands. Received 02/28/2001.

**PI 615681 PVPO. *Solanum tuberosum* L.**  
Cultivar. "MORENE". PVP 9600401.

**PI 615682 PVPO. *Solanum tuberosum* L.**  
Cultivar. "MONDIAL". PVP 9700116.

The following were developed by Willhite Seed Company, Box 23, Poolville, Texas 76076, United States. Received 02/28/2001.

**PI 615683 PVPO. *Cucurbita pepo* L.**  
Cultivar. "LITTLE OCTOBER". PVP 200100045.

The following were developed by Pure Line Seeds, Inc., P.O. Box 8866, Moscow, Idaho 83843, United States. Received 02/28/2001.

**PI 615684 PVPO. *Pisum sativum* L.**  
Cultivar. "STRIKE". PVP 200100095.

The following were developed by New Mexico State University Agricultural Experiment Station, Las Cruces, New Mexico 88003, United States. Received 02/28/2001.

**PI 615685 PVPO. *Allium cepa* L.**  
Cultivar. "NuMex Arthur". PVP 200100096.

**PI 615686 PVPO. *Allium cepa* L.**  
Cultivar. "NuMex Freedom". PVP 200100097.

The following were developed by Louisiana State University Agricultural Center, Louisiana, United States. Received 02/28/2001.

**PI 615687 PVPO. *Oryza sativa* L.**  
Cultivar. "CF 51". PVP 200100105.

**PI 615688 PVPO. *Oryza sativa* L.**  
Cultivar. "CL-121". PVP 200100106.

**PI 615689 PVPO. *Oryza sativa* L.**

Cultivar. "CL-141". PVP 200100107.

The following were developed by Brotherton Seed Company, P.O. Box 1378, Moses Lake, Washington, United States. Received 02/28/2001.

**PI 615690 PVPO. Pisum sativum L.**

Cultivar. "JESSY". PVP 200100108.

The following were developed by Minnesota Agricultural Experiment Station, St. Anthony Park, Minnesota, United States. Received 02/28/2001.

**PI 615691 PVPO. Avena sativa L.**

Cultivar. "RICHARD". PVP 200100109.

The following were developed by Elsom's Limited, Spalding, Linco, England, United Kingdom. Received 02/28/2001.

**PI 615692 PVPO. Pisum sativum L.**

Cultivar. "KENNEDY". PVP 200100110.

The following were developed by Adolph Coors Brewing Co., Golden, Colorado, United States. Received 02/28/2001.

**PI 615693 PVPO. Hordeum vulgare L.**

Cultivar. "MORAVIAN 37". PVP 200100112.

The following were donated by Tommy E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States. Received 03/08/2001.

**PI 615694. Glycine max (L.) Merr.**

Cultivar. Pureline. N7001; N90-7199; SY0106001. PVP 200100221. Pedigree - N77-114 (USDA-ARS breeding line) x PI 416937 (old cv. from Japan). High yield and diverse pedigree compared to other North American cultivars. Group VII adapted to the South Atlantic Coast and Southeastern U.S. Matures approx. 3 days later than Cook or Haskell and is adapted to similar latitudes (approx. 31 deg. to 37 deg. N). In 21 regional USDA Coop. Uniform Soybean Yield Trials on the Atlantic coast, produced 4% lower yield than Haskell in wide-row (95 cm) spacings when grown under full season conditions. In 26 full-season wide-row (95 cm) and late-planted narrow-row (48 cm) yield trials in North Carolina, produced 2% higher yield than Haskell and the same yield as Cook. In 1998, was the highest yielding entry in its maturity class in the North Carolina Official Variety Testing Program. Lodging resistant, exhibiting an average lodging score similar to or better than Haskell or Cook in USDA Coop. Uniform Soybean Yield Trials. Averaged 10 cm shorter than Haskell in these same trials. Resistant to pod dehiscence (shattering) after maturation, .

**PI 615695. Glycine max (L.) Merr.**

Cultivar. Pureline. N7103; N94-7441; SY0106002. PVP 200100287. Pedigree - NTCPR90-143 x Pearl. High yield relative to other specialty cvs. and

potential use in Japanese soyfoods export market. Small-seeded maturity group VII adapted to South Atlantic Coast and Southeastern U.S. Matures approx. the same day as Haskell and is adapted to similar latitudes (approx. 31 deg. to 37 deg. N). In 21 regional USDA Coop. Uniform Soybean Yield Trials, produced 4% lower yield than Haskell in wide (95cm) row spacing when grown under full season conditions. In 15 environments in the North Carolina Official Variety Testing Program, produced 2% lower yield than Haskell or Cook. In four North Carolina environments, the 100-seed weight averaged 7.8 g and was smaller than Cook (16.1 g) or Pearl (8.1 g). Average seed protein concentration was higher, and oil concentration lower, than Haskell (437 and 171 g kg<sup>-1</sup> vs. 408 and 202 g kg<sup>-1</sup>) in 1997 on a zero percent moisture basis. More lodging resistant than Haskell in 1997, exhibiting an average lodging score of 1, compared to Haskell's.

The following were developed by NBPGR, Regional Station, Phagli, Simla, Himachal Pradesh 171 004, India. Donated by B.D. Joshi, National Bureau of Plant Genetic Res., Regional Station, Phagli, Simla, Himachal Pradesh 171004, India. Received 05/14/1993.

**PI 615696. *Amaranthus hypochondriacus* L.**

Cultivar. "Annapurna"; Ames 21046. Released 1985. Whitish cream seeds. Fast growing. Drought and disease resistant. Good crop for stress conditions. High yield potential, 22.3 q/ha. Popping quality is good, popping to five times its size. Leaves and inflorescence are green.

The following were collected by Hugh H. Iltis, University of Wisconsin, Herbarium and Department of Botany, Madison, Wisconsin 53706, United States; Milton Castrillo; Cristobal Medina; Charles Aker. Donated by Hugh H. Iltis, University of Wisconsin, Herbarium and Department of Botany, Madison, Wisconsin 53706, United States. Received 06/30/1992.

**PI 615697. *Zea nicaraguensis* H. H. Iltis**

Wild. 30919; Ames 21893. Collected 12/18/1991 in Chinandega, Nicaragua. Latitude 12 deg. 53' 45'' N. Longitude 86 deg. 59' 0'' W. Elevation 9 m. Near seasonal camp occupied by cattle herders known as El Rodeo, ~100 m east of Estero Palo Blanco, ~3 km northwest of Hacienda Apacunca, 19-20 km west-southwest of Villa Nueva, plains between Estero Paimaica and Estero Palo Blanco. Pacific coastal plain near Golfo de Fonseca. Sunny margin of open, mature, weedy, heavily grazed floodplain gallery forest (dry forest, seasonally green, 25 m tall, under 3-5 dm of water in Oct.) between savanna and seasonal river (estero). Dense 1 ha stand, 3-5 meters tall, once ubiquitous, now very rare in region.

The following were developed by Wisconsin Alumni Research Foundation, University of Wisconsin, Madison, Wisconsin, United States. Received 03/13/2001.

**PI 615698 PVPO. *Solanum tuberosum* L.**

Cultivar. "W1100R". PVP 9700151.

Unknown source. Received 2001.

**PI 615699. *Gossypium arboreum* L.**  
BURMA C19.

Unknown source. Received 2001.

**PI 615700. *Gossypium arboreum* L.**  
"CHINESE NARROW LEAF".

Unknown source. Received 2001.

**PI 615701. *Gossypium arboreum* L.**  
SOUDANENSE.

Unknown source. Received 2001.

**PI 615702. *Gossypium arboreum* L.**  
AK 235.

Unknown source. Received 2001.

**PI 615703. *Gossypium arboreum* L.**  
CJ-73.

Unknown source. Received 2001.

**PI 615704. *Gossypium arboreum* L.**  
"GAORANI 46".

Unknown source. Received 2001.

**PI 615705. *Gossypium arboreum* L.**  
"COCANDA-1".

Unknown source. Received 2001.

**PI 615706. *Gossypium arboreum* L.**  
30846.

Unknown source. Received 2001.

**PI 615707. *Gossypium arboreum* L.**  
30838.

Unknown source. Received 2001.

**PI 615708. *Gossypium arboreum* L.**  
CERNUUM.

Unknown source. Received 2001.

**PI 615709. *Gossypium arboreum* L.**  
NEGLECTUM.

Unknown source. Received 2001.

**PI 615710. *Gossypium arboreum* L.**  
"NANKING MEYEN".

Unknown source. Received 2001.

**PI 615711. *Gossypium arboreum* L.**  
ANTYPICUM.

Unknown source. Received 2001.

**PI 615712. *Gossypium arboreum* L.**  
INDICUM.

Unknown source. Received 2001.

**PI 615713. *Gossypium arboreum* L.**  
"SANGUINEUM HASSK".

Unknown source. Received 2001.

**PI 615714. *Gossypium arboreum* L.**  
WEIGHTIANUM.

Unknown source. Received 2001.

**PI 615715. *Gossypium arboreum* L.**  
"GAORANI 46".

Unknown source. Received 2001.

**PI 615716. *Gossypium arboreum* L.**  
"K-7".

Unknown source. Received 2001.

**PI 615717. *Gossypium arboreum* L.**  
VIR-6681.

Unknown source. Received 2001.

**PI 615718. *Gossypium arboreum* L.**  
"WESTERNS-I".

Unknown source. Received 2001.

**PI 615719. *Gossypium arboreum* L.**  
"CV 2557".

Unknown source. Received 2001.

**PI 615720. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615721. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615722. *Gossypium arboreum* L.**  
"TAICHANG?".

Unknown source. Received 2001.

**PI 615723. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615724. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615725. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615726. *Gossypium arboreum* L.**  
"JIANG NING".

Unknown source. Received 2001.

**PI 615727. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615728. *Gossypium arboreum* L.**  
"ZHENJIANG DING".

Unknown source. Received 2001.

**PI 615729. *Gossypium arboreum* L.**  
"SHEZHOU".

Unknown source. Received 2001.

**PI 615730. *Gossypium arboreum* L.**  
"ZI SE DA HUA".

Unknown source. Received 2001.

**PI 615731. *Gossypium arboreum* L.**  
"HONG-ZIE MIAN".

Unknown source. Received 2001.

**PI 615732. *Gossypium arboreum* L.**  
"TU MIAN".

Unknown source. Received 2001.

**PI 615733. *Gossypium arboreum* L.**  
"ZI-HUA GUANG ZI".

Unknown source. Received 2001.

**PI 615734. *Gossypium arboreum* L.**  
"LIAO YANG #1".

Unknown source. Received 2001.

**PI 615735. *Gossypium arboreum* L.**  
"BAI WAN MIAN".

Unknown source. Received 2001.

**PI 615736. *Gossypium arboreum* L.**  
"LE TING XIAN-HEIZI".

Unknown source. Received 2001.

**PI 615737. *Gossypium arboreum* L.**  
"GUANG DI XIAN-TIE-ZI".

Unknown source. Received 2001.

**PI 615738. *Gossypium arboreum* L.**  
"ZHEJIANG DING HAI-ZI".

Unknown source. Received 2001.

**PI 615739. *Gossypium arboreum* L.**  
"GUANGXI ZUAXIAN-ZHO".

Unknown source. Received 2001.

**PI 615740. *Gossypium arboreum* L.**  
"FONG YANG ZHONG-MIAN".

Unknown source. Received 2001.

**PI 615741. *Gossypium arboreum* L.**  
"LIANHUA ZHONG-MIAN".

Unknown source. Received 2001.

**PI 615742. *Gossypium arboreum* L.**  
"GING JING".

Unknown source. Received 2001.

**PI 615743. *Gossypium arboreum* L.**  
"SHI XI YA #1".

Unknown source. Received 2001.

**PI 615744. *Gossypium arboreum* L.**  
4189.

Unknown source. Received 2001.

**PI 615745. *Gossypium arboreum* L.**  
"WHITE FLOWER".

Unknown source. Received 2001.

**PI 615746. *Gossypium arboreum* L.**  
"RED FLOWER".

Unknown source. Received 2001.

**PI 615747. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615748. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615749. *Gossypium arboreum* L.**  
"CVA-4".

Unknown source. Received 2001.

**PI 615750. *Gossypium arboreum* L.**  
"PUNJABI 39".

Unknown source. Received 2001.

**PI 615751. *Gossypium arboreum* L.**  
"A2-K".

Unknown source. Received 2001.

**PI 615752. *Gossypium arboreum* L.**  
"A2-Q".

Unknown source. Received 2001.

**PI 615753. *Gossypium arboreum* L.**  
"A2-72270".

Unknown source. Received 2001.

**PI 615754. *Gossypium arboreum* L.**  
"JARILLA".

Unknown source. Received 2001.

**PI 615755. *Gossypium arboreum* L.**  
C-19.

Unknown source. Received 2001.

**PI 615756. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615757. *Gossypium arboreum* L.**  
"WHITE FLOWER, BROWN LINT".

Unknown source. Received 2001.

**PI 615758. *Gossypium arboreum* L.**  
"119 S".

Unknown source. Received 2001.

**PI 615759. *Gossypium arboreum* L.**  
"231 R".

Unknown source. Received 2001.

**PI 615760. *Gossypium arboreum* L.**  
"GAO 61-6".

Unknown source. Received 2001.

**PI 615761. *Gossypium arboreum* L.**  
"H 150".

Unknown source. Received 2001.

**PI 615762. *Gossypium arboreum* L.**  
"H 158".

Unknown source. Received 2001.

**PI 615763. *Gossypium arboreum* L.**  
"H 173".

Unknown source. Received 2001.

**PI 615764. *Gossypium arboreum* L.**  
"H 209".

Unknown source. Received 2001.

**PI 615765. *Gossypium arboreum* L.**  
"H 241".

Unknown source. Received 2001.

**PI 615766. *Gossypium arboreum* L.**  
"H 415".

Unknown source. Received 2001.

**PI 615767. *Gossypium arboreum* L.**  
"H 429".

Unknown source. Received 2001.

**PI 615768. *Gossypium arboreum* L.**  
"H 442".

Unknown source. Received 2001.

**PI 615769. *Gossypium arboreum* L.**  
"H 460".

Unknown source. Received 2001.

**PI 615770. *Gossypium arboreum* L.**  
"H 465".

Unknown source. Received 2001.

**PI 615771. *Gossypium arboreum* L.**  
"H 467".

Unknown source. Received 2001.

**PI 615772. *Gossypium arboreum* L.**  
"H 468".

Unknown source. Received 2001.

**PI 615773. *Gossypium arboreum* L.**  
"H 484".

Unknown source. Received 2001.

**PI 615774. *Gossypium arboreum* L.**  
"H 485".

Unknown source. Received 2001.

**PI 615775. *Gossypium arboreum* L.**  
"H 486".

Unknown source. Received 2001.

**PI 615776. *Gossypium arboreum* L.**  
"H 489".

Unknown source. Received 2001.

**PI 615777. *Gossypium arboreum* L.**  
"H 491".

Unknown source. Received 2001.

**PI 615778. *Gossypium arboreum* L.**  
"H 492".

Unknown source. Received 2001.

**PI 615779. *Gossypium arboreum* L.**  
"H 494".

Unknown source. Received 2001.

**PI 615780. *Gossypium arboreum* L.**  
"H 495".

Unknown source. Received 2001.

**PI 615781. *Gossypium arboreum* L.**  
"H 496".

Unknown source. Received 2001.

**PI 615782. *Gossypium arboreum* L.**  
"H 499".

Unknown source. Received 2001.

**PI 615783. *Gossypium arboreum* L.**  
"H 500".

Unknown source. Received 2001.

**PI 615784. *Gossypium arboreum* L.**  
"H 503".

Unknown source. Received 2001.

**PI 615785. *Gossypium arboreum* L.**  
"H 507".

Unknown source. Received 2001.

**PI 615786. *Gossypium arboreum* L.**  
"H 508".

Unknown source. Received 2001.

**PI 615787. *Gossypium arboreum* L.**  
"H 510".

Unknown source. Received 2001.

**PI 615788. *Gossypium arboreum* L.**  
"H 512".

Unknown source. Received 2001.

**PI 615789. *Gossypium arboreum* L.**  
"H 513".

Unknown source. Received 2001.

**PI 615790. *Gossypium arboreum* L.**  
"H 574".

Unknown source. Received 2001.

**PI 615791. *Gossypium arboreum* L.**  
"H 581".

Unknown source. Received 2001.

**PI 615792. *Gossypium arboreum* L.**  
"HAWARI".

Unknown source. Received 2001.

**PI 615793. *Gossypium arboreum* L.**  
"INDICUM-1".

Unknown source. Received 2001.

**PI 615794. *Gossypium arboreum* L.**  
"INDICUM-2".

Unknown source. Received 2001.

**PI 615795. *Gossypium arboreum* L.**  
"INDICUM-10".

Unknown source. Received 2001.

**PI 615796. *Gossypium arboreum* L.**  
"INDICUM-18".

Unknown source. Received 2001.

**PI 615797. *Gossypium arboreum* L.**  
"INDICUM-22".

Unknown source. Received 2001.

**PI 615798. *Gossypium arboreum* L.**  
"INDICUM-24".

Unknown source. Received 2001.

**PI 615799. *Gossypium arboreum* L.**  
"INDICUM-28".

Unknown source. Received 2001.

**PI 615800. *Gossypium arboreum* L.**  
"INDICUM-1290".

Unknown source. Received 2001.

**PI 615801. *Gossypium arboreum* L.**  
"INDICUM-1998".

Unknown source. Received 2001.

**PI 615802. *Gossypium arboreum* L.**  
"IMPROVED SHAM".

Unknown source. Received 2001.

**PI 615803. *Gossypium arboreum* L.**  
"JARILLA".

Unknown source. Received 2001.

**PI 615804. *Gossypium arboreum* L.**  
"JUBILEE".

Unknown source. Received 2001.

**PI 615805. *Gossypium arboreum* L.**  
"JL 9".

Unknown source. Received 2001.

**PI 615806. *Gossypium arboreum* L.**  
"JL 9-46".

Unknown source. Received 2001.

**PI 615807. *Gossypium arboreum* L.**  
"JL 60".

Unknown source. Received 2001.

**PI 615808. *Gossypium arboreum* L.**  
"JL 407".

Unknown source. Received 2001.

**PI 615809. *Gossypium arboreum* L.**  
"JL 415".

Unknown source. Received 2001.

**PI 615810. *Gossypium arboreum* L.**  
"KOKATI KHAKI".

Unknown source. Received 2001.

**PI 615811. *Gossypium arboreum* L.**  
"KUMUNDI B3".

Unknown source. Received 2001.

**PI 615812. *Gossypium arboreum* L.**  
"K 1".

Unknown source. Received 2001.

**PI 615813. *Gossypium arboreum* L.**  
"K 2".

Unknown source. Received 2001.

**PI 615814. *Gossypium arboreum* L.**  
"K 52-46-E-3".

Unknown source. Received 2001.

**PI 615815. *Gossypium arboreum* L.**  
"K 52-402".

Unknown source. Received 2001.

**PI 615816. *Gossypium arboreum* L.**  
"K 53-519".

Unknown source. Received 2001.

**PI 615817. *Gossypium arboreum* L.**  
"K 53-567".

Unknown source. Received 2001.

**PI 615818. *Gossypium arboreum* L.**  
"K 161-1".

Unknown source. Received 2001.

**PI 615819. *Gossypium arboreum* L.**  
"K 359 F".

Unknown source. Received 2001.

**PI 615820. *Gossypium arboreum* L.**  
"K 462".

Unknown source. Received 2001.

**PI 615821. *Gossypium arboreum* L.**  
"K 463".

Unknown source. Received 2001.

**PI 615822. *Gossypium arboreum* L.**  
"KUMATHA BLACK SEEDED".

Unknown source. Received 2001.

**PI 615823. *Gossypium arboreum* L.**  
"LATE VERUM".

Unknown source. Received 2001.

**PI 615824. *Gossypium arboreum* L.**  
"LOHIT".

Unknown source. Received 2001.

**PI 615825. *Gossypium arboreum* L.**  
"MALVI-11".

Unknown source. Received 2001.

**PI 615826. *Gossypium arboreum* L.**  
"MALVI-12".

Unknown source. Received 2001.

**PI 615827. *Gossypium arboreum* L.**  
"MALVI-20".

Unknown source. Received 2001.

**PI 615828. *Gossypium arboreum* L.**  
"MALSONIE".

Unknown source. Received 2001.

**PI 615829. *Gossypium arboreum* L.**  
"MH-R-168-144".

Unknown source. Received 2001.

**PI 615830. *Gossypium arboreum* L.**  
"MSA".

Unknown source. Received 2001.

**PI 615831. *Gossypium arboreum* L.**  
"MUDHOL 2927".

Unknown source. Received 2001.

**PI 615832. *Gossypium arboreum* L.**  
"MUDHOL 3394".

Unknown source. Received 2001.

**PI 615833. *Gossypium arboreum* L.**  
"NARROW NO.".

Unknown source. Received 2001.

**PI 615834. *Gossypium arboreum* L.**  
"NEW MILLION DOLLAR".

Unknown source. Received 2001.

**PI 615835. *Gossypium arboreum* L.**  
"NEW TYPE-2".

Unknown source. Received 2001.

**PI 615836. *Gossypium arboreum* L.**  
"NEW TYPE-10".

Unknown source. Received 2001.

**PI 615837. *Gossypium arboreum* L.**  
"N 11-54-31-32".

Unknown source. Received 2001.

**PI 615838. *Gossypium arboreum* L.**  
"N 14-M 14".

Unknown source. Received 2001.

**PI 615839. *Gossypium arboreum* L.**  
"N 31-14".

Unknown source. Received 2001.

**PI 615840. *Gossypium arboreum* L.**  
"N 31-24".

Unknown source. Received 2001.

**PI 615841. *Gossypium arboreum* L.**  
"N 56-7".

Unknown source. Received 2001.

**PI 615842. *Gossypium arboreum* L.**  
"N 723-WR".

Unknown source. Received 2001.

**PI 615843. *Gossypium arboreum* L.**  
"N 1314".

Unknown source. Received 2001.

**PI 615844. *Gossypium arboreum* L.**  
"NORTHERN-16".

Unknown source. Received 2001.

**PI 615845. *Gossypium arboreum* L.**  
"NR-5".

Unknown source. Received 2001.

**PI 615846. *Gossypium arboreum* L.**  
"NRS".

Unknown source. Received 2001.

**PI 615847. *Gossypium arboreum* L.**  
"OBTUSIFOLIUM-INDICUM".

Unknown source. Received 2001.

**PI 615848. *Gossypium arboreum* L.**  
"O-S-217".

Unknown source. Received 2001.

**PI 615849. *Gossypium arboreum* L.**  
"O-S-218".

Unknown source. Received 2001.

**PI 615850. *Gossypium arboreum* L.**  
"PARBHANI-1".

Unknown source. Received 2001.

**PI 615851. *Gossypium arboreum* L.**  
"PINKTOP".

Unknown source. Received 2001.

**PI 615852. *Gossypium arboreum* L.**  
"PRATAP".

Unknown source. Received 2001.

**PI 615853. *Gossypium arboreum* L.**  
"PS-135".

Unknown source. Received 2001.

**PI 615854. *Gossypium arboreum* L.**  
"PS-360".

Unknown source. Received 2001.

**PI 615855. *Gossypium arboreum* L.**  
"P-51-31".

Unknown source. Received 2001.

**PI 615856. *Gossypium arboreum* L.**  
"PBN 8-57".

Unknown source. Received 2001.

**PI 615857. *Gossypium arboreum* L.**  
"PBN 48".

Unknown source. Received 2001.

**PI 615858. *Gossypium arboreum* L.**  
"PBN 452".

Unknown source. Received 2001.

**PI 615859. *Gossypium arboreum* L.**  
"PBN 604".

Unknown source. Received 2001.

**PI 615860. *Gossypium arboreum* L.**  
"PBN 8670".

Unknown source. Received 2001.

**PI 615861. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 615862. *Gossypium arboreum* L.**  
"PBN 5839".

Unknown source. Received 2001.

**PI 615863. *Gossypium arboreum* L.**  
"PBN 6977 X AKH4".

Unknown source. Received 2001.

**PI 615864. *Gossypium arboreum* L.**  
"PBS 6582".

Unknown source. Received 2001.

**PI 615865. *Gossypium arboreum* L.**  
"PBS 6572".

Unknown source. Received 2001.

**PI 615866. *Gossypium arboreum* L.**  
"PBS 1549".

Unknown source. Received 2001.

**PI 615867. *Gossypium arboreum* L.**  
"RANGAMATI".

Unknown source. Received 2001.

**PI 615868. *Gossypium arboreum* L.**  
"ROSI 6".

Unknown source. Received 2001.

**PI 615869. *Gossypium arboreum* L.**  
"ROSI 8".

Unknown source. Received 2001.

**PI 615870. *Gossypium arboreum* L.**  
"RANIBEN".

Unknown source. Received 2001.

**PI 615871. *Gossypium arboreum* L.**  
"RG 1".

Unknown source. Received 2001.

**PI 615872. *Gossypium arboreum* L.**  
"SANGUINEUM BL/RF".

Unknown source. Received 2001.

**PI 615873. *Gossypium arboreum* L.**  
"SANGUINEUM/G 29".

Unknown source. Received 2001.

**PI 615874. *Gossypium arboreum* L.**  
"SHELGAON LOCAL".

Unknown source. Received 2001.

**PI 615875. *Gossypium arboreum* L.**  
"SARGUJA-NL-WF".

Unknown source. Received 2001.

**PI 615876. *Gossypium arboreum* L.**  
"SHAMALI SHAM 766".

Unknown source. Received 2001.

**PI 615877. *Gossypium arboreum* L.**  
"SHAM 766".

Unknown source. Received 2001.

**PI 615878. *Gossypium arboreum* L.**  
"VIRA-2".

Unknown source. Received 2001.

**PI 615879. *Gossypium arboreum* L.**  
"VIRA-3".

Unknown source. Received 2001.

**PI 615880. *Gossypium arboreum* L.**  
"VERUM-438".

Unknown source. Received 2001.

**PI 615881. *Gossypium arboreum* L.**  
"W-23-89".

Unknown source. Received 2001.

**PI 615882. *Gossypium arboreum* L.**  
"W-31-O-B".

Unknown source. Received 2001.

**PI 615883. *Gossypium arboreum* L.**  
"W-31-81-5B".

Unknown source. Received 2001.

**PI 615884. *Gossypium arboreum* L.**  
"Y-1".

Unknown source. Received 2001.

**PI 615885. *Gossypium arboreum* L.**  
"5-63-572".

Unknown source. Received 2001.

**PI 615886. *Gossypium arboreum* L.**  
"5-65-1258".

Unknown source. Received 2001.

**PI 615887. *Gossypium arboreum* L.**  
"18-B".

Unknown source. Received 2001.

**PI 615888. *Gossypium arboreum* L.**  
"35-16-408".

Unknown source. Received 2001.

**PI 615889. *Gossypium arboreum* L.**  
"56-5B".

Unknown source. Received 2001.

**PI 615890. *Gossypium arboreum* L.**  
"51/49".

Unknown source. Received 2001.

**PI 615891. *Gossypium arboreum* L.**  
"55-10-429".

Unknown source. Received 2001.

**PI 615892. *Gossypium arboreum* L.**  
"105".

Unknown source. Received 2001.

**PI 615893. *Gossypium arboreum* L.**  
"211".

Unknown source. Received 2001.

**PI 615894. *Gossypium arboreum* L.**  
"321".

Unknown source. Received 2001.

**PI 615895. *Gossypium arboreum* L.**  
"331".

Unknown source. Received 2001.

**PI 615896. *Gossypium arboreum* L.**  
"554".

Unknown source. Received 2001.

**PI 615897. *Gossypium arboreum* L.**  
"595-PST".

Unknown source. Received 2001.

**PI 615898. *Gossypium arboreum* L.**  
"619".

Unknown source. Received 2001.

**PI 615899. *Gossypium arboreum* L.**  
"670-4-2983".

Unknown source. Received 2001.

**PI 615900. *Gossypium arboreum* L.**  
"739".

Unknown source. Received 2001.

**PI 615901. *Gossypium arboreum* L.**  
"907".

Unknown source. Received 2001.

**PI 615902. *Gossypium arboreum* L.**  
"960".

Unknown source. Received 2001.

**PI 615903. *Gossypium arboreum* L.**  
"972".

Unknown source. Received 2001.

**PI 615904. *Gossypium arboreum* L.**  
"1011".

Unknown source. Received 2001.

**PI 615905. *Gossypium arboreum* L.**  
"1238".

Unknown source. Received 2001.

**PI 615906. *Gossypium arboreum* L.**  
"1314 N".

Unknown source. Received 2001.

**PI 615907. *Gossypium arboreum* L.**  
"1391 N".

Unknown source. Received 2001.

**PI 615908. *Gossypium arboreum* L.**  
"1395".

Unknown source. Received 2001.

**PI 615909. *Gossypium arboreum* L.**  
"1422".

Unknown source. Received 2001.

**PI 615910. *Gossypium arboreum* L.**  
"1768".

Unknown source. Received 2001.

**PI 615911. *Gossypium arboreum* L.**  
"1988".

Unknown source. Received 2001.

**PI 615912. *Gossypium arboreum* L.**  
"2990".

Unknown source. Received 2001.

**PI 615913. *Gossypium arboreum* L.**  
"3058".

Unknown source. Received 2001.

**PI 615914. *Gossypium arboreum* L.**  
"3124".

Unknown source. Received 2001.

**PI 615915. *Gossypium arboreum* L.**  
"4469".

Unknown source. Received 2001.

**PI 615916. *Gossypium arboreum* L.**  
"5793".

Unknown source. Received 2001.

**PI 615917. *Gossypium arboreum* L.**  
"5896".

Unknown source. Received 2001.

**PI 615918. *Gossypium arboreum* L.**  
"6040".

Unknown source. Received 2001.

**PI 615919. *Gossypium arboreum* L.**  
"6164".

Unknown source. Received 2001.

**PI 615920. *Gossypium arboreum* L.**  
"6187".

Unknown source. Received 2001.

**PI 615921. *Gossypium arboreum* L.**  
"6346".

Unknown source. Received 2001.

**PI 615922. *Gossypium arboreum* L.**  
"6481".

Unknown source. Received 2001.

**PI 615923. *Gossypium arboreum* L.**  
"6536".

Unknown source. Received 2001.

**PI 615924. *Gossypium arboreum* L.**  
"6582".

Unknown source. Received 2001.

**PI 615925. *Gossypium arboreum* L.**  
"6652".

Unknown source. Received 2001.

**PI 615926. *Gossypium arboreum* L.**  
"7038".

Unknown source. Received 2001.

**PI 615927. *Gossypium arboreum* L.**  
"7244".

Unknown source. Received 2001.

**PI 615928. *Gossypium arboreum* L.**  
"7249".

Unknown source. Received 2001.

**PI 615929. *Gossypium arboreum* L.**  
"7444".

Unknown source. Received 2001.

**PI 615930. *Gossypium arboreum* L.**  
"7526".

Unknown source. Received 2001.

**PI 615931. *Gossypium arboreum* L.**  
"7656".

Unknown source. Received 2001.

**PI 615932. *Gossypium arboreum* L.**  
"7662".

Unknown source. Received 2001.

**PI 615933. *Gossypium arboreum* L.**  
"7735".

Unknown source. Received 2001.

**PI 615934. *Gossypium arboreum* L.**  
"7748".

Unknown source. Received 2001.

**PI 615935. *Gossypium arboreum* L.**  
"7763".

Unknown source. Received 2001.

**PI 615936. *Gossypium arboreum* L.**  
"8251".

Unknown source. Received 2001.

**PI 615937. *Gossypium arboreum* L.**  
"8410-2".

Unknown source. Received 2001.

**PI 615938. *Gossypium arboreum* L.**  
"8410-3".

Unknown source. Received 2001.

**PI 615939. *Gossypium arboreum* L.**  
"30791".

Unknown source. Received 2001.

**PI 615940. *Gossypium arboreum* L.**  
"30795".

Unknown source. Received 2001.

**PI 615941. *Gossypium arboreum* L.**  
"30799".

Unknown source. Received 2001.

**PI 615942. *Gossypium arboreum* L.**  
"30800".

Unknown source. Received 2001.

**PI 615943. *Gossypium arboreum* L.**  
"30802".

Unknown source. Received 2001.

**PI 615944. *Gossypium arboreum* L.**  
"30804".

Unknown source. Received 2001.

**PI 615945. *Gossypium arboreum* L.**  
"30807".

Unknown source. Received 2001.

**PI 615946. *Gossypium arboreum* L.**  
"30808".

Unknown source. Received 2001.

**PI 615947. *Gossypium arboreum* L.**  
"30811".

Unknown source. Received 2001.

**PI 615948. *Gossypium arboreum* L.**  
"30812".

Unknown source. Received 2001.

**PI 615949. *Gossypium arboreum* L.**  
"30816".

Unknown source. Received 2001.

**PI 615950. *Gossypium arboreum* L.**  
"30818".

Unknown source. Received 2001.

**PI 615951. *Gossypium arboreum* L.**  
"30823".

Unknown source. Received 2001.

**PI 615952. *Gossypium arboreum* L.**  
"30824".

Unknown source. Received 2001.

**PI 615953. *Gossypium arboreum* L.**  
"30825".

Unknown source. Received 2001.

**PI 615954. *Gossypium arboreum* L.**  
"30827".

Unknown source. Received 2001.

**PI 615955. *Gossypium arboreum* L.**  
"30830".

Unknown source. Received 2001.

**PI 615956. *Gossypium arboreum* L.**  
"30833".

Unknown source. Received 2001.

**PI 615957. *Gossypium arboreum* L.**  
"30835".

Unknown source. Received 2001.

**PI 615958. *Gossypium arboreum* L.**  
"30837".

Unknown source. Received 2001.

**PI 615959. *Gossypium arboreum* L.**  
"30839".

Unknown source. Received 2001.

**PI 615960. *Gossypium arboreum* L.**  
"30843".

Unknown source. Received 2001.

**PI 615961. *Gossypium arboreum* L.**  
"30847".

Unknown source. Received 2001.

**PI 615962. *Gossypium arboreum* L.**  
"30849".

Unknown source. Received 2001.

**PI 615963. *Gossypium arboreum* L.**  
"30850".

Unknown source. Received 2001.

**PI 615964. *Gossypium arboreum* L.**  
"30852".

Unknown source. Received 2001.

**PI 615965. *Gossypium arboreum* L.**  
"30855".

Unknown source. Received 2001.

**PI 615966. *Gossypium arboreum* L.**  
"79/BH 47".

Unknown source. Received 2001.

**PI 615967. *Gossypium arboreum* L.**  
"79/BH 112".

Unknown source. Received 2001.

**PI 615968. *Gossypium arboreum* L.**  
"79/BH 53".

Unknown source. Received 2001.

**PI 615969. *Gossypium arboreum* L.**  
"79/BH 113".

Unknown source. Received 2001.

**PI 615970. *Gossypium arboreum* L.**  
"79/LOHIT".

Unknown source. Received 2001.

**PI 615971. *Gossypium arboreum* L.**  
"79/BH 124".

Unknown source. Received 2001.

**PI 615972. *Gossypium arboreum* L.**  
"79/BH-97".

Unknown source. Received 2001.

**PI 615973. *Gossypium arboreum* L.**  
"DESI 97".

Unknown source. Received 2001.

**PI 615974. *Gossypium arboreum* L.**  
"DESI 101".

Unknown source. Received 2001.

**PI 615975. *Gossypium arboreum* L.**  
"DESI 11".

Unknown source. Received 2001.

**PI 615976. *Gossypium arboreum* L.**  
"DESI 70".

Unknown source. Received 2001.

**PI 615977. *Gossypium arboreum* L.**  
"DESI 87".

Unknown source. Received 2001.

**PI 615978. *Gossypium arboreum* L.**  
"DESI 22".

Unknown source. Received 2001.

**PI 615979. *Gossypium arboreum* L.**  
"DESI 52".

Unknown source. Received 2001.

**PI 615980. *Gossypium arboreum* L.**  
"DESI 72".

Unknown source. Received 2001.

**PI 615981. *Gossypium arboreum* L.**  
"DESI 31".

Unknown source. Received 2001.

**PI 615982. *Gossypium arboreum* L.**  
"DESI 56".

Unknown source. Received 2001.

**PI 615983. *Gossypium arboreum* L.**  
"DESI 73".

Unknown source. Received 2001.

**PI 615984. *Gossypium arboreum* L.**  
"IC 377/8".

Unknown source. Received 2001.

**PI 615985. *Gossypium arboreum* L.**  
"AKA 57".

Unknown source. Received 2001.

**PI 615986. *Gossypium arboreum* L.**  
"AKA 590".

Unknown source. Received 2001.

**PI 615987. *Gossypium arboreum* L.**  
"AKA 603".

Unknown source. Received 2001.

**PI 615988. *Gossypium arboreum* L.**  
"AKA 28".

Unknown source. Received 2001.

**PI 615989. *Gossypium arboreum* L.**  
"MALJARI".

Unknown source. Received 2001.

**PI 615990. *Gossypium arboreum* L.**  
"DH 149".

Unknown source. Received 2001.

**PI 615991. *Gossypium arboreum* L.**  
"AH 71".

Unknown source. Received 2001.

**PI 615992. *Gossypium arboreum* L.**  
"AKH 5".

Unknown source. Received 2001.

**PI 615993. *Gossypium arboreum* L.**  
"AKH 496".

Unknown source. Received 2001.

**PI 615994. *Gossypium arboreum* L.**  
"AKH 580".

Unknown source. Received 2001.

**PI 615995. *Gossypium arboreum* L.**  
"AKH 590".

Unknown source. Received 2001.

**PI 615996. *Gossypium arboreum* L.**  
"AKH 592".

Unknown source. Received 2001.

**PI 615997. *Gossypium arboreum* L.**  
"AKH 597".

Unknown source. Received 2001.

**PI 615998. *Gossypium arboreum* L.**  
"AKH 603".

Unknown source. Received 2001.

**PI 615999. *Gossypium arboreum* L.**  
"AKH 606".

Unknown source. Received 2001.

**PI 616000. *Gossypium arboreum* L.**  
"AKH 607".

Unknown source. Received 2001.

**PI 616001. *Gossypium arboreum* L.**  
"JLH 7".

Unknown source. Received 2001.

**PI 616002. *Gossypium arboreum* L.**  
"SC 136".

Unknown source. Received 2001.

**PI 616003. *Gossypium arboreum* L.**  
"CPA-5467 (BROWN LINT)".

Unknown source. Received 2001.

**PI 616004. *Gossypium arboreum* L.**  
"AK 580".

Unknown source. Received 2001.

**PI 616005. *Gossypium arboreum* L.**  
"SC 97".

Unknown source. Received 2001.

**PI 616006. *Gossypium arboreum* L.**  
"GDH 149 (SEL.)".

Unknown source. Received 2001.

**PI 616007. *Gossypium arboreum* L.**  
"PAA 1".

Unknown source. Received 2001.

**PI 616008. *Gossypium arboreum* L.**  
"PAA 2".

Unknown source. Received 2001.

**PI 616009. *Gossypium arboreum* L.**  
"PAA 83".

Unknown source. Received 2001.

**PI 616010. *Gossypium arboreum* L.**  
"AC 3291".

Unknown source. Received 2001.

**PI 616011. *Gossypium arboreum* L.**  
"AC 3590".

Unknown source. Received 2001.

**PI 616012. *Gossypium arboreum* L.**  
"AC 3535".

Unknown source. Received 2001.

**PI 616013. *Gossypium arboreum* L.**  
"AC 3361".

Unknown source. Received 2001.

**PI 616014. *Gossypium arboreum* L.**  
"AC 3234".

Unknown source. Received 2001.

**PI 616015. *Gossypium arboreum* L.**  
"AC 3273".

Unknown source. Received 2001.

**PI 616016. *Gossypium arboreum* L.**  
"AC 3562".

Unknown source. Received 2001.

**PI 616017. *Gossypium arboreum* L.**  
"AC 3504".

Unknown source. Received 2001.

**PI 616018. *Gossypium arboreum* L.**  
"AC 3477".

Unknown source. Received 2001.

**PI 616019. *Gossypium arboreum* L.**  
"AC 3617".

Unknown source. Received 2001.

**PI 616020. *Gossypium arboreum* L.**  
"AC 3391".

Unknown source. Received 2001.

**PI 616021. *Gossypium arboreum* L.**  
"AC 3376".

Unknown source. Received 2001.

**PI 616022. *Gossypium arboreum* L.**  
"AC 3498".

Unknown source. Received 2001.

**PI 616023. *Gossypium arboreum* L.**  
"AC 3278".

Unknown source. Received 2001.

**PI 616024. *Gossypium arboreum* L.**  
"AC 3235".

Unknown source. Received 2001.

**PI 616025. *Gossypium arboreum* L.**  
"AC 3244".

Unknown source. Received 2001.

**PI 616026. *Gossypium arboreum* L.**  
"AC 3631".

Unknown source. Received 2001.

**PI 616027. *Gossypium arboreum* L.**  
"AC 3399".

Unknown source. Received 2001.

**PI 616028. *Gossypium arboreum* L.**  
"AC 3516".

Unknown source. Received 2001.

**PI 616029. *Gossypium arboreum* L.**  
"AC 3286".

Unknown source. Received 2001.

**PI 616030. *Gossypium arboreum* L.**  
"AC 3079".

Unknown source. Received 2001.

**PI 616031. *Gossypium arboreum* L.**  
"AC 3630".

Unknown source. Received 2001.

**PI 616032. *Gossypium arboreum* L.**  
"AC 3522 B".

Unknown source. Received 2001.

**PI 616033. *Gossypium arboreum* L.**  
"AC 3034".

Unknown source. Received 2001.

**PI 616034. *Gossypium arboreum* L.**  
"AC 3100".

Unknown source. Received 2001.

**PI 616035. *Gossypium arboreum* L.**  
"AC 3088".

Unknown source. Received 2001.

**PI 616036. *Gossypium arboreum* L.**  
"AC 3493".

Unknown source. Received 2001.

**PI 616037. *Gossypium arboreum* L.**  
"AC 3087".

Unknown source. Received 2001.

**PI 616038. *Gossypium arboreum* L.**  
"AC 3008".

Unknown source. Received 2001.

**PI 616039. *Gossypium arboreum* L.**  
"AC 3461".

Unknown source. Received 2001.

**PI 616040. *Gossypium arboreum* L.**  
"AC 3599".

Unknown source. Received 2001.

**PI 616041. *Gossypium arboreum* L.**  
"AC 3532".

Unknown source. Received 2001.

**PI 616042. *Gossypium arboreum* L.**  
"AC 3525".

Unknown source. Received 2001.

**PI 616043. *Gossypium arboreum* L.**  
"AC 3137".

Unknown source. Received 2001.

**PI 616044. *Gossypium arboreum* L.**  
"AC 3511".

Unknown source. Received 2001.

**PI 616045. *Gossypium arboreum* L.**  
"AC 3344".

Unknown source. Received 2001.

**PI 616046. *Gossypium arboreum* L.**  
"AC 3251".

Unknown source. Received 2001.

**PI 616047. *Gossypium arboreum* L.**  
"AC 3233".

Unknown source. Received 2001.

**PI 616048. *Gossypium arboreum* L.**  
"AC 3653".

Unknown source. Received 2001.

**PI 616049. *Gossypium arboreum* L.**  
"AC 3695".

Unknown source. Received 2001.

**PI 616050. *Gossypium arboreum* L.**  
"AC 3503".

Unknown source. Received 2001.

**PI 616051. *Gossypium arboreum* L.**  
"AC 3191".

Unknown source. Received 2001.

**PI 616052. *Gossypium arboreum* L.**  
"AC 3540".

Unknown source. Received 2001.

**PI 616053. *Gossypium arboreum* L.**  
"AC 3324".

Unknown source. Received 2001.

**PI 616054. *Gossypium arboreum* L.**  
"AC 3519".

Unknown source. Received 2001.

**PI 616055. *Gossypium arboreum* L.**  
"AC 3517".

Unknown source. Received 2001.

**PI 616056. *Gossypium arboreum* L.**  
"AC 3245".

Unknown source. Received 2001.

**PI 616057. *Gossypium arboreum* L.**  
"AC 3470".

Unknown source. Received 2001.

**PI 616058. *Gossypium arboreum* L.**  
"AC 3025".

Unknown source. Received 2001.

**PI 616059. *Gossypium arboreum* L.**  
"AC 3402".

Unknown source. Received 2001.

**PI 616060. *Gossypium arboreum* L.**  
"AC 3696".

Unknown source. Received 2001.

**PI 616061. *Gossypium arboreum* L.**  
"AC 3688".

Unknown source. Received 2001.

**PI 616062. *Gossypium arboreum* L.**  
"AC 3184".

Unknown source. Received 2001.

**PI 616063. *Gossypium arboreum* L.**  
"AC 3316".

Unknown source. Received 2001.

**PI 616064. *Gossypium arboreum* L.**  
"AC 3104".

Unknown source. Received 2001.

**PI 616065. *Gossypium arboreum* L.**  
"AC 3633".

Unknown source. Received 2001.

**PI 616066. *Gossypium arboreum* L.**  
"AC 3332".

Unknown source. Received 2001.

**PI 616067. *Gossypium arboreum* L.**  
"AC 3606".

Unknown source. Received 2001.

**PI 616068. *Gossypium arboreum* L.**  
"AC 3418".

Unknown source. Received 2001.

**PI 616069. *Gossypium arboreum* L.**  
"AC 3423".

Unknown source. Received 2001.

**PI 616070. *Gossypium arboreum* L.**  
"AC 3393".

Unknown source. Received 2001.

**PI 616071. *Gossypium arboreum* L.**  
"AC 3521".

Unknown source. Received 2001.

**PI 616072. *Gossypium arboreum* L.**  
"AC 3396".

Unknown source. Received 2001.

**PI 616073. *Gossypium arboreum* L.**  
"AC 3170".

Unknown source. Received 2001.

**PI 616074. *Gossypium arboreum* L.**  
"AC 3028".

Unknown source. Received 2001.

**PI 616075. *Gossypium arboreum* L.**  
"AC 3570".

Unknown source. Received 2001.

**PI 616076. *Gossypium arboreum* L.**  
"AC 3009".

Unknown source. Received 2001.

**PI 616077. *Gossypium arboreum* L.**  
"AC 3161".

Unknown source. Received 2001.

**PI 616078. *Gossypium arboreum* L.**  
"AC 3166".

Unknown source. Received 2001.

**PI 616079. *Gossypium arboreum* L.**  
"AC 3173".

Unknown source. Received 2001.

**PI 616080. *Gossypium arboreum* L.**  
"AC 3620".

Unknown source. Received 2001.

**PI 616081. *Gossypium arboreum* L.**  
"AC 3120".

Unknown source. Received 2001.

**PI 616082. *Gossypium arboreum* L.**  
"AC 3181".

Unknown source. Received 2001.

**PI 616083. *Gossypium arboreum* L.**  
"AC 3232".

Unknown source. Received 2001.

**PI 616084. *Gossypium arboreum* L.**  
"AC 3645".

Unknown source. Received 2001.

**PI 616085. *Gossypium arboreum* L.**  
"AC 3256 A".

Unknown source. Received 2001.

**PI 616086. *Gossypium arboreum* L.**  
"AC 3640".

Unknown source. Received 2001.

**PI 616087. *Gossypium arboreum* L.**  
"AC 3108".

Unknown source. Received 2001.

**PI 616088. *Gossypium arboreum* L.**  
"AC 3664".

Unknown source. Received 2001.

**PI 616089. *Gossypium arboreum* L.**  
"AC 3389".

Unknown source. Received 2001.

**PI 616090. *Gossypium arboreum* L.**  
"AC 3682".

Unknown source. Received 2001.

**PI 616091. *Gossypium arboreum* L.**  
"AC 3305".

Unknown source. Received 2001.

**PI 616092. *Gossypium arboreum* L.**  
"AC 3506".

Unknown source. Received 2001.

**PI 616093. *Gossypium arboreum* L.**  
"AC 3002".

Unknown source. Received 2001.

**PI 616094. *Gossypium arboreum* L.**  
"AC 3248".

Unknown source. Received 2001.

**PI 616095. *Gossypium arboreum* L.**  
"AC 3666".

Unknown source. Received 2001.

**PI 616096. *Gossypium arboreum* L.**  
"AC 3505".

Unknown source. Received 2001.

**PI 616097. *Gossypium arboreum* L.**  
"AC 3150".

Unknown source. Received 2001.

**PI 616098. *Gossypium arboreum* L.**  
"AC 3569".

Unknown source. Received 2001.

**PI 616099. *Gossypium arboreum* L.**  
"AC 3111".

Unknown source. Received 2001.

**PI 616100. *Gossypium arboreum* L.**  
"AC 3203".

Unknown source. Received 2001.

**PI 616101. *Gossypium arboreum* L.**  
"AC 3071".

Unknown source. Received 2001.

**PI 616102. *Gossypium arboreum* L.**  
"AC 3175".

Unknown source. Received 2001.

**PI 616103. *Gossypium arboreum* L.**  
"AC 3149".

Unknown source. Received 2001.

**PI 616104. *Gossypium arboreum* L.**  
"AC 3665".

Unknown source. Received 2001.

**PI 616105. *Gossypium arboreum* L.**  
"AC 3530".

Unknown source. Received 2001.

**PI 616106. *Gossypium arboreum* L.**  
"AC 3397".

Unknown source. Received 2001.

**PI 616107. *Gossypium arboreum* L.**  
"AC 3556".

Unknown source. Received 2001.

**PI 616108. *Gossypium arboreum* L.**  
"AC 3121".

Unknown source. Received 2001.

**PI 616109. *Gossypium arboreum* L.**  
"AC 3206".

Unknown source. Received 2001.

**PI 616110. *Gossypium arboreum* L.**  
"AC 3685".

Unknown source. Received 2001.

**PI 616111. *Gossypium arboreum* L.**  
"AC 3001".

Unknown source. Received 2001.

**PI 616112. *Gossypium arboreum* L.**  
"AC 3323".

Unknown source. Received 2001.

**PI 616113. *Gossypium arboreum* L.**  
"AC 3381".

Unknown source. Received 2001.

**PI 616114. *Gossypium arboreum* L.**  
"AC 3281".

Unknown source. Received 2001.

**PI 616115. *Gossypium arboreum* L.**  
"AC 3318".

Unknown source. Received 2001.

**PI 616116. *Gossypium arboreum* L.**  
"AC 3122".

Unknown source. Received 2001.

**PI 616117. *Gossypium arboreum* L.**  
"AC 3373".

Unknown source. Received 2001.

**PI 616118. *Gossypium arboreum* L.**  
"AC 3694".

Unknown source. Received 2001.

**PI 616119. *Gossypium arboreum* L.**  
"AC 3231".

Unknown source. Received 2001.

**PI 616120. *Gossypium arboreum* L.**  
"AC 3447".

Unknown source. Received 2001.

**PI 616121. *Gossypium arboreum* L.**  
"AC 3077".

Unknown source. Received 2001.

**PI 616122. *Gossypium arboreum* L.**  
"AC 3637".

Unknown source. Received 2001.

**PI 616123. *Gossypium arboreum* L.**  
"AC 3236".

Unknown source. Received 2001.

**PI 616124. *Gossypium arboreum* L.**  
"AC 3123".

Unknown source. Received 2001.

**PI 616125. *Gossypium arboreum* L.**  
"AC 3655".

Unknown source. Received 2001.

**PI 616126. *Gossypium arboreum* L.**  
"AC 3672".

Unknown source. Received 2001.

**PI 616127. *Gossypium arboreum* L.**  
"AC 3260".

Unknown source. Received 2001.

**PI 616128. *Gossypium arboreum* L.**  
"AC 3375".

Unknown source. Received 2001.

**PI 616129. *Gossypium arboreum* L.**  
"AC 3544".

Unknown source. Received 2001.

**PI 616130. *Gossypium arboreum* L.**  
AC 3345.

Unknown source. Received 2001.

**PI 616131. *Gossypium arboreum* L.**  
AC 3242.

Unknown source. Received 2001.

**PI 616132. *Gossypium arboreum* L.**  
AC 3205.

Unknown source. Received 2001.

**PI 616133. *Gossypium arboreum* L.**  
AC 3064.

Unknown source. Received 2001.

**PI 616134. *Gossypium arboreum* L.**  
AC 3586.

Unknown source. Received 2001.

**PI 616135. *Gossypium arboreum* L.**  
AC 3650.

Unknown source. Received 2001.

**PI 616136. *Gossypium arboreum* L.**  
"AC 3674".

Unknown source. Received 2001.

**PI 616137. *Gossypium arboreum* L.**  
AC 3560.

Unknown source. Received 2001.

**PI 616138. *Gossypium arboreum* L.**  
AC 3101.

Unknown source. Received 2001.

**PI 616139. *Gossypium arboreum* L.**  
AC 3158.

Unknown source. Received 2001.

**PI 616140. *Gossypium arboreum* L.**  
AC 3522 A.

Unknown source. Received 2001.

**PI 616141. *Gossypium arboreum* L.**  
AC 3126.

Unknown source. Received 2001.

**PI 616142. *Gossypium arboreum* L.**  
AC 3692.

Unknown source. Received 2001.

**PI 616143. *Gossypium arboreum* L.**  
AC 3313.

Unknown source. Received 2001.

**PI 616144. *Gossypium arboreum* L.**  
AC 3043.

Unknown source. Received 2001.

**PI 616145. *Gossypium arboreum* L.**  
AC 3060.

Unknown source. Received 2001.

**PI 616146. *Gossypium arboreum* L.**  
AC 3157.

Unknown source. Received 2001.

**PI 616147. *Gossypium arboreum* L.**  
AC 3153 B.

Unknown source. Received 2001.

**PI 616148. *Gossypium arboreum* L.**  
AC 3571.

Unknown source. Received 2001.

**PI 616149. *Gossypium arboreum* L.**  
AC 3668.

Unknown source. Received 2001.

**PI 616150. *Gossypium arboreum* L.**  
AC 3240.

Unknown source. Received 2001.

**PI 616151. *Gossypium arboreum* L.**  
AC 3204.

Unknown source. Received 2001.

**PI 616152. *Gossypium arboreum* L.**  
AC 3671.

Unknown source. Received 2001.

**PI 616153. *Gossypium arboreum* L.**  
AC 3536.

Unknown source. Received 2001.

**PI 616154. *Gossypium arboreum* L.**  
AC 3270.

Unknown source. Received 2001.

**PI 616155. *Gossypium arboreum* L.**  
AC 3261.

Unknown source. Received 2001.

**PI 616156. *Gossypium arboreum* L.**  
AC 3683.

Unknown source. Received 2001.

**PI 616157. *Gossypium arboreum* L.**  
AC 3709.

Unknown source. Received 2001.

**PI 616158. *Gossypium arboreum* L.**  
AC 3267.

Unknown source. Received 2001.

**PI 616159. *Gossypium arboreum* L.**  
AC 3647.

Unknown source. Received 2001.

**PI 616160. *Gossypium arboreum* L.**  
AC 3510.

Unknown source. Received 2001.

**PI 616161. *Gossypium arboreum* L.**  
AC 3400.

Unknown source. Received 2001.

**PI 616162. *Gossypium arboreum* L.**  
AC 3062.

Unknown source. Received 2001.

**PI 616163. *Gossypium arboreum* L.**  
AC 3052.

Unknown source. Received 2001.

**PI 616164. *Gossypium arboreum* L.**  
AC 3073.

Unknown source. Received 2001.

**PI 616165. *Gossypium arboreum* L.**  
AC 3494.

Unknown source. Received 2001.

**PI 616166. *Gossypium arboreum* L.**  
AC 3086.

Unknown source. Received 2001.

**PI 616167. *Gossypium arboreum* L.**  
AC 3041.

Unknown source. Received 2001.

**PI 616168. *Gossypium arboreum* L.**  
AC 3082.

Unknown source. Received 2001.

**PI 616169. *Gossypium arboreum* L.**  
AC 3440 A.

Unknown source. Received 2001.

**PI 616170. *Gossypium arboreum* L.**  
AC 3132.

Unknown source. Received 2001.

**PI 616171. *Gossypium arboreum* L.**  
AC 3075.

Unknown source. Received 2001.

**PI 616172. *Gossypium arboreum* L.**  
AC 3725.

Unknown source. Received 2001.

**PI 616173. *Gossypium arboreum* L.**  
AC 3187.

Unknown source. Received 2001.

**PI 616174. *Gossypium arboreum* L.**  
AC 3276.

Unknown source. Received 2001.

**PI 616175. *Gossypium arboreum* L.**  
AC 3328.

Unknown source. Received 2001.

**PI 616176. *Gossypium arboreum* L.**  
AC 3169.

Unknown source. Received 2001.

**PI 616177. *Gossypium arboreum* L.**  
AC 3054.

Unknown source. Received 2001.

**PI 616178. *Gossypium arboreum* L.**  
AC 3455.

Unknown source. Received 2001.

**PI 616179. *Gossypium arboreum* L.**  
AC 3080.

Unknown source. Received 2001.

**PI 616180. *Gossypium arboreum* L.**  
AC 3546.

Unknown source. Received 2001.

**PI 616181. *Gossypium arboreum* L.**  
AC 3656.

Unknown source. Received 2001.

**PI 616182. *Gossypium arboreum* L.**  
AC 3192.

Unknown source. Received 2001.

**PI 616183. *Gossypium arboreum* L.**  
AC 3337.

Unknown source. Received 2001.

**PI 616184. *Gossypium arboreum* L.**  
AC 3005.

Unknown source. Received 2001.

**PI 616185. *Gossypium arboreum* L.**  
AC 3262.

Unknown source. Received 2001.

**PI 616186. *Gossypium arboreum* L.**  
AC 3405.

Unknown source. Received 2001.

**PI 616187. *Gossypium arboreum* L.**  
AC 3103.

Unknown source. Received 2001.

**PI 616188. *Gossypium arboreum* L.**  
AC 3654.

Unknown source. Received 2001.

**PI 616189. *Gossypium arboreum* L.**  
AC 3033.

Unknown source. Received 2001.

**PI 616190. *Gossypium arboreum* L.**  
AC 3710.

Unknown source. Received 2001.

**PI 616191. *Gossypium arboreum* L.**  
AC 3341.

Unknown source. Received 2001.

**PI 616192. *Gossypium arboreum* L.**  
AC 3708.

Unknown source. Received 2001.

**PI 616193. *Gossypium arboreum* L.**  
AC 3428.

Unknown source. Received 2001.

**PI 616194. *Gossypium arboreum* L.**  
AC 3183.

Unknown source. Received 2001.

**PI 616195. *Gossypium arboreum* L.**  
AC 3429.

Unknown source. Received 2001.

**PI 616196. *Gossypium arboreum* L.**  
AC 3499.

Unknown source. Received 2001.

**PI 616197. *Gossypium arboreum* L.**  
AC 3172.

Unknown source. Received 2001.

**PI 616198. *Gossypium arboreum* L.**  
AC 3727.

Unknown source. Received 2001.

**PI 616199. *Gossypium arboreum* L.**  
AC 3651.

Unknown source. Received 2001.

**PI 616200. *Gossypium arboreum* L.**  
AC 3201.

Unknown source. Received 2001.

**PI 616201. *Gossypium arboreum* L.**  
AC 3474.

Unknown source. Received 2001.

**PI 616202. *Gossypium arboreum* L.**  
AC 3257.

Unknown source. Received 2001.

**PI 616203. *Gossypium arboreum* L.**  
AC 3443.

Unknown source. Received 2001.

**PI 616204. *Gossypium arboreum* L.**  
AC 3018.

Unknown source. Received 2001.

**PI 616205. *Gossypium arboreum* L.**  
AC 3349.

Unknown source. Received 2001.

**PI 616206. *Gossypium arboreum* L.**  
AC 3404.

Unknown source. Received 2001.

**PI 616207. *Gossypium arboreum* L.**  
AC 3488.

Unknown source. Received 2001.

**PI 616208. *Gossypium arboreum* L.**  
AC 3584.

Unknown source. Received 2001.

**PI 616209. *Gossypium arboreum* L.**  
AC 3539.

Unknown source. Received 2001.

**PI 616210. *Gossypium arboreum* L.**  
AC 3554.

Unknown source. Received 2001.

**PI 616211. *Gossypium arboreum* L.**  
AC 3317.

Unknown source. Received 2001.

**PI 616212. *Gossypium arboreum* L.**  
AC 3385.

Unknown source. Received 2001.

**PI 616213. *Gossypium arboreum* L.**  
AC 3326.

Unknown source. Received 2001.

**PI 616214. *Gossypium arboreum* L.**  
AC 3014.

Unknown source. Received 2001.

**PI 616215. *Gossypium arboreum* L.**  
AC 3390.

Unknown source. Received 2001.

**PI 616216. *Gossypium arboreum* L.**  
AC 3277.

Unknown source. Received 2001.

**PI 616217. *Gossypium arboreum* L.**  
AC 3541.

Unknown source. Received 2001.

**PI 616218. *Gossypium arboreum* L.**  
AC 3643.

Unknown source. Received 2001.

**PI 616219. *Gossypium arboreum* L.**  
AC 3202.

Unknown source. Received 2001.

**PI 616220. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 616221. *Gossypium arboreum* L.**  
AC 3152.

Unknown source. Received 2001.

**PI 616222. *Gossypium arboreum* L.**  
AC 3668.

Unknown source. Received 2001.

**PI 616223. *Gossypium arboreum* L.**  
AC 3294.

Unknown source. Received 2001.

**PI 616224. *Gossypium arboreum* L.**  
AC 3613.

Unknown source. Received 2001.

**PI 616225. *Gossypium arboreum* L.**  
AC 3412 A.

Unknown source. Received 2001.

**PI 616226. *Gossypium arboreum* L.**  
AC 3065.

Unknown source. Received 2001.

**PI 616227. *Gossypium arboreum* L.**  
AC 3744.

Unknown source. Received 2001.

**PI 616228. *Gossypium arboreum* L.**  
AC 3044.

Unknown source. Received 2001.

**PI 616229. *Gossypium arboreum* L.**  
AC 3093.

Unknown source. Received 2001.

**PI 616230. *Gossypium arboreum* L.**  
AC 3463.

Unknown source. Received 2001.

**PI 616231. *Gossypium arboreum* L.**  
AC 3573.

Unknown source. Received 2001.

**PI 616232. *Gossypium arboreum* L.**  
AC 3568.

Unknown source. Received 2001.

**PI 616233. *Gossypium arboreum* L.**  
AC 3364.

Unknown source. Received 2001.

**PI 616234. *Gossypium arboreum* L.**  
AC 3496.

Unknown source. Received 2001.

**PI 616235. *Gossypium arboreum* L.**  
AC 3632.

Unknown source. Received 2001.

**PI 616236. *Gossypium arboreum* L.**  
AC 3673.

Unknown source. Received 2001.

**PI 616237. *Gossypium arboreum* L.**  
AC 3600.

Unknown source. Received 2001.

**PI 616238. *Gossypium arboreum* L.**  
AC 3718.

Unknown source. Received 2001.

**PI 616239. *Gossypium arboreum* L.**  
AC 3148.

Unknown source. Received 2001.

**PI 616240. *Gossypium arboreum* L.**  
AC 3230.

Unknown source. Received 2001.

**PI 616241. *Gossypium arboreum* L.**  
AC 3603.

Unknown source. Received 2001.

**PI 616242. *Gossypium arboreum* L.**

Unknown source. Received 2001.

**PI 616243. *Gossypium arboreum* L.**  
AC 3508.

Unknown source. Received 2001.

**PI 616244. *Gossypium arboreum* L.**  
AC 3601.

Unknown source. Received 2001.

**PI 616245. *Gossypium arboreum* L.**  
AC 3464.

Unknown source. Received 2000.

**PI 616246. *Gossypium arboreum* L.**  
AC 3162.

Unknown source. Received 2001.

**PI 616247. *Gossypium arboreum* L.**  
AC 3730.

Unknown source. Received 2001.

**PI 616248. *Gossypium arboreum* L.**  
AC 3476.

Unknown source. Received 2001.

**PI 616249. *Gossypium arboreum* L.**  
AC 3740.

Unknown source. Received 2001.

**PI 616250. *Gossypium arboreum* L.**  
AC 3074.

Unknown source. Received 2001.

**PI 616251. *Gossypium arboreum* L.**  
AC 3198.

Unknown source. Received 2001.

**PI 616252. *Gossypium arboreum* L.**  
AC 3347.

Unknown source. Received 2001.

**PI 616253. *Gossypium arboreum* L.**  
0266.

Unknown source. Received 2001.

**PI 616254. *Gossypium arboreum* L.**  
0407.

Unknown source. Received 2001.

**PI 616255. *Gossypium arboreum* L.**  
0409.

Unknown source. Received 2001.

**PI 616256. *Gossypium arboreum* L.**  
AC 3609.

Unknown source. Received 2001.

**PI 616257. *Gossypium arboreum* L.**  
AC 3048.

Unknown source. Received 2001.

**PI 616258. *Gossypium arboreum* L.**  
AC 3485.

Unknown source. Received 2001.

**PI 616259. *Gossypium arboreum* L.**  
AC 3669.

Unknown source. Received 2001.

**PI 616260. *Gossypium arboreum* L.**  
AC 3418.

Unknown source. Received 2001.

**PI 616261. *Gossypium arboreum* L.**  
AC 3330.

Unknown source. Received 2001.

**PI 616262. *Gossypium arboreum* L.**  
AC 3553.

Unknown source. Received 2001.

**PI 616263. *Gossypium arboreum* L.**  
AC 3059.

Unknown source. Received 2001.

**PI 616264. *Gossypium arboreum* L.**  
AC 3219.

Unknown source. Received 2001.

**PI 616265. *Gossypium arboreum* L.**  
AC 3266.

Unknown source. Received 2001.

**PI 616266. *Gossypium arboreum* L.**  
AC 3346.

Unknown source. Received 2001.

**PI 616267. *Gossypium arboreum* L.**  
AC 3439.

Unknown source. Received 2001.

**PI 616268. *Gossypium arboreum* L.**  
AC 3133.

Unknown source. Received 2001.

**PI 616269. *Gossypium arboreum* L.**  
AC 3334.

Unknown source. Received 2001.

**PI 616270. *Gossypium arboreum* L.**  
AC 3222.

Unknown source. Received 2001.

**PI 616271. *Gossypium arboreum* L.**  
AC 3058.

Unknown source. Received 2001.

**PI 616272. *Gossypium arboreum* L.**  
AC 3076.

Unknown source. Received 2001.

**PI 616273. *Gossypium arboreum* L.**  
AC 3392.

Unknown source. Received 2001.

**PI 616274. *Gossypium arboreum* L.**  
AC 3636.

Unknown source. Received 2001.

**PI 616275. *Gossypium arboreum* L.**  
AC 3053.

Unknown source. Received 2001.

**PI 616276. *Gossypium arboreum* L.**  
AC 3603.

Unknown source. Received 2001.

**PI 616277. *Gossypium arboreum* L.**  
AC 3061.

Unknown source. Received 2001.

**PI 616278. *Gossypium arboreum* L.**  
AC 3588.

Unknown source. Received 2001.

**PI 616279. *Gossypium arboreum* L.**  
AC 3301.

Unknown source. Received 2001.

**PI 616280. *Gossypium arboreum* L.**  
AC 3441 B.

Unknown source. Received 2001.

**PI 616281. *Gossypium arboreum* L.**  
AC 3732.

Unknown source. Received 2001.

**PI 616282. *Gossypium arboreum* L.**  
AC 3013.

Unknown source. Received 2001.

**PI 616283. *Gossypium arboreum* L.**  
AC 3122.

Unknown source. Received 2001.

**PI 616284. *Gossypium arboreum* L.**  
AC 3703.

Unknown source. Received 2001.

**PI 616285. *Gossypium arboreum* L.**  
AC 3129.

Unknown source. Received 2001.

**PI 616286. *Gossypium arboreum* L.**  
AC 3040.

Unknown source. Received 2001.

**PI 616287. *Gossypium arboreum* L.**  
AC 3214.

Unknown source. Received 2001.

**PI 616288. *Gossypium arboreum* L.**  
AC 3115.

Unknown source. Received 2001.

**PI 616289. *Gossypium arboreum* L.**  
AC 3492.

Unknown source. Received 2001.

**PI 616290. *Gossypium arboreum* L.**  
AC 3118.

Unknown source. Received 2001.

**PI 616291. *Gossypium arboreum* L.**  
AC 3221.

Unknown source. Received 2001.

**PI 616292. *Gossypium arboreum* L.**  
AC 3036.

Unknown source. Received 2001.

**PI 616293. *Gossypium arboreum* L.**  
AC 3207.

Unknown source. Received 2001.

**PI 616294. *Gossypium arboreum* L.**  
AC 3254.

Unknown source. Received 2001.

**PI 616295. *Gossypium arboreum* L.**  
AC 3398.

Unknown source. Received 2001.

**PI 616296. *Gossypium arboreum* L.**  
AC 3469.

Unknown source. Received 2001.

**PI 616297. *Gossypium arboreum* L.**  
AC 3551.

Unknown source. Received 2001.

**PI 616298. *Gossypium arboreum* L.**  
AC 3031.

Unknown source. Received 2001.

**PI 616299. *Gossypium arboreum* L.**  
AC 3639.

Unknown source. Received 2001.

**PI 616300. *Gossypium arboreum* L.**  
AC 3500.

Unknown source. Received 2001.

**PI 616301. *Gossypium arboreum* L.**  
AC 3403.

Unknown source. Received 2001.

**PI 616302. *Gossypium arboreum* L.**  
AC 3369.

Unknown source. Received 2001.

**PI 616303. *Gossypium arboreum* L.**  
"NLRF".

Unknown source. Received 2001.

**PI 616304. *Gossypium arboreum* L.**  
"V. MOLLISONI".

Unknown source. Received 2001.

**PI 616305. *Gossypium arboreum* L.**  
WIR-822.

Unknown source. Received 2001.

**PI 616306. *Gossypium arboreum* L.**  
"MUNGARI-274".

Unknown source. Received 2001.

**PI 616307. *Gossypium arboreum* L.**  
AC 3736 A.

Unknown source. Received 2001.

**PI 616308. *Gossypium arboreum* L.**  
AC 3134.

Unknown source. Received 2001.

**PI 616309. *Gossypium arboreum* L.**  
AC 3333.

Unknown source. Received 2001.

**PI 616310. *Gossypium arboreum* L.**  
"NA 39".

Unknown source. Received 2001.

**PI 616311. *Gossypium arboreum* L.**  
RUSSIAN NO. 2211.

Unknown source. Received 2001.

**PI 616312. *Gossypium arboreum* L.**  
RUSSIAN NO. 3270.

Unknown source. Received 2001.

**PI 616313. *Gossypium arboreum* L.**  
RUSSIAN NO. 3679.

Unknown source. Received 2001.

**PI 616314. *Gossypium arboreum* L.**  
RUSSIAN NO. 3686.

Unknown source. Received 2001.

**PI 616315. *Gossypium arboreum* L.**  
RUSSIAN NO. 3710.

Unknown source. Received 2001.

**PI 616316. *Gossypium arboreum* L.**  
RUSSIAN NO. 3712.

Unknown source. Received 2001.

**PI 616317. *Gossypium arboreum* L.**  
RUSSIAN NO. 4344.

Unknown source. Received 2001.

**PI 616318. *Gossypium arboreum* L.**  
RUSSIAN NO. 4731.

Unknown source. Received 2001.

**PI 616319. *Gossypium arboreum* L.**  
RUSSIAN NO. 5244.

Unknown source. Received 2001.

**PI 616320. *Gossypium arboreum* L.**  
RUSSIAN NO. 6123.

Unknown source. Received 2001.

**PI 616321. *Gossypium arboreum* L.**  
RUSSIAN NO. 6124.

Unknown source. Received 2001.

**PI 616322. *Gossypium arboreum* L.**  
RUSSIAN NO. 6412.

Unknown source. Received 2001.

**PI 616323. *Gossypium arboreum* L.**  
RUSSIAN NO. 6682.

Unknown source. Received 2001.

**PI 616324. *Gossypium arboreum* L.**  
RUSSIAN NO. 6680.

Unknown source. Received 2001.

**PI 616325. *Gossypium arboreum* L.**  
RUSSIAN NO. 6698.

Unknown source. Received 2001.

**PI 616326. *Gossypium arboreum* L.**  
RUSSIAN NO. 6700.

Unknown source. Received 2001.

**PI 616327. *Gossypium arboreum* L.**  
RUSSIAN NO. 6701.

Unknown source. Received 2001.

**PI 616328. *Gossypium arboreum* L.**  
RUSSIAN NO. 7004.

Unknown source. Received 2001.

**PI 616329. *Gossypium arboreum* L.**  
VIR NO. 1259.

Unknown source. Received 2001.

**PI 616330. *Gossypium arboreum* L.**  
C-2287.

Unknown source. Received 2001.

**PI 616331. *Gossypium arboreum* L.**  
6502 BLL.

Unknown source. Received 2001.

**PI 616332. *Gossypium arboreum* L.**  
6502 NLL.

Unknown source. Received 2001.

**PI 616333. *Gossypium arboreum* L.**  
6529.

Unknown source. Received 2001.

**PI 616334. *Gossypium arboreum* L.**  
6540.

Unknown source. Received 2001.

**PI 616335. *Gossypium arboreum* L.**  
6543.

Unknown source. Received 2001.

**PI 616336. *Gossypium arboreum* L.**  
6544.

Unknown source. Received 2001.

**PI 616337. *Gossypium arboreum* L.**  
6545.

Unknown source. Received 2001.

**PI 616338. *Gossypium arboreum* L.**  
6556 BLL.

Unknown source. Received 2001.

**PI 616339. *Gossypium arboreum* L.**  
6556 MLL.

Unknown source. Received 2001.

**PI 616340. *Gossypium arboreum* L.**  
6565 BLL.

Unknown source. Received 2001.

**PI 616341. *Gossypium arboreum* L.**  
6565 MLL.

Unknown source. Received 2001.

**PI 616342. *Gossypium arboreum* L.**  
6572.

Unknown source. Received 2001.

**PI 616343. *Gossypium arboreum* L.**  
6579.

Unknown source. Received 2001.

**PI 616344. *Gossypium arboreum* L.**  
6580 BLL.

Unknown source. Received 2001.

**PI 616345. *Gossypium arboreum* L.**  
6580 MLL.

Unknown source. Received 2001.

**PI 616346. *Gossypium arboreum* L.**  
6584 BLL.

Unknown source. Received 2001.

**PI 616347. *Gossypium arboreum* L.**  
6584 MLL.

Unknown source. Received 2001.

**PI 616348. *Gossypium arboreum* L.**  
6585.

Unknown source. Received 2001.

**PI 616349. *Gossypium arboreum* L.**  
6589.

Unknown source. Received 2001.

**PI 616350. *Gossypium arboreum* L.**  
6601.

Unknown source. Received 2001.

**PI 616351. *Gossypium arboreum* L.**  
6604.

Unknown source. Received 2001.

**PI 616352. *Gossypium arboreum* L.**  
6611.

Unknown source. Received 2001.

**PI 616353. *Gossypium arboreum* L.**  
6617.

Unknown source. Received 2001.

**PI 616354. *Gossypium arboreum* L.**  
6617 NLL.

Unknown source. Received 2001.

**PI 616355. *Gossypium arboreum* L.**  
6629.

Unknown source. Received 2001.

**PI 616356. *Gossypium arboreum* L.**  
6631 BLL.

Unknown source. Received 2001.

**PI 616357. *Gossypium arboreum* L.**  
6631 MLL.

Unknown source. Received 2001.

**PI 616358. *Gossypium arboreum* L.**  
6651 BROWN KAPAS.

Unknown source. Received 2001.

**PI 616359. *Gossypium arboreum* L.**  
6651 WHITE KAPAS.

Unknown source. Received 2001.

**PI 616360. *Gossypium arboreum* L.**  
6659.

Unknown source. Received 2001.

**PI 616361. *Gossypium arboreum* L.**  
6663.

Unknown source. Received 2001.

**PI 616362. *Gossypium arboreum* L.**  
6670.

Unknown source. Received 2001.

**PI 616363. *Gossypium arboreum* L.**  
6671 L.

Unknown source. Received 2001.

**PI 616364. *Gossypium arboreum* L.**  
6671 W.

Unknown source. Received 2001.

**PI 616365. *Gossypium arboreum* L.**  
6674.

Unknown source. Received 2001.

**PI 616366. *Gossypium arboreum* L.**  
6687 BLL.

Unknown source. Received 2001.

**PI 616367. *Gossypium arboreum* L.**  
6687 MLL.

Unknown source. Received 2001.

**PI 616368. *Gossypium arboreum* L.**  
6687 NLL.

Unknown source. Received 2001.

**PI 616369. *Gossypium arboreum* L.**  
6696.

Unknown source. Received 2001.

**PI 616370. *Gossypium arboreum* L.**  
6698.

Unknown source. Received 2001.

**PI 616371. *Gossypium arboreum* L.**  
6699 BLL.

Unknown source. Received 2001.

**PI 616372. *Gossypium arboreum* L.**  
6699 MLL.

Unknown source. Received 2001.

**PI 616373. *Gossypium arboreum* L.**  
6701.

Unknown source. Received 2001.

**PI 616374. *Gossypium arboreum* L.**  
6702.

Unknown source. Received 2001.

**PI 616375. *Gossypium arboreum* L.**  
6705.

Unknown source. Received 2001.

**PI 616376. *Gossypium arboreum* L.**  
6706.

Unknown source. Received 2001.

**PI 616377. *Gossypium arboreum* L.**  
6711 BLL.

Unknown source. Received 2001.

**PI 616378. *Gossypium arboreum* L.**  
6711 NLL.

Unknown source. Received 2001.

**PI 616379. *Gossypium arboreum* L.**  
6714.

Unknown source. Received 2001.

**PI 616380. *Gossypium arboreum* L.**  
6716 BLL.

Unknown source. Received 2001.

**PI 616381. *Gossypium arboreum* L.**  
6716 NLL.

Unknown source. Received 2001.

**PI 616382. *Gossypium arboreum* L.**  
6717 BLL.

Unknown source. Received 2001.

**PI 616383. *Gossypium arboreum* L.**  
6717 MLL.

Unknown source. Received 2001.

**PI 616384. *Gossypium arboreum* L.**  
6721 MLL.

Unknown source. Received 2001.

**PI 616385. *Gossypium arboreum* L.**  
6721 NLL.

Unknown source. Received 2001.

**PI 616386. *Gossypium arboreum* L.**  
6729.

Unknown source. Received 2001.

**PI 616387. *Gossypium arboreum* L.**  
6736.

Unknown source. Received 2001.

**PI 616388. *Gossypium arboreum* L.**  
6738.

Unknown source. Received 2001.

**PI 616389. *Gossypium arboreum* L.**  
6739.

Unknown source. Received 2001.

**PI 616390. *Gossypium arboreum* L.**  
6752.

Unknown source. Received 2001.

**PI 616391. *Gossypium arboreum* L.**  
6760 BLL.

Unknown source. Received 2001.

**PI 616392. *Gossypium arboreum* L.**  
6760 NLL.

Unknown source. Received 2001.

**PI 616393. *Gossypium arboreum* L.**  
6763 MLL.

Unknown source. Received 2001.

**PI 616394. *Gossypium arboreum* L.**  
6763 NLL.

Unknown source. Received 2001.

**PI 616395. *Gossypium arboreum* L.**  
6765 BLL.

Unknown source. Received 2001.

**PI 616396. *Gossypium arboreum* L.**  
6769.

Unknown source. Received 2001.

**PI 616397. *Gossypium arboreum* L.**  
6771.

Unknown source. Received 2001.

**PI 616398. *Gossypium arboreum* L.**  
6773.

Unknown source. Received 2001.

**PI 616399. *Gossypium arboreum* L.**  
6776.

Unknown source. Received 2001.

**PI 616400. *Gossypium arboreum* L.**  
6780.

Unknown source. Received 2001.

**PI 616401. *Gossypium arboreum* L.**  
6789.

Unknown source. Received 2001.

**PI 616402. *Gossypium arboreum* L.**  
6790 BLL.

Unknown source. Received 2001.

**PI 616403. *Gossypium arboreum* L.**  
6790 MLL.

Unknown source. Received 2001.

**PI 616404. *Gossypium arboreum* L.**  
6791 BLL.

Unknown source. Received 2001.

**PI 616405. *Gossypium arboreum* L.**  
6791 NLL.

Unknown source. Received 2001.

**PI 616406. *Gossypium arboreum* L.**  
6792.

Unknown source. Received 2001.

**PI 616407. *Gossypium arboreum* L.**  
6799.

Unknown source. Received 2001.

**PI 616408. *Gossypium arboreum* L.**  
6800.

Unknown source. Received 2001.

**PI 616409. *Gossypium arboreum* L.**  
6801.

Unknown source. Received 2001.

**PI 616410. *Gossypium arboreum* L.**  
6803.

Unknown source. Received 2001.

**PI 616411. *Gossypium arboreum* L.**  
6807.

Unknown source. Received 2001.

**PI 616412. *Gossypium arboreum* L.**  
6807 MLL.

Unknown source. Received 2001.

**PI 616413. *Gossypium arboreum* L.**  
6807 NLL.

Unknown source. Received 2001.

**PI 616414. *Gossypium arboreum* L.**  
6810.

Unknown source. Received 2001.

**PI 616415. *Gossypium arboreum* L.**  
6812.

Unknown source. Received 2001.

**PI 616416. *Gossypium arboreum* L.**  
6814.

Unknown source. Received 2001.

**PI 616417. *Gossypium arboreum* L.**  
6816.

Unknown source. Received 2001.

**PI 616418. *Gossypium arboreum* L.**  
6818.

Unknown source. Received 2001.

**PI 616419. *Gossypium arboreum* L.**  
6823.

Unknown source. Received 2001.

**PI 616420. *Gossypium arboreum* L.**  
6824.

Unknown source. Received 2001.

**PI 616421. *Gossypium arboreum* L.**  
6827.

Unknown source. Received 2001.

**PI 616422. *Gossypium arboreum* L.**  
6829 BLL.

Unknown source. Received 2001.

**PI 616423. *Gossypium arboreum* L.**  
6829 MLL.

Unknown source. Received 2001.

**PI 616424. *Gossypium arboreum* L.**  
6830.

Unknown source. Received 2001.

**PI 616425. *Gossypium arboreum* L.**  
6840.

Unknown source. Received 2001.

**PI 616426. *Gossypium arboreum* L.**  
6844.

Unknown source. Received 2001.

**PI 616427. *Gossypium arboreum* L.**  
6847.

Unknown source. Received 2001.

**PI 616428. *Gossypium arboreum* L.**  
6848.

Unknown source. Received 2001.

**PI 616429. *Gossypium arboreum* L.**  
6852 BLL.

Unknown source. Received 2001.

**PI 616430. *Gossypium arboreum* L.**  
6852 MLL.

Unknown source. Received 2001.

**PI 616431. *Gossypium arboreum* L.**  
6853 BLL.

Unknown source. Received 2001.

**PI 616432. *Gossypium arboreum* L.**  
6853 MLL.

Unknown source. Received 2001.

**PI 616433. *Gossypium arboreum* L.**  
6869.

Unknown source. Received 2001.

**PI 616434. *Gossypium arboreum* L.**  
6869 BLL.

Unknown source. Received 2001.

**PI 616435. *Gossypium arboreum* L.**  
6871.

Unknown source. Received 2001.

**PI 616436. *Gossypium arboreum* L.**  
6873.

Unknown source. Received 2001.

**PI 616437. *Gossypium arboreum* L.**  
6873 NLL.

Unknown source. Received 2001.

**PI 616438. *Gossypium arboreum* L.**  
6875.

Unknown source. Received 2001.

**PI 616439. *Gossypium arboreum* L.**  
6875 BLL.

Unknown source. Received 2001.

**PI 616440. *Gossypium arboreum* L.**  
6876.

Unknown source. Received 2001.

**PI 616441. *Gossypium arboreum* L.**  
6876 BLL.

Unknown source. Received 2001.

**PI 616442. *Gossypium arboreum* L.**  
6878.

Unknown source. Received 2001.

**PI 616443. *Gossypium arboreum* L.**  
6879.

Unknown source. Received 2001.

**PI 616444. *Gossypium arboreum* L.**  
6883.

Unknown source. Received 2001.

**PI 616445. *Gossypium arboreum* L.**  
6884.

Unknown source. Received 2001.

**PI 616446. *Gossypium arboreum* L.**  
6884 BLL.

Unknown source. Received 2001.

**PI 616447. *Gossypium arboreum* L.**  
6888.

Unknown source. Received 2001.

**PI 616448. *Gossypium arboreum* L.**  
6888 M11.

Unknown source. Received 2001.

**PI 616449. *Gossypium arboreum* L.**  
6892.

Unknown source. Received 2001.

**PI 616450. *Gossypium arboreum* L.**  
6892 NLL.

Unknown source. Received 2001.

**PI 616451. *Gossypium arboreum* L.**  
6896.

Unknown source. Received 2001.

**PI 616452. *Gossypium arboreum* L.**  
6896 NLL-L.

Unknown source. Received 2001.

**PI 616453. *Gossypium arboreum* L.**  
6953.

Unknown source. Received 2001.

**PI 616454. *Gossypium arboreum* L.**  
6954 BLL.

Unknown source. Received 2001.

**PI 616455. *Gossypium arboreum* L.**  
6954 NLL.

Unknown source. Received 2001.

**PI 616456. *Gossypium arboreum* L.**  
6957.

Unknown source. Received 2001.

**PI 616457. *Gossypium arboreum* L.**  
6958.

Unknown source. Received 2001.

**PI 616458. *Gossypium arboreum* L.**  
6959.

Unknown source. Received 2001.

**PI 616459. *Gossypium arboreum* L.**  
6960 L.

Unknown source. Received 2001.

**PI 616460. *Gossypium arboreum* L.**  
6960 W.

Unknown source. Received 2001.

**PI 616461. *Gossypium arboreum* L.**  
6961 L.

Unknown source. Received 2001.

**PI 616462. *Gossypium arboreum* L.**  
6961 W.

Unknown source. Received 2001.

**PI 616463. *Gossypium arboreum* L.**  
6962.

Unknown source. Received 2001.

**PI 616464. *Gossypium arboreum* L.**  
6964.

Unknown source. Received 2001.

**PI 616465. *Gossypium arboreum* L.**  
6965 BLL.

Unknown source. Received 2001.

**PI 616466. *Gossypium arboreum* L.**  
6965 MLL.

Unknown source. Received 2001.

**PI 616467. *Gossypium arboreum* L.**  
6965 W.

Unknown source. Received 2001.

**PI 616468. *Gossypium arboreum* L.**  
6966 BLL.

Unknown source. Received 2001.

**PI 616469. *Gossypium arboreum* L.**  
6966 MLL.

Unknown source. Received 2001.

**PI 616470. *Gossypium arboreum* L.**  
6966 NLL.

Unknown source. Received 2001.

**PI 616471. *Gossypium arboreum* L.**  
6967 NLL.

Unknown source. Received 2001.

**PI 616472. *Gossypium arboreum* L.**  
6968.

Unknown source. Received 2001.

**PI 616473. *Gossypium arboreum* L.**  
6968 BLL.

Unknown source. Received 2001.

**PI 616474. *Gossypium arboreum* L.**  
6969 MLL.

Unknown source. Received 2001.

**PI 616475. *Gossypium arboreum* L.**  
6973 BLL.

Unknown source. Received 2001.

**PI 616476. *Gossypium arboreum* L.**  
6973 MLL.

Unknown source. Received 2001.

**PI 616477. *Gossypium arboreum* L.**  
6974.

Unknown source. Received 2001.

**PI 616478. *Gossypium arboreum* L.**  
6975.

Unknown source. Received 2001.

**PI 616479. *Gossypium arboreum* L.**  
6976 BROWN KAPAS.

Unknown source. Received 2001.

**PI 616480. *Gossypium arboreum* L.**  
6976 WHITE KAPAS.

Unknown source. Received 2001.

**PI 616481. *Gossypium arboreum* L.**  
6978 BLL.

Unknown source. Received 2001.

**PI 616482. *Gossypium arboreum* L.**  
6978 MLL.

Unknown source. Received 2001.

**PI 616483. *Gossypium arboreum* L.**  
6979 BLL.

Unknown source. Received 2001.

**PI 616484. *Gossypium arboreum* L.**  
6979 MLL.

Unknown source. Received 2001.

**PI 616485. *Gossypium arboreum* L.**  
6984 BLL.

Unknown source. Received 2001.

**PI 616486. *Gossypium arboreum* L.**  
6984 NLL.

The following were developed by C. Meijer, B.V., Netherlands. Received 09/12/2001.

**PI 616487 PVPO. *Solanum tuberosum* L.**  
Cultivar. "ACCORD". PVP 9900056.

**PI 616488 PVPO. *Solanum tuberosum* L.**  
Cultivar. "LADY OLYMPIA". PVP 9900057.

The following were developed by NORIKA Nordring-Kartoffelzucht-und, Vermehrungs-GmbH Grob Lusewitz, Germany. Received 09/12/2001.

**PI 616489 PVPO. *Solanum tuberosum* L.**  
Cultivar. "VALISA". PVP 9900118.

**PI 616490 PVPO. *Solanum tuberosum* L.**  
Cultivar. "DELIKAT". PVP 9900120.

The following were developed by Craig F. Morris, USDA-ARS, Western Wheat Quality Lab., E-202 FSHN Facility East, Pullman, Washington 99164-6394, United States; Garrison King, USDA-ARS Western Wheat Quality Lab, E 202 Food Quality Bldg., P.O. Box 646394, Pullman, Washington 99164-6394, United States . Received 09/10/2001.

**PI 616491. *Triticum aestivum* L. subsp. *aestivum***  
Genetic. Pureline. WQL6WTNS; NSGC 8784. GS-149. Pedigree - Selection from Weston. Soft grain near-isogenic line selected from Weston.

**PI 616492. *Triticum aestivum* L. subsp. *aestivum***  
Genetic. Pureline. WQL6WTNH; NSGC 8785. GS-150. Pedigree - Selection from Weston. Hard grain near-isogenic line selected from Weston.

The following were developed by Rick Turley, USDA, ARS, Delta States Research Center, Cotton Phys. & Genetics Res. Center, Stoneville, Mississippi 38776, United States. Received 09/17/2001.

**PI 616493. *Gossypium hirsutum* L.**  
Genetic. MD 17. GS-2. Pedigree - Selection from an F2 population (completely fiberless plant) from a cross between Mississippi Obsolete Variety Collection accession 243 and 143. Lines 243 and 143 expressed the naked seed alleles N1 and n2 respectively. Individual plants were harvested in the F2 and F3. Seed bulked to F4 and F5. Experimental line which is devoid of cottonseed fiber. (No commercial agronomic value). The genetic stock is the result of combining the dominant and recessive naked seed alleles (N1 and n2). This stock is homozygous for petal spot (R1) and has high seed abortion. The line has been used in genetic evaluation and biochemical/cytological studies.

The following were developed by Brady A. Vick, USDA-ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105-5677, United States. Received 09/28/2001.

**PI 616494. *Helianthus annuus* L.**  
Genetic. RS 1. Pedigree - NMS HA89/PI 250542,F2//HA89,F8. Reduced composition of saturated fatty acids in the seed oil, typically 8% or less for C16 to C24 saturated fatty acids. This compares with about 13% saturated fatty acids in the seed oil of most sunflowers. Plants frequently demonstrate bicephalism, with the two heads sometimes

completely separated and sometimes fused. Achenes black and gray striped. 1000 seed weight is 90 grams. Plant height of 98 cm and flowers 69 days after planting.

**PI 616495. *Helianthus annuus* L.**

Genetic. RS 2. Pedigree - NMS HA89/PI 250542, F2//HA89, F8. Reduced composition of saturated fatty acids in the seed oil, typically 8% or less for C16 to C24 saturated fatty acids. Compares with about 13% saturated fatty acids in the seed oil of most sunflowers. Plants frequently demonstrate bicephalism, with the two heads sometimes completely separated and sometimes fused. Achenes light gray and often bleach to white when grown in the field. 1000 seed weight is 89 grams. Plant height of 89 cm and flowers 69 days after planting.

The following were developed by Paul C. St. Amand, Kansas State University, Agronomy Department, 2004 Throckmorton Hall, Manhattan, Kansas 66506-5501, United States. Received 09/05/2001.

**PI 616496. *Medicago sativa* L. subsp. *sativa***

Breeding. KS2000SBS. Pedigree - Synthetic population cross: 50% KS80-13 x 50% KS80-15, then 2 cycles of selection. Resistant to multiple pests and has improved levels of resistance to summer black stem (SBS) incited by the fungus *Cercospora medicaginia*. Appears to be the most resistant population available, possessing moderate levels of resistance. In growth chamber tests. cycle 0 plants possessed high levels of resistance to downy mildew, pea aphid, blue alfalfa aphid, spotted alfalfa aphid and intermediate levels of resistance to bacterial wilt, Fusarium wilt and anthracnose.

**PI 616497. *Medicago sativa* L. subsp. *sativa***

Breeding. KS224Ri50. Pedigree - Synthetic: 50% Riley, 50% KS224-36. By AFLP analysis: 45% Riley, 55% KS224-36. High levels of glandular-trichome pubescence on the seed pods and exhibits a reduction in ovaposition by alfalfa seed chalcids (*Bruchophagus roddi*). Evaluated using standardized tests for multiple pests. Percentages of resistant seedlings were: anthracnose, 50.1%; spotted alfalfa aphid, 33.8%; pea aphid, 7.8%, and potato leafhopper, 2.7%. Tests to evaluate the reaction to alfalfa seed chalcid showed the frequency of pods with exit holes 43% (Riley 62%). These percentages were significantly different at  $P < 0.05$ . A 19% reduction in ovaposition should significantly improve seed production in areas infested with seed chalcids.

The following were developed by James H. Orf, University of Minnesota, Dept. of Agronomy and Plant Genetics, Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55108, United States. Received 04/09/2001.

**PI 616498. *Glycine max* (L.) Merr.**

Cultivar. Pureline. MN1302; SY 109004.

The following were developed by Handelmaatschappij VAN RIJN B.V., Netherlands . Received 04/10/2001.

**PI 616499 PVPO. *Solanum tuberosum* L.**

Cultivar. "SANTANA". PVP 9700240.

The following were developed by D. Boyes. Donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 06/28/1984.

**PI 616500. *Fragaria x ananassa* Duchesne**

Cultivar. "Cambridge Favorite". Pedigree - *F. chiloensis* x Blakemore. IDX. Very good for canning, ships well, early.

The following were developed by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States; John Maas, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by Olivia Broome, USDA/ARS Hort. Res. Inst., BARC-West, Beltsville, Maryland 20705, United States. Received 12/03/1984.

**PI 616501. *Fragaria x ananassa* Duchesne**

Cultivar. "Lester". Pedigree - Raritan x MDUS 3413. Attractive, developed for fresh produce in red stele areas. Superior to Raritan in drought and leaf disease tolerance.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/01/1991.

**PI 616502. *Fragaria virginiana* subsp. *platypetala* (Rydb.) Staudt**

Wild. *F. virginiana* subsp. *platypetala*; Virginia Strawberry. Collected 05/17/1991 in Oregon, United States. Latitude 44 deg. 30' N. Longitude 121 deg. 40' W. Elevation 1000 m. Jefferson Co., 1m N of Camp Sherman, near bank of Metolius. Pedigree - Collected from the wild in Oregon. Collected in open understory of Ponderosa Pine, sandy soil, roots of plant were especially deep.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/25/1991.

**PI 616503. *Fragaria virginiana* Mill. subsp. *virginiana***

Wild. *F. virginiana* subsp. *virginiana*; Virginia Strawberry. Collected 07/22/1991 in Pennsylvania, United States. Latitude 40 deg. 28' 0'' N. Longitude 77 deg. 37' 0'' W. Scotia Barrens, Half Moon Twnshp, 6mi West of State College. Pedigree - Collected from the wild in Pennsylvania.

The following were collected by Margaret M. Stahler, USDA/SCS, Plant Materials Center, 3415 NE Granger, Corvallis, Oregon 97333, United States; James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447

Peoria Road, Corvallis, Oregon 97333-2521, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/25/1991.

**PI 616504. *Fragaria virginiana* Mill. subsp. *virginiana***

Wild. *F. virginiana* subsp. *virginiana*; Virginia Strawberry. Collected 07/23/1991 in Pennsylvania, United States. Latitude 40 deg. 43' 0'' N. Longitude 77 deg. 45' 0'' W. Bear Meadows, halfway down the hill. Pedigree - Collected from the wild in Pennsylvania. Associated with swamp milkweed.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/28/1991.

**PI 616505. *Fragaria iinumae* Makino**

Wild. *F. iinumae*. Collected 08/20/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1960 m. Mt. Tateyama, Tateyama-machi, Nakaniikawa-gun, Toyama Pref. Pedigree - collected from the wild in Japan. Open pollinated but the only *Fragaria* species on the mountain. Fruit 0.8 - 1.0 cm length.

**PI 616506. *Fragaria nipponica* Makino**

Wild. *F. nipponica*. Collected 08/21/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1600 m. Hirayu, Mt. Norikura-dake, Nyukawa-mura, Yoshiki-gun, Gifu. Pedigree - selected from the wild in Japan.

The following were developed by Rudolf Bauer. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 09/06/1991.

**PI 616507. *Fragaria* x *ananassa* Duchesne**

Cultivar. "Spadeka"; Q 28394; BE 3360. . Pedigree - Cross between wild strawberry and garden strawberry. Intermediate sized fruit, aroma full bodied. Fruit suitable for fresh consumption, preserves or freezing. Vigorous.

The following were developed by Ake Truedsson, Hans-Pers vag 2, S-230 43, Klagshamn, Malmohus, Sweden. Received 10/22/1991.

**PI 616508. *Fragaria vesca* L.**

Cultivar. "Rodluvan". Pedigree - Uncertain. Large light red berries, high yield, very good flavor, good groundcover.

The following were donated by Ake Truedsson, Hans-Pers vag 2, S-230 43, Klagshamn, Malmohus, Sweden. Received 10/22/1991.

**PI 616509. *Fragaria vesca* L.**

Cultivar. "Norrland". Developed in Sweden. Pedigree - Unknown, an old Swedish selection. Large red berries, high yield, very good flavor, good as a groundcover.

The following were developed by Ake Truedsson, Hans-Pers vag 2, S-230 43, Klagshamn, Malmohus, Sweden. Received 10/22/1991.

**PI 616510. *Fragaria vesca* L.**

Cultivar. "Snovit". Pedigree - Uncertain. Large white berries, high yield, good taste, low bush, good groundcover.

The following were donated by Ake Truedsson, Hans-Pers vag 2, S-230 43, Klagshamn, Malmohus, Sweden. Received 10/22/1991.

**PI 616511. *Fragaria x ananassa* Duchesne**

Cultivar. "White D". Collected in Malmohus, Sweden. Developed in Sweden. Pedigree - old strawberry cultivar with pale fruit. Collected from a landscape garden in Dalarna, where it had been for at least 50 years. Superior to White Pine.

The following were collected by Royce S. Bringhurst, University of California, Dept. Pomology, Wickson Hall, Davis, California 95616, United States. Received 12/09/1991.

**PI 616512. *Fragaria chiloensis* (L.) Mill.**

Wild. *F. chiloensis* (female). Collected 11/17/1991 in Chile. Latitude 38 deg. 26' S. Longitude 71 deg. 14' W. Lonquimay. Pedigree - collected from the wild in Chile. Female.

The following were collected by A.T. Whittemore, Missouri Botanical Garden, Biology Department, P.O. Box 299, St. Louis, Missouri 63166-0299, United States. Received 02/26/1992.

**PI 616513. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected 07/14/1991 in Kazakhstan. Elevation 1700 m. Lower part of the Bolshoi Aime Atinke Canyon. Pedigree - collected from the wild in Kazakhstan. Fruits small and tasty.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by Washington State University, SW Washington Research Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Donated by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616514. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 La Tapera 2A; 2 TAP 2A. Collected 1992 in Aisen, Chile. Latitude 44 deg. 39' S. Longitude 71 deg. 42' W. Elevation 0 m. La Tapera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616515. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Lago Torres 1A; 2 TOR 1A. Collected 1992 in Aisen, Chile. Latitude 44 deg. 48' S. Longitude 72 deg. 13' W. Elevation 0 m. Lago Torres. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616516. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Carelmapu 1A; 2 CPU 1A. Collected 1992 in Los Lagos, Chile. Latitude 41 deg. 45' S. Longitude 73 deg. 44' W. Elevation 0 m. Carelmapu. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616517. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Lago Yelcho 1A; 2 YEL 1A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 11' S. Longitude 72 deg. 27' W. Elevation 0 m. Lago Yelcho. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616518. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Lago Carrera 1A; 2 CAR 1A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 39' S. Longitude 72 deg. 38' W. Elevation 0 m. Lago General Carrera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616519. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 La Tapera 4C Elite #2; 2 TAP 4C Elite #2. Collected 1992 in Aisen, Chile. Latitude 44 deg. 39' S. Longitude 71 deg. 42' W. Elevation 0 m. La Tapera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616520. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chiloensis* 2 Rio Camahueto 1C; 2 CAM 1C. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 33' S. Longitude 72 deg. 32' W. Elevation 0 m. Rio Camahueto. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616521. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 MAC 2A; 2 MIC 2A. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 44' S. Longitude 72 deg. 35' W. Elevation 0 m. Volcano Michimahuida. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616522. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 7A; 2 COC 7A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616523. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Lago Carrera 4A; 2 CAR 4A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 39' S. Longitude 72 deg. 38' W. Elevation 0 m. Lago General Carrera. Pedigree - collected from the wild in Chile.

Additional collection information forthcoming.

**PI 616524. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Point Guabun 1A; 2 GBN 1A. Collected 1992 in Los Lagos, Chile. Latitude 41 deg. 48' S. Longitude 74 deg. 3' W. Elevation 0 m. Point Guabun. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616525. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 4A; 2 COC 4A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616526. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Mar Brava 1B; 2 BRA 1B. Collected 1992 in Aisen, Chile. Latitude 41 deg. 50' S. Longitude 73 deg. 38' W. Elevation 0 m. Mar Brava. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616527. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Mallin Grande 1A; 2 MAL 1A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 42' S. Longitude 72 deg. 27' W. Elevation 0 m. Mallin Grande. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616528. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Palena 3A; 2 PAL 3A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 37' S. Longitude 71 deg. 49' W. Elevation 0 m. Rio Palena. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616529. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cucao 1A; 2 CUC 1A. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 41' S. Longitude 73 deg. 54' W. Elevation 0 m. Cucao. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616530. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 El Valle 1A; *F. chiloensis* 2 Le Valle 1A; 2 VAL 1A. Collected 1992 in Aisen, Chile. Latitude 45 deg. 5' S. Longitude 72 deg. 9' W. Elevation 0 m. El Valle. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616531. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 3A; 2 COC 3A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616532. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Rio Grande 1A; 2 GRA 1A. Collected 1992 in Aisen, Chile. Latitude 44 deg. 41' S. Longitude 72 deg. 12' W. Elevation 0 m. Rio Grande. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616533. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Lago Carrera 2A; 2 CAR 2A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 39' S. Longitude 72 deg. 38' W. Elevation 0 m. Lago General Carrera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616534. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Carelmapu 2A; 2 CPU 2A. Collected 1992 in Los Lagos, Chile. Latitude 41 deg. 45' S. Longitude 73 deg. 44' W. Elevation 0 m. Carelmapu. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616535. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Calle 1A; 2 CAE 1A. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 4' S. Longitude 74 deg. 2' W. Elevation 0 m. Calle Cahya. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616536. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Palena 1A; 2 PAL 1A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 37' S. Longitude 71 deg. 49' W. Elevation 0 m. Rio Palena. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616537. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Rio Baker 2A; 2 BAK 2A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 8' S. Longitude 72 deg. 41' W. Elevation 0 m. Rio Baker. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by Washington State University, SW Washington Research Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Donated by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616538. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Puerto Bertrand 1A; 2 BER 1A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 1' S. Longitude 72 deg. 49' W. Elevation 0 m. Puerto Bertrand. Pedigree - collected from the wild in

Chile. Additional collection information forthcoming.

**PI 616539. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 La Tapera 3A; 2 TAP 3A. Collected 1992 in Aisen, Chile. Latitude 44 deg. 39' S. Longitude 71 deg. 42' W. Elevation 0 m. La Tapera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616540. *Fragaria* x *ananassa* Duchesne**

Breeding. *F. chiloensis* 2 Quildaco 2A introgressed; 2 QUI 2A. Collected 1992 in Los Lagos, Chile. Latitude 41 deg. 57' S. Longitude 72 deg. 49' W. Elevation 0 m. Quildaco Alto. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616541. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. 2 BAL 1A; *F. chiloensis* 2 Balmaceda 1A. Collected 1992 in Aisen, Chile. Latitude 45 deg. 55' S. Longitude 71 deg. 42' W. Elevation 0 m. Balmaceda. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by Washington State University, SW Washington Research Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Donated by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616542. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Futalefu 5A; 2 FUT 5A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 11' S. Longitude 71 deg. 51' W. Elevation 0 m. Futalefu. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616543. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Palena 2B Elite #1; 2 PAL 2B Elite #1. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 37' S. Longitude 71 deg. 49' W. Elevation 0 m. Rio Palena. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616544. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chilensis* 2 Michimahueda 1A; 2 MIC 1A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 2' S. Longitude 72 deg. 13' W. Elevation 0 m. Valcano Michimahuida. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616545. *Fragaria chilensis* f. *patagonica* Staudt**

Breeding. 2 BAK 1A; *F. chilensis* 2 Rio Baker 1A. Collected 1992 in Aisen, Chile. Latitude 48 deg. 16' S. Longitude 73 deg. 8' W. Elevation 0 m. (Rio Baker?). Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States; Arturo Lavin, Instituto de Investigaciones Agropecuarias, Subestacion Experimental Cauquenes, Camino A Parral-KM 3,5, Cauquenes, Chile. Developed by Washington State University, SW Washington Research Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Donated by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 616546. *Fragaria chilensis* f. *patagonica* Staudt**

Breeding. *F. chilensis* 2 Puerto Guadal 1A; 2 GUA 1A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 52' S. Longitude 72 deg. 42' W. Elevation 0 m. Puerto Guadal. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616547. *Fragaria chilensis* f. *patagonica* Staudt**

Breeding. *F. chilensis* 2 Puerto Cisnes 1A; 2 CIS 1A. Collected 1992 in Aisen, Chile. Latitude 44 deg. 45' S. Longitude 72 deg. 41' W. Elevation 0 m. Puerto Cisnes. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616548. *Fragaria chilensis* f. *patagonica* Staudt**

Breeding. *F. chilensis* 2 Lago Carrera 3A Elite #1; 2 CAR 3A. Collected 1992 in Aisen, Chile. Latitude 46 deg. 39' S. Longitude 72 deg. 38' W. Elevation 0 m. Lago General Carrera. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616549. *Fragaria chilensis* f. *patagonica* Staudt**

Breeding. *F. chilensis* 2 Cochrane 5A; 2 COC 5A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional

collection information forthcoming.

**PI 616550. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 2A; 2 COC 2A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616551. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Futalefu 4A; 2 FUT 4A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 11' S. Longitude 71 deg. 51' W. Elevation 0 m. Futalefu. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616552. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 6A; 2 COC 6A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616553. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Rio Camahueto 1A; 2 CAM 1A. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 33' S. Longitude 72 deg. 32' W. Elevation 0 m. Rio Camahueto. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616554. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chiloensis* 2 Futalefu 6A introgressed; 2 FUT 6A. Collected 1992 in Los Lagos, Chile. Latitude 43 deg. 11' S. Longitude 71 deg. 51' W. Elevation 0 m. Futalefu. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616555. *Fragaria chiloensis* f. *patagonica* Staudt**

Breeding. *F. chiloensis* 2 Cochrane 9A; 2 COC 9A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616556. *Fragaria chiloensis* (L.) Mill.**

Breeding. *F. chiloensis* 2 Gara Bahia 1A; 2 GAR 1A. Collected 1992 in Chile. Gara Bahia. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616557. *Fragaria chiloensis* (L.) Mill.**

Breeding. *F. chiloensis* 2 Cochrane ?A; 2 COC ?A. Collected 1992 in Aisen, Chile. Latitude 47 deg. 16' S. Longitude 72 deg. 35' W. Elevation 0 m. Cochrane. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

**PI 616558. *Fragaria chiloensis* (L.) Mill.**

Breeding. *F. chiloensis* 2 Rio Camahueto 1D; 2 CAM 1D. Collected 1992 in Los Lagos, Chile. Latitude 42 deg. 33' S. Longitude 72 deg. 32' W. Elevation 0 m. Rio Camahueto. Pedigree - collected from the wild in Chile. Additional collection information forthcoming.

The following were developed by L.J. Brundage. Donated by Tim Nourse, Nourse

Farms, Inc., Box 444485, RFD, South Deerfield, Massachusetts 01373, United States. Received 04/06/1992.

**PI 616559. *Fragaria x ananassa* Duchesne**

Cultivar. "Seneca". Pedigree - NY 1261 (Redcoad x NY 844) x Holiday. Perfect, midseason. Fruit large to medium, drops in size, roundish, necked, very light red, soft, mild flavor.

The following were developed by Andrew R. Jamieson, Agriculture and Agri-Food Canada, Atlantic Food and Horticulture Research Centre, 32 Main St., Kentville, Nova Scotia B4N 1J5, Canada; K.A. Sanford; Nancy L. Nickerson, Agriculture Canada, Research Station, Berry Crop Pathology, Kentville, Nova Scotia B4N 1J5, Canada. Donated by Tim Nourse, Nourse Farms, Inc., Box 444485, RFD, South Deerfield, Massachusetts 01373, United States. Received 04/06/1992.

**PI 616560. *Fragaria x ananassa* Duchesne**

Cultivar. "Cavendish". Pedigree - Glooscap x Annapolis. A mid-season productive cultivar. The berries are very large and firm with medium-firm skin and bright medium red color darkening with maturity. Plants are moderately vigorous, susceptible to mildew, moderately resistant to *Verticillium* wilt and resistant to the common races of red stele. Recommended for trial as a pick-your-own, fresh market cultivar. Dale et al. 1992.

The following were collected by Douglas D. Archbold, University of Kentucky, Department of Horticulture, N-318 Agricultural Science Building North, Lexington, Kentucky 40546, United States. Developed by Douglas D. Archbold, University of Kentucky, Department of Horticulture, N-318 Agricultural Science Building North, Lexington, Kentucky 40546, United States. Received 04/22/1992.

**PI 616561. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Breeding. *F. virginiana* subsp. *grayana* KY-01; KY-1. Collected in Kentucky, United States. Latitude 38 deg. 36' N. Longitude 84 deg. 36' W. Elevation 0 m. Dry Ridge, .5m west of Zion Station Rd. on Harrison Ridge Rd. Pedigree - Selected from the wild in Kentucky.

**PI 616562. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Breeding. *F. virginiana* subsp. *grayana* KY-02; KY-2. Collected in Kentucky, United States. Latitude 38 deg. 0' N. Longitude 85 deg. 10' W. Elevation 0 m. Anderson Co., Avonstoke Road at KY 1873. Pedigree - Selected from the wild in Kentucky.

**PI 616563. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Breeding. *F. virginiana* subsp. *grayana* KY-03; KY-3. Collected in Kentucky, United States. Latitude 36 deg. 40' N. Longitude 85 deg. 45' W. Elevation 0 m. Tompkinsville, Monroe Co. Pedigree - Selected from the wild in Kentucky.

**PI 616564. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Breeding. *F. virginiana* subsp. *grayana* KY-04; KY-4. Collected in Kentucky, United States. Latitude 38 deg. 10' N. Longitude 83 deg. 30' W. Elevation 0 m. Rowan Co., Intersection of KY 519 and US 60. Pedigree - Selected from the wild in Kentucky.

- PI 616565. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Breeding. *F. virginiana* subsp. *grayana* KY-05; KY-5. Collected in  
Kentucky, United States. Latitude 38 deg. 5' N. Longitude 84 deg. 30' W.  
Elevation 0 m. Lexington, Old Higbee Mill Rd. .5m W of Nicholasville Rd.  
Pedigree - Selected from the wild in Kentucky.
- PI 616566. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Breeding. *F. virginiana* subsp. *grayana* KY-06; KY-6. Collected in  
Kentucky, United States. Latitude 37 deg. 5' N. Longitude 84 deg. 45' W.  
Elevation 0 m. Mounce Farm, Nancy, near KY 80 (Pulaski Co.). Pedigree -  
Selected from the wild in Kentucky.
- PI 616567. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Breeding. *F. virginiana* subsp. *grayana* KY-07; KY-7. Collected in  
Kentucky, United States. Pedigree - Selected from the wild. Originally  
from Strafford, NH (Submitted by KY resident).
- PI 616568. *Fragaria virginiana* Mill. subsp. *virginiana***  
Breeding. *F. virginiana* subsp. *virginiana* KY-08; KY-8. Collected in  
Kentucky, United States. Latitude 36 deg. 40' N. Longitude 86 deg. 15'  
W. Elevation 0 m. Richards Farm, Allen Co. Pedigree - collected from  
the wild in Kentucky.
- PI 616569. *Fragaria virginiana* Mill. subsp. *virginiana***  
Breeding. *F. virginiana* subsp. *virginiana* KY-09; KY-9. Collected in  
Kentucky, United States. Latitude 36 deg. 50' N. Longitude 86 deg. 30'  
W. Elevation 0 m. 10m SW of Bowling Green at Warren, Hwy 68/80.  
Pedigree - collected from the wild in Kentucky.
- PI 616570. *Fragaria virginiana* Mill. subsp. *virginiana***  
Breeding. *F. virginiana* subsp. *virginiana* KY-10; KY-10. Collected in  
Kentucky, United States. Latitude 38 deg. 54' N. Longitude 84 deg. 30'  
W. Elevation 0 m. Cold Spring, Cambell Co. Pedigree - collected from  
the wild in Kentucky.
- PI 616571. *Fragaria virginiana* Mill. subsp. *virginiana***  
Breeding. *F. virginiana* subsp. *virginiana* KY-12; KY-12. Collected in  
Kentucky, United States. Latitude 37 deg. 40' N. Longitude 84 deg. 20'  
W. Elevation 0 m. Berea, Madison Co. Pedigree - collected from the wild  
in Kentucky.
- PI 616572. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Breeding. *F. virginiana* subsp. *grayana* KY-13; KY-13. Collected in  
Kentucky, United States. Latitude 37 deg. 5' N. Longitude 84 deg. 36' W.  
Elevation 0 m. Bronston, Pulaski Co. Pedigree - Selected from the wild  
in Kentucky.
- PI 616573. *Fragaria virginiana* Mill. subsp. *virginiana***  
Breeding. *F. virginiana* subsp. *virginiana* KY-16; KY-16. Collected in  
Kentucky, United States. Latitude 37 deg. 50' N. Longitude 82 deg. 55'  
W. Elevation 0 m. Johnson Co. Pedigree - collected from the wild in  
Kentucky.

The following were developed by Douglas D. Archbold, University of Kentucky,  
Department of Horticulture, N-318 Agricultural Science Building North,

Lexington, Kentucky 40546, United States. Received 04/22/1992.

**PI 616574. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Breeding. *F. virginiana* subsp. *grayana* KY-17; KY-17. Pedigree - open  
pollinated seedling selection from KY-1.

The following were collected by Douglas D. Archbold, University of Kentucky,  
Department of Horticulture, N-318 Agricultural Science Building North,  
Lexington, Kentucky 40546, United States. Developed by Douglas D. Archbold,  
University of Kentucky, Department of Horticulture, N-318 Agricultural  
Science Building North, Lexington, Kentucky 40546, United States. Received  
04/22/1992.

**PI 616575. *Fragaria vesca* L. subsp. *vesca***  
Breeding. *F. vesca* subsp. *vesca* KY-18; KY-18. Collected in Kentucky,  
United States. Latitude 36 deg. 54' N. Longitude 84 deg. 42' W.  
Elevation 0 m. Burnside, Pulaski Co. Pedigree - Selected from the wild  
in Kentucky.

The following were developed by Jerry Sortomme, Santa Barbara City College,  
Environmental Horticulture, 721 Cliff Dr., Santa Barbara, California  
93109-2394, United States. Received 06/19/1992.

**PI 616576. *Fragaria vesca* L. subsp. *vesca***  
Breeding. "Golden Alpine". Pedigree - Golden strain isolated from a  
Thompson & Morgan order of '86.

The following were developed by Barbara J. Smith, USDA/ARS Small Fruits  
Research Station, PO Box 287, Poplarville, Mississippi 39470, United States.  
Received 08/06/1992.

**PI 616577. *Fragaria* x *ananassa* Duchesne**  
Breeding. US-70. Pedigree - Uncertain. Anthracnose crown rot resistant.

**PI 616578. *Fragaria* x *ananassa* Duchesne**  
Breeding. US-292. Pedigree - Uncertain. Anthracnose crown rot resistant.

**PI 616579. *Fragaria* x *ananassa* Duchesne**  
Breeding. US-159. Pedigree - Uncertain. Anthracnose crown rot resistant.

**PI 616580. *Fragaria* x *ananassa* Duchesne**  
Breeding. US-438. Pedigree - Uncertain. Anthracnose crown rot resistant.

The following were developed by USDA, ARS, National Clonal Germplasm  
Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States.  
Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository,  
33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received  
09/17/1992.

**PI 616581. *Fragaria vesca* f. *semperflorens*** (Duchesne) Staudt  
Cultivar. *F. vesca* subsp. *vesca* forma *semperflorens*. Collected in France.  
Pedigree - Open-pollinated Alpine. Seed regenerated for use as virus  
indicator plants.

The following were developed by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 10/29/1992.

**PI 616582. *Fragaria x ananassa* Duchesne**

Breeding. Melcher 86-17. Pedigree - Headliner (L-0-188) x Dover (73-1965E). Tested in North Carolina, Auburn University, Texas A & M and USDA Poplarville, Miss.

The following were collected by Gunter Staudt, Bachelhurst 10A, Merzhausen, Germany. Received 11/04/1992.

**PI 616583. *Fragaria gracilis* Losinsk.**

Wild. F. sp. from China. Collected 1992 in Gansu, China. Latitude 35 deg. 28' 0'' N. Longitude 104 deg. 19' 0'' E. Elevation 2000 m. Xinglong Mtn, 100 km southeast of Lanzhou, Kansu, China. Pedigree - Collected from the wild in China.

The following were developed by E.L. Denisen, Iowa State University, Dept. Horticulture, Ames, Iowa 50011, United States. Received 11/24/1992.

**PI 616584. *Fragaria x ananassa* Duchesne**

Breeding. "Clare". Pedigree - 3-7165 (Stoplight x Sunrise) x 3-7145 (Surecrop x Sunrise). A mid-season productive cultivar. The medium large berries are firm.<br>Adam Dale et al. 1992.

The following were collected by P. Aravena. Developed by University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94270, United States. Donated by University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94270, United States. Received 01/29/1993.

**PI 616585. *Fragaria chiloensis* (L.) Mill.**

Cultivated. F. chiloensis. Collected in Chile. Latitude 39 deg. 31' 0'' S. Longitude 72 deg. 58' 0'' W. San Jose de la Mariquina. Pedigree - collected from the wild in Chile. Original plant virus infected. Range: N & S America. A small Chilean fruit.

The following were donated by Dennis Magnello, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 12/30/1992.

**PI 616586. *Fragaria x ananassa* Duchesne**

Breeding. "Frel"; Pink Panda. PP07598. Developed in United Kingdom. Pedigree - *Fragaria x ananassa x Potentilla palustris*. Pink Panda is a fifth backcross segregant from a cross of cultivated strawberry (*Fragaria x ananassa*) b a red- to purple-colored European cinquefoil relative (*Potentilla palustris*). It was bred by Jack R. Ellis of Bourne End, England and patented in the United States under the name of 'Frel.' Ellis regarded the 'Frel' as essentially a strawberry. "The present

cultivar is designated *Fragaria* because it is a chromosome addition line of the cultivated strawberry and is 96% *Fragaria*." with its pinkflowers, continuous blooming (everbearing habit) and increased petal count coming from the *Potentilla* parent. Gene Galletta of the USDA Fruit Laboratory in Beltsville, MD became curious how the flower color of 'Pink Panda' would be inherited and crossed it to the late maturing red stele-resistant, white-flowered, strawberry, MDUS 4740. The resulting first generation progeny varied in flower color from white, white striped with pink, pastel pink, deep pink, to red. The deep set color was.

The following were developed by G. F. Govorova, Krymsk Experimental Breeding Station, Immunity Laboratory, VIR, Krymsk, Krasnodar 353330, Russian Federation. Donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 03/16/1993.

**PI 616587. *Fragaria* x *ananassa* Duchesne**

Breeding. "Yuzhanka". Pedigree - Russian selection of cultivated strawberry. See login notes for additional info.

**PI 616588. *Fragaria* x *ananassa* Duchesne**

Breeding. "Rannaya Plotnaya". See login notes for additional info.

The following were developed by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 03/16/1993.

**PI 616589. *Fragaria* x *ananassa* Duchesne**

Breeding. Delmarvel; MDUS 4923 R12. Pedigree - Earliglow x Atlas.

**PI 616590. *Fragaria* x *ananassa* Duchesne**

Breeding. MDUS 5368 R19.

The following were developed by Elzibeth Volk, Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon 97331, United States. Received 04/02/1993.

**PI 616591. *Fragaria* x *ananassa* Duchesne**

Breeding. ORUS 1083-135. Virus free strawberry selections from USDA Breeding Program.

The following were developed by Adam Dale, Ontario Ministry of Agriculture & Food, Horticultural Experiment Station, Box 587, Simcoe, Ontario N3Y 4N5, Canada. Received 04/29/1993.

**PI 616592. *Fragaria* x *ananassa* Duchesne**

Cultivar. "Selkirk"; "Selkirk (V7210-5)"; CANADA FRA1682. Pedigree - Earlibelle x Holiday. Selkirk is an early mid-season productive type. The medium large berry is very firm, medium red and flavorful. The firmness, with flesh that is red throughout, makes this an excellent berry for freezing. Selkirk stores very well fresh. Plants are of moderate vigor and are very susceptible to mildew. Recommended for

trial for the fresh market and for processing.<br>Adam Dale et al.  
1992.

**PI 616593. *Fragaria x ananassa* Duchesne**

Cultivar. "Settler"; CANADA FRA1656. Pedigree - Guardian x Holiday. An early-midseason, productive cultivar. The large berries are firm and bright medium red with good flavor. The fruit will skin fairly easily which could be a disadvantage for shipping. The plants are vigorous but slightly dense. Settler is moderately resistant to leaf scorch and Verticillium wilt but susceptible to mildew. Recommended for trial as a pick-your-own and fresh-market cultivar.<br>Dale et al., 1992<br>

**PI 616594. *Fragaria x ananassa* Duchesne**

Cultivar. "Governor Simcoe"; CANADA FRA1652. Pedigree - Holiday x Guardian. This is a mid- to late season productive berry. The berries are very large and firm. The skin is bright, medium-red and the flesh is pale. The fresh flavor is good. The plants are vigorous, slightly dense and runner well but not excessively. Governor Simcoe is moderately resistant to Verticillium wilt and leaf scorch and susceptible to powdery mildew. Recommended as a fresh market cultivar particularly on sandy soils.<br>Dale et al., 1992.

**PI 616595. *Fragaria x ananassa* Duchesne**

Cultivar. "St. Williams"; "St. Williams (V7261-3)"; CANADA FRA1680. Pedigree - Guardsman x V6747R-6. St. Williams is a mid-season, productive type. The medium sized berries are firm, medium red with good flavor. St. Williams has consistently rated as outstanding in tests on the frozen pack at Vineland. It does not decap on the CML decapper. The plant runners well and is vigorous. It is resistant to leaf scorch and mildew. St. Williams is recommended for trial for processing only.<br>Adam Dale et al., 1992<br>

**PI 616596. *Fragaria x ananassa* Duchesne**

Cultivar. "Scotland"; "Scotland (V7251-1)"; CANADA FRA1681. This cultivar is a late season productive type. The large berries are extremely firm, slightly pale red with a slightly acid flavor. Scotland is acceptable for processing but produces more decapped berries on the CML decapper than Midway. The plant is vigorous and will produce a good solid bed suitable for machine harvesting. It is moderately resistant to leaf scorch, mildew and Verticillium wilt. Recommended for trial as a cultivar for machine harvesting for processing.<br>Adam Dale et al., 1992.

The following were developed by G. F. Govorova, Krymsk Experimental Breeding Station, Immunity Laboratory, VIR, Krymsk, Krasnodar 353330, Russian Federation. Donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States.  
Received 05/07/1993.

**PI 616597. *Fragaria x ananassa* Duchesne**

Breeding. "Vystavochnaya". Pedigree - Russian selection of cultivated strawberry. See login notes for additional info.

The following were developed by G. J. Galletta, USDA, ARS, Building 010A,

BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 05/07/1993.

**PI 616598. *Fragaria x ananassa* Duchesne**

Breeding. "Mohawk"; MDUS 5122. Pedigree - MDUS 4587 x Earliglow.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 08/16/1993.

**PI 616599. *Fragaria virginiana* subsp. *glauca* (S. Watson) Staudt**

Wild. *F. virginiana* subsp. *glauca*. Collected 08/12/1993 in Idaho, United States. Latitude 43 deg. 46' 0'' N. Longitude 114 deg. 34' 0'' W. Elevation 2134 m. Newman Creek in the Sawtooth National Forest, Idaho near HWY 75 and Baker Creek. Pedigree - Collected from the wild in Idaho. Collected from moist soil under conifer trees.

**PI 616600. *Fragaria virginiana* subsp. *glauca* (S. Watson) Staudt**

Wild. *F. virginiana* subsp. *glauca*. Collected 08/12/1993 in Idaho, United States. Latitude 43 deg. 31' 0'' N. Longitude 114 deg. 19' 0'' W. Elevation 2286 m. Collected along the Big Wood River, Sawtooth National Forest Idaho near mile post 148 on Hwy 75. Pedigree - Collected from the wild in Idaho. Collected from moist, rocky, sandy soil.

The following were collected by Barbara Reed, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/23/1993.

**PI 616601. *Fragaria virginiana* subsp. *glauca* (S. Watson) Staudt**

Wild. *F. virginiana* subsp. *glauca*. Collected 08/22/1993 in Oregon, United States. Latitude 44 deg. 15' N. Longitude 118 deg. 37' W. Elevation 1768 m. Big Creek Trail, Strawberry Mountain Wilderness Area. Pedigree - Collected from the wild in Oregon. Collected in burned area of lodgepole pine with lupine, pearly everlasting & a few *Ribes*.

The following were donated by James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Received 06/04/1993.

**PI 616602. *Fragaria nilgerrensis* Schltdl. ex J. Gay**

Cultivated. *F. nilgerrensis*. Collected in Germany. Pedigree - Grown from seed collected at Berlin Botanical Garden.

The following were developed by University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94270, United States. Donated by James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Received 06/04/1993.

**PI 616603. *Fragaria nilgerrensis* Schltdl. ex J. Gay**

Cultivated. *F. nilgerrensis*. Collected in China. Pedigree - selected from the wild in China.

The following were collected by Aimak Dj. Djangaliev, Academy of Sciences Rep. of Kazkhstan, Main Botanical Garden, 187 Tulebaev st., apt. 11, Almaty, Alma-Ata 480091, Kazakhstan. Received 10/22/1993.

**PI 616604. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected 09/1993 in Kazakhstan. Latitude 41 deg. N. Longitude 77 deg. E. Near Alma Ata. Pedigree - Collected from the wild in Kazakhstan.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 616605. *Fragaria virginiana* Mill.**

Breeding. *F. virginiana* (female). Collected in North Carolina, United States. Latitude 35 deg. 47' N. Longitude 78 deg. 39' W. Pedigree - collected from the wild in North Carolina. Immune to *Colletotrichum acutatum* in North Carolina.

The following were developed by Royce S. Bringhurst, University of California, Dept. Pomology, Wickson Hall, Davis, California 95616, United States. Donated by Susan Nelson-Kluk, University of California-Davis, Foundation Seed & Plant Materials Serv., 201 Seed Certification Center, Davis, California 95616, United States. Received 10/15/1993.

**PI 616606. *Fragaria* x *ananassa* Duchesne**

Breeding. "Cruz"; CANADA FRA1752. 3979. Certified virus free. Released for more northern parts of California but now replaced with others.

**PI 616607. *Fragaria* x *ananassa* Duchesne**

Breeding. "Toro". 3980. Certified virus free. Released for the Southern California area but was replaced with others.

The following were collected by Joe Voges, Naturecraft Studio, 925 4th Corso, Nebraska City, Nebraska 68410-2864, United States. Received 12/03/1993.

**PI 616608. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 11/1993 in Nebraska, United States. Latitude 40 deg. 40' N. Longitude 95 deg. 52' W. Elevation 200 m. 4 miles west of Nebraska City on country road. Pedigree - Collected from the wild in Nebraska.

The following were collected by Gunter Staudt, Bachelhurst 10A, Merzhausen, Germany. Received 06/25/1993.

**PI 616609. *Fragaria viridis* Duchesne**

Wild. *F. viridis*. Collected in Germany. Latitude 48 deg. 6' 0'' N. Longitude 7 deg. 40' 0'' E. Grown at Staudt's residence. Originally collected from Kaiserstuhl, NW of Frieberg (Baden) Mountains. Pedigree - Collected from the wild in Kaiserstuhl (Caesars Chair).

**PI 616610. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected in Russian Federation. Latitude 50 deg. N.

Longitude 105 deg. E. Elevation 400 m. Grown at Staudt's residence. Originally collected from Irkutsk, Russia. Pedigree - Collected from the wild in Irkutsk, Russia.

**PI 616611. *Fragaria viridis* Duchesne**

Wild. *F. viridis*. Collected in Russian Federation. Latitude 50 deg. N. Longitude 105 deg. E. Elevation 400 m. Grown at Staudt's residence. Originally collected from Irkutsk, Russia. Pedigree - Collected from the wild in Irkutsk, Russia.

**PI 616612. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected in Germany. Latitude 47 deg. 58' 0'' N. Longitude 7 deg. 50' 0'' E. Elevation 400 m. Grown at Staudt's residence. Originally collected from Merzhausen, Germany. Pedigree - Collected from the wild in Merzhausen, Germany.

**PI 616613. *Fragaria* x *hagenbachiana* Lange ex W. D. J. Koch**

Wild. *F.* x *hagenbachiana*. Collected in France. Latitude 47 deg. N. Longitude 6 deg. E. Elevation 200 m. Grown at Staudt's residence. Originally collected from Besancon, France. Pedigree - Collected from the wild in Besancon, France.

The following were donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 03/29/1994.

**PI 616614. *Fragaria* x *ananassa* Duchesne**

Cultivar. "Fujisaki 068". Developed in Japan. Pedigree - selection of *F.* x *ananassa*.

**PI 616615. *Fragaria* x *ananassa* Duchesne**

Clone. *F.* x *ananassa* 86.51.10. Collected in Italy. Galletta received 5-21-93.

The following were developed by Pasquale Rosati, Universita degli Studi di Ancona, Dipartimento di Biotechnologie Agrarie, Via Breccie Bianche-Segreteria, Ancona, Marches 60131, Italy. Donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 03/29/1994.

**PI 616616. *Fragaria* x *ananassa* Duchesne**

Clone. "Don 85.30.5". Galletta received 5-21-93.

The following were donated by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 03/29/1994.

**PI 616617. *Fragaria* x *ananassa* Duchesne**

Clone. *F.* x *ananassa* 86.75.6. Developed in Italy. Galletta received 5-21-93.

**PI 616618. *Fragaria* x *ananassa* Duchesne**

Cultivar. "Linda". Developed in Italy. Galletta received 5-21-93.

**PI 616619. *Fragaria x ananassa* Duchesne**  
Cultivar. "Nike". Developed in Italy. Galletta received 5-21-93.

The following were collected by Hector Black, Hidden Springs Nursery, Route 14 Box 159, 170 Hidden Springs Lane, Cookeville, Tennessee 38501, United States. Received 05/03/1994.

**PI 616620. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected in Tennessee, United States. Latitude 36 deg. 10' N. Longitude 85 deg. 30' W. Elevation 900 m. Roaring River Road, Cookeville, Jackson County, Tennessee. Pedigree - collected from the wild in Tennessee. Pubescence on petiole spreading.

The following were developed by F. Honda, Vegetable and Ornamental Crop, Research Station, Kurume Experiment Station, Mii-Machi, Fukuoka, Japan. Donated by Isamu Igarashi, Morioka Branch of National Research, Inst of Veg, Ornam, Tea, 92 Nabeyashiki Simokuriyagawa, Morioka, Iwate, Japan. Received 05/26/1994.

**PI 616621. *Fragaria x ananassa* Duchesne**  
Cultivar. "Haruyoi". Pedigree - selection of *F. x ananassa*.

The following were donated by Isamu Igarashi, Morioka Branch of National Research, Inst of Veg, Ornam, Tea, 92 Nabeyashiki Simokuriyagawa, Morioka, Iwate, Japan. Received 05/26/1994.

**PI 616622. *Fragaria x ananassa* Duchesne**  
Cultivar. Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616623. *Fragaria x ananassa* Duchesne**  
Cultivar. "Miyazaki". Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616624. *Fragaria x ananassa* Duchesne**  
Cultivar. Morioka 20. Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616625. *Fragaria x ananassa* Duchesne**  
Cultivar. "Nagasaki Queen". Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616626. *Fragaria x ananassa* Duchesne**  
Cultivar. "Nyohou". Developed in Japan. Pedigree - complex hybrid of Dana, Harunoka, Reikou.

**PI 616627. *Fragaria x ananassa* Duchesne**  
Cultivar. "Reikou". Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616628. *Fragaria x ananassa* Duchesne**  
Cultivar. "Syuukou". Developed in Japan. Pedigree - selection of *F. x ananassa*.

**PI 616629. *Fragaria x ananassa* Duchesne**

Cultivar. "Terunoka". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616630. *Fragaria x ananassa* Duchesne**

Cultivar. "Touhoku 10". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616631. *Fragaria x ananassa* Duchesne**

Cultivar. "Tonami-zairai-shikinari". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616632. *Fragaria x ananassa* Duchesne**

Cultivar. "Toyonoka". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616633. *Fragaria x ananassa* Duchesne**

Cultivar. "Tonami". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616634. *Fragaria x ananassa* Duchesne**

Cultivar. "Yamato-shikinari". Developed in Japan. Pedigree - selection of F. x ananassa.

**PI 616635. *Fragaria x ananassa* Duchesne**

Cultivar. "Yamagata 2". Developed in Japan. Pedigree - selection of F. x ananassa.

The following were collected by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 08/09/1994.

**PI 616636. *Fragaria chiloensis* (L.) Mill.**

Wild. F. chiloensis. Collected 08/04/1994 in California, United States. Latitude 41 deg. 40' N. Longitude 124 deg. 15' W. Elevation 0 m. Collected at lighthouse site in Crescent City, Del Norte county, California. Pedigree - collected from the wild in California.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/22/1994.

**PI 616637. *Fragaria chiloensis* (L.) Mill.**

Wild. F. chiloensis. Collected 08/18/1994 in Washington, United States. Latitude 47 deg. 53' N. Longitude 124 deg. 45' W. Elevation 3 m. Collected at La Push Beach, La Push Indian Res., Clallam Co. Washington, 200 yds from ocean, south of Quillayute River. Sandy gravel w/ Gaultheria shalon, Picea, Rubus ursinus... Pedigree - collected from the wild in Washington.

**PI 616638. *Fragaria chiloensis* (L.) Mill.**

Wild. F. chiloensis. Collected 08/18/1994 in Washington, United States. Latitude 47 deg. 53' N. Longitude 124 deg. 45' W. Elevation 0 m. Collected at Rialto Beach State Park, Washington, 1 mile north of Quillayute River. Growing in organic-sand undershade w/ Salal, Chamaecyparis Pseudotsuga menyissii... Pedigree - collected from the

wild in Washington.

**PI 616639. *Fragaria chiloensis* (L.) Mill.**

Wild. *F. chiloensis*. Collected 08/18/1994 in Washington, United States. Latitude 47 deg. 53' N. Longitude 124 deg. 45' W. Elevation 10 m. Collected at Hole-in-the-wall, 1.5 miles N of Rialto Beach, Washington, near stairs behind 'cake rock' on edge of trail. Organic & sand mix w/ *Gaultheria shallon*, *Picea*. Pedigree - collected from the wild in Washington.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/01/1994.

**PI 616640. *Fragaria x ananassa* Duchesne**

Breeding. NJ 8826-11. Developed in United States.

**PI 616641. *Fragaria x ananassa* Duchesne**

Breeding. T-2. Developed in United States.

**PI 616642. *Fragaria x ananassa* Duchesne**

Breeding. T-3. Developed in United States.

**PI 616643. *Fragaria x ananassa* Duchesne**

Breeding. NFAA. Developed in United States.

**PI 616644. *Fragaria x ananassa* Duchesne**

Breeding. NF-21. Developed in United States.

**PI 616645. *Fragaria x ananassa* Duchesne**

Breeding. NF-29. Developed in United States.

**PI 616646. *Fragaria x ananassa* Duchesne**

Breeding. NF-25. Developed in United States.

**PI 616647. *Fragaria x ananassa* Duchesne**

Breeding. NF-19. Developed in United States.

**PI 616648. *Fragaria x ananassa* Duchesne**

Breeding. NF-31. Developed in United States.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 09/01/1994.

**PI 616649. *Fragaria* hybrid**

Wild. *F. hybrid* - *chiloensis* x *virginiana* intr. Collected 07/24/1994 in British Columbia, Canada. Latitude 49 deg. N. Longitude 124 deg. 30' W. Elevation 20 m. Beaver Peninsula, Vancouver Island, British Columbia, Canada. Collected from top of rocky ledge. Sandy loam, partial shade. Associated with *Gaultheria shallon*, *Rubus ursinus*. Pedigree - collected from the wild in Canada. Fewer serrations than *virginiana*. Glossy green leaves but not as thick as *F. chiloensis*.

**PI 616650. *Fragaria virginiana* subsp. *platypetala* (Rydb.) Staudt**

Wild. *F. virginiana* subsp. *platypetala*. Collected 07/20/1994 in British Columbia, Canada. Latitude 49 deg. N. Longitude 124 deg. 30' W. Elevation 100 m. Stroat Lake, approx 10 km NW of Port Alberni, Vancouver Island, British Columbia, Canada. Growing in mineral soil on edge of woods on path to lake beach. Mostly shaded. Common through path edges. Associated with *G. shallon*, *F. vesca*, *R. ursinus*, *R. spectabilis*, etc. Pedigree - collected from the wild in British Columbia. Low growing. Hairs on stems were spreading. Mother clone collected with several runners. Also associated with *Pseudotsuga menzesii* and *Chamacyparis*.

**PI 616651. *Fragaria vesca* subsp. *bracteata* (A. Heller) Staudt**

Wild. *F. vesca* subsp. *bracteata*. Collected 07/20/1994 in British Columbia, Canada. Latitude 49 deg. N. Longitude 124 deg. 30' W. Elevation 100 m. Sproat Lake, approx 10 km NW of Port Alberni, Vancouver Island, British Columbia, Canada. Growing in mineral soil on edge of woods on path to lake beach. Mostly shaded. Common through path edges. Associated with *G. shallon*, *F. virginiana* subsp. *platypetala*, etc. Pedigree - collected from the wild in British Columbia. Hairs on stems spreading. Mother clone taken with several runners. Also associated with *Rubus ursinus* and *Rubus spectabilis*.

**PI 616652. *Fragaria chiloensis* (L.) Mill.**

Wild. *F. chiloensis*. Collected 07/22/1994 in British Columbia, Canada. Latitude 48 deg. 45' N. Longitude 125 deg. 30' W. Elevation 10 m. Long Beach Golf Course, approx 10 km SE of Tofino, Vancouver Island, British Columbia, Canada. Growing as a 'weed' in sandy loam. Pedigree - collected from the wild in British Columbia.

**PI 616653. *Fragaria chiloensis* (L.) Mill.**

Wild. *F. chiloensis*. Collected 07/22/1994 in British Columbia, Canada. Latitude 48 deg. 45' N. Longitude 125 deg. 30' W. Elevation 0 m. On the beach, 200 m from waves on Schooner Cove at the north end of Long Beach. Approx 10 km SE of Tofino, Vancouver Island, British Columbia, Canada. Growing behind large driftwood on beach sand. Shaded by driftwood. Associated with *Rubus spectabilis*, grass plantain, broomgrass. Pedigree - collected from the wild in British Columbia.

**PI 616654. *Fragaria virginiana* subsp. *platypetala* (Rydb.) Staudt**

Wild. *F. virginiana* subsp. *platypetala*. Collected 07/24/1994 in British Columbia, Canada. Latitude 49 deg. 49' N. Longitude 124 deg. 7' W. Elevation 5 m. Saltery Bay Picnic Area, Saltery Bay, British Columbia, Canada. Growing about 200 m from shoreline in sod by edge of trail down to beach. Full sun. Pedigree - collected from the wild in British Columbia. Light green leaves not as coriaceous as *chiloensis*. Spreading hairs on pediole.

The following were collected by Margaret M. Stahler, USDA/SCS, Plant Materials Center, 3415 NE Granger, Corvallis, Oregon 97333, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 01/31/1995.

**PI 616655. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Wisconsin, United States. Pedigree - collected from the wild in Wisconsin. Selected for fruit quality 1993, 1994.

- PI 616656. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Latitude 46 deg. 40' 0'' N. Longitude 94 deg. 42' 0'' E. Collected at  
Foothills State Forest, Cass County, Minnesota. Pedigree - collected  
from the wild in Minnesota. Selected for fruit quality 1993, 1994.
- PI 616657. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616658. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616659. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Wisconsin, United States.  
Pedigree - collected from the wild in Wisconsin. Selected for fruit  
quality 1993, 1994.
- PI 616660. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616661. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616662. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616663. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616664. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616665. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616666. *Fragaria virginiana* Mill.**  
Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.
- PI 616667. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.

**PI 616668. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Wisconsin, United States.  
Pedigree - collected from the wild in Wisconsin. Selected for fruit  
quality 1993, 1994.

**PI 616669. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.

**PI 616670. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.

**PI 616671. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 1986 in Minnesota, United States.  
Pedigree - collected from the wild in Minnesota. Selected for fruit  
quality 1993, 1994.

The following were collected by Bruce Bartholomew, Berkeley Bot. Gdn., Dept.  
of Botany, University of CA, Berkeley, California 94720, United States.  
Donated by Robert Newman, American College of Traditional Chinese Medicine,  
Botanical Garden, 455 Arkansas Street, San Francisco, California 94107,  
United States. Received 04/20/1995.

**PI 616672. *Fragaria nilgerrensis* Schltdl. ex J. Gay**

Cultivated. *F. nilgerrensis*. Collected 06/1984 in Yunnan, China.  
Latitude 25 deg. 40' N. Longitude 100 deg. 2' E. Elevation 0 m.  
Pedigree - collected from the wild in Yunnan, China.

The following were collected by Wes Messinger, Oregon State University, Dept.  
Horticulture, Corvallis, Oregon 97331, United States. Received 03/24/1995.

**PI 616673. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected 02/26/1995 in Bolivia. Pedigree - collected  
from the wild in Bolivia.

The following were collected by Laura Poggio, Ente Parco Nazionale Gran  
Paradiso, Giardino Botanico Alpino "Paradisia", Valnontey, Cogne, Valle  
d'Aosta 11012, Italy. Received 04/21/1995.

**PI 616674. *Fragaria vesca* L.**

Cultivated. *F. vesca*. Collected in Valle d'Aosta, Italy. Pedigree -  
collected from the wild in Bolivia.

The following were collected by Paul M. Catling, Agriculture Canada, Centre  
for Land and Biological Resources Research, Edifice Wm. Saunders Bldg.,  
Ottawa, Ontario K1A 0C6, Canada. Received 09/12/1994.

- PI 616675. *Fragaria virginiana* subsp. *glauca*** (S. Watson) Staudt  
Cultivated. *F. virginiana* ssp. *glauca*. Collected in Quebec, Canada.  
Pedigree - collected from the wild in Quebec.
- PI 616676. *Fragaria virginiana* Mill. subsp. *virginiana***  
Cultivated. *F. virginiana* ssp. *virginiana*. Collected in Quebec, Canada.  
Pedigree - collected from the wild in Quebec.
- PI 616677. *Fragaria virginiana* subsp. *glauca*** (S. Watson) Staudt  
Cultivated. *F. virginiana* ssp. *glauca*. Collected in Quebec, Canada.  
Pedigree - collected from the wild in Quebec.
- PI 616678. *Fragaria virginiana* Mill. subsp. *virginiana***  
Cultivated. *F. virginiana* ssp. *virginiana*. Collected in Quebec, Canada.  
Pedigree - collected from the wild in Quebec.
- PI 616679. *Fragaria virginiana* subsp. *glauca*** (S. Watson) Staudt  
Cultivated. *F. virginiana* ssp. *glauca*. Collected in Quebec, Canada.  
Pedigree - collected from the wild in Quebec.

The following were developed by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Received 05/12/1995.

- PI 616680. *Fragaria* x *ananassa*** Duchesne  
Cultivar. "Latestar". Pedigree - Lateglow x Allstar. Latestar, a late season, disease resistant, Junebearing strawberry cultivar. Tested as MDUS 5084, was selected in 1980 at Queenstown, Maryland by G.J. Galletta from a 1978 cross of Lateglow x Allstar, made at Beltsville by G.J. Galletta. Latestar has performed well in Maryland, Ohio, New Jersey, Pennsylvania, and Missouri, but was not productive in initial tests in Minnesota or in southwest Michigan. Latestar is resistant to 5 eastern U.S. races of red stele root rot, resistant to most of the leaf and stem diseases and fruit rots, but susceptible to leaf blight. Its plants are vigorous, runner well, and usually flower and ripen slightly later than the Allstar, Lateglow or Jewel. Latestar yielded as well as and was as large-fruited as Allstar and Lateglow in Maryland and Ohio. Latestar produces well on either light or heavy soils, in matted rows or in hill culture. Fruit of Latestar is attractive, has firm and tough skin, glossy red skin color, light red flesh color, and has a.
- PI 616681. *Fragaria* x *ananassa*** Duchesne  
Cultivar. "Primetime". Pedigree - MDUS 4377 [Sunrise x MDUS 3082 (sibling of Redchief and Guardian)] x Earliglow. Notice of the release of PRIMETIME, a midseason, disease resistant, large Junebearing strawberry cultivar.  
  
The Agricultural Research Service, U.S. Department of Agriculture hereby releases for propagation PRIMETIME, a midseason, disease resistant, Junebearing strawberry cultivar. PRIMETIME, tested as MDUS 5069, was selected in 1980 at Queenstown, Maryland by G.J. Galletta from a 1978 cross of MDUS 4377 [Sunrise x MDUS 3082 (sibling of Redchief and Guardian)] x Earliglow, made at Beltsville by G.J. Galletta. PRIMETIME has performed well in Maryland, Ohio, New Jersey, and Pennsylvania, reasonably well in Minnesota, though it is not hardy enough for commercial production there, and was not productive in a test in southwest Michigan. PRIMETIME is resistant to 5 eastern U.S.

racers of red stele root rot, and is also tolerant to most of the leaf and stem diseases and fruit rots. It is vigorous, runners well, and usually ripens with or slightly ahead of the Redchief and.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 06/08/1995.

**PI 616682. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica*. Collected 06/11/1994 in Oregon, United States. Latitude 44 deg. 35' N. Longitude 124 deg. W. Elevation 10 m. Sand dunes by South Beach Jetty, mouth of Yaquina Bay, Newport, Lincoln county, Oregon. Sand dunes by beach, growing with beach grasses and legumes. Pedigree - collected from the wild in Oregon.

The following were collected by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Developed by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/10/1995.

**PI 616683. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chiloensis* subsp. *c. forma c.*. Collected 06/30/1995 in Chile. Latitude 44 deg. 36' N. Longitude 123 deg. 15' W. Elevation 75 m. Pedigree - Selfed cross from CFRA 1104.001.

**PI 616684. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chiloensis* subsp. *c. forma c.*. Collected in Chile. Latitude 44 deg. 36' N. Longitude 123 deg. 15' W. Elevation 75 m. Pedigree - Selfed cross from CFRA 744.001.

**PI 616685. *Fragaria* x *ananassa* Duchesne**

Breeding. *F. x ananassa*. Collected in Chile. Latitude 44 deg. 36' N. Longitude 123 deg. 15' W. Elevation 75 m. Pedigree - Selfed cross from CFRA 792.001.

**PI 616686. *Fragaria chiloensis* (L.) Mill.**

Breeding. *F. chiloensis*. Collected in Chile. Latitude 44 deg. 36' N. Longitude 123 deg. 15' W. Elevation 75 m. Pedigree - Selfed cross from CFRA 713.001.

**PI 616687. *Fragaria chiloensis* (L.) Mill. f. *chiloensis***

Breeding. *F. chiloensis* subsp. *c. forma c.*. Collected in Chile. Latitude 44 deg. 36' N. Longitude 123 deg. 15' W. Elevation 75 m. Pedigree - Selfed cross from CFRA 742.001.

The following were donated by Robert Newman, American College of Traditional Chinese Medicine, Botanical Garden, 455 Arkansas Street, San Francisco, California 94107, United States. Received 07/27/1995.

**PI 616688. *Fragaria nilgerrensis* Schltdl. ex J. Gay**

Wild. *F. nilgerrensis*. Collected in China. Pedigree - Collected from

the wild in China.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 09/28/1995.

**PI 616689. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-4-1. Collected 06/12/1995 in South Carolina, United States. Latitude 34 deg. 19' 16'' N. Longitude 79 deg. 17' 8'' W. Elevation 0 m. South Carolina, Williamsburg county, Creel Farm, Henry community. South from Hemingway on SC 41 to county road 121, left on 121 for 4.5 miles to SC 512 in Henry. Just across SC 512 on 121, to Creel farm. Woodland, currently w/ a heavy canopy of mostly deciduous trees. *V. tenellum*, *R. trivialis* and *R. flagellans* occasionally in the woods and along the field edge. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616690. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-9-2. Collected 06/15/1995 in South Carolina, United States. Latitude 33 deg. 45' 18'' N. Longitude 82 deg. 12' 14'' W. Elevation 0 m. South Carolina, Greenwood county, Sumter National Forest, Edgefield & Long Cane District. About halfway along Sumter Forest Road in the National Forest. One of two small colonies of *F. virginiana* found in moist situations along the road edge. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie;

characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616691. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-11-1. Collected 06/16/1995 in South Carolina, United States. Latitude 34 deg. 5' 23'' N. Longitude 82 deg. 24' 37'' W. Elevation 0 m. South Carolina, Abbeville county, Sumter National Forest. FS Road 520 at White Creek Bridge. Modest colony of *F. virginiana* in shade in shallow ditch by road side (above creek). Good moisture and moisture holding capacity. Sig. comp. from grasses & lugumes + *Lonicera hallii* & tree sdlg. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616692. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-12-1. Collected 06/17/1995 in South Carolina, United States. Latitude 34 deg. 11' 22'' N. Longitude 82 deg. 57' 55'' W. Elevation 0 m. South Carolina, Greenwood county, Greenwood State Park. Along road 207 that fronts the Park boundary. Upland - very disturbed area, apparently clearcut 2 yrs ago. Some areas of bare soil. Clearcut cornered with established 30 year old pines. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616693. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-12-2. Collected 06/17/1995 in South Carolina, United States. Latitude 34 deg. 11' 22'' N. Longitude 82 deg. 57' 55'' W. Elevation 0 m. South Carolina, Greenwood county, Greenwood State Park. Along road 207 that fronts the Park boundary. Upland - very disturbed area, apparently clearcut 2 yrs ago. Some areas of bare soil. Clearcut cornered with established 30 year old pines. Pedigree - collected from the wild in South Carolina. South Carolina was extremely

frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616694. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-12-3. Collected 06/17/1995 in South Carolina, United States. Latitude 34 deg. 11' 22'' N. Longitude 82 deg. 57' 55'' W. Elevation 0 m. South Carolina, Greenwood county, Greenwood State Park. Along road 207 that fronts the Park boundary. Upland - very disturbed area, apparently clearcut 2 yrs ago. Some areas of bare soil. Clearcut cornered with established 30 year old pines. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616695. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 95-12-4. Collected 06/17/1995 in South Carolina, United States. Latitude 34 deg. 11' 22'' N. Longitude 82 deg. 57' 55'' W. Elevation 0 m. South Carolina, Greenwood county, Greenwood State Park. Along road 207 that fronts the Park boundary. Upland - very disturbed area, apparently clearcut 2 yrs ago. Some areas of bare soil. Clearcut cornered with established 30 year old pines. Pedigree - collected from the wild in South Carolina. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33

accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616696. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-2. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53'' W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd. Righton Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616697. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-3. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53'' W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd. Righton Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616698. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-4. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53'' W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd.

Righton Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616699. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-5. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53'' W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd. Righton Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616700. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-6. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53'' W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd. Righton Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain

location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616701. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-17-1. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A significant popl of *F. virginiana* occurred under *J. virginiana* trees in an extended cedar glade on slopes above a meadow. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616702. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-17-2. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A significant popl of *F. virginiana* occurred under *J. virginiana* trees in an extended cedar glade on slopes above a meadow. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616703. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Wild. *F. virginiana* NC 95-17-3. Collected 07/10/1995 in Mississippi,  
United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14''  
W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old  
Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill  
to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A  
significant popl of *F. virginiana* occurred under *J. virginiana* trees in  
an extended cedar glade on slopes above a meadow. Pedigree - collected  
from the wild in Mississippi. South Carolina was extremely frustrating,  
by the middle of the week we had only verified the existence of one  
location for *Fragaria virginiana* in the Coastal Plain, so we moved over  
into the southern piedmont. Three accessions were located in the  
Edgefield District of Sumter National Forest and four in Greenwood State  
Park. The one verified Coastal Plain location is in a garden near  
Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia*  
*frondosa*, and one of *Rubus argutus* were also collected. Southeastern  
Louisiana and Mississippi were more successful, but not abundant in  
these areas either. No accessions were found south of Starkville, MS.  
Specific previous sites were visited near Hattisburg and Laurel, MS, but  
*F. virginiana* was no longer present. A total 33 accessions of *F.*  
*virginiana* were collected from east central and northeastern MS,  
occurring in small outcroppings of prairie; characterized by a very thin  
layer of 'usually' sticky black soil over.

**PI 616704. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Wild. *F. virginiana* NC 95-17-4. Collected 07/10/1995 in Mississippi,  
United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14''  
W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old  
Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill  
to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A  
significant popl of *F. virginiana* occurred under *J. virginiana* trees in  
an extended cedar glade on slopes above a meadow. Pedigree - collected  
from the wild in Mississippi. South Carolina was extremely frustrating,  
by the middle of the week we had only verified the existence of one  
location for *Fragaria virginiana* in the Coastal Plain, so we moved over  
into the southern piedmont. Three accessions were located in the  
Edgefield District of Sumter National Forest and four in Greenwood State  
Park. The one verified Coastal Plain location is in a garden near  
Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia*  
*frondosa*, and one of *Rubus argutus* were also collected. Southeastern  
Louisiana and Mississippi were more successful, but not abundant in  
these areas either. No accessions were found south of Starkville, MS.  
Specific previous sites were visited near Hattisburg and Laurel, MS, but  
*F. virginiana* was no longer present. A total 33 accessions of *F.*  
*virginiana* were collected from east central and northeastern MS,  
occurring in small outcroppings of prairie; characterized by a very thin  
layer of 'usually' sticky black soil over.

**PI 616705. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt  
Wild. *F. virginiana* NC 95-17-5. Collected 07/10/1995 in Mississippi,  
United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14''  
W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old  
Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill  
to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A  
significant popl of *F. virginiana* occurred under *J. virginiana* trees in  
an extended cedar glade on slopes above a meadow. Pedigree - collected

from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616706. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-17-6. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 27' 28'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Oktibbeha county. E on Hwy 82 to Old Mayhew Road. Right on Old Mayhew 0.8 mi to unpaved road heading uphill to left. Left on unpaved rd 0.5 mi to nat'l gas pipeling right of way. A significant popl of *F. virginiana* occurred under *J. virginiana* trees in an extended cedar glade on slopes above a meadow. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616707. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-1. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific

previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616708. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-2. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616709. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-3. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616710. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-6. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar

glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616711. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-19-2. Collected 07/11/1995 in Mississippi, United States. Latitude 34 deg. 0' 27'' N. Longitude 88 deg. 34' 17'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 278 1.8 mi from Lake Monroe Rd to Wrenwood Rd. L on Wrenwood (an unpaved rd to Presbyterian Church Camp). Site 0.75 mi off road to the right, behind caretakers home. Cedar glade with occasional *F. virginiana*, mostly in heavy shade, but with several colonies extending out into open areas. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616712. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-19-3. Collected 07/11/1995 in Mississippi, United States. Latitude 34 deg. 0' 27'' N. Longitude 88 deg. 34' 17'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 278 1.8 mi from Lake Monroe Rd to Wrenwood Rd. L on Wrenwood (an unpaved rd to Presbyterian Church Camp). Site 0.75 mi off road to the right, behind caretakers home. Cedar glade with occasional *F. virginiana*, mostly in heavy shade, but with several colonies extending out into open areas. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of

Gaylussacia frondosa, and one of Rubus argutus were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616713. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-19-4. Collected 07/11/1995 in Mississippi, United States. Latitude 34 deg. 0' 27'' N. Longitude 88 deg. 34' 17'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 278 1.8 mi from Lake Monroe Rd to Wrenwood Rd. L on Wrenwood (an unpaved rd to Presbyterian Church Camp). Site 0.75 mi off road to the right, behind caretakers home. Cedar glade with occasional *F. virginiana*, mostly in heavy shade, but with several colonies extending out into open areas. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616714. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-20-1. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 59' 44'' N. Longitude 88 deg. 32' 19'' W. Elevation 0 m. Mississippi, Monroe county. In Aberdeen take Meridian St N to Rye Rd. R on Rye 1.2 mi to Rowell Rd. R on Rowell 0.1 mi. Primarily along roadside. Deciduous broadleaf trees along fence-row. Large colony of *Fragaria* very coarse - could represent escapes from very old cultivated planting. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616715. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-20-2. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 59' 44'' N. Longitude 88 deg. 32' 19'' W. Elevation 0 m. Mississippi, Monroe county. In Aberdeen take Meridian St N to Rye Rd. R on Rye 1.2 mi to Rowell Rd. R on Rowell 0.1 mi. Primarily along roadside. Deciduous broadleaf trees along fence-row. Large colony of *Fragaria* very coarse - could represent escapes from very old cultivated planting. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616716. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-2. Collected 07/12/1995 in Mississippi, United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616717. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-3. Collected 07/12/1995 in Mississippi, United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State

Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616718. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-4A. Collected 07/12/1995 in Mississippi, United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616719. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-4B. Collected 07/12/1995 in Mississippi, United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616720. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-5. Collected 07/12/1995 in Mississippi,

United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616721. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-21-6. Collected 07/12/1995 in Mississippi, United States. Latitude 33 deg. 51' 19'' N. Longitude 88 deg. 32' 21'' W. Elevation 0 m. Mississippi, Pontotoc county. Trace State Park (just outside Tupelo). Along roadside in grassy areas. Found in shade under trees. Scattered and morphologically diverse popl. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616722. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-22-3. Collected 07/13/1995 in Mississippi, United States. Latitude 34 deg. 15' 37'' N. Longitude 88 deg. 53' 9'' W. Elevation 0 m. Mississippi, Tishomingo county, Tishomingo State Park. Upper piedmont vegetation on ridges and in deep shady ravines; closely resembling the Appalachians where rock outcrops occur. *V. arboreum*, *V. elliotii* fairly abundant. Scattering of *Rubus* spp. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern

Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616723. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-22-4. Collected 07/13/1995 in Mississippi, United States. Latitude 34 deg. 15' 37'' N. Longitude 88 deg. 53' 9'' W. Elevation 0 m. Mississippi, Tishomingo county, Tishomingo State Park. Upper piedmont vegetation on ridges and in deep shady ravines; closely resembling the Appalachians where rock outcrops occur. *V. arboreum*, *V. elliotii* fairly abundant. Scattering of *Rubus* spp. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616724. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-22-5. Collected 07/13/1995 in Mississippi, United States. Latitude 34 deg. 15' 37'' N. Longitude 88 deg. 53' 9'' W. Elevation 0 m. Mississippi, Tishomingo county, Tishomingo State Park. Upper piedmont vegetation on ridges and in deep shady ravines; closely resembling the Appalachians where rock outcrops occur. *V. arboreum*, *V. elliotii* fairly abundant. Scattering of *Rubus* spp. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616725. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-16-1. Collected 07/10/1995 in Mississippi, United States. Latitude 33 deg. 32' 46'' N. Longitude 88 deg. 42' 53''

W. Elevation 0 m. Mississippi, Oktibbeha county. From Starkville, E on Hwy 82/182 2.2 mi to sec rd 16. L on sec rd 16 4.6 mi to Rock Hill Rd. Right on Rock Hill Rd for 1.6 mi. On right: almost excl in shade of *Juniperus virginiana*, shallow soil over exposed chalk - shade appeared critical for survival. On left: more or less open, competing w/ grasses & *R. trivialis*. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616726. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-4. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 616727. *Fragaria virginiana* subsp. *grayana*** (Vilm. ex J. Gay) Staudt Wild. *F. virginiana* NC 95-18-5. Collected 07/11/1995 in Mississippi, United States. Latitude 33 deg. 27' 27'' N. Longitude 88 deg. 46' 14'' W. Elevation 0 m. Mississippi, Monroe county. Hwy 45 north to Hwy 278. E on Hwy 278 to Central Grove Rd. Right on Peacely Ferry Rd. 1.1 mi. Cedar glade on both roadsides, with *F. virginiana* scattered on the site under *J. virginiana*, always under heavy shade. Pedigree - collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC.

Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

The following were collected by Elizabeth Janssen, Box 20060, Perth Mews Postal Outlet, Perth, Ontario K7H 3A0, Canada. Received 11/06/1995.

**PI 616728. *Fragaria vesca* L.**

Wild. *F. vesca*. Collected 06/30/1995 in Ontario, Canada. Latitude 44 deg. 54' 45'' N. Longitude 76 deg. 29' 20'' W. Elevation 0 m. Pedigree - collected from the wild in Bolivia. From the Strawberry Project - an experiment in wide-area germplasm collection through posting on the internet.

**PI 616729. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 06/30/1995 in Ontario, Canada. Latitude 44 deg. 54' 45'' N. Longitude 76 deg. 29' 20'' W. Elevation 0 m. Pedigree - collected from the wild in Ontario, Canada. From the Strawberry Project - an experiment in wide-area germplasm collection through posting on the internet.

The following were collected by Cecille Wachal, 56 Rutherford Way, Kanata, Ontario K2K 1N4, Canada. Received 11/06/1995.

**PI 616730. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 06/18/1995 in Ontario, Canada. Latitude 45 deg. 20' N. Longitude 75 deg. 50' W. Elevation 0 m. Pedigree - collected from the wild in Ontario, Canada. From the Strawberry Project - an experiment in wide-area germplasm collection through posting on the internet.

The following were collected by Cindy Von Halle, NPS-OZAR, Van Buren, Missouri, United States. Received 11/06/1995.

**PI 616731. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 06/21/1995 in Missouri, United States. Pedigree - collected from the wild in Missouri. From the Strawberry Project - an experiment in wide-area germplasm collection through posting on the internet.

The following were collected by Sandra Wallace, PO Box 239, Nottingham, New Hampshire 03290-0239, United States. Received 11/06/1995.

**PI 616732. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*. Collected 06/19/1995 in New Hampshire, United States. Pedigree - collected from the wild in New Hampshire. From the Strawberry Project - an experiment in wide-area germplasm collection

through posting on the internet.

The following were collected by Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/15/1995.

**PI 616733. *Fragaria virginiana* Mill.**

Wild. JP 95-2; *F. virginiana*; CFRA 1436. Collected 09/08/1995 in Georgia, United States. Latitude 31 deg. 57' 21'' N. Longitude 83 deg. 54' 57'' W. Elevation 0 m. Georgia, Georgia Veterans Memorial State Park Nature Trail, approx 5/8 mile from Park Headquarters. Collected at station 7, approx 3/8 mile from start of trail. Along edge of nature trail. Abundant in fire breaks in a xeric long leaf/loblolly pine community. Site is burned on a 3 year cycle. Pedigree - collected from the wild in Georgia.

**PI 616734. *Fragaria virginiana* Mill.**

Wild. JP 95-3; *F. virginiana*; CFRA 1437. Collected 09/08/1995 in Georgia, United States. Latitude 31 deg. 33' 30'' N. Longitude 83 deg. 30' 53'' W. Elevation 0 m. Georgia, Gerard Krewer's Live Oaks Orchard, 1.1 miles east of exit 23 from Interstate 75 on Chula Brookfield Road in Tift County. Growing in a row of brambles and has survived past treatment of paraquat herbicide. Pedigree - collected from the wild in Georgia. Strawberries originally from Grady or Thomas County Georgia and are thought to be a dooryard escape from earlier introductions of 'Klondike' and 'Blakemore'.

**PI 616735. *Fragaria virginiana* Mill.**

Wild. JP 95-4-1; *F. virginiana*; CFRA 1438. Collected 09/10/1995 in Georgia, United States. Latitude 32 deg. 56' 15'' N. Longitude 83 deg. 43' 5'' W. Elevation 0 m. Georgia, Biff County, 0.2 miles north of intersection of Bass Rd. and Hwy 23-87. Site marked with Georgia Dept. of Transportation Wildlife Experiment sign. Growing in roadside right of way adjacent to a mixed mesophytic hardwood pine community adjacent to parking lot of Perimeter Crossing Building. Pedigree - collected from the wild in Georgia.

**PI 616736. *Fragaria virginiana* Mill.**

Wild. JP 95-4-2; *F. virginiana*; CFRA 1439. Collected 09/10/1995 in Georgia, United States. Latitude 32 deg. 56' 15'' N. Longitude 83 deg. 43' 5'' W. Elevation 0 m. Georgia, Biff County, 0.2 miles north of intersection of Bass Rd. and Hwy 23-87. Site marked with Georgia Dept. of Transportation Wildlife Experiment sign. Growing in roadside right of way adjacent to a mixed mesophytic hardwood pine community adjacent to parking lot of Perimeter Crossing Building. Pedigree - collected from the wild in Georgia.

**PI 616737. *Fragaria virginiana* Mill.**

Wild. JP 95-5-1; *F. virginiana*; CFRA 1440. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 14' 49'' N. Longitude 83 deg. 55' 31'' W. Elevation 0 m. Georgia, Butts County, Flovilla, Indian Springs State Park. Growing on edge of dam near spillway and over most of the eastern slope of the earthen dam. Extremely variable strawberry pop. due to sites having loose sandy clay or rocky and tight hard red

clay. Pedigree - collected from the wild in Georgia.

**PI 616738. *Fragaria virginiana* Mill.**

Wild. JP 95-5-2; *F. virginiana*; CFRA 1441. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 14' 49'' N. Longitude 83 deg. 55' 31'' W. Elevation 0 m. Georgia, Butts County, Flovilla, Indian Springs State Park. Growing on edge of dam near spillway and over most of the eastern slope of the earthen dam. Extremely variable strawberry pop. due to sites having loose sandy clay or rocky and tight hard red clay. Pedigree - collected from the wild in Georgia.

**PI 616739. *Fragaria virginiana* Mill.**

Wild. JP 95-5-3; *F. virginiana*; CFRA 1442. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 14' 49'' N. Longitude 83 deg. 55' 31'' W. Elevation 0 m. Georgia, Butts County, Flovilla, Indian Springs State Park. Growing on edge of dam near spillway and over most of the eastern slope of the earthen dam. Extremely variable strawberry pop. due to sites having loose sandy clay or rocky and tight hard red clay. Pedigree - collected from the wild in Georgia.

**PI 616740. *Fragaria virginiana* Mill.**

Wild. JP 95-6-1; *F. virginiana*; CFRA 1443. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 1' 52'' N. Longitude 83 deg. 48' 17'' W. Elevation 0 m. Georgia, Monroe County, Rum Creek Wildlife Management Area, 6.2 miles east on Hwy 18 from junction with Interstate 75, collected along edge of nature trail. Strawberry pops. exist on edge of man-made openings on edges of canopies of mixed mesophytic hardwood pine forests. As canopy closes these pops. will be lost for they cannot compete with ag. Pedigree - collected from the wild in Georgia.

**PI 616741. *Fragaria virginiana* Mill.**

Wild. JP 95-6-2; *F. virginiana*; CFRA 1444. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 1' 52'' N. Longitude 83 deg. 48' 17'' W. Elevation 0 m. Georgia, Monroe County, Rum Creek Wildlife Management Area, 6.2 miles east on Hwy 18 from junction with Interstate 75, collected from edges of wildlife food plots. Strawberry pops. exist on edge of man-made openings on edges of canopies of mixed mesophytic hardwood pine forests. As canopy closes these pops. will be lost for they cannot compete with ag. Pedigree - collected from the wild in Georgia.

**PI 616742. *Fragaria virginiana* Mill.**

Wild. JP 95-6-3; *F. virginiana*; CFRA 1445. Collected 09/10/1995 in Georgia, United States. Latitude 33 deg. 1' 52'' N. Longitude 83 deg. 48' 17'' W. Elevation 0 m. Georgia, Monroe County, Rum Creek Wildlife Management Area, 6.2 miles east on Hwy 18 from junction with Interstate 75, collected from edges of wildlife food plots. Strawberry pops. exist on edge of man-made openings on edges of canopies of mixed mesophytic hardwood pine forests. As canopy closes these pops. will be lost for they cannot compete with ag. Pedigree - collected from the wild in Georgia.

**PI 616743. *Fragaria virginiana* Mill.**

Wild. JP 95-7-1; *F. virginiana*; CFRA 1446. Collected 09/10/1995 in Georgia, United States. Latitude 32 deg. 37' 5'' N. Longitude 83 deg. 53' 38'' W. Elevation 0 m. Georgia, Crawford County, Woolfolk Road, 2.9

miles north of intersection with Fort Valley (Peach County) bypass. Deep sand. West side of road. Show effects of herbicide treatment of road side, but strawberries protected by dewberries, yellow jessamine, honeysuckle cover. Pedigree - collected from the wild in Georgia.

**PI 616744. *Fragaria virginiana* Mill.**

Wild. JP 95-7-2; *F. virginiana*; CFRA 1447. Collected 09/10/1995 in Georgia, United States. Latitude 32 deg. 37' 5'' N. Longitude 83 deg. 53' 38'' W. Elevation 0 m. Georgia, Crawford County, Woolfolk Road, 2.9 miles north of intersection with Fort Valley (Peach County) bypass. Shallow sand w/ high mixture of clay. Show effects of herbicide treatment of road side, but strawberries protected by dewberries, yellow jessamine, honeysuckle cover. East side of road. Pedigree - collected from the wild in Georgia.

**PI 616745. *Fragaria virginiana* Mill.**

Wild. JP 95-8-1; *F. virginiana*; CFRA 1448. Collected 09/11/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616746. *Fragaria virginiana* Mill.**

Wild. JP 95-8-2; *F. virginiana*; CFRA 1449. Collected 09/11/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616747. *Fragaria virginiana* Mill.**

Wild. JP 95-8-3; *F. virginiana*; CFRA 1450. Collected 09/11/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616748. *Fragaria virginiana* Mill.**

Wild. JP 95-9-2; *F. virginiana*; CFRA 1452. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616749. *Fragaria virginiana* Mill.**

Wild. JP 95-9-3; *F. virginiana*; CFRA 1453. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616750. *Fragaria virginiana* Mill.**

Wild. JP 95-9-5; *F. virginiana*; CFRA 1454. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616751. *Fragaria virginiana* Mill.**

Wild. JP 95-10-1; *F. virginiana*; CFRA 1456. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616752. *Fragaria virginiana* Mill.**

Wild. JP 95-10-2; *F. virginiana*; CFRA 1457. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616753. *Fragaria virginiana* Mill.**

Wild. JP 95-10-3; *F. virginiana*; CFRA 1458. Collected 09/12/1995 in Georgia, United States. Pedigree - collected from the wild in Georgia.

**PI 616754. *Fragaria virginiana* Mill.**

Wild. JP 95-11-1; *F. virginiana*; CFRA 1459. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 5' 54'' N. Longitude 83 deg. 42' 47'' W. Elevation 0 m. Georgia, Jones County, Piedmont National Wildlife Refuge, Little Rock Wildlife Drive, west of Round Oaks. East side of road on mown shoulders. Pedigree - collected from the wild in

Georgia.

**PI 616755. *Fragaria virginiana* Mill.**

Wild. JP 95-11-2; *F. virginiana*; CFRA 1460. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 5' 54'' N. Longitude 83 deg. 42' 47'' W. Elevation 0 m. Georgia, Jones County, Piedmont National Wildlife Refuge, Little Rock Wildlife Drive, west of Round Oaks. Dry slope on western side of road. Pedigree - collected from the wild in Georgia.

**PI 616756. *Fragaria virginiana* Mill.**

Wild. JP 95-11-3; *F. virginiana*; CFRA 1461. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 5' 54'' N. Longitude 83 deg. 42' 47'' W. Elevation 0 m. Georgia, Jones County, Piedmont National Wildlife Refuge, Little Rock Wildlife Drive, west of Round Oaks. Intensively managed ecotone (margin) between field and loblolly pine stand. Survived repeated burns and mowings. Pedigree - collected from the wild in Georgia.

**PI 616757. *Fragaria virginiana* Mill.**

Wild. JP 95-11-4; *F. virginiana*; CFRA 1462. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 5' 54'' N. Longitude 83 deg. 42' 47'' W. Elevation 0 m. Georgia, Jones County, Piedmont National Wildlife Refuge, Little Rock Wildlife Drive, west of Round Oaks. Open canopied loblolly/ mixed hardwood forest that is burned on a 3-5 year cycle. Concentrated in an abandoned road bed in forest. Pedigree - collected from the wild in Georgia.

**PI 616758. *Fragaria virginiana* Mill.**

Wild. JP 95-11-5; *F. virginiana*; CFRA 1463. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 5' 54'' N. Longitude 83 deg. 42' 47'' W. Elevation 0 m. Georgia, Jones County, Piedmont National Wildlife Refuge, Little Rock Wildlife Drive, west of Round Oaks. Roadside in very dry doughy compacted clay. Competing with thick grass cover and getting most moisture from highway runoff. Pedigree - collected from the wild in Georgia.

**PI 616759. *Fragaria virginiana* Mill.**

Wild. JP 95-11-6; *F. virginiana*; CFRA 1464. Collected 09/13/1995 in Georgia, United States. Latitude 33 deg. 7' 4'' N. Longitude 83 deg. 42' 1'' W. Elevation 0 m. Longleaf/loblolly pine forest that was burned in 1992. Area receives heavy foot traffic or is closely mown. Pedigree - collected from the wild in Georgia.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Rick Harrison, University of Minnesota, Department of Horticultural Science, 1970 Folwell Avenue, St. Paul, Minnesota 55108-6007, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 03/01/1995.

**PI 616760. *Fragaria virginiana* Mill.**

Wild. LIG-2; *F. virginiana*; CFRA 1465. Collected 08/08/1993 in Washington, United States. Latitude 47 deg. 45' 28'' N. Longitude 122

deg. 57' 39'' W. Elevation 792 m. Olympic National Forest. 13.2 km (8.2 mi) west/southwest of US 101 on FR 2620 where FR 2620, FR 2650 and FR 50 join. T26N R2W Sec 8. Jefferson County. Upland site. Due to clear cuts, generally exposed site. Pedigree - collected from the wild in Washington.

The following were developed by V. Voth; Royce S. Bringhurst, University of California, Dept. Pomology, Wickson Hall, Davis, California 95616, United States. Donated by Judith Berezcky, University of California, Davis, College of Agricultural and Environmental Sciences, Foundation Plant Materials Service, Davis, California 95616, United States. Received 11/14/1995.

**PI 616761. *Fragaria x ananassa* Duchesne**

Cultivar. "Aptos"; CFRA 1471. 4679. Pedigree - Cal. 65.63-601 x Tufts (U.S. Plant Pat. No. 3561). A new and distinct variety of strawberry plant of a day-neutral type characterized by its ability after winter and spring plantings in Central California to produce fruit three months after planting continuously on a cyclic basis throughout summer and fall. The variety is also characterized by its runner prolificacy in the nursery; its ability to flower and fruit at any time independent of day length with minimum conditioning and its fruit which is firm and durable, medium long, blunt-ovoid to wedge-shaped and sometimes hollow centered. The fruit is larger in size than Tioga and has an excellent flavor similar to that of Sequoia.<br>Fruit: flesh flavor and quality equal or superior to those of presently grown California 'short-daycultivars; high in ascorbic acid; skin darker, more red than that of Tioga, tends to be dull when overripe. Plant: smaller than Tioga; leaves same color as those of Tioga; less susceptible to Verticillium wilt than Tioga and Tufts. Recommended for.

**PI 616762. *Fragaria x ananassa* Duchesne**

Cultivar. "Brighton"; CN8; CFRA 1472. 4489. Pedigree - Tufts (U.S. Plant Pat. No. 3561) x Cal 65.65-601. A new and distinct variety of strawberry plant of a day-neutral type characterized by its ability after summer planting in South Coastal California to produce fruit during November, December and January, when California fruit is unavailable from the standard short-day cultivars and its ability after winter and spring plantings in Central Coastal California to produce spring and summer fruit without plant storage. Bract leaves do not normally occur on the petioles in contrast to the important California short-day cultivars. The plants are vigorous and prolific runner makers and with a minimum of conditioning, the new cultivar will flower and fruit effectively independent of day length. The fruit is long conic to flat wedged and fruit color is frequently uneven or burnished, though glossy. Flavor quality is almost equal to the important California short-day cultivars and shipping quality is adequate.<br>Fruit: flesh flavor and quality not as good as those of Aptos or Hecker,.

The following were donated by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 04/18/1996.

**PI 616763. *Fragaria x ananassa* Duchesne**

Cultivar. "His Excellency"; CFRA 1477.

**PI 616764. *Fragaria x ananassa* Duchesne**  
Cultivar. "Latecross"; CFRA 1478. Pedigree - European selection of cultivated strawberry.

**PI 616765. *Fragaria x ananassa* Duchesne**  
Cultivar. "Petrina"; CFRA 1479.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Hancock. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 04/23/1996.

**PI 616766. *Fragaria chiloensis* (L.) Mill.**  
Wild. NAH 11; *F. chiloensis*; CFRA 1481. Collected 04/01/1996 in Ecuador. Latitude 1 deg. 17' S. Longitude 78 deg. 38' W. Huachi, Ecuador; Production fields, Albertos Field. Volcanic ash, very dry - as Popenoe 1921 described. Pedigree - collected from the wild in Tungurahua, Ecuador.

The following were collected by Rodrigo Infante, Universidad di Talca, Facultad de Recursos Naturales, Casilla 747, Talca, Maule, Chile; Pasquale Rosati, Universita degli Studi di Ancona, Dipartimento di Biotechnologie Agrarie, Via Brece Bianche-Segreteria, Ancona, Marches 60131, Italy. Donated by Pasquale Rosati, Universita degli Studi di Ancona, Dipartimento di Biotechnologie Agrarie, Via Brece Bianche-Segreteria, Ancona, Marches 60131, Italy. Received 03/04/1996.

**PI 616767. *Fragaria chiloensis* (L.) Mill. *f. chiloensis***  
Landrace. *F. chiloensis* subsp. c. forma c.; CFRA 1484. Collected 01/17/1996 in Chile. Latitude 38 deg. 50' S. Longitude 73 deg. 30' W. OP seed from clone collected from farm 'El Cometa' of Mr. Werner Hansen, km 7 of the Road Carahne - Puerto Saavedra - in Chile, about 80 km W of Temuco & 25 km E of Pacific Ocean. Pedigree - open pollinated seed of white fruited *F. chiloensis*.

The following were collected by Catherine Wright, Alaska Plant Materials Ctr., HCO2, Box 7440, Palmer, Alaska 99645, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/08/1996.

**PI 616768. *Fragaria chiloensis* subsp. *pacifica* Staudt**  
Wild. *F. chiloensis* subsp. *pacifica* Cordova; KHCW 96-01-01; CFRA 1485. Collected 07/29/1996 in Alaska, United States. Latitude 60 deg. 32' 41'' N. Longitude 145 deg. 45' 44'' W. Elevation 5 m. Breakwater Ave, Cordova Docks, across from AC Market. Coarse gravel-sandy soil, very well drained, near granite open, direct sun, north facing slope. Associated plants: *Alnus sinuata*, *Epilobium angustifolium*, *Epilobium latifolium*, *Aquillia millifolium*, *Selaginella selaginoides*. Pedigree - collected from the wild in Alaska. Typical *Fragaria chiloensis* subsp. *pacifica* with spreading hairs on pedioles. Fruit past ripe on 29 August 1996. One flower in bloom.  
  
USDA Sponsored plant collecting

expedition, 1996.

**PI 616769. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Cordova; KHCW 96-01-02; CFRA 1486. Collected 07/29/1996 in Alaska, United States. Latitude 60 deg. 32' 41'' N. Longitude 145 deg. 45' 44'' W. Elevation 5 m. Breakwater Ave, Cordova Docks, across from AC Market. Coarse gravel-sandy soil, very well drained, near granite open, direct sun, north facing slope. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Alnus sinuata*, *Epilobium angustifolium*, *Epilobium latifolium*, *Aquillia millifolium*, *Selaginella selaginoides* (L.) Link.

**PI 616770. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Hartney; KHCW 96-03-01; CFRA 1487. Collected 07/30/1996 in Alaska, United States. Latitude 60 deg. 30' 9'' N. Longitude 145 deg. 51' 41'' W. Elevation 5 m. Whitshed Road just after bridge at Hartney Bay, about 6 miles southwest of Cordova. Along roadside edge. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Alnus sinuata*, *Epilobium angustifolium*, *Epilobium latifolium*, *Aquillia millifolium*, *Festuca*, *Picea sitchensis*, *Heracleum lantanum*, *Rubus spectabilis*.

**PI 616771. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Cabin Lake; KHCW 96-13-01A; CFRA 1488. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' 0'' N. Longitude 145 deg. 30' 0'' W. Elevation 15 m. Between Cabin Lake and the parking lot, 3.5 miles north of Cordova Airport off Copper River Road. Edge of Cabin Lake outlet stream. Pedigree - clone collected of naturalized *F. chiloensis*. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Rubus arcticus*, *Vaccinium ovalifolium*, *Rubus pedatus*, *Alnus*, *Picea sitchensis*.

**PI 616772. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Cabin Lake; KHCW 96-13-01B; CFRA 1489. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' 0'' N. Longitude 145 deg. 30' 0'' W. Elevation 15 m. Between Cabin Lake and the parking lot, 3.5 miles north of Cordova Airport off Copper River Road. Edge of Cabin Lake outlet stream. Pedigree - clone collected of naturalized *F. chiloensis*. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Rubus arcticus*, *Vaccinium ovalifolium*, *Rubus pedatus*, *Alnus*, *Picea sitchensis*.

**PI 616773. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Hartney; KHCW 96-14-01A; CFRA 1490. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' 0'' N. Longitude 145 deg. 51' 0'' W. Elevation 5 m. About 6 miles southwest of Cordova on bluff, Cordova side of Bridge, at Hartney Bay. Open road edge. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Rubus arcticus*, *Vaccinium ovalifolium*, *Rubus pedatus*, *Alnus*, *Picea sitchensis*.

**PI 616774. *Fragaria chiloensis* subsp. *pacifica* Staudt**

Wild. *F. chiloensis* subsp. *pacifica* Hartney; KHCW 96-14-01B; CFRA 1491. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' 0'' N. Longitude 145 deg. 51' 0'' W. Elevation 5 m. About 6 miles southwest

of Cordova on bluff, Cordova side of Bridge, at Hartney Bay. Open road edge. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Rubus arcticus*, *Vaccinium ovalifolium*, *Rubus pedatus*, *Alnus*, *Picea sitchensis*.

**PI 616775. *Fragaria x ananassa* Duchesne**

Cultivated. *F. x ananassa* Bay View KHCW 96-25-02; KHCW 96-25-02; CFRA 1493. Collected 08/04/1996 in Alaska, United States. Latitude 59 deg. 39' 0'' N. Longitude 151 deg. 33' 0'' W. Elevation 35 m. 3 miles north of Homer, Bay View Inn, on bank behind cabins. Open slope facing southwest. Pedigree - selection of cultivated Sitka strawberries suspected to be planted 40 years ago. USDA Sponsored plant collecting expedition, 1996.

**PI 616776. *Fragaria x ananassa* Duchesne**

Cultivated. *F. x ananassa* Girdwood KHCW 96-28-01; KHCW 96-28-01; CFRA 1494. Collected 08/04/1996 in Alaska, United States. Latitude 60 deg. 55' 0'' N. Longitude 149 deg. 0' 0'' W. Elevation 100 m. Strawberries very fragrant and prolific. Plants and fruit plentiful. Open edge of road, Alberg Street, Cordova. Pedigree - selection of cultivated Sitka strawberries. USDA Sponsored plant collecting expedition, 1996.

The following were developed by C.C. Georgeson, Agricultural Experiment Station, Sitka, Alaska, United States. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 616777. *Fragaria x ananassa* Duchesne**

Cultivar. "Sitka"; CFRA 1495. Pedigree - *F. chiloensis* subsp. *pacifica* x *F. ananassa*. USDA Sponsored plant collecting expedition, 1996.

**PI 616778. *Fragaria x ananassa* Duchesne**

Cultivar. K1 Sitka Hybrid; CFRA 1496. Pedigree - *F. chiloensis* subsp. *pacifica* x *F. ananassa*. USDA Sponsored plant collecting expedition, 1996

**PI 616779. *Fragaria x ananassa* Duchesne**

Cultivar. S1; CFRA 1497. Pedigree - *F. chiloensis* subsp. *pacifica* x *F. ananassa*. USDA Sponsored plant collecting expedition, 1996.

The following were developed by Curtis H. Dearborn. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 616780. *Fragaria x ananassa* Duchesne**

Cultivar. "Matared"; CFRA 1498. Pedigree - F2 of Sitka. Fruit is large, deep-red and good tasting. Plants have a moderate everbearing tendency, especially when August is warm but late fruits seldom ripen. Winter hardiness is fair. No disease problems.<br><br>USDA Sponsored plant collecting e1 996.

The following were donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture,

Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 616781. *Fragaria x ananassa* Duchesne**

Cultivar. "Skwentna"; CFRA 1499. Developed in United States. Pedigree - Sitka hybrid derivative. USDA Sponsored plant collecting expedition, 1996.

**PI 616782. *Fragaria x ananassa* Duchesne**

Cultivar. "Talkeetna"; CFRA 1500. Developed in United States. Pedigree - Sitka strawberry derivative. USDA Sponsored plant collecting expedition, 1996.

The following were developed by University of Alaska, Agricultural Experiment Station, College, Alaska, United States. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 616783. *Fragaria virginiana* Mill.**

Cultivar. "Toklat"; CFRA 1501. Pedigree - Derivative of Alaskan *F. virginiana*. Fruit larger than 'Pioneer' bud susceptible to gray mold. Calyx is difficult to remove. This cultivar is slowly replacing 'Pioneer' as a standard home-grown Alaskan variety.  
USDA Sponsored plant collecting expedition, 1996.

The following were collected by R. Buttner, Genebank For Fruit, Dorfplatz 2, Dresden, Saxony D-01326, Germany. Received 10/02/1996.

**PI 616784. *Fragaria* sp.**

Wild. *F. sp. vesca*, *moschata*, *viridis* mixed; CFRA 1514. Collected 1994 in Germany. Pedigree - mixture of *F. moschata*, *F. viridis*, and *F. vesca* variants were opened in the mail and seed was mixed seeds were collected from the wild in 1993 through 1995.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Karen A. Williams, USDA, ARS, Natl. Germplasm Resources Laboratory, Building 003, Room 402, BARC-West, Beltsville, Maryland 20705-2350, United States; Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 08/29/1996.

**PI 616785. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-19-2; NC 96-19-2; CFRA 1516. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 32' 21'' N. Longitude 85 deg. 28' 26'' W. County road 159, 0.5 mile north of county road 010, just south of Martin Marietta quarry, Lee county. Mixed open woodland and roadsides. Sandy loam surface soil. *Fragaria virginiana* abundant. *V. stamineum* scattered. Longleaf pine, *P. taeda* on site, along with scattered *J. virginiana*. *Crataegus uniflora* was the only hawthorn present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616786. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-19-3; NC 96-19-3; CFRA 1517. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 32' 21'' N. Longitude 85 deg. 28' 26'' W. County road 159, 0.5 mile north of county road 010, just south of Martin Marietta quarry, Lee county. Mixed open woodland and roadsides. Sandy loam surface soil. *Fragaria virginiana* abundant. *V. stamineum* scattered. Longleaf pine, *P. teada* on site, along with scattered *J. virginiana*. *Cratageus uniflora* was the only hawthorn present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616787. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-20-1; NC 96-20-1; CFRA 1518. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 39' 35'' N. Longitude 85 deg. 34' 45'' W. County road 188, 5.0 miles north of Loachapoka, Lee county. Roadsides and woods edge. Piedmont; mixed pine and Hardwood. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616788. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-20-2; NC 96-20-2; CFRA 1519. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 39' 35'' N. Longitude 85 deg. 34' 45'' W. County road 188, 5.0 miles north of Loachapoka, Lee county. Roadsides and woods edge. Piedmont; mixed pine and Hardwood. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616789. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-20-3; NC 96-20-3; CFRA 1520. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 39' 35'' N. Longitude 85 deg. 34' 45'' W. County road 188, 5.0 miles north of Loachapoka, Lee county. Roadsides and woods edge. Piedmont; mixed pine and Hardwood. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616790. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-21-1; NC 96-21-1; CFRA 1521. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 55' 35'' N. Longitude 85 deg. 23' 51'' W. Along U.S. 431, two miles north of Lafayette, Chambers county, Alabama. Roadsides under powerline right-of-way, and in pine forest understory. *Fragaria virginiana* scattered on site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616791. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-21-2; NC 96-21-2; CFRA 1522. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 55' 35'' N. Longitude 85 deg. 23' 51'' W. Along U.S. 431, two miles north of Lafayette, Chambers county, Alabama. Roadsides under powerline right-of-way, and in pine forest understory. *Fragaria virginiana* scattered on site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616792. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-21-3; NC 96-21-3; CFRA 1523. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 55' 35'' N. Longitude 85 deg. 23' 51'' W. Along U.S. 431, two miles north of Lafayette, Chambers county, Alabama. Roadsides under powerline right-of-way, and in pine forest understory. *Fragaria virginiana* scattered on site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616793. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-22-2; NC 96-22-2; CFRA 1525. Collected 07/10/1996 in Alabama, United States. Latitude 33 deg. 0' 32'' N. Longitude 85 deg. 21' 54'' W. Along U.S. 431, 0.9 mile north of Lafayette, Chambers county, Alabama. Roadsides and woods edge. Site very dry at present and plants wilted. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616794. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-23-1; NC 96-23-1; CFRA 1527. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 48' 12'' N. Longitude 85 deg. 18' 46'' W. On county road 1083, 7.3 miles southeast of highway 50 from Lafayette, Chambers county, Alabama. Roadside, understory by roadside and powerline right-of-way. Piedmont, mixed pines and hardwoods. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616795. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-23-2; NC 96-23-2; CFRA 1528. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 48' 12'' N. Longitude 85 deg. 18' 46'' W. On county road 1083, 7.3 miles southeast of highway 50 from Lafayette, Chambers county, Alabama. Roadside, understory by roadside and powerline right-of-way. Piedmont, mixed pines and hardwoods. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616796. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-23-3; NC 96-23-3; CFRA 1529. Collected 07/10/1996 in Alabama, United States. Latitude 32 deg. 48' 12'' N. Longitude 85 deg. 18' 46'' W. On county road 1083, 7.3 miles southeast of highway 50 from Lafayette, Chambers county, Alabama. Roadside, understory by roadside and powerline right-of-way. Piedmont, mixed pines and hardwoods. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616797. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-24-1; NC 96-24-1; CFRA 1530. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 1' 47'' N. Longitude 85 deg. 41' 52'' W. Right roadside along German's Ferry road for approximately 400 yards. Road is on the right just across Emuckfaw Creek on highway 22, 5.7 miles east of New Site, Tallapoosa county, Alabama. *Fragaria virginiana* on shoulder of road and in ditch. *Vaccinium elliottii* scattered and occasional *V. pallidum*. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616798. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-24-2; NC 96-24-2; CFRA 1531. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 1' 47'' N. Longitude 85 deg. 41' 52'' W. Right roadside along German's Ferry road for approximately 400 yards. Road is on the right just across Emuckfaw Creek on highway 22, 5.7 miles east of New Site, Tallapoosa county, Alabama. *Fragaria virginiana* on shoulder of road and in ditch. *Vaccinium elliottii* scattered and occasional *V. pallidum*. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616799. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-24-3; NC 96-24-3; CFRA 1532. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 1' 47'' N. Longitude 85 deg. 41' 52'' W. Right roadside along German's Ferry road for approximately 400 yards. Road is on the right just across Emuckfaw Creek on highway 22, 5.7 miles east of New Site, Tallapoosa county, Alabama. *Fragaria virginiana* on shoulder of road and in ditch. *Vaccinium elliottii* scattered and occasional *V. pallidum*. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616800. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-25-1; NC 96-25-1; CFRA 1533. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 52' 30'' N. Longitude 85 deg. 36' 30'' W. Along county road 89, 4.5 miles north of highway 50 at powerline right-of-way. Tallapoosa county. Roadsides, *Fragaria virginiana* scattered. Site very dry at present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616801. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-25-2; NC 96-25-2; CFRA 1534. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 52' 30'' N. Longitude 85 deg. 36' 30'' W. Along county road 89, 4.5 miles north of highway 50 at powerline right-of-way. Tallapoosa county. Roadsides, *Fragaria virginiana* scattered. Site very dry at present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616802. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-25-3; NC 96-25-3; CFRA 1535. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 52' 30'' N. Longitude 85 deg. 36' 30'' W. Along county road 89, 4.5 miles north of highway 50 at powerline right-of-way. Tallapoosa county. Roadsides, *Fragaria virginiana* scattered. Site very dry at present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616803. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-25-4; NC 96-25-4; CFRA 1536. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 52' 30'' N. Longitude 85 deg. 36' 30'' W. Along county road 89, 4.5 miles north of highway 50 at powerline right-of-way. Tallapoosa county. Roadsides, *Fragaria virginiana* scattered. Site very dry at present. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting

expedition, 1996.

**PI 616804. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-27-1; NC 96-27-1; CFRA 1537. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 40' 13'' N. Longitude 85 deg. 53' 8'' W. Beulah road off highway 50, 7.0 miles west of highway 49. Tallapoosa county. *Fragaria virginiana* collected over about 200 yards along right side of the road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616805. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-27-2; NC 96-27-2; CFRA 1538. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 40' 13'' N. Longitude 85 deg. 53' 8'' W. Beulah road off highway 50, 7.0 miles west of highway 49. Tallapoosa county. *Fragaria virginiana* collected over about 200 yards along right side of the road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616806. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-27-3; NC 96-27-3; CFRA 1539. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 40' 13'' N. Longitude 85 deg. 53' 8'' W. Beulah road off highway 50, 7.0 miles west of highway 49. Tallapoosa county. *Fragaria virginiana* collected over about 200 yards along right side of the road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616807. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-28-1; NC 96-28-1; CFRA 1540. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 3' 31'' N. Longitude 86 deg. 6' 49'' W. County road 66, 2.4 miles west of county road 52 at Hatchet creek. Roadbanks on both sides of the creek. Coosa county. *Fragaria virginiana* scattered over both sides of creek. *Rhododendron minus* also on bluff east of the bridge. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616808. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-28-2; NC 96-28-2; CFRA 1541. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 3' 31'' N. Longitude 86 deg. 6' 49'' W. County road 66, 2.4 miles west of county road 52 at Hatchet creek. Roadbanks on both sides of the creek. Coosa county. *Fragaria virginiana* scattered over both sides of creek. *Rhododendron minus* also on bluff east of the bridge. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616809. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-28-4; NC 96-28-4; CFRA 1543. Collected 07/11/1996 in Alabama, United States. Latitude 33 deg. 3' 31'' N. Longitude 86 deg. 6' 49'' W. County road 66, 2.4 miles west of county road 52 at Hatchet creek. Roadbanks on both sides of the creek. Coosa county. *Fragaria virginiana* scattered over both sides of creek. *Rhododendron minus* also on bluff east of the bridge. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616810. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-29-1; NC 96-29-1; CFRA 1544. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 48' 52'' N. Longitude 86 deg. 13' 48'' W. Southern Coosa county. County road 14 to the right off U.S. highway 231/Alabama 21. Roadsides along Road 14 for about 500 yards. Roadside. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616811. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-29-2; NC 96-29-2; CFRA 1545. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 48' 52'' N. Longitude 86 deg. 13' 48'' W. Southern Coosa county. County road 14 to the right off U.S. highway 231/Alabama 21. Roadsides along Road 14 for about 500 yards. Roadside. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616812. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-29-3; NC 96-29-3; CFRA 1546. Collected 07/11/1996 in Alabama, United States. Latitude 32 deg. 48' 52'' N. Longitude 86 deg. 13' 48'' W. Southern Coosa county. County road 14 to the right off U.S. highway 231/Alabama 21. Roadsides along Road 14 for about 500 yards. Roadside. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616813. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-30-1; NC 96-30-1; CFRA 1547. Collected 07/12/1996 in Alabama, United States. Latitude 32 deg. 0' 21'' N. Longitude 86 deg. 9' 52'' W. Roadbank on the left along county road 39, Montgomery county, Alabama. Moist shaded roadbank. Predominantly pine overstory on top of the bank. One large colony of *Fragaria virginiana*. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616814. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-32-1; NC 96-32-1; CFRA 1548. Collected in Alabama, United States. Latitude 31 deg. 53' 37'' N. Longitude 87 deg. 2' 5'' W. Highway 10, 3.6 miles east of junction with highway 21 at Oak Hill, Alabama. Old home site on right side of road. Mobil home removed from site fairly recently. Large oaks predominate the site. One very large colony of strawberry next to the woods at the rear of the site in shade. Vigorous, profuse runnering. Also a few plants away from the main colony. Very fertile soil. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616815. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-33-1; NC 96-33-1; CFRA 1549. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 13' 53'' N. Longitude 86 deg. 59' 40'' W. Along highway 41, 1.8 miles north of the road to Dallas county public fishing lake, Alabama. Roadsides and a limestone cedar glade. Vegetation typical of cedar glades. *Fragaria virginiana* scattered on the site. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616816. *Fragaria virginiana* Mill.**

Wild. NC 96-33-2; *F. virginiana* NC 96-33-2; CFRA 1550. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 13' 53'' N. Longitude 86 deg. 59' 40'' W. USDA Sponsored plant collecting expedition, 1996.

**PI 616817. *Fragaria virginiana* Mill.**

Wild. NC 96-33-3; *F. virginiana* NC 96-33-3; CFRA 1551. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 13' 53'' N. Longitude 86 deg. 59' 40'' W. USDA Sponsored plant collecting expedition, 1996.

**PI 616818. *Fragaria virginiana* Mill.**

Wild. NC 96-33-4; *F. virginiana* NC 96-33-4; CFRA 1552. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 13' 53'' N. Longitude 86 deg. 59' 40'' W. USDA Sponsored plant collecting expedition, 1996.

**PI 616819. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-34-1; NC 96-34-1; CFRA 1553. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 23' 52'' N. Longitude 86 deg. 47' 3'' W. County road 15 to the right off highway 14, 4.5 miles east of Big Mulberry Creek on the Autauga county line. Follow road 15 to Jones Bluff Recreation Area, Autauga county. Rich woods, sticky soil. *Fragaria virginiana* scattered along the woods edge around the parking lot. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616820. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-34-2; NC 96-34-2; CFRA 1554. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 23' 52'' N. Longitude 86 deg. 47' 3'' W. County road 15 to the right off highway 14, 4.5 miles east of Big Mulberry Creek on the Autauga county line. Follow road 15 to Jones Bluff Recreation Area, Autauga county. Rich woods, sticky soil. *Fragaria virginiana* scattered along the woods edge around the parking lot. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616821. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-34-3; NC 96-34-3; CFRA 1555. Collected 07/14/1996 in Alabama, United States. Latitude 32 deg. 23' 52'' N. Longitude 86 deg. 47' 3'' W. County road 15 to the right off highway 14, 4.5 miles east of Big Mulberry Creek on the Autauga county line. Follow road 15 to Jones Bluff Recreation Area, Autauga county. Rich woods, sticky soil. *Fragaria virginiana* scattered along the woods edge around the parking lot. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616822. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-39-1; NC 96-39-1; CFRA 1558. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 54' 27'' N. Longitude 86 deg. 20' 30'' W. Coosa county road 29, 5.4 miles north of highway 22. Roadside ditches and shoulders with scattered *Fragaria virginiana*. Highly disturbed roadside, plant crowns often recently buried. Often competing with Johnson grass or Bahia grass. Young pine plantation on both sides of road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616823. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-39-2; NC 96-39-2; CFRA 1559. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 54' 27'' N. Longitude 86 deg. 20' 30'' W. Coosa county road 29, 5.4 miles north of

highway 22. Roadside ditches and shoulders with scattered *Fragaria virginiana*. Highly disturbed roadside, plant crowns often recently buried. Often competing with Johnson grass or Bahia grass. Young pine plantation on both sides of road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616824. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-39-3; NC 96-39-3; CFRA 1560. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 54' 27'' N. Longitude 86 deg. 20' 30'' W. Coosa county road 29, 5.4 miles north of highway 22. Roadside ditches and shoulders with scattered *Fragaria virginiana*. Highly disturbed roadside, plant crowns often recently buried. Often competing with Johnson grass or Bahia grass. Young pine plantation on both sides of road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616825. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-39-4; NC 96-39-4; CFRA 1561. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 54' 27'' N. Longitude 86 deg. 20' 30'' W. Coosa county road 29, 5.4 miles north of highway 22. Roadside ditches and shoulders with scattered *Fragaria virginiana*. Highly disturbed roadside, plant crowns often recently buried. Often competing with Johnson grass or Bahia grass. Young pine plantation on both sides of road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616826. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-40-1; NC 96-40-1; CFRA 1562. Collected 07/17/1996 in Alabama, United States. Latitude 33 deg. 3' 18'' N. Longitude 85 deg. 55' 53'' W. County road 63, 9 miles north of junction with highway 22. In northwestern Tallapoosa county. Roadside adjacent to a pasture. A single small colony of *Fragaria virginiana* surviving. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616827. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-41-1; NC 96-41-1; CFRA 1563. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 43' 55'' N. Longitude 85 deg. 30' 21'' W. Roadsides along side road to the left off highway 147, 3.8 miles south of U.S. 431. Location in southern Chambers county, Alabama. *Fragaria virginiana* growing in roadside gravel, into the road and into the pasture on both sides of the road. Pedigree - collected from the wild in Alabama. USDA Sponsored plant collecting expedition, 1996.

**PI 616828. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-43-2; NC 96-43-2; CFRA 1567. Collected 07/19/1996 in South Carolina, United States. Latitude 34 deg. 12' 4'' N. Longitude 81 deg. 49' 31'' W. Both roadsides along SC 34, 2.8 miles east of Chappells, Newberry county, South Carolina. Gray sandy loam soil. Strawberries growing with competitive grasses, honeysuckle, Virginia creeper and poison ivy. Wild rose also growing with 2 of 3 colonies collected. Scattered *Vaccinium stamineum* and *V. arboreum* on drier areas of site. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616829. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-43-3; NC 96-43-3; CFRA 1568. Collected 07/19/1996 in South Carolina, United States. Latitude 34 deg. 12' 4'' N. Longitude 81 deg. 49' 31'' W. Both roadsides along SC 34, 2.8 miles east of Chappells, Newberry county, South Carolina. Gray sandy loam soil. Strawberries growing with competitive grasses, honeysuckle, Virginia creeper and poison ivy. Wild rose also growing with 2 of 3 colonies collected. Scattered *Vaccinium stamineum* and *V. arboreum* on drier areas of site. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616830. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-44-1; NC 96-44-1; CFRA 1569. Collected 07/19/1996 in South Carolina, United States. Latitude 34 deg. 12' 31'' N. Longitude 82 deg. 16' 4'' W. Abbeville county road 61 at John's Creek, 2.2 miles off SC 72. Roadside, growing in sandy soil in partial shade. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616831. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-44-2; NC 96-44-2; CFRA 1570. Collected 07/19/1996 in South Carolina, United States. Latitude 34 deg. 12' 31'' N. Longitude 82 deg. 16' 4'' W. Abbeville county road 61 at John's Creek, 2.2 miles off SC 72. Roadside, growing in sandy soil in partial shade. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616832. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-44-3; NC 96-44-3; CFRA 1571. Collected 07/19/1996 in South Carolina, United States. Latitude 34 deg. 12' 31'' N. Longitude 82 deg. 16' 4'' W. Abbeville county road 61 at John's Creek, 2.2 miles off SC 72. In full sun on the right roadbank. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616833. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-45-1; NC 96-45-1; CFRA 1572. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 23' 13'' N. Longitude 81 deg. 56' 40'' W. Left roadside both north and south of Little River, 6.3 miles south of Clinton on SC 72, Laurens county, South Carolina. *Fragaria virginiana* occasional on dry roadbanks over about 300 yards along road. *Rosa carolina* also associated with strawberry. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616834. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-45-2; NC 96-45-2; CFRA 1573. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 23' 13'' N. Longitude 81 deg. 56' 40'' W. Left roadside both north and south of Little River, 6.3 miles south of Clinton on SC 72, Laurens county, South Carolina. *Fragaria virginiana* occasional on dry roadbanks over about 300 yards along road. *Rosa carolina* also associated with strawberry. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616835. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-45-3; NC 96-45-3; CFRA 1574. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 23' 13''

N. Longitude 81 deg. 56' 40'' W. Left roadside both north and south of Little River, 6.3 miles south of Clinton on SC 72, Laurens county, South Carolina. *Fragaria virginiana* occasional on dry roadbanks over about 300 yards along road. *Rosa carolina* also associated with strawberry. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616836. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-45-4; NC 96-45-4; CFRA 1575. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 23' 13'' N. Longitude 81 deg. 56' 40'' W. Left roadside both north and south of Little River, 6.3 miles south of Clinton on SC 72, Laurens county, South Carolina. *Fragaria virginiana* occasional on dry roadbanks over about 300 yards along road. *Rosa carolina* also associated with strawberry. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616837. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-46-1; NC 96-46-1; CFRA 1576. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 41' 30'' N. Longitude 81 deg. 49' 57'' W. Roadside on the right just above the Tyger River, 0.3 mile north of the town limits of Cross Anchor, on county road 56, Spartanbury county, South Carolina. One scattered colony of *Fragaria virginiana* growing on the dry shoulder of the road. *Rosa carolina* also on the site. Climbing milkweed between the site and the river. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616838. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-47-1; NC 96-47-1; CFRA 1577. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 38' 56'' N. Longitude 81 deg. 39' 46'' W. Roadsides along Union county road 61 just south of Fairforest Creek, 3.3 miles north of Rose Hill State Park. 0.6 mile northeast of the junction of roads 44 and 61. *Fragaria virginiana* scattered along the road shoulders on both sides and into the edge of the ditches. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616839. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-47-2; NC 96-47-2; CFRA 1578. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 38' 56'' N. Longitude 81 deg. 39' 46'' W. Roadsides along Union county road 61 just south of Fairforest Creek, 3.3 miles north of Rose Hill State Park. 0.6 mile northeast of the junction of roads 44 and 61. *Fragaria virginiana* scattered along the road shoulders on both sides and into the edge of the ditches. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616840. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-47-3; NC 96-47-3; CFRA 1579. Collected 07/20/1996 in South Carolina, United States. Latitude 34 deg. 38' 56'' N. Longitude 81 deg. 39' 46'' W. Roadsides along Union county road 61 just south of Fairforest Creek, 3.3 miles north of Rose Hill State Park. 0.6 mile northeast of the junction of roads 44 and 61. *Fragaria virginiana* scattered along the road shoulders on both sides and into the edge of the ditches. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616841. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-49-1; NC 96-49-1; CFRA 1581. Collected 07/21/1996 in South Carolina, United States. Latitude 34 deg. 35' 18'' N. Longitude 80 deg. 52' 10'' W. Roadside on the right above Camp Creek, 1.2 miles down SC 97, east of the junction with SC 200, on the east side of the Catawba River Bridge. Growing in part shade on the dry shoulder of the road. Occasional *Vaccinium arboreum*, *V. elliotii* and *V. stamineum* occurred on top of roadbanks and in dry woods. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616842. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-50-1; NC 96-50-1; CFRA 1582. Collected 07/21/1996 in South Carolina, United States. Latitude 34 deg. 31' 18'' N. Longitude 80 deg. 35' 25'' W. Woods and road interface on the left (headed north) on U.S. 521, 1.8 miles north of the Lancaster county line (headed toward Kershaw) and at Hanging Rock Creek. Growing in dense shade, with proportionally large leaves and petioles. Appears to be fertile soil, very dry at present. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616843. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-51-1; NC 96-51-1; CFRA 1583. Collected 07/22/1996 in South Carolina, United States. Latitude 34 deg. 55' 43'' N. Longitude 81 deg. 27' 5'' W. On north side of York county road 363, 0.6 mile west of county road 345, and just above Beaverdam Creek. Scattered along roadside, mostly in partial shade. Piedmont hardwood canopy in the woods on both sides. On road shoulder and in the ditch. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616844. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-51-2; NC 96-51-2; CFRA 1584. Collected 07/22/1996 in South Carolina, United States. Latitude 34 deg. 55' 43'' N. Longitude 81 deg. 27' 5'' W. On north side of York county road 363, 0.6 mile west of county road 345, and just above Beaverdam Creek. Scattered along roadside, mostly in partial shade. Piedmont hardwood canopy in the woods on both sides. On road shoulder and in the ditch. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616845. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-51-3; NC 96-51-3; CFRA 1585. Collected 07/22/1996 in South Carolina, United States. Latitude 34 deg. 55' 43'' N. Longitude 81 deg. 27' 5'' W. On north side of York county road 363, 0.6 mile west of county road 345, and just above Beaverdam Creek. Scattered along roadside, mostly in partial shade. Piedmont hardwood canopy in the woods on both sides. Growing in full sun about 80 feet above the bridge. Competing with *sericea lespodeza* and bermuda grass. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616846. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* NC 96-52-1; NC 96-52-1; CFRA 1586. Collected 07/23/1996 in South Carolina, United States. Latitude 35 deg. 40' 57'' N. Longitude 80 deg. 36' 23'' W. Growing on the side of a ditch, on

left, behind the Poultry Unit at North Carolina ARS Piedmont Research Station at Salisbury, Rowan county, North Carolina. On Sherrills Ford Road (county road 1526), 5.2 miles north of highway 150. Wooded roadside and ditch along a field road leading down to a creek bottom. Pedigree - collected from the wild in South Carolina. USDA Sponsored plant collecting expedition, 1996.

The following were developed by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States; Carl Shanks, Washington State University, SW Research & Extension Unit, Vancouver, Washington 98665, United States. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 06/14/1996.

**PI 616847. *Fragaria x ananassa* Duchesne**

Breeding. BC 840104A x Chandler 92002 D; CFRA 1587. Pedigree - BC 840104A x Chandler.

**PI 616848. *Fragaria x ananassa* Duchesne**

Breeding. Selva x Del Norte 92006 D; CFRA 1588. Pedigree - Selva x Del Norte. Low aphid, moderate mite susceptibility.

**PI 616849. *Fragaria x ananassa* Duchesne**

Breeding. Selva x LCM-19 92009 D; CFRA 1589. Pedigree - Selva x LCM-19 . Moderate aphid, very high mite susceptibility.

**PI 616850. *Fragaria x ananassa* Duchesne**

Breeding. Selva x X-11 92012 I; CFRA 1590. Pedigree - Selva x X-11. High aphid, high mite susceptibility.

**PI 616851. *Fragaria x ananassa* Duchesne**

Breeding. Totem x CL-5 92015 T; CFRA 1591. Pedigree - Totem x CL-5. Very high aphid, low mite susceptibility.

**PI 616852. *Fragaria x ananassa* Duchesne**

Breeding. Totem x DL-40 92017 U; CFRA 1592. Pedigree - Totem x DL-40. Low aphid, low mite susceptibility.

The following were developed by David W. Simpson, East Malling Research Station, Maidstone, England ME19 6BJ, United Kingdom. Donated by Sue Stookes, NSA Plants Limited, Bradbourne House, Stabel Block, East Malling, West Malling, Kent, England ME19 6DZ, United Kingdom. Received 06/18/1996.

**PI 616853. *Fragaria x ananassa* Duchesne**

Cultivar. "Melody"; CFRA 1593. . Pedigree - SCRI 66 M1 x Senga Sengana SCRI 66 M1 is a highly red-stele resistant third generation derivative of *F. virginiana*.

**PI 616854. *Fragaria x ananassa* Duchesne**

Cultivar. "Emily"; CFRA 1594.

The following were collected by Ray Gekosky, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States.

Received 07/02/1996.

**PI 616855. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; CFRA 1595. Collected 06/27/1996 in Colorado, United States. Latitude 38 deg. 57' 12'' N. Longitude 106 deg. 18' 55'' W. Elevation 3048 m. Collected 40 miles S.W. of Leadville in Chaffee county, Colorado. Mixed fir forest.

The following were collected by Hakan Schuberg, Gluntens Vag 9-807, Umea, Vasterbotten 903 31, Sweden. Received 11/04/1996.

**PI 616856. *Fragaria vesca* L.**

Cultivated. *F. vesca*; CFRA 1596. Collected in Vasterbotten, Sweden. Latitude 63 deg. 55' N. Longitude 20 deg. 0' E. Elevation 0 m. Brannland, Umea. On the riverbank of the Ume River. Riverbanks are steep and sandy and have been kept open for 3000 years or more. Collected 08/23/1996 in Vasterbotten, Sweden. Latitude 63 deg. 55' N. Longitude 20 deg. 0' E. Elevation 0 m. Brannland, Umea. On the riverbank of the Ume River. Riverbanks are steep and sandy and have been kept open for 3000 years or more. Pedigree - collected from the wild in Sweden.

The following were collected by Hakan Schuberg, Gluntens Vag 9-807, Umea, Vasterbotten 903 31, Sweden. Developed by USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 11/04/1996.

**PI 616857. *Fragaria viridis* Duchesne**

Wild. *F. viridis*; CFRA 1597. Collected 09/19/1996 in Gotland, Sweden. Latitude 57 deg. 20' N. Longitude 18 deg. 40' E. Elevation 10 m. Southeastern Gotland, close to and 2 km along coast south of the stream Naarsaan, 20 km south of Ljugarn. The soil is heavy clay and very rich in Calcium about 50 cm deep over calcium bedrock. A very dry site in the summer. Former pasture for cattle, sheep and horse. Associated with *Quercus*, *Betula*, *Fraxinus* and *Ulmus*. Pedigree - Collected from the wild in Sweden.

The following were developed by Anatoly Panteev, Belarus Research Institute, Kovaleva Street 2, Samokhvalovitchy, Minsk, Belarus. Received 03/01/1996.

**PI 616858. *Fragaria x ananassa* Duchesne**

Breeding. "Red Shore (Krasny Bereg)"; Kb K; CFRA 1598. Pedigree - selection of cultivated strawberry from Russia.

**PI 616859. *Fragaria x ananassa* Duchesne**

Breeding. "Pavlovtchanka"; C K; CFRA 1599. Pedigree - selection of cultivated strawberry from Russia.

The following were developed by Aldona Miseviciute, Vytenai Experimental Station for Horticultural Crops, Kaunas distr., Babtai, Lithuania. Donated by Anatoly Panteev, Belarus Research Institute, Kovaleva Street 2, Samokhvalovitchy, Minsk, Belarus. Received 03/01/1996.

**PI 616860. *Fragaria x ananassa* Duchesne**

Breeding. "Venta"; Z 53; CFRA 1600. Certificate 4534.

**PI 616861. *Fragaria x ananassa* Duchesne**

Breeding. "Venta"; V 26.12 53; CFRA 1601. Certificate 4534. Pedigree - selection of cultivated strawberry from Russia.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 11/22/1996.

**PI 616862. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-112; CFRA 1603. Collected 07/06/1996 in Bulgaria. Latitude 41 deg. 57' 24'' N. Longitude 24 deg. 7' 33'' E. Elevation 1067 m. Middle range Rodope mountains near Rakitovo, north exposure. Spruce wood, with *Corylus*, under heavy canopy. Pedigree - collected from the wild in Plovdiv, Bulgaria. USDA Sponsored plant collecting expedition, 1996.

**PI 616863. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-148; CFRA 1604. Collected 07/08/1996 in Bulgaria. Latitude 41 deg. 59' 43'' N. Longitude 24 deg. 47' 26'' E. Elevation 1082 m. Middle range Rodope mountains, north exposure. Growing under black pine near open meadow of grass and vetch. Pedigree - collected from the wild in Plovdiv, Bulgaria.

**PI 616864. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-176; CFRA 1605. Collected 07/09/1996 in Bulgaria. Latitude 41 deg. 41' 52'' N. Longitude 24 deg. 41' 28'' E. Elevation 1219 m. East range of Rodope mountains, 1km south of Chepalari, on steep slope, west exposure. Pedigree - collected from the wild in Plovdiv, Bulgaria.

**PI 616865. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-191; CFRA 1606. Collected 07/10/1996 in Bulgaria. Latitude 41 deg. 39' 59'' N. Longitude 24 deg. 24' 37'' E. Elevation 884 m. Rocky area on side of road near village of Gela, north exposure. Pedigree - collected from the wild in Plovdiv, Bulgaria.

**PI 616866. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-267; CFRA 1607. Collected 07/12/1996 in Bulgaria. Latitude 42 deg. 48' 32'' N. Longitude 24 deg. 38' 0'' E. Elevation 1067 m. North (just over ridge) side of Balkans. In beech (*Fagus*) forest. Pedigree - collected from the wild in Plovdiv, Bulgaria.

**PI 616867. *Fragaria vesca* L.**

Wild. *F. vesca*; B96-312; CFRA 1608. Collected 07/14/1996 in Bulgaria. Latitude 42 deg. 51' 42'' N. Longitude 24 deg. 31' 13'' E. Elevation 991 m. North side of Bulkan mountains, southwest exposure. Pedigree - collected from the wild in Plovdiv, Bulgaria.

The following were donated by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Received 10/24/1996.

**PI 616868. *Fragaria orientalis* Losinsk.**

Wild. *F. orientalis*; 96128; CFRA 1609. Collected 09/1992 in Hubei, China . Latitude 31 deg. 40' N. Longitude 110 deg. 36' E. Elevation 2300 m. Shennongjia Nature Preserve. Mountains. Pedigree - collected from the wild in Hubei, China.

**PI 616869. *Fragaria nilgerrensis* Schltdl. ex J. Gay**

Wild. *F. nilgerrensis*; 96125; CFRA 1610. Collected 09/1996 in Hubei, China. Latitude 31 deg. 40' N. Longitude 110 deg. 36' E. Elevation 0 m. Shennongjia Nature Preserve. Mountains. Pedigree - collected from the wild in Hubei, China.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Sheng Ke Xi, The Chinese Academy of Forestry, Beijing, Beijing, China; Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 10/24/1996.

**PI 616870. *Fragaria orientalis* Losinsk.**

Wild. *F. orientalis*; 96059; CFRA 1611. Collected in China. Latitude 42 deg. 20' N. Longitude 129 deg. 0' E. Elevation 1514 m. Roadside in Changbaishan Nature Preserve near Tiza He (River). Mountains. Pedigree - collected from the wild in Jilin, China.

The following were collected by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 11/22/1996.

**PI 616871. *Fragaria x ananassa* Duchesne**

Breeding. CFRA 1613; Missionary hybrid. Collected 07/1995 in Louisiana, United States. Pedigree - Wild *F. virginiana* introgressed with Missionary.

The following were donated by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 11/22/1996.

**PI 616872. *Fragaria vesca* f. *roseiflora* (Boulay) Staudt**

Breeding. *F. vesca* ssp. *roseiflora*; CFRA 1614. Collected 07/1995. Pedigree - selection of wild *vesca* with slight pink flowers.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/27/1996.

**PI 616873. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-4-1; CFRA 1615. Collected 05/14/1996 in North

Carolina, United States. Latitude 34 deg. 55' 12'' N. Longitude 78 deg. 3' 53'' W. Highway US 117, 1.4 miles north of Magnolia city limits , Duplin county, North Carolina. Roadside on right heading north. Roadside between ditch and woods of mixed pines and hardwoods. Plants scattered with *P. canadensis*, *Rubus* ssp. among grasses and herbs. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616874. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-4-2; CFRA 1616. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 55' 12'' N. Longitude 78 deg. 3' 53'' W. Highway US 117, 1.4 miles north of Magnolia city limits , Duplin county, North Carolina. Roadside on right heading north. Roadside between ditch and woods of mixed pines and hardwoods. Plants scattered with *P. canadensis*, *Rubus* ssp. among grasses and herbs. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616875. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-4-3; CFRA 1617. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 55' 12'' N. Longitude 78 deg. 3' 53'' W. Elevation 0 m. Highway US 117, 1.4 miles north of Magnolia city limits , Duplin county, North Carolina. Roadside on right heading north. Roadside between ditch and woods of mixed pines and hardwoods. Plants scattered with *P. canadensis*, *Rubus* ssp. among grasses and herbs. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616876. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-1; CFRA 1618. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616877. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-2; CFRA 1619. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616878. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-4; CFRA 1621. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616879. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-5; CFRA 1622. Collected 05/14/1996 in North

Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616880. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-6; CFRA 1623. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616881. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-7; CFRA 1624. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616882. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-8; CFRA 1625. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616883. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-5-9; CFRA 1626. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 29'' N. Longitude 77 deg. 14' 21'' W. Roadside on the right, headed north on highway US 17; 1.3 miles south of Chadwick, Jones county, North Carolina. Scattered near woods edge and in disturbed roadside. Primarily pine overstory. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616884. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-6-1; CFRA 1627. Collected 05/14/1996 in North Carolina, United States. Latitude 35 deg. 1' 44'' N. Longitude 77 deg. 7' 46'' W. Scattered along left side of county road 1004, at woods edge, 0.4 miles beyond Island Creek. Jones county, North Carolina. Scattered near woods edge. Rich woods of Beech, hop hornbeam and associated vegetation. *Duchesnea indica*, *P. canadensis*, along with *Rubus* spp., also present. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616885. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-6-2; CFRA 1628. Collected 05/14/1996 in North Carolina, United States. Latitude 35 deg. 1' 44'' N. Longitude 77 deg. 7' 46'' W. Scattered along left side of county road 1004, at woods edge,

0.4 miles beyond Island Creek. Jones county, North Carolina. Scattered near woods edge. Rich woods of Beech, hop hornbeam and associated vegetation. *Duchesnea indica*, *P. canadensis*, along with *Rubus* spp., also present. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616886. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-6-3; CFRA 1629. Collected 05/14/1996 in North Carolina, United States. Latitude 35 deg. 1' 44'' N. Longitude 77 deg. 7' 46'' W. Scattered along left side of county road 1004, at woods edge, 0.4 miles beyond Island Creek. Jones county, North Carolina. Scattered near woods edge. Rich woods of Beech, hop hornbeam and associated vegetation. *Duchesnea indica*, *P. canadensis*, along with *Rubus* spp., also present. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616887. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-7-1; CFRA 1630. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 4' 26'' N. Longitude 77 deg. 9' 31'' W. US highway 17, 5 miles south of junction of US 17 and US 70 in New Bern, Craven county, North Carolina. Roadside on left (heading north), under powerline right-of-way. On the woods side of slope above roadside ditch. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616888. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-7-2; CFRA 1631. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 4' 26'' N. Longitude 77 deg. 9' 31'' W. US highway 17, 5 miles south of junction of US 17 and US 70 in New Bern, Craven county, North Carolina. Roadside on left (heading north), under powerline right-of-way. On the woods side of slope above roadside ditch. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616889. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-7-3; CFRA 1632. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 4' 26'' N. Longitude 77 deg. 9' 31'' W. US highway 17, 5 miles south of junction of US 17 and US 70 in New Bern, Craven county, North Carolina. Roadside on left (heading north), under powerline right-of-way. Extensive colony at woods edge, rich mesic woods, pines and hardwoods. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996

**PI 616890. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* x *ananassa*; NC96-8-1; CFRA 1633. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 8' 21'' N. Longitude 76 deg. 58' 39'' W. Highway 55 east from New Bern, roadsides, between Broad Creek and Olympia Road. Just into Pamlico county, North Carolina. About 35m east of the bridge. Found on dry roadside. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616891. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-8-2; CFRA 1634. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 8' 21'' N. Longitude 76 deg. 58' 39'' W. Elevation 0 m. Highway 55 east from New Bern, roadsides,

between Broad Creek and Olympia Road. Just into Pamlico county, North Carolina. About 35m east of the bridge. Found on dry roadside. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616892. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-9-1; CFRA 1635. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 8' 9'' N. Longitude 76 deg. 53' 27'' W. Highway 55 east, 0.2 miles west of Reelsboro, Pamlico county , North Carolina. Roadside on left along the woods edge. Mature pine overstory, fairly moist site with the usual associates. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616893. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-9-2; CFRA 1636. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 8' 9'' N. Longitude 76 deg. 53' 27'' W. Highway 55 east, 0.2 miles west of Reelsboro, Pamlico county , North Carolina. Roadside on left along the woods edge. Mature pine overstory, fairly moist site with the usual associates. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616894. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* x *ananassa*; NC96-9-3; CFRA 1637. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 8' 9'' N. Longitude 76 deg. 53' 27'' W. Highway 55 east, 0.2 miles west of Reelsboro, Pamlico county , North Carolina. Roadside on left along the woods edge. Mature pine overstory, fairly moist site with the usual associates. Pedigree - selection of wild *F. virginiana* x *ananassa* (probable). Fairly good fruit size, seeds only partly sunken. <br><br>USDA Sponsored plant collecting expedition, 1996.

**PI 616895. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-11-1; CFRA 1638. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 31' 19'' N. Longitude 76 deg. 48' 50'' W. Just past junction of US 246 and county road 1339, powerline right-of-way on right, by highway 264, Beaufort county , North Carolina. Site varies from moist to dry upland, with mixed mature forest adjacent. Ericaceous species fairly abundant, including *Vaccinium* ssp., *Gaylussacia frondosa* and *Rhododendron atlanticum*. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996

**PI 616896. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-11-3; CFRA 1639. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 31' 19'' N. Longitude 76 deg. 48' 50'' W. Just past junction of US 246 and county road 1339, powerline right-of-way on right, by highway 264, Beaufort county , North Carolina. Site varies from moist to dry upland, with mixed mature forest adjacent. Ericaceous species fairly abundant, including *Vaccinium* ssp., *Gaylussacia frondosa* and *Rhododendron atlanticum*. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996

**PI 616897. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-12-1; CFRA 1640. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 53' 21'' N. Longitude 77 deg. 7' 40'' W. County road 1417, 1.6 miles off highway 125, out of Williamston, across Conoho Creek. Martin county, North Carolyn. Roadsides in moderate shade. Rich moist woods, mostly broadleaf species. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616898. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-12-2; CFRA 1641. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 53' 21'' N. Longitude 77 deg. 7' 40'' W. County road 1417, 1.6 miles off highway 125, out of Williamston, across Conoho Creek. Martin county, North Carolyn. Roadsides in moderate shade. Rich moist woods, mostly broadleaf species. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616899. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-13-1; CFRA 1642. Collected 05/16/1996 in North Carolina, United States. Latitude 34 deg. 54' 18'' N. Longitude 76 deg. 55' 2'' W. Right off US 17 onto county road 1521, go 6.6 miles, Right on 1500 go 0.7 miles, turn right on 1519, go 2.4 miles, turn right on 1518, go 0.6 miles. Site is across and uphill from small stream by road. Bertie county, North Carolina. Rich deciduous woods; mostly broad leafed trees. In partial shade to full sun. Baldcypress also present along stream. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616900. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-13-2; CFRA 1643. Collected 05/16/1996 in North Carolina, United States. Latitude 34 deg. 54' 18'' N. Longitude 76 deg. 55' 2'' W. Right off US 17 onto county road 1521, go 6.6 miles, Right on 1500 go 0.7 miles, turn right on 1519, go 2.4 miles, turn right on 1518, go 0.6 miles. Site is across and uphill from small stream by road. Bertie county, North Carolina. Rich deciduous woods; mostly broad leafed trees. In partial shade to full sun. Baldcypress also present along stream. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616901. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-13-3; CFRA 1644. Collected 05/16/1996 in North Carolina, United States. Latitude 34 deg. 54' 18'' N. Longitude 76 deg. 55' 2'' W. Right off US 17 onto county road 1521, go 6.6 miles, Right on 1500 go 0.7 miles, turn right on 1519, go 2.4 miles, turn right on 1518, go 0.6 miles. Site is across and uphill from small stream by road. Bertie county, North Carolina. Rich deciduous woods; mostly broad leafed trees. In partial shade to full sun. Baldcypress also present along stream. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616902. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-14-1; CFRA 1645. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 2' 14'' N. Longitude 76 deg. 35' 7'' W. County road 1114, 1.3 miles southeast of highway 32, south of Edenton, Chowan county, North Carolina. Both roadsides. Typical roadside. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616903. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-14-2; CFRA 1646. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 2' 14'' N. Longitude 76 deg. 35' 7'' W. County road 1114, 1.3 miles southeast of highway 32, south of Edenton, Chowan county, North Carolina. Both roadsides. Typical roadside. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616904. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-14-3; CFRA 1647. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 2' 14'' N. Longitude 76 deg. 35' 7'' W. County road 1114, 1.3 miles southeast of highway 32, south of Edenton, Chowan county, North Carolina. Both roadsides. Typical roadside. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616905. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-15-1; CFRA 1648. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 12' 49'' N. Longitude 76 deg. 26' 39'' W. County road 1220, 0.5 miles north of US highway 17. Vicinity of Cedar Grove Methodist Church. Both roadsides. Perquimans county, North Carolina. Mainly pine overstory, usual associates. Full sun to partial shade. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616906. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-15-2; CFRA 1649. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 12' 49'' N. Longitude 76 deg. 26' 39'' W. County road 1220, 0.5 miles north of US highway 17. Vicinity of Cedar Grove Methodist Church. Both roadsides. Perquimans county, North Carolina. Mainly pine overstory, usual associates. Full sun to partial shade. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616907. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* x *ananassa*; NC96-15-3; CFRA 1650. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 12' 49'' N. Longitude 76 deg. 26' 39'' W. County road 1220, 0.5 miles north of US highway 17. Vicinity of Cedar Grove Methodist Church. Both roadsides. Perquimans county, North Carolina. Mainly pine overstory, usual associates. Full sun to partial shade. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996

**PI 616908. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-16-1; CFRA 1651. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 19' 31'' N. Longitude 76 deg. 10' 27'' W. Highway 158/34, 3.2 miles east of the Pasquotank River in Camden county, North Carolina. Roadside on left under power line right-of-way. Rich mixed woods. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616909. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-16-2; CFRA 1652. Collected 05/16/1996 in North Carolina, United States. Latitude 36 deg. 19' 31'' N. Longitude 76 deg. 10' 27'' W. Highway 158/34, 3.2 miles east of the Pasquotank River in

Camden county, North Carolina. Roadside on left under power line right-of-way. Rich mixed woods. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616910. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-17-1; CFRA 1653. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 25' 12'' N. Longitude 76 deg. 22' 40'' W. Highway 158, 2.1 miles west of the junction with US 17 north from Elizabeth City, Pasquotank county, North Carolina. Road side on the left, just east and across from Mt. Carmel Baptist Church. Roadside adjacent to mixed woods, moist site. Usual associates. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616911. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-17-2; CFRA 1654. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 25' 12'' N. Longitude 76 deg. 22' 40'' W. Highway 158, 2.1 miles west of the junction with US 17 north from Elizabeth City, Pasquotank county, North Carolina. Road side on the left, just east and across from Mt. Carmel Baptist Church. Roadside adjacent to mixed woods, moist site. Usual associates. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

**PI 616912. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; NC96-17-3; CFRA 1655. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 25' 12'' N. Longitude 76 deg. 22' 40'' W. Highway 158, 2.1 miles west of the junction with US 17 north from Elizabeth City, Pasquotank county, North Carolina. Road side on the left, just east and across from Mt. Carmel Baptist Church. Roadside adjacent to mixed woods, moist site. Usual associates. Pedigree - collected from the wild in North Carolina. USDA Sponsored plant collecting expedition, 1996.

The following were collected by Barbara Reed, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 06/09/1997.

**PI 616913. *Fragaria virginiana* Mill. subsp. *virginiana***

Wild. *F. virginiana* ssp. *virginiana*; CFRA 1657. Collected 06/07/1997 in Nebraska, United States. Latitude 41 deg. 38' N. Longitude 95 deg. 55' W. Elevation 0 m. Six miles south and 1/2 mile east of Nebraska City, Otoe county, Nebraska. A native prairie site, used as a hay field. With Phlox and miscellaneous wild flowers and grasses. Pedigree - collected from the wild in Nebraska.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/21/1997.

**PI 616914. *Fragaria virginiana* Mill.**

Wild. *F. virginiana*; CFRA 1659. Collected in Maine, United States.

Latitude 44 deg. 18' N. Longitude 68 deg. 33' W. Elevation 2 m. Acadia National Park, about 10 km south of Bar Harbor along roadside just east of bridge where park loop road crosses Otter Cove. Along roadside, seashore vegetation. Collected 07/11/1997 in Maine, United States. Latitude 44 deg. 18' N. Longitude 68 deg. 33' W. Elevation 2 m. Acadia National Park, about 10 km south of Bar Harbor along roadside just east of bridge where park loop road crosses Otter Cove. Along roadside, seashore vegetation. Pedigree - collected from the wild in Maine.

The following were collected by Catherine Wright, Alaska Plant Materials Ctr., HCO2, Box 7440, Palmer, Alaska 99645, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/18/1997.

**PI 616915. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* S1 Utah; CFRA 1660. Collected 07/26/1997 in Utah, United States. Latitude 41 deg. 0' N. Longitude 111 deg. 45' W. Elevation 2500 m. 0.5 mile on wooden walkway behind the Solitude Nordic Center building. Boggy area, associated with *Potentilla* (marsh fivefinger), *Geum*, *Geranium*, *Carex* and *Epilobium*. Pedigree - collected from the wild in Utah.

**PI 616916. *Fragaria virginiana* Mill.**

Wild. *F. virginiana* S2 Utah; CFRA 1661. Collected 07/26/1997 in Utah, United States. Latitude 41 deg. 0' N. Longitude 111 deg. 45' W. Elevation 2500 m. one mile on wooden walkway behind the Solitude Nordic Center Building. Open wooded area, under white fir growing in organic duff on top of sandy loam. Associated with *Potentilla* (marsh fivefinger), *Geum*, *Geranium*, *Carex*, *Epilobium*, white fir. Pedigree - collected from the wild in North Carolina.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/26/1997.

**PI 616917. *Fragaria vesca* subsp. *bracteata* (A. Heller) Staudt**

Wild. *F. vesca* ssp. *bracteata*; CFRA 1662. Collected in Hawaii, United States. Latitude 20 deg. 42' 30'' N. Longitude 156 deg. 21' 32'' W. Elevation 3000 m. Kula Botanical Garden, Kula, Maui county, Hawaii. Near Polipoli State Park and Haleakala National Park. Southwest facing slope of Haleakala. In shady areas along path edges in sandy loam. Collected 06/27/1997 in Hawaii, United States. Latitude 20 deg. 42' 30'' N. Longitude 156 deg. 21' 32'' W. Elevation 3000 m. Kula Botanical Garden, Kula, Maui county, Hawaii. Near Polipoli State Park and Haleakala National Park. Southwest facing slope of Haleakala. In shady areas along path edges in sandy loam. Pedigree - collected from the wild in Hawaii.

Unknown source. Received 03/10/1998.

**PI 616918. *Fragaria x ananassa*** Duchesne  
Cultivar. "Northeast"; MDUS 4787; CFRA 1664. Pedigree - MDUS 4380 x  
Holiday.

Unknown source. Received 03/24/1998.

**PI 616919. *Fragaria x ananassa*** Duchesne  
Cultivar. "Shortcake"; CFRA 1666. Pedigree - [(Canall x Twentieth  
Century) x Twentieth Century] xOgallala.

Unknown source. Received 03/24/1998.

**PI 616920. *Fragaria x ananassa*** Duchesne  
Cultivar. "September Sweet"; CFRA 1667.

The following were donated by Darby Brothers Farms, Ltd., Bars Hall Farm, West  
Dereham, Kings Lynn, England, United Kingdom. Received 05/20/1998.

**PI 616921. *Fragaria x ananassa*** Duchesne  
Cultivar. "Bolero"; CFRA 1668.

**PI 616922. *Fragaria x ananassa*** Duchesne  
Cultivar. "Pegasus"; CFRA 1670.

**PI 616923. *Fragaria x ananassa*** Duchesne  
Cultivar. "Calypso"; CFRA 1671.

**PI 616924. *Fragaria x ananassa*** Duchesne  
Cultivar. "Eros"; CFRA 1672.

**PI 616925. *Fragaria x ananassa*** Duchesne  
Cultivar. "Tango"; CFRA 1673.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small  
Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United  
States. Received 06/03/1998.

**PI 616926. *Fragaria orientalis*** Losinsk.  
Cultivated. CFRA 1674. Pedigree - Open pollinated seed from CFRA 1612  
seedlings.

Unknown source. Received 07/10/1998.

**PI 616927. *Fragaria orientalis*** Losinsk.  
Wild. CFRA 1676. Collected 06/29/1998 in Khabarovsk, Russian Federation.  
Latitude 49 deg. 0' N. Longitude 132 deg. 29' E. Elevation 0 m. Train  
station market in Bira, Birobijan (Jewish OA) region, Khabarovsk Kray. 3  
hour train ride west of Khabarovsk. Pedigree - Wild fruit sold at  
public market in Bira, Khabarovsk, Russia.

Unknown source. Received 07/10/1998.

**PI 616928. *Fragaria orientalis* Losinsk.**

Wild. CFRA 1677. Collected 07/01/1998 in Khabarovsk, Russian Federation. Latitude 43 deg. 37' N. Longitude 132 deg. 12' E. Elevation 110 m. Roadside in the hills, a short distance south, above VIR (N.I. Vavilov Institute) station, 25k north of Vadivostok. Roadside, dense vegetation including *Actinidia* sp. Pedigree - Collect from the Wild in , Russian Federation.

The following were donated by Clive Simms, Woodhurst, 6 Stamford Rd., Essendine, Stamford, Stamford, England PE9 4LQ, United Kingdom. Received 08/04/1998.

**PI 616929. *Fragaria virginiana* Mill.**

Cultivar. "Little Scarlet"; CFRA 1678. Pedigree - Cultivar grown since the sixteen hundreds.

**PI 616930. *Fragaria x ananassa* Duchesne**

Cultivar. "Eastern Pine"; CFRA 1679. Pedigree - Cultivar grown since the late seventeen hundreds.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/20/1998.

**PI 616931. *Fragaria virginiana* Mill.**

Wild. CFRA 1680. Collected 08/15/1998 in Oregon, United States. Latitude 44 deg. 18' N. Longitude 119 deg. 41' W. Elevation 1828 m. Strawberry Wilderness in Malheur Nation Forest; T14S R34E Sec. 30; Strawberry Lake Campground at end of Forest Road 6001. From Prairie City take Highway 60 (Strawberry Road) south, which becomes Forest Road 6001. Associated with *Fragaria vesca*.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/22/1998.

**PI 616932. *Fragaria virginiana* Mill.**

Wild. KH98-11; Sled Dog 1; CFRA 1681. Collected 08/09/1998 in Alaska, United States. Latitude 64 deg. 49' 54'' N. Longitude 147 deg. 31' 59'' W. Elevation 30 m. Sled Dog RV Park, Badger Loop Road on the banks of the Chena River. About 4 miles east of Fairbanks, Alaska. Soil was dark brown, very sandy-loam, very little organic matter. Associated plants: grasses, ladyfern, red raspberry. Pedigree - Collected from the wild in Alaska.

**PI 616933. *Fragaria virginiana* Mill.**

Wild. KH98-16; Birch Lake; CFRA 1682. Collected 08/10/1998 in Alaska, United States. Latitude 64 deg. 18' 16'' N. Longitude 146 deg. 40' 6'' W. Elevation 23 m. Birch Lake pulloff by lake, milepost xx on Richardson Highway (route 2). Collected from gravel parking area near lake. Associated plants: *Sieboldia*, Yarrow, Grasses, Willow. Pedigree - Collected from the wild in Alaska.

The following were collected by James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Received 07/27/1998.

**PI 616934. *Fragaria chiloensis* subsp. *sandwicensis*** (Decne.) Staudt  
Wild. Maui 2-1; CFRA 1683. Collected 09/1998 in Hawaii, United States. Latitude 20 deg. 56' 0'' N. Longitude 156 deg. 31' 0'' W. Elevation 1900 m. Collected multiple spots along the road to Polipoli Spring State Recreation Area on the slope of the volcano Haleakela, Maui, Hawaii. It is the section of road that runs along the flank of the mountain after you go up all the switchbacks. The soil was a layer of humus over volcanic ash and pumice. Mostly typical Hawaiian sub-alpine scrub with exotic forest species of California Redwood, Douglas Fir and Western Red Cedar; growing in the damp fog/cloud zone. Pedigree - Collected from the wild in Hawaii.

The following were donated by Thompson & Morgan Seed Co., 220 Faraday Avenue, P.O. Box 1308, Jackson, New Jersey 08527-0308, United States. Received 02/05/1999.

**PI 616935. *Fragaria vesca* L.**  
Cultivar. "Mignonette"; CFRA 1686.

The following were developed by David K. Wildung, University of Minnesota, North Central Research and Outreach Center, 1861 E. Highway 169, Grand Rapids, Minnesota 55744, United States; G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by Indiana Berry and Fruit Co., 5218 West 500 S., Huntingburg, Indiana 47542, United States. Received 02/25/1999.

**PI 616936. *Fragaria x ananassa* Duchesne**  
Cultivar. "Mesabi"; MNUS 248; CFRA 1687. pending. Pedigree - Glooscap x MNUS 99. Mesabi (MNUS 248) strawberry is a mid-season, Junebearing (short day) strawberry (*Fragaria x ananassa*) that is notable for high productivity and being tolerant of cold winter and warm summer temperatures that are typical of the continental climate of Minnesota where it was developed. It will likely be useful for strawberry producers in the Midwestern and Northeastern U.S. and adjacent parts of Canada. Mesabi strawberry has been productive in matted row production systems on soils of heavy and light texture in Minnesota and in hill systems in Maryland. Plants of Mesabi strawberry are resistant to five eastern North American races of *Phytophthora fragariae*, the causal organism of red stele root rot and moderate resistance to leaf spot, leaf scorch and powdery mildew. Mesabi is from the cross of Glooscap x MNUS 99. The word Mesabi is a transliteration of the Ojibway word for "giant" and is a popular geographical name in northern Minnesota. Mesabi strawberry has generally produced.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Ted Mackey, Horticultural Crops Research Laboratory, 3420 Orchard

St., Corvallis, Oregon 97330, United States; Suzanna Yorgey, Oregon State University, Corvallis, Oregon, United States; Kirsten Wennstrom, Oregon State University, Department of Horticulture, Lewis-Brown Farm, Corvallis, Oregon 97331, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/19/1994.

**PI 616937. *Fragaria virginiana* Mill.**

Wild. CFRA 1688. Collected 08/1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.

Unknown source. Received 04/27/2000.

**PI 616938. *Fragaria virginiana* Mill.**

Wild. CFRA 1705. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616939. *Fragaria virginiana* Mill.**

Wild. CFRA 1706. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616940. *Fragaria virginiana* Mill.**

Wild. CFRA 1707. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616941. *Fragaria virginiana* Mill.**

Wild. CFRA 1708. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616942. *Fragaria x ananassa* Duchesne**

Wild. CFRA 1709. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616943. *Fragaria virginiana* Mill.**

Wild. CFRA 1710. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616944. *Fragaria virginiana* Mill.**

Wild. CFRA 1711. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616945. *Fragaria virginiana* Mill.**

Wild. CFRA 1712. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616946. *Fragaria virginiana* Mill.**

Wild. CFRA 1713. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616947. *Fragaria virginiana* Mill.**

Wild. CFRA 1714. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616948. *Fragaria virginiana* Mill.**

Wild. CFRA 1715. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616949. *Fragaria virginiana* Mill.**

Wild. CFRA 1716. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616950. *Fragaria virginiana* Mill.**

Wild. CFRA 1717. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616951. *Fragaria virginiana* Mill.**

Wild. CFRA 1718. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616952. *Fragaria virginiana* Mill.**

Wild. CFRA 1719. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616953. *Fragaria virginiana* Mill.**

Wild. CFRA 1720. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616954. *Fragaria virginiana* Mill.**

Wild. CFRA 1721. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616955. *Fragaria virginiana* Mill.**

Wild. CFRA 1722. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616956. *Fragaria virginiana* Mill.**

Wild. CFRA 1723. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616957. *Fragaria virginiana* Mill.**

Wild. CFRA 1724. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616958. *Fragaria virginiana* Mill.**

Wild. CFRA 1725. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616959. *Fragaria virginiana* Mill.**

Wild. CFRA 1726. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616960. *Fragaria virginiana* Mill.**

Wild. CFRA 1727. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616961. *Fragaria virginiana* Mill.**

Wild. CFRA 1728. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616962. *Fragaria virginiana* Mill.**

Wild. CFRA 1729. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616963. *Fragaria virginiana* Mill.**

Wild. CFRA 1730. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616964. *Fragaria virginiana* Mill.**

Wild. CFRA 1731. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616965. *Fragaria virginiana* Mill.**

Wild. CFRA 1732. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616966. *Fragaria virginiana* Mill.**

Wild. CFRA 1733. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616967. *Fragaria virginiana* Mill.**

Wild. CFRA 1734. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616968. *Fragaria virginiana* Mill.**

Wild. CFRA 1735. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616969. *Fragaria virginiana* Mill.**

Wild. CFRA 1736. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616970. *Fragaria virginiana* Mill.**

Wild. CFRA 1737. Pedigree - Collected from the wild in Arkansas.

Unknown source. Received 04/27/2000.

**PI 616971. *Fragaria virginiana* Mill.**

Wild. CFRA 1738. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616972. *Fragaria virginiana* Mill.**

Wild. CFRA 1739. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616973. *Fragaria virginiana* Mill.**

Wild. CFRA 1740. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616974. *Fragaria x ananassa*** Duchesne

Wild. CFRA 1741. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 04/27/2000.

**PI 616975. *Fragaria virginiana*** Mill.

Wild. CFRA 1742. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616976. *Fragaria virginiana*** Mill.

Wild. CFRA 1743. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616977. *Fragaria virginiana*** Mill.

Wild. CFRA 1744. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616978. *Fragaria virginiana*** Mill.

Wild. CFRA 1745. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616979. *Fragaria virginiana*** Mill.

Wild. CFRA 1746. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616980. *Fragaria virginiana*** Mill.

Wild. CFRA 1747. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616981. *Fragaria virginiana*** Mill.

Wild. CFRA 1748. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616982. *Fragaria virginiana*** Mill.

Wild. CFRA 1749. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616983. *Fragaria virginiana* Mill.**

Wild. CFRA 1750. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616984. *Fragaria virginiana* Mill.**

Wild. CFRA 1751. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616985. *Fragaria virginiana* Mill.**

Wild. CFRA 1752. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616986. *Fragaria virginiana* Mill.**

Wild. CFRA 1753. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616987. *Fragaria virginiana* Mill.**

Wild. CFRA 1754. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616988. *Fragaria virginiana* Mill.**

Wild. CFRA 1755. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616989. *Fragaria virginiana* Mill.**

Wild. CFRA 1756. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616990. *Fragaria virginiana* Mill.**

Wild. CFRA 1757. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616991. *Fragaria virginiana* Mill.**

Wild. CFRA 1758. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616992. *Fragaria virginiana* Mill.**

Wild. CFRA 1759. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616993. *Fragaria virginiana* Mill.**

Wild. CFRA 1760. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616994. *Fragaria virginiana* Mill.**

Wild. CFRA 1761. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616995. *Fragaria virginiana* Mill.**

Wild. CFRA 1762. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616996. *Fragaria virginiana* Mill.**

Wild. CFRA 1763. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 04/27/2000.

**PI 616997. *Fragaria virginiana* Mill.**

Wild. CFRA 1764. Pedigree - Collected from the wild in North Carolina.

The following were developed by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 04/14/2000.

**PI 616998. *Fragaria x ananassa* Duchesne**

Cultivar. "Independence"; ORUS 1076-126; CFRA 1765. Pedigree - ORUS 850-48 ('Linn' x ORUS 3727) x ORUS 750-1 ('Totem' x ORUS 3746).

'Independence', a June-bearing strawberry (*Fragaria x ananassa* Duch.), was tested as ORUS 1076-126, selected in 1985 from the cross ORUS 850-48 ('Linn' x ORUS 3727) x ORUS 750-1 ('Totem' x ORUS 3746). 'Independence' has had consistently high yields in Oregon and Washington, higher than 'Totem' and 'Puget Reliance' in the first and second seasons in Oregon. In Washington, yields have been similar to 'Totem'. 'Independence' has shown much greater tolerance to root weevils in naturally infested fields than 'Totem' or 'Puget Reliance'. In Oregon, 'Independence' has been more tolerant of adverse winter conditions than 'Totem'.

'Independence' fruit are similar in size or slightly larger than 'Totem'. The fruit is wedge shaped with pronounced ridges on the primary fruit. The fruit have been rated excellent as a processed product, however, the fruit are extremely difficult to cap. Fruit is firm with a fairly tough skin. The flavor is excellent although it tends to be acidic.

Unknown source. Received 10/23/1996.

**PI 616999. *Fragaria x ananassa*** Duchesne  
Cultivated. CFRA 1766.

Unknown source. Received 10/23/1996.

**PI 617000. *Fragaria x ananassa*** Duchesne  
Cultivated. CFRA 1767.

Unknown source. Received 10/23/1996.

**PI 617001. *Fragaria chiloensis*** (L.) Mill.  
Cultivated. CFRA 1768. Pedigree - Collected from commercial field.

Unknown source. Received 10/23/1996.

**PI 617002. *Fragaria x ananassa*** Duchesne  
Cultivated. CFRA 1769.

Unknown source. Received 10/23/1996.

**PI 617003. *Fragaria x ananassa*** Duchesne  
Cultivated. CFRA 1770.

Unknown source. Received 10/23/1996.

**PI 617004. *Fragaria chiloensis*** (L.) Mill.  
Cultivated. NAH 12; CFRA 1771. Pedigree - Collected from commercial field.

Unknown source. Received 10/23/1996.

**PI 617005. *Fragaria x ananassa*** Duchesne  
Cultivated. CFRA 1772.

Unknown source. Received 06/09/2000.

**PI 617006. *Fragaria x ananassa*** Duchesne  
Cultivar. "Firecracker"; CFRA 1773. Developed in United States.  
Pedigree - ORUS 850-48 (Linn x ORUS 3727) x Totem.

Unknown source. Received 08/16/2000.

**PI 617007. *Fragaria hybrid***  
Cultivar. CFRA 1776. Pedigree - Kogyoku(Fairfax self seedling) x Tahoe.

Unknown source. Received 08/16/2000.

**PI 617008. *Fragaria hybrid***

Cultivar. CFRA 1777. Pedigree - Kurume 49 (Toyonoka x Nyoho) x Tochinomine (Kei 511(Florida 69-266 x Reiko) x Nyoho).

Unknown source. Received 08/16/2000.

**PI 617009. *Fragaria hybrid***

Cultivar. CFRA 1778.

Unknown source. Received 08/16/2000.

**PI 617010. *Fragaria hybrid***

Cultivar. CFRA 1779. Pedigree - Kei 210 x Reiko.

Unknown source. Received 05/10/2000.

**PI 617011. *Fragaria chiloensis* (L.) Mill.**

Cultivar. CFRA 1781.

Unknown source. Received 09/27/2000.

**PI 617012. *Fragaria x ananassa* Duchesne**

Cultivar. "Arnika"; CFRA 1782. Pedigree - Talisman x Guardsman.

Unknown source. Received 09/27/2000.

**PI 617013. *Fragaria x ananassa* Duchesne**

Cultivar. "Brandenburg"; CFRA 1783. Pedigree - Luiza x Deutch Evern.

Unknown source. Received 09/27/2000.

**PI 617014. *Fragaria x ananassa* Duchesne**

Cultivar. "Desna"; CFRA 1784. Pedigree - Oesluhoanka x Red Coat.

Unknown source. Received 09/27/2000.

**PI 617015. *Fragaria x ananassa* Duchesne**

Cultivar. "Fratina"; CFRA 1785. Pedigree - Valentine x Senga Sengana.

Unknown source. Received 09/27/2000.

**PI 617016. *Fragaria x ananassa* Duchesne**

Cultivar. "Gaja"; CFRA 1786.

Unknown source. Received 09/27/2000.

**PI 617017. *Fragaria x ananassa* Duchesne**

Cultivar. "Istochnik"; CFRA 1787. Pedigree - Pocahontas x Grenadier.

Unknown source. Received 09/27/2000.

**PI 617018. *Fragaria x ananassa*** Duchesne  
Cultivar. "Jaune"; CFRA 1788. Pedigree - Talisman x Grenadier.

Unknown source. Received 09/27/2000.

**PI 617019. *Fragaria x ananassa*** Duchesne  
Cultivar. "Jonsok"; CFRA 1789. Pedigree - Senga Sengana x Valentine.

Unknown source. Received 09/27/2000.

**PI 617020. *Fragaria x ananassa*** Duchesne  
Cultivar. "Kama"; CFRA 1790. Pedigree - Senga Sengana x Cavalier.

Unknown source. Received 09/27/2000.

**PI 617021. *Fragaria x ananassa*** Duchesne  
Cultivar. "Lambada"; CFRA 1791. Pedigree - (Sivetta x Holiday) x.

Unknown source. Received 09/27/2000.

**PI 617022. *Fragaria x ananassa*** Duchesne  
Cultivar. "Lavril"; CFRA 1792.

Unknown source. Received 09/27/2000.

**PI 617023. *Fragaria x ananassa*** Duchesne  
Cultivar. "Lihamma"; CFRA 1793.

Unknown source. Received 09/27/2000.

**PI 617024. *Fragaria x ananassa*** Duchesne  
Cultivar. "Lvovskaya Rannaya"; CFRA 1794. Pedigree - Korallova 100 x  
Kijevskaja Raoaja.

Unknown source. Received 09/27/2000.

**PI 617025. *Fragaria x ananassa*** Duchesne  
Cultivar. "Prisvyata"; CFRA 1795.

The following were developed by Chao-Chien Jan, USDA, ARS, North Dakota State University, Northern Crop Science Laboratory, Fargo, North Dakota 58105, United States; Jose Fernandez-Martinez, Instituto de Agricultura Sostenible, Apartado 4084, Alameda del Obispo s/n, Cordoba, Cordoba 14080, Spain; J. Ruso, Instituto de Agricultura Sostenible, Dept. de Mejora y Agronomia, CSIC, Apt. 4084, E-14080, Cordoba, Cordoba, Spain; J. Munoz-Ruz, Instituto de Agricultura Sostenible, Dept. de Mejora y Agronomia, CSIC, Apdo. 4084,

E-14080, Cordoba, Cordoba, Spain. Donated by Chao-Chien Jan, USDA, ARS, North Dakota State University, Northern Crop Science Laboratory, Fargo, North Dakota 58105, United States. Received 03/02/2001.

**PI 617026. *Helianthus annuus* L.**

Breeding. Population. BR1. GP-262. Pedigree - P21 ms//H. grosseserratus-001/P21,PD/3/HA89, sib. Plant height 122 cm. Flowers 59 days after planting. Seeds black with 54 g/1000 seed weight, and self-pollinated seed set 72% indicating good self-compatibility. Plants nonbranched. Resistance genes against broomrape, including the new race, race F, recently identified in Spain.

**PI 617027. *Helianthus annuus* L.**

Breeding. Population. BR2. GP-263. Pedigree - H. maximiliani-004/P21,D//P21/3/HA89, sib. Plant height 147 cm. Flowers 64 days after planting. Seeds black with 61 g/1000 seed weight, and self-pollinated seed set of 82%, indicating good self-compatibility. Plants nonbranched. Resistance genes against broomrape, including the new race, race F, recently identified in Spain.

**PI 617028. *Helianthus annuus* L.**

Breeding. Population. BR3. GP-264. Pedigree - H. divaricatus-830/P21,D//P21/3/HA89, self. Plant height 139 cm. Flowers 71 days after planting. Seeds black with 26 g/1000 seed weight, and self-pollinated seed set of 49%, indicating good self-compatibility. Plants multibranched. Resistance genes against broomrape, including the new race, race F, recently identified in Spain.

**PI 617029. *Helianthus annuus* L.**

Breeding. Population. BR4. GP-265. Pedigree - H. divaricatus-830/P21,D/2/H. grosseserratus-001/P21,D/3/P21/4/HA89,sib. Plant height 103 cm. Flowers 60 days after planting. Seeds black with 47 g/1000 seed weight, and self-pollinated seed set of 66%, indicating good self-compatibility. Plants nonbranched. Resistance genes against broomrape, including the new race, race F, recently identified in Spain.

The following were developed by F.M. Bourland, University of Arkansas, Dept. of Agronomy, PTSC 115, Fayetteville, Arkansas 72701, United States; C. Wayne Smith, Texas A&M University, Department of Soil and Crop Sciences, College Station, Texas 77841, United States. Received 02/26/2001.

**PI 617030. *Gossypium hirsutum* L.**

Breeding. Pureline. Arkot A306. GP-732. Pedigree - Rex 713 / Delcot 277J // DES 422. Morphological traits similar to DES 422 and DES 119. In 23 tests (1989-1995) in Mississippi River Delta, yielded 94% as much as DES 119, was early maturing (4% higher open boll percentage) and had higher HVI fiber bundle strength (12 kN m kg-1 stronger), but had lower lint percentage (1.5% less), shorter fiber length (1.3 mm less), and a lower fiber elongation (0.3% less) than DES 119. More susceptible than DES 119 to tarnished plant bug (*Lygus lineolari*) in field tests, but more resistant than the frego-bract susceptible check. In the Regional Cotton Fusarium Wilt Test at Tallassee, AL, resistance to fusarium wilt (*Fusarium oxysporum*) was equal to the resistant check.

**PI 617031. *Gossypium hirsutum* L.**

Breeding. Pureline. Arkot A314. GP-733. Pedigree - Rex 713 / Delcot 277J

// Stoneville 7A / PD 2164. Morphological traits similar to DES 422 and DES 119. In six tests from 1997 through 1999 at four Arkansas Agricultural Research Station sites in the Mississippi River Delta, was equal in yield and fiber length, was earlier maturing (4% higher open boll percentage), and had higher HVI fiber bundle strength (4 kN m kg<sup>-1</sup> stronger) than SureGrow 125. Lower lint percentage (1.6% less), lower fiber elongation (0.9% less) and higher micronaire reading (0.15 units) than SureGrow 125.

The following were developed by T.J. Martin, Kansas State University, Agric. Research Center-Hays, 1232 240th Avenue, Hays, Kansas 67601, United States. Received 03/22/2001.

**PI 617032. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "LAKIN"; KS96HW115. PVP 200200049. Pedigree - KS89H130 / Arlin. Hard white, semi-dwarf wheat with a winter growth habit and medium maturity. Resistant to soilborne mosaic virus and has a moderate level of resistance to wheat streak mosaic virus and barley yellow dwarf mosaic virus. Good bread baking cultivar. Medium to medium-strong mixing stren.

**PI 617033. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "STANTON"; KS95H167-3. PVP 200200050. Pedigree - PI 220350 / KS87H57 // TAM200 / KS87H66 /3/KS87H325. Hard red winter, tall semi-dwarf wheat with medium late maturity. Adapted to dryland production in western Kansas. Resistant to Russian wheat aphid (*Diuraphis noxia*), leaf rust (*Puccinia recondita*), and stem rust (*P. graminis*). Moderately resistant to wheat streak mosaic and Hessian fly (*Mayetiola destructor*). Medium-strong dough mixing characters and has good overall baking characters.

The following were developed by Patrick M. Hayes, Oregon State University, Department of Crop Science, Crop Science Building 107, Corvallis, Oregon 97331-3002, United States; Larry Robertson, University of Idaho, Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210-0530, United States; Chia-Tsang Liu, University of Idaho, Ag. Coop. Extension, 1214 Joseph St., Moscow, Idaho 83843, United States; Russ S. Karow, Oregon State University, Dept. of Crop & Soil Science, Corvallis, Oregon 97331-3002, United States; Roland F. Line, USDA, ARS, Washington State University, 361 Johnson Hall, Pullman, Washington 99164, United States; Steven E. Ullrich, Washington State University, Department of Crop & Soil Sciences, Pullman, Washington 99164-6420, United States; Darrell M. Wesenberg, USDA, ARS, National Small Grains Germplasm, Research Facility, Aberdeen, Idaho 83210, United States; Vadim Jitkov, Washington State University, Dept. of Crop & Soil Sciences, Pullman, Washington 99164-6420, United States; Carl E. Muir, Washington State University, Washington Agric. Exp. Station, Dept. of Agronomy & Soils, Pullman, Washington, United States; Patrick E. Reisenauer, Washington State University, Crop & Soil Department, Ag. Research Tech., Pullman, Washington 99164-6420, United States; J.W. Burns, Washington State University, Dept. of Crop and Soil Sciences, Pullman, Washington 99164-6420, United States; Xianming Chen, USDA-ARS, Washington State University, 361 Johnson Hall, Pullman, Washington 99164-6430, United States. Received 03/09/2001.

**PI 617034. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. Pureline. "FARMINGTON"; WA9504-94. CV-302. Pedigree -

Klages/WA8189-69(WA10698-76)//Pirolina SD Mutant/Valticky SD Mutant (WA8517-74) (WA7190-86)/3/Maresi. Released 2001. Two-row spring covered semi-dwarf feed barley with adaptation to mid to high precipitation and irrigated areas in eastern Washington and adjoining areas of Idaho and Oregon and partial resistance or tolerance to barley stripe rust (*Puccinia stiiiformis*). Heads lax and nodding. Awns long and rough, kernels covered, with white alucon, long rachilla hairs, narrow crease, promi.

The following were developed by HZPC Holland B.V., Netherlands. Received 03/22/2001.

**PI 617035 PVPO. *Solanum tuberosum* L.**  
Cultivar. "REMARKA". PVP 9700117.

The following were developed by C. Meijer, B.V., Netherlands. Received 03/22/2001.

**PI 617036 PVPO. *Solanum tuberosum* L.**  
Cultivar. "LADY ROSETTA". PVP 9700191.

The following were developed by Melodee L. Fraser, Pure Seed Testing, Inc., P.O. Box 176, 606 Main Street, Rolesville, North Carolina 27571, United States. Received 03/23/2001.

**PI 617037. *Festuca longifolia* Thuill.**  
Cultivar. Population. "AURORA GOLD"; PST-4RU. Pedigree - Origin traces to Aurora hard fescue and resulted from five cycles of phenotypic recurrent selection for tolerance to glyphosate. Exhibits resistance to glyphosate in both turf and seed production.

**PI 617038. *Festuca arundinacea* Schreb.**  
Cultivar. Population. "PURE GOLD"; PST-5DU. Pedigree - Advanced-generation synthetic selected from the progenies of 20 parental clones. These 20 parents were selected from three separate glyphosate screening trials. These parents trace their maternal origins to the following sources: five from Coronado, one from Shortstop, four from Apache II, one from Safari, two from Tomahawk, one from Murietta, two from Matador, three from 5 RU and one from Bonsai. Exhibits resistance to applications of glyphosate both in seed production and in turf.

The following were developed by A. Doug Brede, J.R. Simplot Co., 5300 West Riverbend Avenue, Post Falls, Idaho 83854-9499, United States; S.H. Samudio, J.R. Simplot Co., 5300 West Riverbend Avenue, Post Falls, Idaho 83854-9499, United States. Received 03/23/2001.

**PI 617039. *Lolium perenne* L.**  
Cultivar. "GOALKEEPER"; J-1704. CV-218. Pedigree - Developed from the maternal progenies of 21 clones, tracing to plants maternally selected from: 9.5% Advent, 19% Allaire, 9.5% APM, 4.8% Fiesta II, 14.3% Morningstar, 9.5% Saturn, and 9.5% SR4000 perennial ryegrass varieties, 14.3% from advanced generation progeny from PI 231590 and 9.5% from an Elka hybrid. Plant height in Oregon averaged 50.6 cm and flag leaf

length and width 9.6 cm and 4.0 mm, respectively. Moderate resistance to pink snow mold (*Microdochium nivale*) and net blotch (*Drechslera dictyoides*), and moderate to good resistance to dollar spot (*Lanzia* and *Moellerodiscus* spp.).

The following were developed by William D. Branch, University of Georgia, Coastal Plain Experiment Station, Department of Crop and Soil Sciences, Tifton, Georgia 31794-0748, United States. Received 03/02/2001.

**PI 617040. *Arachis hypogaea* L.**

Cultivar. "GEORGIA VALENCIA"; GA 952514. CV-69; PVP 200100132. Pedigree - Georgia Red / UF85I79. Large-podded valenica market type peanut. For four consecutive years (1996-99), produced a significantly higher yield and dollar value return per acre (approx. 30-40%) and significantly larger pod size (>25% more fancy pods) than Georgia Red. Comparable to Georgia Red in disease tolerance. Similar to Georgia Red in having a compact bunch growth habit, maturity of between 110-125 days after planting in south Georgia, number of seed per pod (averaged 20-25% 4 seed pod-1, 60-65% 3 seed pod-1, and 10-15% 2 seed pod-1), red testa color, protein and oil content, O/L ratio, and roasted and boiled flavor.

The following were developed by Emerson R. Shipe, Clemson University, Department of Crop & Soil, Environmental Science, Clemson, South Carolina 29634-0359, United States. Received 03/22/2001.

**PI 617041. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "Santee"; SC91-2007; SY0107001. PVP 200100207.

The following were developed by Texas Agricultural Experiment Station, Texas, United States. Received 03/23/2001.

**PI 617042 PVPO. *Gossypium hirsutum* L.**

Cultivar. "TAMCOT PYRAMID". PVP 200100114.

The following were developed by Phytogen Seed Company, LLC, United States. Received 03/23/2001.

**PI 617043 PVPO. *Gossypium hirsutum* L.**

Cultivar. "PHY 72 Acala". PVP 200100115.

The following were developed by Pure Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 03/23/2001.

**PI 617044 PVPO. *Cynosurus cristatus* L.**

Cultivar. "SHADE STAR". PVP 200100116.

The following were developed by Joe W. Burton, USDA-ARS, North Carolina State University, Department of Crop Science, Raleigh, North Carolina 27695-7631, United States. Received 04/04/2001.

**PI 617045. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "NC Roy"; N94-552; SY 105001. PVP 200100220.  
Pedigree - Holladay x Brim. NC-Roy is maturity group VI cultivar. It has good resistance to lodging and soybean mosaic virus. It is susceptible to both cyst and root knot nematodes. It has white flowers, gray pubescence, buff-hila, and brown pod walls.

The following were developed by California Planting Cotton Seed Distributors, 30597 Jack Ave., Shafter, California 93263, United States. Received 03/23/2001.

**PI 617046 PVPO. *Gossypium hirsutum* L.**

Cultivar. "Acala GLS". PVP 200100118.

**PI 617047 PVPO. *Gossypium hirsutum* L.**

Cultivar. "Acala Riata RR". PVP 200100119.

The following were developed by Phytogen Seed Company, LLC, United States. Received 03/23/2001.

**PI 617048 PVPO. *Gossypium hirsutum* L.**

Cultivar. "PHY 76 Pima". PVP 200100120.

The following were developed by Sakata Seed Corporation, Japan. Received 03/23/2001.

**PI 617049 PVPO. *Catharanthus roseus* (L.) G. Don**

Cultivar. "Kakegawa EP1". PVP 200100121.

**PI 617050 PVPO. *Catharanthus roseus* (L.) G. Don**

Cultivar. "Kakegawa EP2". PVP 200100122.

**PI 617051 PVPO. *Catharanthus roseus* (L.) G. Don**

Cultivar. "Kakegawa EP6". PVP 200100123.

**PI 617052 PVPO. *Catharanthus roseus* (L.) G. Don**

Cultivar. "Kakegawa EP7". PVP 200100124.

The following were developed by Virginia Tech Intellectual Properties, Inc., Virginia, United States. Received 03/23/2001.

**PI 617053 PVPO. *Triticum aestivum* L.**

Cultivar. "SISSON". PVP 200100125.

**PI 617054 PVPO. *Triticum aestivum* L.**

Cultivar. "CENTURY II". PVP 200100126.

**PI 617055 PVPO. *Triticum aestivum* L.**

Cultivar. "USG 3209". PVP 200100127.

The following were developed by AgResearch Limited, New Zealand. Received 03/23/2001.

**PI 617056 PVPO. Bromus catharticus Vahl var. catharticus**  
Cultivar. "LAKOTA". PVP 200100128.

**PI 617057 PVPO. Bromus catharticus Vahl var. catharticus**  
Cultivar. "GRASSLANDS DIXON". PVP 200100129.

The following were developed by Pure Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 03/23/2001.

**PI 617058 PVPO. Poa trivialis L.**  
Cultivar. "WINTERSTAR". PVP 200100130.

The following were developed by California Planting Cotton Seed Distributors, 30597 Jack Ave., Shafter, California 93263, United States. Received 03/23/2001.

**PI 617059 PVPO. Gossypium hirsutum L.**  
Cultivar. "Acala BXN Nova". PVP 200100131.

The following were developed by Mark A. Brick, Colorado State University, Department of Soil and Crop Sciences, Fort Collins, Colorado 80521, United States; H.F. Schwartz, Colorado State University, Dept. of Plant Pathology and Weed Science, Fort Collins, Colorado 80523, United States; Calvin H. Pearson, Colorado State University, Agricultural Experiment Station, Western Colorado Research Center - Fruita, Fruita, Colorado 81521, United States; J.B. Ogg, Colorado State University, Dept. of Soil and Crop Sciences, Fort Collins, Colorado 80523, United States; J.J. Johnson, Colorado State University, Dept. of Soil and Crop Sciences, Fort Collins, Colorado 80523, United States; F. Judson, Fruita Research Station, 1910 L Road, Fruita, Colorado 81521, United States. Received 03/23/2001.

**PI 617060. Phaseolus vulgaris L.**  
Cultivar. "SHINY CROW". CV-198; PVP 200100133. Pedigree - Derived from a single plant selection in 1988 from a segregating experimental line obtained from CIAT, Cali, Colombia. The original line designation was not correctly registered in the field book, consequently the pedigree is not known. The single plant selection was planted to a plant-row in 1989 at Fruita, Colorado. The seed produced from this row was bulked and increased for initial yield testing at Fort Collins, CO. From the bulk seed, forty single plants were grown in plant-rows. Among the 4. Combines mid-season maturity (95-98 d in Colorado, 98-101 d in the Northern Great Plains), high yield potential, resistance to bean common mosaic virus, and adaptation to the High Plains. Carries the dominant I gene which confers resistance to all pathogroups of bean common mosaic virus. Susceptible to the white mold pathogen (*Sclerotinia sclerotiorum*) based on the straw test and to rust (*Uromyces appendiculatus*) based on the field observations and greenhouse evaluation. Has prostrate Type III (CIAT classification).

The following were developed by Robert A. Graybosch, USDA-ARS, University of Nebraska, Dept. of Agronomy, 344 Keim Hall, Lincoln, Nebraska 68583, United States. Received 03/23/2001.

**PI 617061. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. NW97S343; NSGC 8690. Pedigree - N91L122/Arlin. Hard white winter wheat.

**PI 617062. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. NW96S016; NSGC 8691. Pedigree - Rio Blanco//NIAVT13/Vee 'S'. Hard white winter wheat.

**PI 617063. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. NW97S154; NSGC 8692. Pedigree - KSSB-192-3/NE89529. Hard white winter wheat.

**PI 617064. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. N95L11881; NSGC 8693. Pedigree - Siouxland/2\*N86L177. Hard red winter wheat.

**PI 617065. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 97L9520; NSGC 8694. Pedigree - Siouxland/4\*N86L177. Hard red winter wheat.

**PI 617066. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 97L9521; NSGC 8695. Pedigree - Siouxland/4\*N86L177. Hard red winter wheat.

**PI 617067. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 97L9522; NSGC 8696. Pedigree - Siouxland/4\*N86L177. Hard red winter wheat.

**PI 617068. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 97L9531; NSGC 8697. Pedigree - Siouxland/4\*N86L177. Hard red winter wheat.

**PI 617069. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 96MD7413-58; NSGC 8698. Pedigree - NE90616/Ike. Hard red winter wheat.

**PI 617070. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 96MD7413-36; NSGC 8699. Pedigree - NE90616/Ike. Hard red winter wheat.

**PI 617071. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 96MD7110-71; NSGC 8700. Pedigree - MT8713/NE87612//Ike. Hard red winter wheat.

The following were developed by Kimberlee Kidwell, Washington State University, Dept. of Crop & Soil Sciences, Pullman, Washington 99164-6420, United States. Received 03/26/2001.

**PI 617072. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "MACON"; WA007899; NSGC 8701. PVP 200200130. Pedigree - Serra/WPB00926//Tan. 'S'/Pen. 'S'. Hard white spring wheat. Semi-dwarf, awned, mid-season maturity, white straw and white glumes. Broadly adapted to a wide range of production conditions across eastern Washington as a replacement for Idaho 377s and Winsome due to its resistance to the Hessian fly and superior bread baking quality.

Demonstrated tolerance to the Hessian fly in natural field infestations. Susceptible to the Russian wheat aphid. Moderately resistant to stripe rust. Yield potential is slightly lower than Idaho 377s and similar to Winsome. Test weight is slightly lower than Idaho 377s but similar to Winsome. Grain protein concentrations are similar to Idaho 377s and Winsome. Acceptable noodle color; soft noodle texture. Outstanding bread baking quality. Pup loaf volumes are significantly higher than Idaho 377s and Winsome and similar to Klasic. High molecular weight glutenin subunits of 2\*(1A), 17+18(1B), and 5+10(1D).

The following were developed by Craig F. Morris, USDA-ARS, Western Wheat Quality Lab., E-202 FSHN Facility East, Pullman, Washington 99164-6394, United States; Jimmie H. Hatchett, USDA-ARS, Dept of Entomology, Waters Hall, Manhattan, Kansas 66506-4004, United States; Kimberlee Kidwell, Washington State University, Dept. of Crop & Soil Sciences, Pullman, Washington 99164-6420, United States; G.S. Shelton, Washington State University, Dept. of Crop and Soil Sciences, Pullman, Washington 99164-6420, United States; Xianming Chen, USDA-ARS, WSU - Wheat Genetics Unit, PO Box 646430, Pullman, Washington 99164-6430, United States; J.W. Burns, Washington State University, Dept. of Crop and Soil Sciences, Pullman, Washington 99164-6420, United States; B.P. Carter, Washington State University, Dept. of Crop and Soil Sciences, Pullman, Washington 99164-6420, United States. Received 03/26/2001.

**PI 617073. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "TARA"; WA007824; NSGC 8702. CV-919; PVP 200200129. Pedigree - Kodiak/Spillman//WPB 906R. Hard red spring wheat. Semi-dwarf, awned, mid-season maturity, white straw and white glumes. Targeted to the Northeastern and Southeastern production regions of Washington State as a replacement for Westbred 926 due to its resistance to the Hessian fly, high yield potential and superior bread baking quality. Demonstrated resistance to the Hessian fly in natural infestations as well as controlled insect screening trials. Susceptible to the Russian wheat aphid. Moderately resistant to stripe rust and leaf rust. Outstanding gluten strength compared to other hard red spring wheat varieties in commercial production in the Pacific Northwest. Test weight is higher than Westbred 926, however its grain protein concentration is typically 0.5% lower. High molecular weight glutenin subunits of 2\*(1A), 17+18(1B) and 5+10(1D).

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Calvin R. Sperling, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 402, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 09/15/1989.

**PI 617074. *Trigonella foenum-graecum* L.**

Wild. 100689-0402; W6 2086. Collected 06/10/1989 in Siirt, Turkey. Latitude 37 deg. 33' N. Longitude 42 deg. 26' E. Elevation 1580 m. Recently disturbed deep red soil along road. Region of coppiced and cut over oak park forest. 5-9km W of Sirnak on the Sirnak Eruh road. Four plants collected. Pods large, thick walled and long (6-8cm).

The following were collected by Mohammad El Hadi, Washington State University, Crops and Soils Dept., Johnson Hall, Pullman, Washington 99164, United States. Received 05/21/1993.

**PI 617075. *Trigonella foenum-graecum* L.**

Uncertain. W6 11577. Collected 04/29/1993 in Morocco. Latitude 31 deg. 30' N. Longitude 8 deg. 5' W. Contaminate in *Lens culinaris*, W6 11576, from a market place in Marrakech.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Donated by Miho Mihov, Institute for Wheat and Sunflower, "Dobroudja" 9520, General Toschevo, Tolbukhin 9520, Bulgaria. Received 06/30/1995.

**PI 617076. *Trigonella foenum-graecum* L.**

Cultivated. W6 17233. Collected 06/28/1995 in Bulgaria.

**PI 617077. *Trigonella foenum-graecum* L.**

Cultivated. IB-2-5; W6 17234. Collected 06/28/1995 in Bulgaria.

**PI 617078. *Trigonella foenum-graecum* L.**

Cultivated. IB-2-10; W6 17235. Collected 06/28/1995 in Bulgaria.

**PI 617079. *Trigonella foenum-graecum* L.**

Cultivated. IB-2-14; W6 17236. Collected 06/28/1995 in Bulgaria.

The following were donated by Miho Mihov, Institute for Wheat and Sunflower, "Dobroudja" 9520, General Toschevo, Tolbukhin 9520, Bulgaria; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 06/30/1995.

**PI 617080. *Trigonella foenum-graecum* L.**

Cultivated. IB-2-15; W6 17237. Collected 06/28/1995 in Bulgaria.

The following were donated by Clemson University, South Carolina Agric. Exp. Station, Clemson, South Carolina 29817, United States. Received 1961.

**PI 617081. *Capsicum annuum* L.**

Cultivated. CAROLINA HOT.

The following were donated by Joseph Harris Company, Inc., 3670 Buffalo Road, Rochester, New York 14624, United States. Received 1961.

**PI 617082. *Capsicum annuum* L.**

Cultivated. HUNGARIAN WAX.

The following were donated by Corneli Seed Company, 101 Chouteau Avenue, Saint Louis, Missouri 63102, United States. Received 1961.

**PI 617083. *Capsicum annuum* L.**

Cultivated. KEYSTONE RESISTANT GIANT.

The following were donated by Asgrow Seed Company, Kalamazoo, Michigan, United States. Received 1963.

**PI 617084. *Capsicum annuum* L.**

Cultivated. YOLO WONDER L.

The following were donated by Northrup, King & Company, 1500 Jackson N.E., Minneapolis, Minnesota 55413, United States. Received 1963.

**PI 617085. *Capsicum annuum* L.**

Cultivated. EMERALD GIANT. Fruit thick-walled, 4-lobed, blocky. Flesh dark green, smooth. Plants vigorous, erect, medium tall (28"). Seed World 1963, pg.7.

The following were developed by Glenn W. Burton, USDA, ARS, Forage & Turf Research, Georgia Coastal Plain Experiment Station, Tifton, Georgia 31793, United States. Donated by USDA, ARS, Georgia Coastal Plain Experiment Station, Crops Research Division, Tifton, Georgia 31794, United States. Received 07/06/1939.

**PI 617086. *Cynodon dactylon* (L.) Pers. var. *dactylon***

Cultivar. "Tifway"; Tifton 419; CSR 42; CSR 7; Reg. No. 7. CV-7. Pedigree - Chance hybrid between *Cynodon transvaalensis* and *C. dactylon*. Highly disease-resistant with very dark green color.

The following were donated by D. Nickson, The Peninsula Country Golf Club, Skye Road, P.O. Box 145, Frankston, Victoria 3199, Australia. Received 05/08/1989.

**PI 617087. *Cynodon dactylon* (L.) Pers. var. *dactylon***

1; Q 27766. Collected in Australia. Latitude 38 deg. 8' 0'' S. Longitude 145 deg. 7' 0'' E. Ecotype from golf club grounds, Frankston.

**PI 617088. *Cynodon dactylon* (L.) Pers. var. *dactylon***

3; Q 27768. Collected in Australia. Latitude 38 deg. 8' 0'' S. Longitude 145 deg. 7' 0'' E. Ecotype from golf club grounds, Frankston.

Unknown source. Received 07/11/2000.

**PI 617089. *Cynodon dactylon* (L.) Pers. var. *dactylon***

Breeding. A-2; CCYN 1.

Unknown source. Received 07/11/2000.

**PI 617090. *Cynodon dactylon* (L.) Pers. var. *dactylon***

Breeding. A-3; CCYN 2.

Unknown source. Received 07/11/2000.

**PI 617091. *Cynodon dactylon* (L.) Pers. var. *dactylon***  
Breeding. A-4; CCYN 3.

Unknown source. Received 07/11/2000.

**PI 617092. *Cynodon dactylon* (L.) Pers. var. *dactylon***  
Breeding. 15-1; CCYN 4.

Unknown source. Received 07/11/2000.

**PI 617093. *Cynodon dactylon* (L.) Pers. var. *dactylon***  
Breeding. AP-1; CCYN 5.

Unknown source. Received 07/12/2000.

**PI 617094. *Cynodon nlemfuensis* var. *robustus* Clayton & J. R. Harlan**  
Wild. CCYN 27; Cultivar No. 2. Collected in Zimbabwe.

Unknown source. Received 07/12/2000.

**PI 617095. *Cynodon* hybrid**  
Cultivar. "Coastal"; REG NO 1; CCYN 32.

The following were collected by E. Ramona Garner, USDA, NRCS, Plant Materials Center, 1036 Miller Street Southwest, Los Lunas, New Mexico 87031, United States. Developed by USDA, NRCS, Plant Materials Center, 1036 Miller Street Southwest, Los Lunas, New Mexico 87031, United States; New Mexico State University, Agricultural Science Center at Los Lunas, Los Lunas, New Mexico, United States. Donated by USDA, NRCS, Plant Materials Center, 1036 Miller Street Southwest, Los Lunas, New Mexico 87031, United States. Received 04/10/2001.

**PI 617096. *Penstemon angustifolius* Pursh**  
Cultivar. "San Juan Germplasm"; SFD-99-F34; 9066069; Ames 26206.  
Collected 1990 in New Mexico, United States. Latitude 36 deg. 42' 54'' N. Longitude 108 deg. 24' 36'' W. Elevation 1793 m. South of Area 3 Office Complex, BHP-Minerals Navajo Mine, south of Fruitland, San Juan County. Sandy loam soils. Stout, smooth, waxy, gray-green perennial herb. Plant grows from 20 to 50 cm with several stout, erect or somewhat curving stems. Flowers range from 17 to 23 mm and are various shades of violet and pink. Guidelines may or may not be present. Leaves are gray-green and waxy. Selected from a narrow leaf penstemon collection from the San Juan basin of New Mexico. The collection was evaluated for survival under agronomic conditions. After 5 years of establishment in fields at the New Mexico Plant Materials Center, plants were selected for hardiness. Seed from hardy plants were collected and used to establish the San Juan germplasm field of narrow leaf penstemon. Potential uses include erosion control, wildlife food/cover, restoration of disturbed sites, increasing plant diversity of rangelands, and for low water use beautification of urban and rural landscapes. Found from western Kansas to southern Utah, southward into New Mexico and northern

Arizona. It commonly inhabits sandy.

The following were developed by Jeff Ehlers, University of California, Riverside, Department of Botany & Plant Sciences, Riverside, California 92521-0124, United States. Received 03/16/2001.

**PI 617097. *Vigna unguiculata* (L.) Walp.**

Breeding. C93W-24-125B; 24-125B. Pedigree - IT86D-364 / IT81D-1138. Both are advanced breeding lines developed at IITA, Ibadan, Nigeria. Contains unusually high levels of sucrose (about 6% (w/w) vs. approx. 2% (w/w) in other cowpea germplasm). Possesses medium-size (14-16 grams/100 seeds) white grains with medium brown hilum color. Moderate resistance to bacterial blight (*Xanthomonas vignicola*), high levels of resistance to Cowpea Aphid borne Mosaic Virus (CABMV), and moderate seed resistance to the cowpea weevil *Callosobruchus maculatus*. Additional defining characteristics include photosensitivity, foliage and immature pods distinctively light/pale green, light purple flower color, semi-determinate, spreading plant type with pod presentation primarily over the plant canopy, and maturity roughly 70 d after planting under tropical, short day conditions. Sensitive to long photoperiods and will not flower when daylengths are greater than 12.5 h. Grain yields in the regional performance trials conducted in Cameroon averaged roughly 700 kg/ha under minimal input conditions compared to 550 kg/ha for the check variety.

The following were developed by Jerry F. Miller, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States; Kassim Al-Khatib, Kansas State University, Agronomy Department, Manhattan, Kansas 66506, United States. Donated by Jerry F. Miller, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 04/02/2001.

**PI 617098. *Helianthus annuus* L.**

Breeding. Pureline. HA 425. GP-254. Pedigree - BC2F5 maintainer line from HA 89\*3 / PUR H. annuus. Maintainer germplasm line resistant to two imidazolinone herbicides, imazamox (Raptor) and imazethapyr (Pursuit). Available for use by sunflower industry and public researchers to create hybrids, parental lines, or improved germplasms with resistance to imidazolinone herbicides. PUR H. annuus was selected from a wild *Helianthus annuus* population collected in Kansas. A backcrossing procedure utilizing imazamox as the screening herbicide was utilized. Does not have anthocyanin pigment in seed or plants, single-headed, and seed black with gray stripe.

**PI 617099. *Helianthus annuus* L.**

Breeding. Pureline. RHA 426. GP-255. Pedigree - F6 restorer germplasm selected from RHA 409 // RHA 376\*2/PUR H. annuus. Fertility restorer germplasm line resistant to two imidazolinone herbicides, imazamox (Raptor) and imazethapyr (Pursuit). Available for use by sunflower industry and public researchers to create hybrids, parental lines, or improved germplasms with resistance to imidazolinone herbicides. PUR H. annuus was selected from a wild *Helianthus annuus* population collected in Kansas. A backcrossing and pedigree breeding procedure utilizing imazamox as the screening herbicide was used. Does not have anthocyanin pigment in seed or plants, are branched, and have black seed.

**PI 617100. *Helianthus annuus* L.**

Breeding. Pureline. RHA 427. GP-256. Pedigree - F6 restorer germplasm selected from RHA 409 // RHA 376\*2/PUR N. annuus. Fertility restorer germplasm line resistant to two imidazolinone herbicides, imazamox (Raptor) and imazethapyr (Pursuit). Available for use by sunflower industry and public researches to create hybrids, parental lines, or improved germplasms with resistance to imidazolinone herbicides. PUR H. annuus was selected from a wild *helianthus annuus* population collected in Kansas. A backcrossing and pedigree breeding procedure utilizing imazamox as the screening herbicide was used. Does not have anthocyanin pigment in seeds or plants, are branched, and have black seed. Possesses restorer genes for the PET1 cytoplasmic male sterility.

The following were donated by J. Reich, Cornell University, NY Agric. Exper. Sta., Geneva, New York, United States; Charles J. Simon, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616-8607, United States. Received 02/27/1986.

**PI 617101. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. CACT 30.

**PI 617102. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. CACT 31.

The following were donated by Bernadine C. Strik, Oregon State University, Department of Horticulture, 4017 ALS, Corvallis, Oregon 97331, United States. Received 02/04/1999.

**PI 617103. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "74-49"; CACT 43.

**PI 617104. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Ananasnaja female"; CACT 44.

**PI 617105. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Ananasnaja male"; CACT 45.

**PI 617106. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Issai"; CACT 46.

**PI 617107. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Arguta Hardy Red"; CACT 47.

**PI 617108. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Jumbo"; CACT 48.

**PI 617109. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq.**  
Cultivar. "Ken's Red"; CACT 49.

The following were donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/02/1999.

**PI 617110. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. "Qui"; CACT 50. Pedigree - Seedlings of cultivar 'Qui' Qui was selected from the wild near Chang Bai Mountain Research Institute of Chinese Academy of Agriculture.

The following were donated by Charles J. Simon, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616-8607, United States. Received 02/23/1999.

**PI 617111. *Actinidia arguta* var. *purpurea*** (Rehder) C. F. Liang  
Cultivated. CACT 51.

**PI 617112. *Actinidia callosa*** Lindl.  
Cultivar. CACT 52.

**PI 617113. *Actinidia* hybrid**  
Cultivar. "74-32"; CACT 54; DACT127.

**PI 617114. *Actinidia* hybrid**  
Cultivar. "74-55"; CACT 56; DACT132.

**PI 617115. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. "Anna"; CACT 57; DACT133.

**PI 617116. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. "Issai"; CACT 58; DACT134.

**PI 617117. *Actinidia* hybrid**  
Cultivar. CACT 59. Pedigree - Selection of *A. arguta*.

The following were developed by Ken J. Nobbs, New Zealand. Donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617118. *Actinidia* hybrid**  
Cultivar. CACT 60. Pedigree - *Actinidia arguta* x *Actinidia melanandra*.

The following were donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617119. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 63. Developed in Italy.

**PI 617120. *Actinidia kolomikta*** (Maxim. & Rupr.) Maxim.  
Cultivar. CACT 65. Developed in Russian Federation.

**PI 617121. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 66.

The following were developed by I.V. Michurin Central Laboratory of Genetics, Tambovskaya Oblast, Michurinsk, Lithuania. Donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617122. *Actinidia kolomikta*** (Maxim. & Rupr.) Maxim.  
Cultivar. CACT 67.

The following were donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617123. *Actinidia callosa*** Lindl.  
Cultivated. CACT 68.

**PI 617124. *Actinidia kolomikta*** (Maxim. & Rupr.) Maxim.  
Cultivar. CACT 69. Developed in Russian Federation.

**PI 617125. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 70.

**PI 617126. *Actinidia kolomikta*** (Maxim. & Rupr.) Maxim.  
Cultivar. CACT 71.

**PI 617127. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 72.

The following were developed by Michigan State University, Michigan Agr. Exp. Sta., East Lansing, Michigan 48824, United States. Donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617128. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 73. Pedigree - Possibly *A. arguta* x *A. kolomikta*.

The following were developed by Elwyn M. Meader, 43 Meaderboro Rd., Rochester, New Hampshire 03867-4235, United States. Donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617129. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 74. Pedigree - Selection of *A. arguta*.

The following were donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 03/25/1999.

**PI 617130. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 75.

**PI 617131. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 76.

**PI 617132. *Actinidia polygama*** (Siebold & Zucc.) Maxim.  
Cultivar. CACT 78.

**PI 617133. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 80. Pedigree - Selection of *Actinidia arguta*.

The following were donated by Tripple Brook Farm, 37 Middle Road, Southamton, Massachusetts 01073, United States. Received 04/15/1999.

- PI 617134. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 81.
- PI 617135. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 84.
- PI 617136. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 86.
- PI 617137. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 87.
- PI 617138. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 88.
- PI 617139. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 89.

The following were donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 04/16/1999.

- PI 617140. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 90.
- PI 617141. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 91.
- PI 617142. *Actinidia arguta* (Siebold & Zucc.) Planch. ex Miq. Cultivar. CACT 92.
- PI 617143. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 93.
- PI 617144. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 94.
- PI 617145. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 95.
- PI 617146. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 96.
- PI 617147. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 97.
- PI 617148. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 99.
- PI 617149. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim. Cultivar. CACT 100.
- PI 617150. *Actinidia kolomikta* (Maxim. & Rupr.) Maxim.

Cultivar. CACT 101.

**PI 617151. *Actinidia melanandra*** Franch.  
Cultivar. CACT 102.

The following were donated by Charles J. Simon, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616-8607, United States. Received 10/27/1999.

**PI 617152. *Actinidia arguta* var. *cordifolia*** (Miq.) Bean  
Cultivated. CACT 104; *A. arguta* var. *cordifolia* F; DACT 123.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 617153. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivated. *A. arguta*; 99004; CACT 105. Pedigree - Collected from market near San Lin, China.

**PI 617154. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivated. *A. arguta*; 99011; CACT 106. Pedigree - Collected from market in China.

**PI 617155. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivated. *A. arguta*; 99014; CACT 107. Pedigree - Collected from market in China.

The following were donated by Bob Guthrie, 1810 Alameda Street, Roseville, Minnesota 55113, United States. Received 12/09/1999.

**PI 617156. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. 119-40; CACT 108.

**PI 617157. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. 125-40; CACT 109.

**PI 617158. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. 74-8; CACT 110.

**PI 617159. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. CACT 111; 74-9 (ID?).

**PI 617160. *Actinidia hybrid***  
Cultivar. "Issai"; CACT 112.

**PI 617161. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. Dumbarton Oaks; CACT 115.

**PI 617162. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. Frenchman's Bay; CACT 116.

**PI 617163. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. 127-40; CACT 120.

**PI 617164. *Actinidia arguta* var. *cordifolia*** (Miq.) Bean  
Cultivated. *A. arguta* var. *cordifolia* F; CACT 122.

**PI 617165. *Actinidia arguta* var. *purpurea*** (Rehder) C. F. Liang  
Cultivar. "Cherry Bomb"; CACT 123.

Unknown source. Received 04/18/2000.

**PI 617166. *Actinidia kolomikta*** (Maxim. & Rupr.) Maxim.  
Cultivar. "Dr. Szymanowski"; CACT 137.

Unknown source. Received 04/18/2000.

**PI 617167. *Actinidia arguta*** (Siebold & Zucc.) Planch. ex Miq.  
Cultivar. "74-55"; CACT 138.

Unknown source. Received 04/18/2000.

**PI 617168. *Actinidia arguta* var. *purpurea*** (Rehder) C. F. Liang  
Cultivated. CACT 139; *A. arguta* var. *purpurea*.

The following were collected by Mark P. Widrechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States; Mark P. Widrechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 10/09/1987.

**PI 617169. *Corylus americana*** Marshall  
Wild. *C. americana*; American Hazel. Collected 09/18/1987 in Missouri, United States. Latitude 37 deg. 27' N. Longitude 93 deg. 18' W. Elevation 1220 m. Brighton, in hedgerow on north side of road. Pedigree - Collected from the wild in Missouri.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/30/1991.

**PI 617170. *Corylus sieboldiana*** Blume  
Wild. *C. sieboldiana*. Collected 08/21/1991 in Toyama, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1600 m. Hirayu, Mt. Norikura-dake, Nyukawa-mura, Yoshiki-gun, Gifu. Pedigree - Collected from the wild in Japan. (This accession was part of the PL,SD 'breakout' - 1992).

The following were developed by Lab. for Fruit Tree Genetics & Breeding, Research Inst. for Fruit Growing, Trustul Pomiculturii, Pitesti-Maracineni,

Arges 0300, Romania. Donated by Nicolae Braniste, Institutul de Cercetare si, Productie Pentry Pomicultura, Pitesti-Maricineni, Arges 0300, Romania. Received 03/03/1992.

**PI 617171. *Corylus avellana* L.**

Breeding. Vilcea-22. Pedigree - selection of *C. avellana*.

**PI 617172. *Corylus avellana* L.**

Cultivar. "Cozia". Pedigree - selection of *C. avellana*.

**PI 617173. *Corylus avellana* L.**

Cultivar. "Romavel". Pedigree - selection of *C. avellana*.

**PI 617174. *Corylus avellana* L.**

Cultivar. "Aveline rouge". Pedigree - selection of *C. avellana*.

The following were donated by Leonid A. Burmistrov, N.I. Vavilov Research Institute of Plant Industry, Department of Introduction, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 03/27/1992.

**PI 617175. *Corylus avellana* L.**

Cultivar. "Skorospelka". Developed in Georgia. Pedigree - Uncertain, possibly a selection from the Caucasus. Early flowering, protogynous, and cold-tender in Maykop.

**PI 617176. *Corylus avellana* L.**

Cultivar. "Cherkesskii II"; *C. maxima*. Developed in Russian Federation. Pedigree - Probably a seedling selection. The leading cultivar in the USSR, often used as a parent in breeding. Was a standard cv as early as 1949.

**PI 617177. *Corylus avellana* L.**

Cultivar. "Kudryavchik". Developed in Russian Federation. Pedigree - selection of *C. avellana*. Early maturing, high yielding, and resistant to insects. Considered one of the two best cultivars in Sochi.

**PI 617178. *Corylus avellana* L.**

Cultivar. "Pioneer". Developed in Ukraine. Pedigree - Uncertain, possibly a selection from the Ukraine. Recommended for the Black Sea coast.

**PI 617179. *Corylus avellana* L.**

Cultivar. "Panakhesskii"; *C. maxima*. Developed in Russian Federation. Pedigree - Uncertain, possibly a seedling selection. Very similar to Adygeiskij I but has a higher oil content and better flavor.

**PI 617180. *Corylus avellana* L.**

Cultivar. "Kerasund Dlinnyi". Developed in Turkey. Pedigree - Probably a seedling selection.

**PI 617181. *Corylus* sp.**

Cultivar. *C. sp.* [*C. multiflorum*] [*C. avellana*]; "Multiflorum". Developed in Turkey. Pedigree - selection. Was *Corylus multiflorum* 11/95 - need to verify this taxon, not found in literature. Has a long nut and a long husk.

The following were developed by Michael Dolan, Burnt Ridge Nursery, 432 Burnt Ridge Road, Onalaska, Washington 98570, United States. Received 04/09/1992.

**PI 617182. *Corylus avellana* L.**

Cultivar. "Red Fortrin". Pedigree - Chance seedling. Probably not desirable for commercial purposes, but does have colorful ornamental qualities. Susc. to big bud mite.

**PI 617183. *Corylus avellana* L.**

Cultivar. "Purple Fortrin". Pedigree - Chance seedling. Probably not desirable for commercial purposes, but does have colorful ornamental qualities. Susc. to big bud mite.

The following were developed by O. Jemtegaard. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 10/27/1992.

**PI 617184. *Corylus avellana* L.**

Uncertain. Jemtegaard 76. Pedigree - selection of *C. avellana*.

The following were developed by Cecil Farris, 1919 Hopkins Ave., Lansing, Michigan 48912-3321, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 10/27/1992.

**PI 617185. *Corylus hybrid***

Breeding. "Grand Traverse". Pedigree - Faroka x OSU 18.114 (Barcelona x Royal).

The following were developed by J.U. Gellatly, West Bank, British Columbia, Canada. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 10/27/1992.

**PI 617186. *Corylus hybrid***

Breeding. "Manoka". Pedigree - *C. cornuta* x *C. avellana*.

The following were collected by Thomas Plocher, 9040 152nd Street North, Hugo, Minnesota 55038, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 10/27/1992.

**PI 617187. *Corylus hybrid***

Breeding. Weschcke TP-3. Collected in Wisconsin, United States. Carl Weschcke's farm in Wisconsin. Pedigree - *C. americana* x *C. avellana*.

The following were collected by Steven Breyer, Massachusetts, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 10/27/1992.

**PI 617188. *Corylus hybrid***

Wild. "Black Hills #2". Collected in South Dakota, United States. Black Hills of South Dakota. Pedigree - Selection from *C. americana* from the wild.

The following were developed by Centro de Experimentacion Agraria, Apdo 13, Villaviciosa, Oviedo 33300, Spain. Donated by M. Coque-Fuertes, Centro de Experimentacion Agro., Villaviciosa, Oviedo, Spain. Received 12/08/1992.

**PI 617189. *Corylus avellana* L.**

Cultivar. "Grande". Pedigree - selection of *C. avellana*.

The following were donated by Merce Rovira, IRTA Centro Agropecuari Mas, Bove, Apartat 415, Reus, Tarragona 43200, Spain. Received 12/08/1992.

**PI 617190. *Corylus avellana* L.**

Cultivar. "Amandi". Developed in Spain. Pedigree - selection of *C. avellana*.

The following were developed by Cecil Farris, 1919 Hopkins Ave., Lansing, Michigan 48912-3321, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/12/1993.

**PI 617191. *Corylus* sp.**

Cultivar. Farris 88 BS. Pedigree - selection of *C. avellana*.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/12/1993.

**PI 617192. *Corylus* sp.**

Cultivar. "Petoka". Developed in Uncertain. Pedigree - selection of *C. avellana*.

The following were developed by Arnold Arboretum of Harvard University, 125 Arborway, Jamaica Plain, Massachusetts 02130-3500, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/12/1993.

**PI 617193. *Corylus colurna* var. *lacera* (Wall.) A. DC.**

Cultivar. *C. jacquemontii* (Arnold). Collected in Uncertain. Pedigree - selection.

The following were donated by Agostino Tombesi, Istituto di Coltivazioni Arboree, Universita di Perugia, Perugia - San Pietro, Italy. Received 04/05/1993.

**PI 617194. *Corylus avellana* L.**

Cultivar. "Tonda Romana 41". Developed in Italy. Pedigree - selection of *C. avellana*.

**PI 617195. *Corylus avellana* L.**

Cultivar. F6-P200. Developed in Italy. Pedigree - Tonda Romana x Tonda di Giffoni.

**PI 617196. *Corylus avellana* L.**

Cultivar. "Tonda Romana 45". Developed in Italy. Pedigree - selection of *C. avellana*.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 01/28/1993.

**PI 617197. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 4-6; 4-6. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617198. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 13-3; 13-3. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617199. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 25-3; 25-3. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617200. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 53-6; 53-6. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617201. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 66-5; 66-5. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617202. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 19-4; 19-4. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

**PI 617203. *Corylus cornuta* subsp. *californica* (A. DC.) A. E. Murray**

Cultivated. *C. cornuta* var. *californica* 13-5; 13-5. Collected in Oregon, United States. Pedigree - selection of *C. cornuta*.

The following were developed by Weijian Liang, Economic Forestry Research Institute, 252 Yulin St., Ganjingzi District, Dalian, Liaoning 116031, China. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/20/1993.

**PI 617204. *Corylus colurna* var. *chinensis* (Franch.) Burkill**

Cultivated. *C. chinensis* OSU 91502; OSU 91502. Pedigree - selection of *C. chinensis*.

The following were donated by C. Ferris Miller, Chollipo Arboretum, 344-16 Yonhui-dong, Sodaemun-kuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/25/1993.

**PI 617205. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. *C. heterophylla*. Collected in Korea, South. Pedigree - selection of *C. heterophylla*.

The following were developed by D. S. Rathore, Director, NBPGR, New Delhi Airport, Pusa Campus, New Delhi, Delhi 110012, India. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/20/1993.

**PI 617206. *Corylus colurna* var. *lacera* (Wall.) A. DC.**

Cultivated. *C. jacquemontii* OSU 88501; OSU 88501. Pedigree - selection.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Luftër Xhuvëli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Donated by Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 10/01/1996.

**PI 617207. *Corylus avellana* L.**

Wild. Al 055; *C. avellana*; CCOR 625. Collected 08/26/1996 in Albania. Latitude 40 deg. 12' 10'' N. Longitude 20 deg. 9' 30'' E. Elevation 1260 m. Approx. 1 km further along road returning to Gjirokaster from the Pastures of Cajup. Growing along a west facing rocky hillside. Pedigree - selection of *C. avellana*. Tree 4m tall, 3-4m wide. Numerous.

**PI 617208. *Corylus avellana* L.**

Wild. Al 080; *C. sp.*; CCOR 626. Collected 08/28/1996 in Albania. Latitude 40 deg. 37' 11'' N. Longitude 20 deg. 46' 56'' E. Elevation 320 m. Korçe, market. Collected in surrounding mountains presumably from wild populations. Pedigree - selection.

The following were collected by Hakan Schuberg, Gluntens Vag 9-807, Umeå, Västerbotten 903 31, Sweden. Received 11/04/1996.

**PI 617209. *Corylus avellana* L.**

Wild. *C. avellana* - Schuberg; CCOR 627. Collected 09/19/1996 in Gotland, Sweden. Latitude 57 deg. 20' N. Longitude 18 deg. 40' E. Elevation 10 m. Southeastern Gotland, close to and 2 km along coast south of the stream Naarsaan, 20 km south of Ljugarn. Coastal deep sandyloam high in calcium over chalc rock. Former pasture for cattle, sheep and horse. Associated with *Quercus robur*, *Betula pendula*, *Fraxinus excelsior* and *Ulmus carpinifolia*. Pedigree - Selection of wild *C. avellana*. Plants were removed from the wild and placed in the garden of Hakan Schuberg's parents. The seeds were collected from the plants in the garden.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/24/1997.

**PI 617210. *Corylus avellana* L.**

Cultivar. "Lewis"; OSU 243.002; CCOR 633. Pedigree - OSU 17.028(Barcelona x Tombul Ghiaghli) x Willamette.

**PI 617211. *Corylus avellana* L.**

Cultivar. OSU 244.001; CCOR 634. Pedigree - OSU 17.028(Barcelona x Tombul Ghiaghli) x Willamette.

The following were collected by Paul Meyer, The University of Pennsylvania, Morris Arboretum, 9414 Meadowlark Avenue, Philadelphia, Pennsylvania 19118, United States. Received 12/29/1997.

**PI 617212. *Corylus sieboldiana* var. *mandshurica* (Maxim.) C. K. Schneid.**

Wild. *C. sieboldiana* v. *mandshurica*; CCOR 636; NA 68873. Collected 09/04/1997 in Jilin, China. Pedigree - Collected from the wild in China.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 12/20/1994.

**PI 617213. *Corylus colurna* L.**

Cultivated. *C. colurna*; CCOR 637. Pedigree - Embryonic Axis extracted from *C. colurna* seed.

**PI 617214. *Corylus americana* Marshall**

Cultivated. *C. americana*; CCOR 638. Pedigree - Embryonic Axis extracted from *C. americana* seed.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States; Weijian Liang, Economic Forestry Research Institute, 252 Yulin St., Ganjingzi District, Dalian, Liaoning 116031, China. Received 03/27/1998.

**PI 617215. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. CCOR 643.

**PI 617216. *Corylus* hybrid**

Breeding. *C. heterophylla* x *C. avellana*; CCOR 648. Pedigree - *C. heterophylla* x *C. avellana*.

**PI 617217. *Corylus* hybrid**

Breeding. *C. heterophylla* x *C. avellana*; CCOR 649. Pedigree - *C. heterophylla* x *C. avellana*.

**PI 617218. *Corylus* hybrid**

Breeding. *C. heterophylla* x *C. avellana*; CCOR 650. Pedigree - *C. heterophylla* x *C. avellana*.

**PI 617219. *Corylus* hybrid**

Breeding. *C. heterophylla* x *C. avellana*; CCOR 651. Pedigree - *C. heterophylla* x *C. avellana*.

**PI 617220. *Corylus* hybrid**

Breeding. *C. heterophylla* x *C. avellana*; CCOR 652. Pedigree - *C.*

heterophylla x C. avellana.

**PI 617221. Corylus hybrid**

Breeding. C. heterophylla x C. avellana; CCOR 653. Pedigree - C. heterophylla x C. avellana.

**PI 617222. Corylus hybrid**

Breeding. C. heterophylla x C. avellana; CCOR 654. Pedigree - C. heterophylla x C. avellana.

**PI 617223. Corylus hybrid**

Breeding. C. heterophylla x C. avellana; CCOR 655. Pedigree - C. heterophylla x C. avellana.

**PI 617224. Corylus hybrid**

Breeding. C. heterophylla x C. avellana; CCOR 656. Pedigree - C. heterophylla x C. avellana.

**PI 617225. Corylus hybrid**

Breeding. C. heterophylla x C. avellana; CCOR 657. Pedigree - C. heterophylla x C. avellana.

The following were donated by Dave C. Smith, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 05/06/1998.

**PI 617226. Corylus hybrid**

Cultivar. "Acorn Hazelnut"; CCOR 658.

**PI 617227. Corylus hybrid**

Cultivar. "Frango 2"; CCOR 659.

**PI 617228. Corylus hybrid**

Cultivar. "Frango 4"; CCOR 660.

**PI 617229. Corylus hybrid**

Cultivar. "Frango 5"; CCOR 661.

**PI 617230. Corylus hybrid**

Cultivar. "Goc"; CCOR 662.

**PI 617231. Corylus hybrid**

Cultivar. "Karol"; CCOR 663.

**PI 617232. Corylus hybrid**

Cultivar. "Lech"; CCOR 664.

**PI 617233. Corylus hybrid**

Cultivar. "Lenka 3"; CCOR 665.

**PI 617234. Corylus hybrid**

Cultivar. "Lenka 4"; CCOR 666.

**PI 617235. Corylus hybrid**

Cultivar. "Little Poland"; CCOR 667.

**PI 617236. *Corylus hybrid***

Cultivar. "Maria"; CCOR 668.

**PI 617237. *Corylus hybrid***

Cultivar. "Syrena"; CCOR 669.

**PI 617238. *Corylus hybrid***

Cultivar. "Volski"; CCOR 670.

**PI 617239. *Corylus hybrid***

Cultivar. "Tapparona di S. Colombano Cortemoli"; CCOR 671.

**PI 617240. *Corylus hybrid***

Cultivar. "Dal Rossa"; CCOR 672.

**PI 617241. *Corylus hybrid***

Cultivar. "Barrettona"; CCOR 673.

The following were collected by Dennis Peterson, 6340 Peterson Road, East Dubuque, Illinois 61025, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617242. *Corylus americana* Marshall**

Cultivated. 88317; CCOR 675. Collected 1988 in Illinois, United States. Pedigree - Open Pollinated seed from the wild.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617243. *Corylus americana* Marshall**

Cultivated. 88323; CCOR 676. Pedigree - Open Pollinated seed from the wild.

The following were collected by Gary D. Stegmiller, 621 South 14th Street, Bismark, North Dakota 58504, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617244. *Corylus americana* Marshall**

Cultivated. 88325; CCOR 677. Collected 1988 in North Dakota, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Glenn C. Evans, R.D. 1 Box 505, Brookville, Pennsylvania 15825, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617245. *Corylus americana* Marshall**

Cultivated. 88302; CCOR 678. Collected 1988 in Pennsylvania, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Doy E. Bruni, 1313 Mud River Road, Milton, West Virginia 25541, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617246. *Corylus americana* Marshall**

Cultivated. 88306; CCOR 679. Collected 1988 in West Virginia, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by O. Howard Jones, R.R. 3 Box 251A, Ferrum, West Virginia 24088, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617247. *Corylus americana* Marshall**

Cultivated. 88307; CCOR 680. Collected 1988 in West Virginia, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by F. Dillingham. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617248. *Corylus americana* Marshall**

Cultivated. 88311; CCOR 681. Collected 1988 in Kentucky, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Paul Sorensen, Northern Illinois University, Dept. of Biological Sciences, Dekalb, Illinois 60115-2861, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617249. *Corylus americana* Marshall**

Cultivated. 88316; CCOR 682. Collected 1988 in Michigan, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Albert B. Ferguson, 802 20th Ave., Coralville, Iowa 52241, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617250. *Corylus americana* Marshall**

Cultivated. 89306; CCOR 683. Collected 1989 in Indiana, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Dennis Peterson, 6340 Peterson Road, East Dubuque, Illinois 61025, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617251. *Corylus americana* Marshall**

Cultivated. 88317; CCOR 684. Collected 1988 in Indiana, United States.

Pedigree - Open Pollinated seed from the wild.

The following were collected by Edward C. Olejniczak, Route 2, River Road, Greenleaf, Wisconsin 54126, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617252. *Corylus americana* Marshall**

Cultivated. 88324; CCOR 685. Collected 1988 in Wisconsin, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Glenn C. Evans, R.D. 1 Box 505, Brookville, Pennsylvania 15825, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617253. *Corylus americana* Marshall**

Cultivated. 88301; CCOR 686. Collected 1988 in Pennsylvania, United States. Pedigree - Open Pollinated seed from the wild.

The following were collected by Jean Tierny, Patuxent River Park, 1600 Croom Airport Road, Upper Marlboro, Maryland 20772, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617254. *Corylus americana* Marshall**

Cultivated. 88303; CCOR 687. Collected 1988 in Maryland, United States. Pedigree - Open Pollinated seed from the wild.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States; Hyeon-Mo Cho, Horticultural Experiment Sta., O.R.D., Suweon, Kyonggi, Korea, South. Received 02/1998.

**PI 617255. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. 86025; CCOR 688. Pedigree - Open Pollinated seed from cultivated plants.

**PI 617256. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. 86026; CCOR 689. Pedigree - Open Pollinated seed from cultivated plants.

**PI 617257. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. 86027; CCOR 690. Pedigree - Open Pollinated seed from cultivated plants.

The following were collected by Cyril Bish, 4020 Folsom, Lincoln, Nebraska 68522, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617258. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. 87172; CCOR 691. Collected 1987 in Nebraska, United States.  
Pedigree - Open Pollinated seed from cultivated plants.

**PI 617259. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. 87176; CCOR 692. Collected 1987 in Nebraska, United States.  
Pedigree - Open Pollinated seed from cultivated plants.

The following were collected by Anna Voordeckers, Rutgers Fruit Research Center, 283 Route 539, Cream Ridge, New Jersey 08514, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617260. *Corylus americana* Marshall**

Cultivated. 86033; CCOR 693. Collected 1986 in New Jersey, United States.  
. Pedigree - Open Pollinated seed from the wild.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617261. *Corylus americana* Marshall**

Cultivated. 87141; CCOR 694. Pedigree - Open Pollinated seed from the wild.

**PI 617262. *Corylus americana* Marshall**

Cultivated. 87142; CCOR 695. Pedigree - Open Pollinated seed from the wild.

The following were collected by A.V. Lukasheff. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 02/1998.

**PI 617263. *Corylus americana* Marshall**

Cultivated. 87143; CCOR 696. Collected 1987 in Michigan, United States.  
Pedigree - Open Pollinated seed from the wild.

The following were donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 07/26/1999.

**PI 617264. *Corylus heterophylla* Fisch. ex Trautv.**

Cultivated. CCOR 700.

**PI 617265. *Corylus hybrid***

Cultivated. CCOR 701.

**PI 617266. *Corylus avellana* L.**

Cultivated. CCOR 702.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 06/04/1999.

**PI 617267. *Corylus avellana* L.**

Cultivated. Fryer Pioneer Hazelnut; CCOR 704. Collected 06/04/1999 in Oregon, United States. Pedigree - Collected from pioneer home site in Scottsburg, Oregon. Layer taken from what could be the oldest cultivated hazelnut in Oregon.

The following were developed by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/05/2000.

**PI 617268. *Corylus avellana* L.**

Cultivar. "Clark"; 276.142; CCOR 705. Pedigree - Tombul Ghiaghli x Willamette. Release of 'Clark' Hazelnut. The Oregon Agricultural Experiment Station announces the release of a new hazelnut (*Corylus avellana* L.) cultivar. 'Clark' has smaller trees, higher yield efficiency, higher percent kernel, and kernels that are more easily blanched than the standard 'Barcelona'. The nuts fall free of the husk at maturity and can be mechanically harvested about 8 days earlier than 'Barcelona'. 'Clark', tested as OSU 276.142, resulted from a cross of 'Tombul Ghiaghli' from Greece with 'Willamette' made in 1982. Light roasting and rubbing removes most of the pellicle of 'Clark' kernels, making them suitable for sale on the blanched kernel market. 'Clark' has a higher frequency of moldy kernels than 'Barcelona' but fewer than 'Willamette'. 'Clark' has a high level of quantitative resistance to eastern filbert blight caused by *Anisogramma anomala* (Peck) E. Muller, as determined by measuring the cankers which developed after exposure of potted trees under structures topped.

The following were collected by Shinji Kawai, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Developed by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Donated by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/05/2000.

**PI 617269. *Corylus avellana* L.**

Cultivar. 556.27; CCOR 706. Collected 1990 in Istanbul, Turkey. Pedigree - Seeds purchased at a market in Istanbul.

**PI 617270. *Corylus avellana* L.**

Cultivar. 556.11; CCOR 707. Collected 1990 in Istanbul, Turkey. Pedigree - Seeds purchased at a market in Istanbul.

The following were developed by Shawn A. Mehlenbacher, Oregon State University, Department of Horticulture, Corvallis, Oregon 97331, United States. Received 04/05/2000.

**PI 617271. *Corylus avellana* L.**

Cultivar. 622.30; CCOR 708. Pedigree - Seeds purchased in a market somewhere in Turkey.

Unknown source. Received 05/03/2000.

**PI 617272. *Corylus americana*** Marshall  
Cultivated. CCOR 709.

Unknown source. Received 05/03/2000.

**PI 617273. *Corylus americana*** Marshall  
Cultivated. CCOR 710.

Unknown source. Received 05/03/2000.

**PI 617274. *Corylus americana*** Marshall  
Cultivated. CCOR 711.

Unknown source. Received 05/03/2000.

**PI 617275. *Corylus americana*** Marshall  
Cultivated. CCOR 712.

Unknown source. Received 05/03/2000.

**PI 617276. *Corylus americana*** Marshall  
Cultivated. CCOR 713.

Unknown source. Received 05/03/2000.

**PI 617277. *Corylus americana*** Marshall  
Cultivated. CCOR 714.

Unknown source. Received 05/03/2000.

**PI 617278. *Corylus americana*** Marshall  
Cultivated. CCOR 715.

Unknown source. Received 03/10/2000.

**PI 617279. *Corylus avellana*** L.  
Cultivated. L. Smith Pioneer Hazelnut; CCOR 716.

Unknown source. Received 12/13/2000.

**PI 617280. *Corylus avellana*** L.  
Cultivar. "C. avellana 99037"; 99037; CCOR 717.

The following were developed by F. Osvald. Donated by Alfred Haunold, USDA, ARS, Oregon State University, Department of Crop Sciences, Corvallis, Oregon 97333, United States. Received 03/12/1992.

**PI 617281. *Humulus lupulus* L.**

Breeding. USDA 21535; Osvald Saazer Clone 72Y. Pedigree - Unknown, prob. a landrace in Czech. since the Middle Ages. Pleasant (noble) aroma suitable for production of super premium beers, mild bitterness, esp. suited for Pilsner.

The following were donated by Alfred Haunold, USDA, ARS, Oregon State University, Department of Crop Sciences, Corvallis, Oregon 97333, United States. Received 03/27/1992.

**PI 617282. *Humulus lupulus* L.**

Cultivar. "Pacific Gem"; USDA 21609. Developed in United States. Pedigree - Uncertain.

The following were collected by Elizabeth Dickson, NYS Agricultural Experiment Station, Horticultural Sciences, Hedrick Hall, Geneva, New York 14456-0462, United States; Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/05/1993.

**PI 617283. *Humulus* sp.**

KAZ 93-05-02. Collected 09/1993 in Kazakhstan.

**PI 617284. *Humulus* sp.**

KAZ 93-12-05. Collected 09/1993 in Kazakhstan.

The following were developed by Alfred Haunold, USDA, ARS, Oregon State University, Department of Crop Sciences, Corvallis, Oregon 97333, United States. Received 04/24/1995.

**PI 617285. *Humulus lupulus* L.**

Cultivar.

**PI 617286. *Humulus lupulus* L.**

Cultivar.

The following were donated by Alfred Haunold, USDA, ARS, Oregon State University, Department of Crop Sciences, Corvallis, Oregon 97333, United States. Received 01/17/1996.

**PI 617287. *Humulus lupulus* L.**

Cultivar. CHUM 815. Pedigree - Galena (USDA 21182) x German (male) 75/5/3. New high-alpha hop, low CoH; male parent about 50 percent Hall. m.f., diploid 2n=20; alpha 12-17, beta 5-6, CoH 28; susceptible to powdery mildew, resistant to vert. wilt and downy mildew.

**PI 617288. *Humulus lupulus* L.**

Cultivar. CHUM 816. Pedigree - (76/18/80 x 71/16/07). New aroma hop of interest to Anh. Busch; released 1989; resistant to vert. wilt and downy mildew; alpha 4-6, beta 3-4, CoH 23; exceptionally fine aroma; medium to

medium late; diploid 2n=20.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Lufter Xhuveli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Donated by Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 10/01/1996.

**PI 617289. *Humulus lupulus* L.**

Wild. Al 117; CHUM 817. Collected 08/31/1996 in Albania. Latitude 41 deg. 44' 16'' N. Longitude 20 deg. 18' 23'' E. Elevation 360 m. Village Arras, along road between Peskopi and Rreshen. Growing in fence row on Salix, Rubus. Rambling deciduous vine. Bracts 2-4cm long, 1-2cm wide.

**PI 617290. *Humulus lupulus* L.**

Wild. Al 134; CHUM 818. Collected 09/02/1996 in Albania. Latitude 41 deg. 50' 53'' N. Longitude 19 deg. 22' 45'' E. Elevation 1 m. Further up beach on the Island of Frans Joseph. Marshy area on sand. Vine growing on Rubus near Al 133.

Unknown source. Received 1997.

**PI 617291. *Humulus lupulus* L.**

Cultivar. "Hallertauer Gold". Developed in Germany. Pedigree - 50/1/392 x 61/28/6.

Unknown source. Received 1997.

**PI 617292. *Humulus lupulus* L.**

Cultivar. "Hallertauer Tradition". Developed in Germany. Pedigree - Hallertauer Gold x 75/15/106.

The following were donated by John A. Henning, USDA, ARS, NFSPRC, Oregon State University, Crop Science Building, Corvallis, Oregon 97331, United States. Received 11/14/1997.

**PI 617293. *Humulus lupulus* L.**

Cultivar. CHUM 821. Pedigree - 19113 x OP.

**PI 617294. *Humulus lupulus* L.**

Cultivar. CHUM 822. Pedigree - 19005 x 19046M.

**PI 617295. *Humulus lupulus* L.**

Cultivar. CHUM 823. Pedigree - 65009 x 63015M.

**PI 617296. *Humulus lupulus* L.**

Cultivar. CHUM 824. Pedigree - Ha x OP.

**PI 617297. *Humulus lupulus* L.**

Cultivar. CHUM 825. Pedigree - 21255 x 21328M.

**PI 617298. Humulus lupulus L.**

Cultivar. CHUM 826. Pedigree - 21255 x 21335M.

**PI 617299. Humulus lupulus L.**

Cultivar. CHUM 827. Pedigree - 62013 x 21109M.

**PI 617300. Humulus lupulus L.**

Cultivar. CHUM 828.

**PI 617301. Humulus lupulus L.**

Cultivar. CHUM 829.

**PI 617302. Humulus lupulus L.**

Cultivar. CHUM 830.

**PI 617303. Humulus lupulus L.**

Cultivar. CHUM 831.

**PI 617304. Humulus lupulus L.**

Cultivar. CHUM 832. Pedigree - 21153 x 21153M.

**PI 617305. Humulus lupulus L.**

Cultivar. CHUM 833. Pedigree - 21153 x 21153M.

**PI 617306. Humulus lupulus L.**

Cultivar. CHUM 834. Pedigree - 21153 x 21153M.

**PI 617307. Humulus lupulus L.**

Cultivar. CHUM 835. Pedigree - 65009 x 19046M.

**PI 617308. Humulus lupulus L.**

Cultivar. CHUM 836. Pedigree - 64100 x 64035M.

**PI 617309. Humulus lupulus L.**

Cultivar. CHUM 837. Pedigree - 21254 x 21328M.

**PI 617310. Humulus lupulus L.**

Cultivar. CHUM 838. Pedigree - 21254 x 21328M.

**PI 617311. Humulus lupulus L.**

Cultivar. CHUM 839. Pedigree - 21255 x 21335M.

**PI 617312. Humulus lupulus L.**

Cultivar. CHUM 840. Pedigree - 21255 x 21335M.

**PI 617313. Humulus lupulus L.**

Cultivar. CHUM 841. Pedigree - 21255 x 21335M.

**PI 617314. Humulus lupulus L.**

Cultivar. CHUM 842. Pedigree - 56013 x 19005M.

**PI 617315. Humulus lupulus L.**

Cultivar. CHUM 843. Pedigree - 56013 x 19008M.

**PI 617316. Humulus lupulus L.**

Cultivar. CHUM 844. Pedigree - 56013 x 19009M.

**PI 617317. Humulus lupulus L.**

Cultivar. CHUM 845. Pedigree - 56013 x 19010M.

**PI 617318. Humulus lupulus L.**

Cultivar. CHUM 846. Pedigree - 56013 x 19037M.

**PI 617319. Humulus lupulus L.**

Cultivar. CHUM 847. Pedigree - 56013 x 19058M.

**PI 617320. Humulus lupulus L.**

Cultivar. CHUM 848. Pedigree - 56013 x 21060M.

**PI 617321. Humulus lupulus L.**

Cultivar. CHUM 849. Pedigree - 56013 x 21087M.

**PI 617322. Humulus lupulus L.**

Cultivar. CHUM 850. Pedigree - 56013 x 21087M.

**PI 617323. Humulus lupulus L.**

Cultivar. CHUM 851. Pedigree - 56013 x 60023M.

**PI 617324. Humulus lupulus L.**

Cultivar. CHUM 852. Pedigree - 56013 x 60026M.

**PI 617325. Humulus lupulus L.**

Cultivar. CHUM 853. Pedigree - 48209 x OP.

**PI 617326. Humulus lupulus L.**

Cultivar. CHUM 854. Pedigree - 48209 x OP.

**PI 617327. Humulus lupulus L.**

Cultivar. CHUM 855. Pedigree - 56013 x 19058M.

**PI 617328. Humulus lupulus L.**

Cultivar. CHUM 856. Pedigree - Fu x OP.

**PI 617329. Humulus lupulus L.**

Cultivar. CHUM 857. Pedigree - 62013 x 21109M.

**PI 617330. Humulus lupulus L.**

Cultivar. CHUM 858. Pedigree - 64107 x 21070M.

**PI 617331. Humulus lupulus L.**

Cultivar. CHUM 859. Pedigree - 21055 x 2111M.

**PI 617332. Humulus lupulus L.**

Cultivar. CHUM 860. Pedigree - Cas x 21136M.

**PI 617333. Humulus lupulus L.**

Cultivar. CHUM 861. Pedigree - Cas x 21136M.

**PI 617334. Humulus lupulus L.**

Cultivar. CHUM 862. Pedigree - Fu x OP.

**PI 617335. Humulus lupulus L.**

Cultivar. CHUM 863. Pedigree - 64107 x 21111M.

**PI 617336. *Humulus lupulus* L.**

Cultivar. USDA 21452; CHUM 864. Pedigree - 21055 x 21108M.

**PI 617337. *Humulus lupulus* L.**

Cultivar. CHUM 865. Pedigree - 21055 x 21111M.

**PI 617338. *Humulus lupulus* L.**

Cultivar. CHUM 866. Pedigree - 64100 x 64035M.

**PI 617339. *Humulus lupulus* L.**

Cultivar. CHUM 867. Pedigree - 21397 x 64035M.

**PI 617340. *Humulus lupulus* L.**

Cultivar. CHUM 868. Pedigree - PrRi x [(GCL-XS) x XS].

**PI 617341. *Humulus lupulus* L.**

Cultivar. CHUM 869. Pedigree - 21255 x 21328M.

**PI 617342. *Humulus lupulus* L.**

Cultivar. CHUM 870. Pedigree - 56013 x 19009M.

**PI 617343. *Humulus lupulus* L.**

Cultivar. CHUM 871. Pedigree - 56013 x 21087M.

**PI 617344. *Humulus lupulus* L.**

Cultivar. CHUM 872. Pedigree - 48209 x OP.

**PI 617345. *Humulus lupulus* L.**

Cultivar. CHUM 873. Pedigree - 62013 x 21108M.

**PI 617346. *Humulus lupulus* L.**

Cultivar. CHUM 874. Pedigree - 62013 x 21109M.

**PI 617347. *Humulus lupulus* L.**

Cultivar. CHUM 875. Pedigree - 62013 x 21109M.

**PI 617348. *Humulus lupulus* L.**

Cultivar. CHUM 876. Pedigree - 56013 x 19062M.

**PI 617349. *Humulus lupulus* L.**

Cultivar. CHUM 877. Pedigree - Cas x 21136M.

**PI 617350. *Humulus lupulus* L.**

Cultivar. CHUM 878. Pedigree - 21254 x 21335M.

**PI 617351. *Humulus lupulus* L.**

Cultivar. CHUM 879. Pedigree - 65009 x 64035M.

**PI 617352. *Humulus lupulus* L.**

Montana 08 (Wild American); CHUM 880. Pedigree - selection from the wild in Montana.

**PI 617353. *Humulus lupulus* L.**

Montana 19 (Wild American); CHUM 881. Pedigree - selection from the wild in Montana.

- PI 617354. *Humulus lupulus* L.  
Cultivar. CHUM 882. Pedigree - 56013 x 19008M.
- PI 617355. *Humulus lupulus* L.  
Cultivar. CHUM 883. Pedigree - 56013 x 60026M.
- PI 617356. *Humulus lupulus* L.  
Minnesota-1 (Thief River); CHUM 884.
- PI 617357. *Humulus lupulus* L.  
Cultivar. CHUM 885.
- PI 617358. *Humulus lupulus* L.  
Cultivar. CHUM 886.
- PI 617359. *Humulus lupulus* L.  
North Dakota 9; CHUM 887.
- PI 617360. *Humulus lupulus* L.  
CHUM 888.
- PI 617361. *Humulus lupulus* L.  
CHUM 889.
- PI 617362. *Humulus lupulus* L.  
CHUM 890.
- PI 617363. *Humulus lupulus* L.  
CHUM 891.
- PI 617364. *Humulus lupulus* L.  
"Cicero"; CHUM 892.
- PI 617365. *Humulus lupulus* L.  
Cultivar. CHUM 893. Pedigree - 62013 x 21110M.
- PI 617366. *Humulus lupulus* L.  
Cultivar. USDA 21617M; CHUM 894. Pedigree - 21397 x 21381M.
- PI 617367. *Humulus lupulus* L.  
Cultivar. CHUM 895. Pedigree - 21397 x 21381M.
- PI 617368. *Humulus lupulus* L.  
Cultivar. CHUM 896. Pedigree - 21397 x 21381M.
- PI 617369. *Humulus lupulus* L.  
Cultivar. CHUM 897. Pedigree - 64007 x 21337M.
- PI 617370. *Humulus lupulus* L.  
Cultivar. CHUM 898. Pedigree - 64007 x 21337M.
- PI 617371. *Humulus lupulus* L.  
Cultivar. CHUM 899. Pedigree - 64007 x 21337M.
- PI 617372. *Humulus lupulus* L.  
Cultivar. CHUM 900. Pedigree - 64007 x 21337M.

- PI 617373. *Humulus lupulus* L.**  
Cultivar. CHUM 901. Pedigree - 64007 x 21337M.
- PI 617374. *Humulus lupulus* L.**  
Cultivar. CHUM 902. Pedigree - 64007 x 21337M.
- PI 617375. *Humulus lupulus* L.**  
Cultivar. CHUM 903. Pedigree - 64007 x 21337M.
- PI 617376. *Humulus lupulus* L.**  
Cultivar. CHUM 904. Pedigree - 64007 x 21337M.
- PI 617377. *Humulus lupulus* L.**  
Cultivar. CHUM 905. Pedigree - 64007 x 21337M.
- PI 617378. *Humulus lupulus* L.**  
Cultivar. CHUM 906. Pedigree - 64007 x 21337M.
- PI 617379. *Humulus lupulus* L.**  
Cultivar. CHUM 907. Pedigree - 64007 x 21337M.
- PI 617380. *Humulus lupulus* L.**  
CHUM 908.
- PI 617381. *Humulus lupulus* L.**  
CHUM 909.
- PI 617382. *Humulus lupulus* L.**  
CHUM 910.
- PI 617383. *Humulus lupulus* L.**  
CHUM 911.
- PI 617384. *Humulus lupulus* L.**  
CHUM 912.
- PI 617385. *Humulus lupulus* L.**  
CHUM 913.
- PI 617386. *Humulus lupulus* L.**  
CHUM 914.
- PI 617387. *Humulus lupulus* L.**  
CHUM 915.
- PI 617388. *Humulus lupulus* L.**  
CHUM 916.
- PI 617389. *Humulus lupulus* L.**  
CHUM 917.
- PI 617390. *Humulus lupulus* L.**  
CHUM 918.
- PI 617391. *Humulus lupulus* L.**  
CHUM 919.

- PI 617392. *Humulus lupulus* L.  
CHUM 920.
- PI 617393. *Humulus lupulus* L.  
Cultivar. CHUM 921. Pedigree - 21120 x 21119M.
- PI 617394. *Humulus lupulus* L.  
Cultivar. CHUM 922. Pedigree - 21121 x 21119M.
- PI 617395. *Humulus lupulus* L.  
Cultivar. CHUM 923. Pedigree - 21120 x 19046M.
- PI 617396. *Humulus lupulus* L.  
Cultivar. CHUM 924. Pedigree - 21120 x 21119M.
- PI 617397. *Humulus lupulus* L.  
Cultivar. CHUM 925. Pedigree - 21120 x 21119M.
- PI 617398. *Humulus lupulus* L.  
Cultivar. CHUM 926. Pedigree - 21120 x 21119M.
- PI 617399. *Humulus lupulus* L.  
Cultivar. CHUM 927. Pedigree - 21120 x 21119M.
- PI 617400. *Humulus lupulus* L.  
CHUM 928.
- PI 617401. *Humulus lupulus* L.  
CHUM 929.
- PI 617402. *Humulus lupulus* L.  
CHUM 930.
- PI 617403. *Humulus lupulus* L.  
CHUM 931.
- PI 617404. *Humulus lupulus* L.  
CHUM 932.
- PI 617405. *Humulus lupulus* L.  
CHUM 933. Pedigree - 21534 x 21088M.
- PI 617406. *Humulus lupulus* L.  
CHUM 934. Pedigree - 21534 x 21361M.
- PI 617407. *Humulus lupulus* L.  
CHUM 935. Pedigree - 21534 x 21429M.
- PI 617408. *Humulus lupulus* L.  
CHUM 936. Pedigree - 21534 x 21618M.
- PI 617409. *Humulus lupulus* L.  
CHUM 937.
- PI 617410. *Humulus lupulus* L.  
CHUM 938.

- PI 617411. *Humulus lupulus* L.  
CHUM 939.
- PI 617412. *Humulus lupulus* L.  
CHUM 940.
- PI 617413. *Humulus lupulus* L.  
Cultivar. CHUM 941.
- PI 617414. *Humulus lupulus* L.  
Cultivar. CHUM 942.
- PI 617415. *Humulus lupulus* L.  
Cultivar. CHUM 943.
- PI 617416. *Humulus lupulus* L.  
Cultivar. CHUM 944.
- PI 617417. *Humulus lupulus* L.  
Cultivar. CHUM 945.
- PI 617418. *Humulus lupulus* L.  
Cultivar. CHUM 946.
- PI 617419. *Humulus lupulus* L.  
Cultivar. CHUM 947.
- PI 617420. *Humulus lupulus* L.  
Cultivar. CHUM 948.
- PI 617421. *Humulus lupulus* L.  
Cultivar. CHUM 949.
- PI 617422. *Humulus lupulus* L.  
Cultivar. CHUM 950.
- PI 617423. *Humulus lupulus* L.  
Cultivar. CHUM 951.
- PI 617424. *Humulus lupulus* L.  
Cultivar. CHUM 952.
- PI 617425. *Humulus lupulus* L.  
Cultivar. CHUM 953.
- PI 617426. *Humulus lupulus* L.  
Cultivar. CHUM 954.
- PI 617427. *Humulus lupulus* L.  
Cultivar. CHUM 955.
- PI 617428. *Humulus lupulus* L.  
Cultivar. CHUM 956.
- PI 617429. *Humulus lupulus* L.  
Cultivar. CHUM 957.

- PI 617430. *Humulus lupulus* L.  
Cultivar. CHUM 958.
- PI 617431. *Humulus lupulus* L.  
CHUM 959.
- PI 617432. *Humulus lupulus* L.  
Cultivar. CHUM 960. Pedigree - Ba x Ut526-4.
- PI 617433. *Humulus lupulus* L.  
Cultivar. CHUM 961.
- PI 617434. *Humulus lupulus* L.  
Cultivar. CHUM 962.
- PI 617435. *Humulus lupulus* L.  
Cultivar. CHUM 963.
- PI 617436. *Humulus lupulus* L.  
Cultivar. CHUM 964.
- PI 617437. *Humulus lupulus* L.  
Cultivar. CHUM 965.
- PI 617438. *Humulus lupulus* L.  
Cultivar. CHUM 966.
- PI 617439. *Humulus lupulus* L.  
Cultivar. CHUM 967.
- PI 617440. *Humulus lupulus* L.  
Cultivar. CHUM 968.
- PI 617441. *Humulus lupulus* L.  
Cultivar. CHUM 969.
- PI 617442. *Humulus lupulus* L.  
Cultivar. CHUM 970.
- PI 617443. *Humulus lupulus* L.  
Cultivar. CHUM 971.
- PI 617444. *Humulus lupulus* L.  
Cultivar. CHUM 972.
- PI 617445. *Humulus lupulus* L.  
Cultivar. CHUM 973.
- PI 617446. *Humulus lupulus* L.  
Cultivar. CHUM 974.
- PI 617447. *Humulus lupulus* L.  
Cultivar. CHUM 975.
- PI 617448. *Humulus lupulus* L.  
Cultivar. CHUM 976.

- PI 617449. *Humulus lupulus* L.  
Cultivar. CHUM 977.
- PI 617450. *Humulus lupulus* L.  
Cultivar. CHUM 978.
- PI 617451. *Humulus lupulus* L.  
Cultivar. CHUM 979.
- PI 617452. *Humulus lupulus* L.  
Cultivar. CHUM 980.
- PI 617453. *Humulus lupulus* L.  
Cultivar. CHUM 981.
- PI 617454. *Humulus lupulus* L.  
Cultivar. CHUM 982. Pedigree - 21521 x 64035M.
- PI 617455. *Humulus lupulus* L.  
Cultivar. CHUM 983. Pedigree - 21521 x 64035M.
- PI 617456. *Humulus lupulus* L.  
Cultivar. CHUM 984. Pedigree - 21521 x 64035M.
- PI 617457. *Humulus lupulus* L.  
Cultivar. CHUM 985. Pedigree - 21521 x 64035M.
- PI 617458. *Humulus lupulus* L.  
Cultivar. CHUM 986. Pedigree - 51522 x 21361M.
- PI 617459. *Humulus lupulus* L.  
Cultivar. CHUM 987. Pedigree - 51522 x 21361M.
- PI 617460. *Humulus lupulus* L.  
Cultivar. CHUM 988. Pedigree - 21522 x 21429M.
- PI 617461. *Humulus lupulus* L.  
Cultivar. CHUM 989. Pedigree - 21522 x 21429M.
- PI 617462. *Humulus lupulus* L.  
Cultivar. CHUM 990. Pedigree - 21522 x 21429M.
- PI 617463. *Humulus lupulus* L.  
Cultivar. CHUM 991. Pedigree - 21522 x 21617M.
- PI 617464. *Humulus lupulus* L.  
Cultivar. CHUM 992. Pedigree - 21522 x 21617M.
- PI 617465. *Humulus lupulus* L.  
Cultivar. CHUM 993. Pedigree - 21500 x 21617M.
- PI 617466. *Humulus lupulus* L.  
Cultivar. CHUM 994. Pedigree - 21522 x 21617M.
- PI 617467. *Humulus lupulus* L.  
Cultivar. CHUM 995. Pedigree - 21522 x 21618M.

**PI 617468. *Humulus lupulus* L.**  
Cultivar. CHUM 996. Pedigree - 21522 x 21618M.

**PI 617469. *Humulus lupulus* L.**  
Cultivar. CHUM 997. Pedigree - 21522 x 21618M.

**PI 617470. *Humulus lupulus* L.**  
Cultivar. CHUM 998. Pedigree - 21522 x 21618M.

The following were collected by Richard O. Hampton, 2170 Bonnie Dr., Payette, Idaho 83661, United States. Received 01/13/2000.

**PI 617471. *Humulus lupulus* var. *pubescens* E. Small**  
Wild. Rulo-E; CHUM 1019. Collected 11/1999 in Missouri, United States. Pedigree - Collected from the wild in Missouri. Certainly the premier population of this lower Missouri River region; includes plants that arguably produce the highest ratio of cones per unit-plant-mass in North America, with some of the most favorable cone/plant-type attributes. All cone samples yielded seeds; the fewest (18) produced by plant #8 and the most by plants #1 (~1,000) and #9 (~2,000).

**PI 617472. *Humulus japonicus* Siebold & Zucc.**  
Wild. Indian Cave; CHUM 1022. Collected in Nebraska, United States. Latitude 40 deg. 15' N. Longitude 95 deg. 31' W. Elevation 0 m. Along the lower Missouri River. Collected 11/1999 in Nebraska, United States. Latitude 40 deg. 15' N. Longitude 95 deg. 31' W. Elevation 0 m. Along the lower Missouri River. Pedigree - Collected from the wild in Nebraska. The Craig-SW and Indian Cave sites contain populations that appear to have 100% *H. japonicus* (i.e. NOT a sub-species of *H. lupulus*, as the binomial indicates). Compatibility of this species with conventional breeding-program objectives is problematic. Collection purpose: to test progenies for possible resistance to *Sphaerotheca humuli* DC. (Burr.); reconsideration of its value as a genetic resource, pending the outcome of resistance screen.

The following were developed by USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/20/2000.

**PI 617473. *Humulus japonicus* Siebold & Zucc.**  
Cultivated. *H. japonicus* OP (579/580); CHUM 1023. Pedigree - OP *H. japonicus* x *H. japonicus*. Seed increase of species *H. japonicus* using accessions PI 559274 and PI 559275.

The following were collected by M.J. Murray, Unknown. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/17/1989.

**PI 617474. *Mentha x dalmatica* Tausch**  
Wild. Collected in Georgia. Latitude 43 deg. 1' 0'' N. Longitude 41 deg. 2' 0'' E. Sukhumi, inland from the Black Sea beach. Pedigree - Collected from the wild in the USSR. Hairy and male sterile.

The following were collected by Isao Shimura, Tokyo University of Agriculture & Technology, Faculty of Agriculture, Tokyo, Tokyo 183, Japan. Developed by Medical Plant Garden, Science University of Tokyo, 2641 Yamazaki, Noda City, Chiba 278, Japan. Received 04/07/1983.

**PI 617475. *Mentha japonica* (Miq.) Makino**

Cultivated. Pedigree - Open pollinated from botanical collection.

The following were developed by Australia Dept. Agriculture, Ovens Research Station, PO Box 235, Myrtleford, Victoria 3737, Australia. Donated by Fred Bienvenu, Dept. Agriculture and Rural Affairs, Ovens Res. Sta., Ovens Highway PO Box 235, Myrtleford, Victoria 3737, Australia. Received 02/03/1992.

**PI 617476. *Mentha australis* R. Br.**

Uncertain. Collected in Victoria, Australia. Pedigree - Uncertain, possibly collected wild?. Additional information forthcoming.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 01/31/1992.

**PI 617477. *Mentha pulegium* L.**

Wild. W6-9520; Poleo. Collected 03/31/1991 in Cordoba, Spain. Latitude 37 deg. N. Longitude 4 deg. W. Elevation 700 m. Mountains near Zagrilla Alta in Southwestern Cordoba Prov. Pedigree - Collected from the wild in Spain. Andalucians make a tea from the plant.

The following were donated by Leonid A. Burmistrov, N.I. Vavilov Research Institute of Plant Industry, Department of Introduction, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 01/27/1992.

**PI 617478. *Mentha kopetdaghensis* Boriss.**

Wild. Kara Kala (?). Collected in Turkmenistan. Latitude 56 deg. 18' N. Longitude 38 deg. 29' E. Elevation 900 m. Kopetdag Mountains, near the border with Iran. Pedigree - Collected from the wild in Turkmenia. This in one of a set of five collections which differ only by their elevation

**PI 617479. *Mentha kopetdaghensis* Boriss.**

Wild. Kara Kala (?). Collected in Turkmenistan. Latitude 56 deg. 18' N. Longitude 38 deg. 29' E. Elevation 1200 m. Kopetdag Mountains, near the border with Iran. Pedigree - Collected from the wild in Turkmenia. This in one of a set of five collections which differ only by their elevation

The following were developed by Arthur O. Tucker, Delaware State University, Department of Agriculture and Natural Resources, Dover, Delaware 19901-2277, United States. Received 02/28/1992.

**PI 617480. *Mentha* hybrid**

Breeding. Pedigree - Selection of *M. arvensis* x *M. longifolia* (23-39).

The following were collected by Colin Ogle. Donated by Jeff E. Miller, AgResearch, Grasslands Research Centre, Fritzherbert West, Private Bag 11008, Palmerston North, North Island 11008, New Zealand. Received 04/27/1992.

**PI 617481. *Mentha cunninghamii* Benth.**

Wild. Collected 01/27/1992 in North Island, New Zealand. Latitude 39 deg. 40' 0'' S. Longitude 175 deg. 45' 0'' E. Rangitikei Dist., Waimahora Swamp in the Santoft Forest. Lat/lon accurate to Rangitikei District. Pedigree - Collected from the wild in New Zealand.

The following were collected by John W. Wrigley, PO Box 1639, Coffs Harbour, New South Wales 2450, Australia. Received 04/29/1992.

**PI 617482. *Mentha diemenica* Spreng.**

Wild. Collected 1992 in New South Wales, Australia. Latitude 20 deg. 47' S. Longitude 153 deg. 2' E. 3km along Wooli Rd. adjacent to a creek in eucalypt woodland. Pedigree - Collected from the wild in Australia. Post-entry permit no. 37-71362.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/29/1992.

**PI 617483. *Mentha canadensis* L.**

Breeding. Pedigree - Increased seed from CMEN 572.

**PI 617484. *Mentha* hybrid**

Breeding. Pedigree - Increased seed of CMEN 607.

**PI 617485. *Mentha* hybrid**

Breeding. Pedigree - Increased seed from CMEN 608.

The following were collected by Thomas A. Lumpkin, Washington State University, Department of Crop and Soil Science, 261 Johnson Hall, Pullman, Washington 99164-6420, United States. Received 08/05/1992.

**PI 617486. *Mentha x verticillata* L.**

Cultivated. 14. Collected 07/30/1992 in Sakhalin, Russian Federation. Latitude 47 deg. 2' N. Longitude 142 deg. 12' E. Elevation 500 m. Pyatirechye, Sakhalin Island - dacha area e. from Kholmsk. Pedigree - Unknown.

**PI 617487. *Mentha spicata* L.**

Cultivated. 14. Collected 07/30/1992 in Sakhalin, Russian Federation. Latitude 47 deg. 2' N. Longitude 142 deg. 12' E. Elevation 500 m. Pyatirechye, Sakhalin Island - dacha area e. from Kholmsk. Pedigree - Unknown.

**PI 617488. *Mentha x piperita nothosubsp. citrata* (Ehrh.) Briq.**

Cultivated. 14. Collected 07/30/1992 in Sakhalin, Russian Federation. Latitude 47 deg. 2' N. Longitude 142 deg. 12' E. Elevation 500 m. Pyatirechye, Sakhalin Island - dacha area e. from Kholmsk. Pedigree -

Unknown.

**PI 617489. *Mentha hybrid***

Cultivated. 14. Collected 07/30/1992 in Sakhalin, Russian Federation. Latitude 47 deg. 2' N. Longitude 142 deg. 12' E. Elevation 500 m. Pyatirechye, Sakhalin Island - dacha area e. from Kholmsk. Pedigree - *M. aquatica* x *spicata* var. *crispa*.

**PI 617490. *Mentha spicata* L.**

Cultivar. 24; mint = myata. Collected 07/24/1992 in Primorye, Russian Federation. Latitude 43 deg. 10' N. Longitude 131 deg. 53' E. Elevation 100 m. Vladivostok, Primor'ye - dacha garden NE on city edge. Pedigree - Unknown. Glabrous dark green.

**PI 617491. *Mentha longifolia* (L.) Huds.**

Cultivar. 25; "Velvet"; mint = myata. Collected 07/24/1992 in Primorye, Russian Federation. Latitude 43 deg. 10' N. Longitude 131 deg. 53' E. Elevation 100 m. Vladivostok, Primor'ye - dacha garden NE on city edge. Pedigree - Unknown.

**PI 617492. *Mentha x villosa* Huds.**

Cultivar. 26; mint = myata. Collected 07/24/1992 in Primorye, Russian Federation. Latitude 43 deg. 10' N. Longitude 131 deg. 53' E. Elevation 100 m. Vladivostok, Primor'ye - dacha garden NE on city edge. Pedigree - Unknown. Pubescent round leaves.

**PI 617493. *Mentha x gracilis* Sole**

Wild. 28; mint = myata. Collected 07/24/1992 in Primorye, Russian Federation. Latitude 43 deg. 58' N. Longitude 132 deg. E. Elevation 100 m. Primor'ye near Ussuriysk. Pedigree - Collected from the wild in Russia. ID?: Identity needs to be verified.

**PI 617494. *Mentha* sp.**

Cultivated. 27; mint = myata. Collected 07/24/1992 in Primorye, Russian Federation. Latitude 43 deg. 10' N. Longitude 131 deg. 53' E. Elevation 100 m. Vladivostok, Primor'ye - dacha garden NE on city edge. Pedigree - Unknown.

The following were developed by Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu, China. Received 10/09/1992.

**PI 617495. *Mentha haplocalyx* Briq.**

Uncertain. Collected in Jiangsu, China. Pedigree - Uncertain. Donor info sheet by H L Chambers.

The following were developed by Dennis A. Johnson, Washington State University, Rt 2 Box 2953A, Prosser, Washington 99350-9687, United States. Received 10/09/1992.

**PI 617496. *Mentha x gracilis* Sole**

Breeding. Scotch sel. 227. Pedigree - Selection of irradiated Scotch.

**PI 617497. *Mentha x gracilis* Sole**

Breeding. Scotch sel. 770. Pedigree - Selection of irradiated Scotch.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Developed by USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 11/16/1992.

**PI 617498. *Mentha australis* R. Br.**

Cultivated. Pedigree - Seedling selected from seed.

The following were donated by James McFerson, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456, United States. Received 08/13/1993.

**PI 617499. *Mentha spicata* L.**

Cultivated. Collected in Guatemala. Developed in United States. Pedigree - Open-pollinated composite collected in Pennsylvania. Reference PI 294099, G-11215.

The following were collected by R.G. Coveny. Donated by Peter Cuneo, Royal Botanical Gardens Sydney, Mount Annan Botanic Garden, Mount Annan Drive, Mount Annan, New South Wales 2567, Australia. Received 01/13/1995.

**PI 617500. *Mentha satereioides* R. Br.**

Cultivated. Collected 08/22/1987 in New South Wales, Australia. Latitude 29 deg. 16' S. Longitude 150 deg. 6' E. Elevation 0 m. 13.2 km E of North Star turnoff on Newell Hwy en back route to Yetman via Yallaroi. Growing with *Ixiolaena* sp. RGC 12677, *Eucalyptus populnea*, *Eremophila mitchellii*, *Geijera parviflora*, *Alectryon oleifolius*, etc. Roadside ditch. Clayey soil. Abundant. Herb to 15 cm high. Very aromatic leaves (peppermint).

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 09/07/1995.

**PI 617501. *Mentha spicata* L.**

Wild. Collected 09/04/1995 in Oregon, United States.

The following were donated by Paul Fridlund, Washington State University, IAREC, Prosser, Washington 99350, United States. Received 08/17/1981.

**PI 617502. *Pyrus communis* L.**

Cultivar. CPYR 63.

The following were developed by M. Tourasse. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 10/21/1987.

**PI 617503. *Pyrus communis* L.**

Cultivar. "Directeur Hardy". Pedigree - Seedling selection. From the seed beds of M. Fourasse and introduced by M. Baltet of Troyes, France, about 1894. Fruit resembles that of Beurre Hardy in size, form and

coloration but it is obviously a distinct variety. Flesh moderately fine. buttery and juicy but firmer in texture than Beurre Hardy. Sweet, pleasing flavor but lacks dessert quality. Midseason. Tree of medium vigor, productive, true dwarf on quince. Moderately susceptible to blight.<br><br>- H. Hartman, 1957<br>.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States . Donated by Porter Lombard, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon 97331, United States. Received 02/21/1981.

**PI 617504. *Pyrus communis* L.**

Cultivar. "Reimer Red". 2054. Pedigree - Comice x Max Red Bartlett. Fruit is late with a red blush, somewhat dry texture harvest weight 13-15/lb.

The following were donated by Paul Fridlund, Washington State University, IAREC, Prosser, Washington 99350, United States. Received 01/16/1984.

**PI 617505. *Pyrus calleryana* Decne.**

Uncertain. Developed in Uncertain. Pedigree - Uncertain.

The following were collected by B. Thibault, Station de Recherches, D'Arboriculture Fruitiere, Beaucouze, Angers, Maine-et-Loire 49000, France. Developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617506. *Pyrus cordata* Desv.**

Breeding. lot C R1-A. Collected in France. Pedigree - Seedling selection from seed collected wild in France. Original seedlot collected by B. Thibault.

The following were developed by Nancy W. Callan, Montana State University, Western Agricultural Research Center, 580 Quast Lane, Corvallis, Montana 59828-9721, United States. Received 03/24/1982.

**PI 617507. *Pyrus fauriei* C. K. Schneid.**

Breeding. Pedigree - Seedling selection from seedlot collected in Korea. Selected by Callan for cold hardiness in Montana.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States . Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617508. *Pyrus hondoensis* Kikuchi & Nakai**

Breeding. Pedigree - Seedling selection from seed collected wild in Japan. Original seedlot received by Reimer from Japan in 1917.

The following were developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617509. *Pyrus hondoensis*** Kikuchi & Nakai

Breeding. Pedigree - Seedling selection from seed originally collected in Japan.

**PI 617510. *Pyrus betulifolia*** Bunge

Breeding. Pedigree - Seedling selection from seedlot collected in Asia.

The following were developed by University of North Dakota, Dept. Horticulture, Fargo, North Dakota, United States. Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617511. *Pyrus hybrid***

Breeding. Pedigree - Uncertain.

The following were developed by Oregon State University, Oregon Agr. Experiment Station, Medford, Oregon, United States. Donated by Porter Lombard, Oregon State University, Department of Horticulture, Cordley Hall 2042, Corvallis, Oregon 97331, United States. Received 02/21/1981.

**PI 617512. *Pyrus hybrid***

Breeding. Pedigree - Seedling selection from seedlot collected in Asia. Drought resistant.

The following were developed by Dan Millikan, University of Missouri, Dept. Plant Pathology, Columbia, Missouri 65211, United States. Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617513. *Pyrus calleryana*** Decne.

Breeding. Ornamental Pear. Pedigree - Seedling selection. Atypical, selected in Montana for non-thorniness and cold-hardiness.

**PI 617514. *Pyrus calleryana*** Decne.

Breeding. Pedigree - Seedling selection.

**PI 617515. *Pyrus calleryana*** Decne.

Breeding. Pedigree - Seedling selection.

The following were donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States; The Morton Arboretum, Route 53, Lisle, Illinois 60532, United States. Received 04/08/1983.

**PI 617516. *Pyrus fauriei*** C. K. Schneid.

Cultivated. *P. fauriei* #107432. Collected in Korea, South. Developed in United States. Pedigree - Uncertain, possibly collected wild.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States . Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617517. *Pyrus pyrifolia* (Burm. f.) Nakai**

Breeding. Pedigree - Seedling selection from OP seed collected in Arboretum. Original seedlot collected by Wilson.

The following were developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617518. *Pyrus calleryana* Decne.**

Breeding. Ornamental Pear. Pedigree - Seedling selection from Asian seedlot. Long-chilling seed (selected for cold-hardiness), shows no evidence of winter damage.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States . Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617519. *Pyrus communis* L.**

Breeding. Rootstock Pear; OPR 5. Pedigree - Bartlett x (Old Home x Farmingdale).

The following were developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617520. *Pyrus calleryana* Decne.**

Breeding. Rootstock Pear; OPR 168. Pedigree - Seedling selection. Rootstock sprout.

The following were collected by Olez. Developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617521. *Pyrus communis* L.**

Breeding. Collected in Turkey. Pedigree - Seedling selection B from seed collected in Turkey. Original seedlot collected by H. Olez. Fruit larger than wild type, may be hybrid with domestic var.

**PI 617522. *Pyrus elaeagrifolia* Pall.**

Breeding. Collected in Turkey. Pedigree - Seedling selection C from seed collected in Turkey. Original seedlot collected at high elevations by H. Olez.

**PI 617523. *Pyrus elaeagrifolia* Pall.**

Breeding. Collected in Turkey. Pedigree - Seedling selection D from

seed collected in Turkey. Original seedlot collected at high elevations by H. Olez.

The following were developed by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/08/1983.

**PI 617524. *Pyrus pashia*** Buch.-Ham. ex D. Don  
Breeding. Pedigree - Seedling selection B from seed collected in W. Pakistan. Low-chilling type. Original seedlot collected by C.N. Ali in the Murree Hills.

**PI 617525. *Pyrus elaeagrifolia*** Pall.  
Breeding. Pedigree - Seedling selection from seed collected in Turkey. Original seedlot collected by H. Olez.

**PI 617526. *Pyrus* hybrid**  
Breeding. Rootstock Pear. Pedigree - *P. betulaefolia*-2 x *P. calleryana*-2 . Possibly a good rootstock clone.

The following were donated by Larry L. McGraw, Sheep Rock Nursery, Kimberly, Oregon 97848, United States. Received 01/05/1989.

**PI 617527. *Pyrus communis*** L.  
Cultivar. "Jiugnos". Developed in Italy. Pedigree - Uncertain. Fruit ripens in late June or July in Oregon. Has a delicate honeylike flavor. Miniature.

The following were developed by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 01/19/1989.

**PI 617528. *Pyrus* hybrid**  
Breeding. Pedigree - 20th Century x D'Anjou. Growth habit: natural vertical cordon covered with spurs.

The following were developed by Bill MacKently, St. Lawrence Nurseries, RD 2, Potsdam, New York 13676, United States. Received 11/27/1989.

**PI 617529. *Pyrus communis*** L.  
Cultivar. "Stacey". Pedigree - Chance seedling. Fruit is small but very sweet. Introduced by Clarke Nattress.

The following were donated by Bill MacKently, St. Lawrence Nurseries, RD 2, Potsdam, New York 13676, United States. Received 11/27/1989.

**PI 617530. *Pyrus communis*** L.  
Cultivar. "Waterville". Developed in United States. Pedigree - Uncertain. Large fruit with coarse, sweet flesh.

The following were developed by USDA, ARS, U.S. National Arboretum, Woody Landscape Plant Germplasm Repository, Glenn Dale, Maryland 20769, United

States. Donated by Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 11/24/1989.

**PI 617531. *Pyrus fauriei* C. K. Schneid.**

Breeding. Pedigree - Seedling selection from seed collected wild in Korea. Small multi-stemmed irreg. decid. shrub ca 1.3m tall.

The following were developed by M.E. Dreyer. Donated by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 01/08/1990.

**PI 617532. *Pyrus communis* L.**

Cultivar. "Colette". 1401. Pedigree - Unknown. Fruit resembles Bartlett, suitable for canning. This cv flowers throughout spring and summer - 'everbearing'.

The following were donated by Carlton Nursery, 14301 SE Wallace Rd., PO Box 398, Dayton, Oregon 97114-9988, United States. Received 01/10/1990.

**PI 617533. *Pyrus calleryana* Decne.**

Cultivar. "Cleveland Select"; Ornamental Pear. Developed in United States. Pedigree - Probably a selection from a street tree in Cleveland, OH. Description: Cleveland Select, which is named for the city of Cleveland, Ohio, where it presumably originated, is thought to be synonymous with Chanticleer. It was probably derived from a street tree in Cleveland, Ohio. Its tree branched with a conical crown shape and has very glossy summer foliage, and nice reddish fall color. It is considered one of the hardiest cultivars, (along with Aristocrat).

The following were donated by William Howell, Washington State University, Irrigated Agr. Research & Extension Cntr, 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 01/08/1990.

**PI 617534. *Pyrus communis* L.**

Cultivar. "Fame". Developed in Uncertain. Pedigree - Uncertain. Virus-free clone from IRP.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States. Donated by David Sugar, Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road, Medford, Oregon 97502, United States. Received 01/22/1990.

**PI 617535. *Pyrus communis* L.**

Breeding. French Resistant. Pedigree - Seedling selection. Shows resistance to blight.

The following were developed by Oregon State University, Oregon Agr. Experiment Station, Medford, Oregon, United States. Donated by David Sugar, Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road,

Medford, Oregon 97502, United States. Received 01/22/1990.

**PI 617536. *Pyrus communis* L.**

Breeding. Bartlett French Compatible. Pedigree - Seedling selection.

The following were donated by David Sugar, Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road, Medford, Oregon 97502, United States. Received 01/22/1990.

**PI 617537. *Pyrus ussuriensis* Maxim.**

Cultivar. "Chien Li". Developed in China. Pedigree - Uncertain.

**PI 617538. *Pyrus communis* L.**

Cultivar. "Poite Berringer". Developed in Uncertain. Pedigree - Uncertain.

**PI 617539. *Pyrus pyrifolia* (Burm. f.) Nakai**

Cultivar. "Mikado". Developed in Uncertain. Pedigree - Uncertain.

The following were donated by Bear Creek Nursery, Northport, Washington, United States. Received 01/31/1990.

**PI 617540. *Pyrus pyrifolia* (Burm. f.) Nakai**

Cultivar. "Singo". Developed in Korea, South. Pedigree - Uncertain. Asian cultivar, no additional information provided.

The following were developed by A.S. Tuz, N.I. Vavilov Institute, Maikop Experiment Station, Maikop, Adygea, Russian Federation. Donated by Leonid A. Burmistrov, N.I. Vavilov Research Institute of Plant Industry, Department of Introduction, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 02/02/1990.

**PI 617541. *Pyrus communis* subsp. *caucasica* (Fed.) Browicz**

Breeding. Pedigree - Uncertain, selection from the wild?.

**PI 617542. *Pyrus* hybrid**

Breeding. Pedigree - *P. communis* var. *caucasica* x *P. salicifolia*.

The following were developed by Jay Goodwin, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 04/09/1992.

**PI 617543. *Pyrus communis* L.**

Breeding. Pedigree - OP seedling selection from seedlot CPYR 2346.

The following were donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 02/02/1990.

**PI 617544. *Pyrus communis* L.**

Cultivar. "Doina". Developed in Uncertain. Pedigree - Uncertain. No additional information provided upon receipt.

**PI 617545. *Pyrus communis* L.**

Cultivar. "Aromata di Bistrita". Developed in Romania. Pedigree - Uncertain. No additional information provided upon receipt.

**PI 617546. *Pyrus communis* L.**

Cultivar. "Republica". Developed in Romania. Pedigree - Uncertain. No additional information provided upon receipt.

The following were developed by R. Blake, USDA, Lakewood, Ohio, United States . Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 02/02/1990.

**PI 617547. *Pyrus communis* L.**

Cultivar. "Lakewood". Pedigree - Uncertain. No additional information provided upon receipt.

The following were developed by J.W. Daniell; W.A. Chandler, Unknown; Ron Lane, University of Georgia, Georgia Agr. Exp. Sta., Department of Horticulture, Griffin, Georgia 30223, United States; Gerard Krewer, University of Georgia, Georgia Agr. Exp. Station, Coastal Plain Exp. Sta., Tifton, Georgia 31793, United States. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 02/02/1990.

**PI 617548. *Pyrus hybrid***

Cultivar. "Spalding". Pedigree - Unknown, although one parent is probably cv 'Pineapple'. Good quality pear cultivar for home planting in the Piedmont area of the Southeast, where fireblight is a major problem.

The following were developed by Brooks D. Drain; L.M. Safley. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 02/02/1990.

**PI 617549. *Pyrus communis* L.**

Cultivar. "Morgan". Pedigree - Bartlett x Late Faulkner. Considered resistant to fireblight, blooms later than selections of similar maturity period.

The following were developed by E.L. Miller, Nacogdoches, Texas, United States. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States . Received 02/02/1990.

**PI 617550. *Pyrus communis* L.**

Cultivar. "Miller's Seedling". Latitude 31 deg. 30' N. Longitude 94 deg. 45' W. Elevation 0 m. Pedigree - Uncertain. No additional information provided upon receipt.

The following were donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430,

United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 02/02/1990.

**PI 617551. *Pyrus communis* L.**

Cultivar. "Hall 20". Developed in United States. Pedigree - Uncertain. No additional information provided upon receipt.

The following were developed by USDA/ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 02/02/1990.

**PI 617552. *Pyrus communis* L.**

Breeding. Cedar Lane Farm 1. Pedigree - Uncertain. No additional information provided upon receipt.

**PI 617553. *Pyrus communis* L.**

Breeding. Cedar Lane Farm 3. Pedigree - Uncertain. No additional information provided upon receipt.

The following were developed by University of Minnesota, Minnesota Agr. Exp. Sta., St. Paul, Minnesota 55108, United States. Donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States. Received 02/14/1990.

**PI 617554. *Pyrus communis* L.**

Cultivar. "Bantam". Pedigree - Seedling selection. Very hardy, resistant to fireblight, fruit ripens early Sept.

The following were donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States. Received 02/14/1990.

**PI 617555. *Pyrus communis* L.**

Cultivar. "Bileu". Developed in Uncertain. Pedigree - Uncertain.

**PI 617556. *Pyrus communis* L.**

Cultivar. "Gaspard". Developed in United States. Pedigree - Uncertain.

**PI 617557. *Pyrus communis* L.**

Cultivar. "Placer". Developed in Uncertain. Pedigree - Uncertain.

The following were developed by Eugene C. Euwer, 8469 Cooper Spur Road, Parkdale, Oregon 97041, United States. Donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States. Received 02/14/1990.

**PI 617558. *Pyrus communis* L.**

Cultivar. "Columbia Red d'Anjou"; "Anjou - Euwer"; CANADA PYR152; Plant Patent 6194. 6194; Plant Patent 6194. Pedigree - Bud mutation of cv. Anjou. Fruit with overall bright red color, slow respiration rate and

low ethylene production during storage.

The following were developed by Larry L. McGraw, Sheep Rock Nursery, Kimberly, Oregon 97848, United States. Received 03/07/1990.

**PI 617559. *Pyrus salicifolia* Pall.**

Breeding. Pedigree - Seedling selection from seedlot from USSR. *P. salicifolia* hybrid, has pear blister mite resistance.

The following were donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 02/27/1990.

**PI 617560. *Pyrus pashia* Buch.-Ham. ex D. Don**

Wild. Collected in Nepal. Pedigree - Collected from the wild in Nepal. PIO has passport data.

The following were donated by Bill Schultz, 2446 Cardwell Hill Dr., Philomath, Oregon 97370, United States. Received 02/27/1990.

**PI 617561. *Pyrus communis* L.**

Cultivar. "Pineapple". Developed in Uncertain. Pedigree - Uncertain. No additional information provided upon receipt.

The following were developed by David Hunter, Agriculture Canada, Research Station, Harrow, Ontario N0R 1G0, Canada; Harvey Quamme, Agriculture Canada, Research Station, Summerland, British Columbia V0H 1Z0, Canada. Donated by David Hunter, Agriculture Canada, Research Station, Harrow, Ontario N0R 1G0, Canada. Received 03/01/1990.

**PI 617562. *Pyrus communis* L.**

Cultivar. "Harrow Sweet"; CANADA PYR141. . Pedigree - Bartlett x (Old Home x Early Sweet). Fall pear, medium vigor, frequent blooming on year-old wood, overall appearance of fruit resembles Bartlett.

The following were donated by A. David Crowe, Agriculture Canada, Research Station, Kentville, Nova Scotia B4N 1J5, Canada. Received 04/05/1990.

**PI 617563. *Pyrus communis* L.**

Cultivar. "Earlibrite". Developed in Uncertain. Pedigree - Uncertain.

The following were developed by A. David Crowe, Agriculture Canada, Research Station, Kentville, Nova Scotia B4N 1J5, Canada. Received 04/05/1990.

**PI 617564. *Pyrus communis* L.**

Cultivar. "Dave's Delight". Pedigree - Beierschmidt x Bartlett. Released as a dessert pear, processing qualities unknown.

The following were donated by Mark B. Fulford, Fulford Bros. Nursery, RR1 Box 3000, Robbins Farm Road, Monroe, Maine 04951, United States. Received

05/07/1990.

**PI 617565. *Pyrus communis* L.**

Cultivar. "Hermit". Developed in Uncertain. Pedigree - Uncertain. According to Fulford, this cultivar is immune or resistant to pear blister mite.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/29/1990.

**PI 617566. *Pyrus koehnei* C. K. Schneid.**

Cultivated. Collected 07/01/1990 in California, United States. Pedigree - Uncertain. This may be the same clone as PI 541832 (CPYR 818) from the W. Gibbs Nursery.

The following were developed by N.I. Vavilov All-Russian Scientific Research, Institute of Plant Genetic Resources, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Donated by Leonid A. Burmistrov, N.I. Vavilov Research Institute of Plant Industry, Department of Introduction, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 01/07/1991.

**PI 617567. *Pyrus elaeagrifolia* Pall.**

Uncertain. Pedigree - Uncertain.

**PI 617568. *Pyrus salicifolia* Pall.**

Uncertain. Pedigree - Uncertain.

The following were developed by Frederic (Frank) C. Reimer, Oregon State University, Southern Oregon Experiment Station, Talent, Oregon, United States. Donated by Melvin N. Westwood, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 11/1985.

**PI 617569. *Pyrus betulifolia* Bunge**

Breeding. Pedigree - Open pollinated from seedling selections. Seed mix from four clones found by Reimer to be blight resistant.

**PI 617570. *Pyrus betulifolia* Bunge**

Breeding. Pedigree - Open pollinated from seedling selections. Seed from seedlings of Reimer's *P. betulifolia* from the Medford orchard.

The following were developed by D.S. Blair; L.P.S. Spangelo, Agriculture Canada, Research Station, Box 29, Beaverlodge, Alberta T0H 0C0, Canada; W.R. Phillips, Agriculture Canada, Canada. Donated by Raymond L. Granger, Agriculture Canada, Research Station, 430 Gouin Blvd. St.-Jean-sur-Richlieu, Saint-Jean, Quebec J3B 3E6, Canada. Received 09/04/1991.

**PI 617571. *Pyrus communis* L.**

Cultivar. "Enie"; CANADA PYR148. Pedigree - Zuckerbirne x Clapp Favorite. Fruit medium sized, good quality. Vigorous and hardy at Ottawa. Recommended for home gardens in Eastern Canada.

The following were developed by Agriculture Canada, Agricultural Research Station, Regina, Saskatchewan, Canada. Donated by Raymond L. Granger, Agriculture Canada, Research Station, 430 Gouin Blvd. St.-Jean-sur-Richelieu, Saint-Jean, Quebec J3B 3E6, Canada. Received 09/04/1991.

**PI 617572. *Pyrus communis* L.**

Cultivar. "Miney"; CANADA PYR147. Pedigree - Zuckerbirne x Clapp Favorite. Fruit large, good quality, pleasant flavor. Resistant to fireblight. Recommended for home gardens in Eastern Canada.

The following were developed by Brooks D. Drain; L.M. Safley. Donated by James Lawson, Lawson Nursery, Rt. 1 Box 473, Yellow Creek Road, Ball Ground, Georgia 30107, United States. Received 09/09/1991.

**PI 617573. *Pyrus communis* L.**

Cultivar. "Carrick". Pedigree - Seckel x Garber. Flowers early, tends to bear good quality rusty-red fruit each year. Resistance to fireblight.

The following were developed by Philip Ritz. Donated by Larry L. McGraw, Sheep Rock Nursery, Kimberly, Oregon 97848, United States. Received 12/09/1991.

**PI 617574. *Pyrus communis* L.**

Cultivar. "Walla Walla Seedling". Pedigree - Chance seedling. Very cold hardy, late summer to early fall cropper in the Walla Walla area. Fruits yellow, med. sized, well-flavored.

The following were donated by Robert Skirvin, University of Illinois, Dept of Horticulture, 258 Plant and Animal Biotech. Lab., Urbana, Illinois 61801, United States. Received 02/01/1992.

**PI 617575. *Pyrus communis* L.**

Cultivar. "Louise Bonne d'Avanches Panachee". Developed in France. Pedigree - Bud sport of Louise Bonne de Jersey. Fruit and wood are marked with golden stripes. Used by Skirvin to study chimeral development.

The following were developed by Private Breeder, Stacyville, Maine, United States. Donated by Will Bonsall, Scatterseed Project, 39 Bailey Road, Industry, Maine 04938, United States. Received 03/23/1992.

**PI 617576. *Pyrus ussuriensis* Maxim.**

Cultivar. "Stacyville". Pedigree - Believed to be a cross of *P. ussuriensis*. Replaced 4/93.

The following were donated by Joe McCummins, Dept of Parks and Recreation, La Purisima Mission District, 2295 Purisima Road ., Lompoc, California 93436, United States. Received 09/17/1992.

**PI 617577. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 18-H". Pedigree - Uncertain. Mission pears

are being researched for historical info.

**PI 617578. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 17-E". Pedigree - Uncertain. Mission pears are being researched for historical info.

**PI 617579. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 1-A". Pedigree - Uncertain. Mission pears are being researched for historical info.

**PI 617580. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 2-A". Pedigree - Uncertain. Mission pears are being researched for historical info.

**PI 617581. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 17-G". Pedigree - Uncertain. Mission pears are being researched for historical info.

**PI 617582. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 1-C". Pedigree - Uncertain. Mission pears are being researched for historical info.

**PI 617583. *Pyrus communis* L.**

Cultivar. "La Purisima Pear 18-E". Pedigree - Uncertain. Mission pears are being researched for historical info.

The following were donated by Clarenie H. Barker, 475 Boyd Lane, Monmouth, Oregon 97361, United States. Received 10/05/1992.

**PI 617584. *Pyrus communis* L.**

Cultivar. "Joey's Red Flesh Pear". Developed in Uncertain. Pedigree - Probably Blutbirne. Scions grafted onto quince rootstock. From Joey's Farm - 100 year old orchard. This is probably "Blutbirne".

The following were collected by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 01/27/1993.

**PI 617585. *Pyrus communis* L.**

Cultivar. "Premices de Maria Lesueur". Developed in Uncertain. A small, unattractive, roundish pear with green color and heavy overlay of russet. Flesh fairly fine but gritty at the center, melting, and very juicy. Sweet vinous flavor similar to that of Liou's Pasteur. Rates rather high in dessert quality. Late keeper, inclined to wilt in storage. Tree reasonably vigorous, good foliage, fairly productive, true dwarf on quince. Moderately susceptible to blight.  
H. Hartman, 1957

The following were developed by National Agricultural Research Institute, Hiratsuka, Kanagawa, Japan. Donated by William Howell, Washington State University, Irrigated Agr. Research & Extension Cntr, 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 03/10/1993.

**PI 617586. *Pyrus pyrifolia* (Burm. f.) Nakai**

Cultivar. "Doitsu". Pedigree - Unknown. Originally cultured in the Kanto Area sometime following the Meiji Restoration. This replaces CPYR 178.001.

The following were donated by David J. Burkhart, Oregon State University, Mid-Columbia Exp. Sta., 3005 Experiment Station Dr, Hood River, Oregon 97031, United States. Received 03/23/1993.

**PI 617587. *Pyrus communis* L.**

Cultivar. "Blanquilla". Developed in Spain. Pedigree - No data (Spanish pear cultivar).

The following were collected by Elizabeth Dickson, NYS Agricultural Experiment Station, Horticultural Sciences, Hedrick Hall, Geneva, New York 14456-0462, United States; Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/05/1993.

**PI 617588. *Pyrus regelii* Rehder**

Uncertain. KAZ 93-45-02. Developed in Kazakhstan. Collected 09/1993 in Kazakhstan.

**PI 617589. *Pyrus regelii* Rehder**

Wild. KAZ 93-41-09. Collected 09/1993 in Kazakhstan.

**PI 617590. *Pyrus regelii* Rehder**

Wild. KAZ 93-46-02. Developed in Kazakhstan. Collected 09/1993 in Kazakhstan.

The following were collected by James Matuska. Donated by Robert A. Purvis, North American Fruit Explorers, 641 Hoffman Road, Selah, Washington 98942, United States. Received 02/03/1994.

**PI 617591. *Pyrus* sp.**

Clone. Latitude 47 deg. 0' N. Longitude 116 deg. 30' W. Elevation 914 m. Helmer, Idaho: a town between Deary and Elk River. Extremely hardy. See login notes for detailed info.

The following were developed by Herb C. Barrett, USDA, ARS, US Horticultural Research Laboratory, 2120 Camden Road, Orlando, Florida 32803, United States. Donated by William Barr, Rt. 2 Box 231, Port Gibson, Mississippi 39150, United States. Received 01/25/1994.

**PI 617592. *Pyrus* hybrid**

Breeding. Transmits blight resistance, fruit size and quality to progeny. Incompatible with quince rootstock.

The following were developed by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 01/05/1994.

**PI 617593. *Pyrus communis* L.**

Clone. Never has blister mite, even when the leaves of other trees next to it are full of gall in the spring. It is extremely vigorous. Many shoots grow 5 feet in one year.

The following were developed by USDA/ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 03/04/1994.

**PI 617594. *Pyrus communis* L.**

Clone. Superior resistance to fire blight with fruit of good quality.

The following were developed by E.V. Shear, USDA, Beltsville Agriculture Research Center, Beltsville, Maryland, United States. Donated by Richard L. Bell, USDA, ARS, Appalachian Fruit Research Station, 45 Wiltshire Road, Kearneysville, West Virginia 25430, United States. Received 03/04/1994.

**PI 617595. *Pyrus communis* L.**

Clone.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 10/07/1994.

**PI 617596. *Pyrus korshinskyi* Litv.**

Wild. Collected 09/27/1994 in Jalal-Abad, Kyrgyzstan. Latitude 41 deg. 15' N. Longitude 72 deg. 50' E. Elevation 1600 m. Ak-Terek - Experimental Station of Biosphere Institute in Jalalabad; 37 km N and 14 km W of Jalalabad. Growing on experimental station grounds with apple, pear, walnut, etc. on south slopes of Ferghana mountain range. This species used for pear rootstock in Kyrgystan, Uzbekistan, Tajikstan, and Kazakstan. Said to be more drought tolerant, more disease resistant than *P. regelii*. Very productive and many good seeds.

**PI 617597. *Pyrus korshinskyi* Litv.**

Wild. Collected 09/27/1994 in Jalal-Abad, Kyrgyzstan. Latitude 41 deg. 15' N. Longitude 72 deg. 50' E. Elevation 1600 m. Ak-Terek - Experimental Station of Biosphere Institute in Jalalabad; 37 km N and 14 km W of Jalalabad. Growing on experimental station grounds with apple, pear, walnut, etc. on south slopes of Ferghana mountain range. This species is the major pear rootstock in all central Asian countries. Said to be more drought tolerant and disease resistant than *P. regelii*. Very productive and many good seeds.

**PI 617598. *Pyrus korshinskyi* Litv.**

Wild. Collected 09/27/1994 in Jalal-Abad, Kyrgyzstan. Latitude 41 deg. 15' N. Longitude 72 deg. 50' E. Elevation 1600 m. Ak-Terek - Experimental Station of Biosphere Institute in Jalalabad; 37 km N and 14 km W of Jalalabad. Growing on experimental station grounds with apple, pear, walnut, etc. on south slopes of Ferghana mountain range. This species is the major pear rootstock in all central Asian countries. Said

to be more drought tolerant and disease resistant than *P. regelii*. Very productive and many good seeds.

The following were developed by Charles Harris. Donated by Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 12/01/1994.

**PI 617599. *Pyrus* hybrid**

Cultivar. A very large, slightly oval Asian developed as a selected seedling by Mr. Charles Harris and reported in *Pomona* (Vol 24, No 3, pg 8, 1991). Vigorous tree on calleryana - appears to be about 400 - 450 chill hours.

The following were donated by Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 12/01/1994.

**PI 617600. *Pyrus* hybrid**

Cultivar. Developed in United States. Originated in Converse, Louisiana about 1930. Legend has it that this was an unclaimed, mail order tree planted by a postal worker and named for his wife. It has been widely propagated in Louisiana and Texas and we all agree that it is a very sweet, high quality, dessert pear. The large, apple shaped fruit has a distinct 'shoulder'. It takes a few years to come into full bearing on calleryana. Probably about 400 - 450 chill units.

**PI 617601. *Pyrus* hybrid**

Cultivar. Developed in United States. Excellent quality, medium sized dessert pear. Reportedly came out of the Tennessee breeding program with Ayres. Apparently there is more than one cultivar propagated as Tenn in the South. This is the good one. It has a slightly pyriform shape, fairly uniform, and has a nice red blush on one side. About 350 - 400 chill hours (commonly sets two crops in Houston). Tree is very large and spreading on calleryana.

**PI 617602. *Pyrus* hybrid**

Cultivar. Developed in United States. Probably originated in Louisiana. Grown primarily for its low chill requirement (about 200 - 250 hours). A large, firm, pyriform fruit - fair quality. Tends to defoliate with the intense heat in Houston, does better in Louisiana.

**PI 617603. *Pyrus communis* L.**

Cultivar. Developed in United States. Bartlett sport found in Abbeville, Louisiana about 1969. Very productive and disease resistant there and in other sites. Clearly low chill but not fully evaluated in south Texas to determine how low. It does grow fairly well directly on calleryana but seems more vigorous with a comice interstem.

The following were developed by W.J. Strong, 1210 Polk St., Mansfield, Louisiana 71052, United States. Donated by Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 12/01/1994.

**PI 617604. *Pyrus communis* L.**

Cultivar. Found in Mansfield, Louisiana by a Dr. Strong (now deceased) who was a well-known fruit collector. Large, good quality and seems to be about 300 - 350 chill hours. Very productive. Grows well with comice

interstem - does not grow at all if grafted on Turnbull so may not do well if grafted directly on calleryana or an Asian.

The following were developed by South Africa Pear Research Station, South Africa. Donated by Herbert K. Durand, RR #6 Box 862A, Huntsville, Texas 77340, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 12/01/1994.

**PI 617605. *Pyrus communis* L.**

Cultivar. High quality medium sized pear developed at South Africa's Pear Research Station and imported here by Herb Durant (local blueberry hybridizer) 10 - 15 years ago (1979 - 1984). Lower chill (about 550 - 600 hours) than standard Bartlett and less blight sensitive for humid climates. Bears well in Houston where standard Bartlett fails.

The following were donated by Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 12/01/1994.

**PI 617606. *Pyrus* hybrid**

Cultivar. Developed in United States. Georgia pear - listed as blight sensitive in Dr. van der Zwet's book but has been blight resistant in Houston and in Louisiana. Very pretty, vigorous tree with spreading habit. Comes into production very early and makes large, nice looking pyriform fruits. Probably about 350 - 400 chill hours. Would be an ideal Southern pear except for one problem - no taste. It has good texture but not much sweetness. Probably would be useful in a breeding program since it has so many good traits.

The following were developed by Herb C. Barrett, USDA, ARS, US Horticultural Research Laboratory, 2120 Camden Road, Orlando, Florida 32803, United States. Donated by William Barr, Rt. 2 Box 231, Port Gibson, Mississippi 39150, United States. Received 02/01/1995.

**PI 617607. *Pyrus communis* L.**

Breeding. 80E-1 is a wild type of *P. communis* with a curious history and some valuable traits. In the 1920's the Horticulture Dept of the U of Illinois received a shipment of apple seeds from the St. Petersburg Botanic Garden of the USSR. Seedlings from these seeds were planted at the Horticulture Farm. In the early 1950's while a graduate student, Barrett noted a few pear seedlings growing among these apple seedlings. Barrett selected this seedling because of its good fireblight resistance and right angle limbs. During the 1956 bloom with temperatures around 22-23 degrees F, Barrett observed none of the blossoms were frozen, although every pear in the collection of about 200 flowering at the time had unfrozen blossoms or fruit that year. The fruit is poor quality, small and worthless per se, but the above mentioned traits should make it worth keeping. - Herb Barrett.

The following were developed by Institut za Vovcarstov, Cacak, Serbia, Yugoslavia. Donated by Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United

States. Received 05/04/1995.

**PI 617608. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were donated by N.I. Vavilov All-Russian Scientific Research, Institute of Plant Genetic Resources, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 05/04/1995.

**PI 617609. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617610. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617611. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617612. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were collected by Tom Van der Zwet, Appalachian Fruit Research Station, USDA-REE-ARS-NAA-AFR LAB-IFPI&P, Room 335, Kearneysville, West Virginia 25430-9425, United States. Donated by Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 05/04/1995.

**PI 617613. *Pyrus* sp.**

Cultivar. Collected in Yugoslavia. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617614. *Pyrus* sp.**

Cultivar. Y-193; "Vodenjaca"; T22096F; Q22096. Collected 1980 in Yugoslavia. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617615. *Pyrus* sp.**

Cultivar. Y195; "Jeribasma"; Vodenjac; Vodenjak; Vodenka; Vodenjaca; Vodenik; Q 22098; T22098 K. Collected 1980 in Yugoslavia. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were donated by Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States; A. Carraut, Echole Superieure, Dept. Horticulture, Chott-Mariem, Sousse, Tunisia. Received 05/04/1995.

**PI 617616. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617617. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

**PI 617618. *Pyrus communis* L.**

Cultivar. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were donated by Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 05/04/1995.

**PI 617619. *Pyrus* sp.**

Cultivar. Developed in China. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were donated by M. Nikolic, Institut za Vovcarstov, Cacak, Serbia 32000, Yugoslavia; Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 05/04/1995.

**PI 617620. *Pyrus communis* L.**

Cultivar. Developed in Yugoslavia. Released from quarantine in Beltsville. Plants received in this group with 'T' numbers are heat-treated sub clones of the original introductions.

The following were collected by Bill McNamera, Quarryhill Botanical Garden, Box 232, Glen Ellen, California 95442, United States; Lord Howick. Donated by Bill McNamera, Quarryhill Botanical Garden, Box 232, Glen Ellen, California 95442, United States. Received 07/17/1995.

**PI 617621. *Pyrus* hybrid**

Wild. Collected 10/19/1993 in India.

The following were collected by David J. Burkhart, Oregon State University, Mid-Columbia Exp. Sta., 3005 Experiment Station Dr, Hood River, Oregon 97031, United States. Received 08/30/1995.

**PI 617622. *Pyrus communis* L.**

Cultivar. Collected in Oregon, United States. May be mutant selection of Anjou or pathogen infected. Trees have deformed 'fluted' fruit with longitudinal ridges. Foliage different than Anjous in orchard. Fruit seems to be seedless - may be parthenocarpic fruit on sterile tree.

The following were collected by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 09/25/1995.

**PI 617623. *Pyrus* hybrid**

Wild. Collected 08/29/1995 in Kazakhstan. Latitude 47 deg. 14' 39'' N. Longitude 81 deg. 34' 14'' E. Elevation 870 m. Kazakhstan, Semipalitansk Region, Tarbagatai Mt. Range, 4 km NE of Alekseyevka, 20 km N of Urdzhar, collected in S end of west valley. Site 05, Collection no. 04. Gravely loam; stony; good drainage; flat; open environment; near stream. Associated w/ *Populus*, *Crataegus*, *Rosa*, *Viburnum*.

**PI 617624. *Pyrus* hybrid**

Wild. Collected 09/01/1995 in Kazakhstan. Latitude 47 deg. 15' 52'' N. Longitude 81 deg. 35' 5'' E. Elevation 1000 m. Kazakhstan, Semipalitansk Region, Tarbagatai Mt. Range, 20 km NE of Alekseyevka, 20 km N of Urdzhar, collected in middle and south valleys. Site 10, Collection no. 08L. 5 deg slope to the SW; open environment; next to small wetland; full light.

**PI 617625. *Pyrus* hybrid**

Wild. Collected 09/01/1995 in Kazakhstan. Latitude 47 deg. 15' 52'' N. Longitude 81 deg. 35' 5'' E. Elevation 1000 m. Kazakhstan, Semipalitansk Region, Tarbagatai Mt. Range, 20 km NE of Alekseyevka, 20 km N of Urdzhar, collected in middle and south valleys. Site 10, Collection no. 11F. 3 deg slope to the S; open environment.

**PI 617626. *Pyrus regelii* Rehder**

Wild. Collected 09/10/1995 in Kazakhstan. Latitude 42 deg. 53' 18'' N. Longitude 69 deg. 52' 52'' E. Elevation 900 m. Kazakhstan, Karataw, Boraldy River Forest area, 5 km N of Boraldy Forest camp which is 80 km N of Chimkent. Site 18, Collection no. 16. 5 deg slope to the W; open environment; very xerophytic site. Should be very cold hardy, down to minus 40 deg celcius in mountains.

The following were developed by C.F. Patterson. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617627. *Pyrus* hybrid**

Cultivar. CANADA PYR137; CPYR 2556. Introduced in 1960 for home gardens. *P. ussuriensis* x Bartlett; selected in 1958; tested as Sask. PR 1. Fruit: 2 inches long by 2 inches diam. under non-irrigated field conditions at Saskatoon; skin thin; flesh quality fair to good, but breaks down quickly; ripens in early Sept. Tree: hardy.  
Brooks and Olmo.

The following were donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617628. *Pyrus* sp.**

Cultivar. CANADA PYR135; CPYR 2557. Developed in Uncertain.

The following were developed by C.F. Patterson. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617629. *Pyrus* hybrid**

Cultivar. CANADA PYR106; CANADA PYR100; CPYR 2558. Orig. in Saskatoon, Saskatchewan, Canada, by C.F. Patterson, Univ. of Saskatchewan. Introduced in 1960 for home gardens. *Pyrus ussuriensis* x *Aspa*, selected in 1958; tested as Sask. PR 15. Fruit: up to 3 inches long and 2 1/2 inches in diam. under non-irrigated field conditions at Saskatoon; skin thin, yellowing well before flesh becomes soft; quality good; ripens in late September. Tree: hardy. <br>- Brooks and Olmo.

The following were developed by Agriculture Canada, Agricultural Research Station, Regina, Saskatchewan, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617630. *Pyrus communis* L.**

Clone. CANADA PYR130; CPYR 2560. The most promising of the recent (written in 1940s) Ottawa seedlings. This pear is very late in maturing and lacks a bit in size, but it has excellent texture and good quality. It will keep at 32F for several weeks. The tree is not fully hardy at Ottawa. <br>- Spangello, Phillips & Blair (in old Canadian bulletin, probably from the 1940s).

The following were developed by C.F. Patterson. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617631. *Pyrus* hybrid**

Cultivar. CANADA PYR102; CPYR 2561. Orig. in Saskatoon, Saskatchewan, Canada, by C.F. Patterson, Univ. of Saskatchewan. Introduced in 1960 for home gardens. *Pyrus ussuriensis* x *Aspa*, selected in 1958, tested as Sask. PR 6. Fruit: 2 1/8 inches long and 2 inches in diam. under non-irrigated field conditions at Saskatoon; skin moderately thin; quality very fair; ripens the last 2 weeks in September. Tree: hardy. <br>- Brooks and Olmo <br>.

The following were donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617632. *Pyrus* sp.**

Cultivar. CANADA PYR134; CPYR 2562. Developed in Uncertain.

The following were developed by C.F. Patterson. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617633. *Pyrus hybrid***

Cultivar. CANADA PYR133; CPYR 2563. Orig. in Saskatoon, Saskatchewan, Canada, by C.F. Patterson, Univ. of Saskatchewan. Introd. in 1960 for home gardens. *Pyrus ussuriensis* x *Aspa*; selected in 1958; tested as Sask. PR 9. Fruit: 2 1/2 inches long and 1 7/8 inches in diam. under non-irrigated field conditions at Saskatoon; skin moderately thin; quality fair; ripe during the last 2 weeks of September. Tree: hardy.  
- Brooks and Olmo.

The following were developed by David Tait, Cartertown, Ontario, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617634. *Pyrus communis* L.**

Cultivar. CANADA PYR107; CPYR 2564. Orig. in Cartertown, Ont., Canada, by David Tait. Introd. in 1928 by Skinner's Nursery, Dropmore, Manitoba, Canada. Open-pollinated seedling of Patten; discovered about 1935. Fruit: small, up to 2 inches in diam.; pyriform; irregular; skin greenish-yellow, blushed dull carmine, thick; flesh dull yellow, coarse, gritty; flavor sweet, pleasant as dessert fruit, fair as sauce; season early to mid-September. Tree: upright-spreading; vigorous; very hardy; partially resistant to fire blight; productive.  
- Brooks and Olmo.

The following were developed by C.F. Patterson. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 02/07/1996.

**PI 617635. *Pyrus hybrid***

Cultivar. CANADA PYR155; CPYR 2565. Orig. in Saskatoon, Saskatchewan, Canada, by C.F. Patterson, Univ. of Saskatchewan. Introd. in 1960 for home gardens, *Pyrus ussuriensis* x *Bartlett*; selected in 1959; tested as Sask. PR 17. Fruit 2 1/4 inches long and 2 1/4 inches in diam. under non-irrigated field conditions at Saskatoon; flesh very firm, quality fair; keeps well in cold storage; ripens during late September to early October. Tree: hardy.  
- Brooks and Olmo.

The following were donated by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 03/06/1996.

**PI 617636. *Pyrus communis* L.**

Cultivar. CPYR 2566.

**PI 617637. *Pyrus communis* L.**

Cultivar. CPYR 2567.

- PI 617638. *Pyrus communis* L.**  
Cultivar. CPYR 2569.
- PI 617639. *Pyrus communis* L.**  
Cultivar. CPYR 2570. Developed in Italy.
- PI 617640. *Pyrus communis* L.**  
Cultivar. CPYR 2571.
- PI 617641. *Pyrus communis* L.**  
Cultivar. CPYR 2572.
- PI 617642. *Pyrus hybrid***  
Cultivar. CPYR 2573.
- PI 617643. *Pyrus pyrifolia* (Burm. f.) Nakai**  
Cultivar. CPYR 2574.
- PI 617644. *Pyrus communis* L.**  
Cultivar. CPYR 2575.
- PI 617645. *Pyrus communis* L.**  
Cultivar. CPYR 2576.

The following were developed by W.E. Whitehouse, Bureau of Plant Industry, Washington, District of Columbia, United States; G.A. Seaton; John Creech, North Carolina Arboretum, 14 Legendary Road, Hendersonville, North Carolina 28739, United States. Donated by William Howell, Washington State University, Irrigated Agr. Research & Extension Cntr, 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 01/26/1996.

- PI 617646. *Pyrus calleryana* Decne.**  
Cultivar. CPYR 2577. Pedigree - Seedling selection from seedlot PI 47261 . Attractive in early spring when it blooms, easily trained, good autumn foliage color, very adaptable to range of conds. This virus free accession replaces virus infected CPYR 2184.

The following were developed by Unknown, not known. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 11/06/1996.

- PI 617647. *Pyrus pyrifolia* (Burm. f.) Nakai**  
Cultivar. CPYR 2586. Pedigree - selection of *Pyrus pyrifolia*.

The following were collected by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 10/24/1996.

**PI 617648. *Pyrus calleryana* Decne.**

Wild. 96107; CPYR 2588. Collected 1995 in Liaoning, China. Pedigree - collected from the wild in Liaoning.

The following were collected by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Received 10/24/1996.

**PI 617649. *Pyrus betulifolia* Bunge**

Wild. CPYR 2589. Collected 1995 in Heilongjiang, China. Pedigree - collected from the wild in Heilongjiang, China.

The following were collected by Charles Tubesing, The Holden Arboretum, 9500 Sperry Road, Kirtland, Ohio 44094-5172, United States; Rick J. Lewandowski, Morris Arboretum, The University of Pennsylvania, 9414 Meadowbrook Road, Philadelphia, Pennsylvania 19118, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Kris Bachtell, The Morton Arboretum, 4100 Illinois Route 53, Lisle, Illinois 60532-1293, United States. Received 01/30/1997.

**PI 617650. *Pyrus xerophila* T. T. Yu**

Wild. QLG 227; NA 67858. Collected 10/04/1996 in Gansu, China. Latitude 34 deg. 18' 15'' N. Longitude 106 deg. 12' 27'' E. Elevation 1630 m. Tian Shui City District, Xiao Long Shan Forest Bureau, Dang Chuan Forest Station, Mia Chao Gou. Growing in an open grassy area in full sun; with *Anemone hupehensis*, *Fraxinus* sp., *Fragaria* sp., ferns and numerous herbaceous species. Level clay-loam soil.

The following were developed by Arnold Tschanz, USDA, APHIS, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 04/02/1997.

**PI 617651. *Pyrus communis* L.**

Cultivated. CPYR 2592. Pedigree - Selection of *Pyrus communis*.

Unknown source. Received 09/10/1997.

**PI 617652. *Pyrus communis* L.**

Cultivated. CPYR 2593.

Unknown source. Received 09/10/1997.

**PI 617653. *Pyrus pyrifolia* (Burm. f.) Nakai**

Cultivated. CPYR 2594.

The following were developed by Helmut Jacob, Research Station Geisenheim, Geisenheim, Rhineland-Palatinate, Germany. Donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States; Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States;

Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States. Received 03/20/1998.

**PI 617654. *Pyrus communis* L.**

Cultivar. "Pyrodwarf"; BU 5/18; Rhenus 1; CPYR 2598. Pedigree - Old Home x Bonne Luise d' Avranches.

The following were donated by The Hebrew University of Jerusalem, Mount Scopus Botanical Garden, Jerusalem, Jerusalem, Israel. Received 01/15/1996.

**PI 617655. *Pyrus amygdaliformis* Vill.**

Wild. *P. amygdaliformis*; 453; CPYR 2599. Pedigree - Collected from the wild in Israel.

The following were donated by Paul A. Domoto, Iowa State University, College of Agriculture, Department of Horticulture, Ames, Iowa 50011-1100, United States; She Zhang Feng, Shijiazhuang Institute of Fruit Trees, Hebei Academy of Agriculture and Forestry, No.3 Wuqi Road, Shijiazhuang City, Hebei 050051, China. Received 03/11/1996.

**PI 617656. *Pyrus betulifolia* Bunge**

Cultivated. *P. betulifolia*; CPYR 2600. Pretreatment of seeds of rootstock before sowing. The seeds of the rootstock will germinate only after the treatment of cold stratification. The stratification method is as following: 1) Stratification time: in late January. 2) Treatment: seeds are soaked in water for twelve hours. After seeds are saturated with water, seeds are mixed with fine sand in the proportion of 1:4-6. The moisture content of sand shall be appropriate when sand can be held together in the hand but with no free water flowing out. The container used for storage can be a wooden box or a chinaware. Cover the sides and bottom inside the container with a layer (approximately two centimeters thick) of moist sand; then place the mixture of seeds and sand inside the container; fill the top of the container with a five centimeter depth of moist sand; at last, seal the top with a layer of white plastic film (0.05 to 0.10 mm thick). The container should be placed at an open and cool place (such as outside the.

The following were donated by Ethan A. Natelson, 8707 Wateke Drive, Houston, Texas 77074, United States. Received 01/06/1999.

**PI 617657. *Pyrus* sp.**

Cultivar. "Higdon"; CPYR 2602.

**PI 617658. *Pyrus* sp.**

Cultivar. "Fan-Stil"; CPYR 2603.

**PI 617659. *Pyrus* sp.**

Cultivar. "Broussard"; CPYR 2604.

**PI 617660. *Pyrus* sp.**

Cultivar. "Honey Dew"; CPYR 2605.

**PI 617661. *Pyrus* sp.**

Cultivar. "Thanksgiving"; CPYR 2606.

- PI 617662. Pyrus sp.**  
Cultivar. "Oakhill"; CPYR 2607.
- PI 617663. Pyrus sp.**  
Cultivar. "Shin Li"; CPYR 2608. PP6076.
- PI 617664. Pyrus sp.**  
Cultivar. "Henderson"; CPYR 2609.
- PI 617665. Pyrus sp.**  
Cultivar. "Rising Star"; CPYR 2610.
- PI 617666. Pyrus sp.**  
Cultivar. "Florida 58-45"; CPYR 2611.
- PI 617667. Pyrus sp.**  
Cultivar. "Vaughn"; CPYR 2612.
- PI 617668. Pyrus sp.**  
Cultivar. "Emancipation"; CPYR 2613.
- PI 617669. Pyrus sp.**  
Cultivar. "Baldwin"; CPYR 2614. Pedigree - Origin unknown.
- PI 617670. Pyrus sp.**  
Cultivar. "Pope [Bonner]"; CPYR 2615.
- PI 617671. Pyrus sp.**  
Cultivar. "Brown's Bartlett"; CPYR 2616.
- PI 617672. Pyrus sp.**  
Cultivar. "Quave"; CPYR 2617.

The following were donated by Suzanne Hurtt, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 02/24/1999.

- PI 617673. Pyrus sp.**  
Cultivated. "Buo Tsu Li"; CPYR 2618; Q25055.
- PI 617674. Pyrus sp.**  
Cultivated. "Ooharabeni"; CPYR 2619; Q25801.
- PI 617675. Pyrus communis L.**  
Cultivated. "Buerre Six"; CPYR 2620; Q26191.
- PI 617676. Pyrus sp.**  
Cultivated. "Osenniaja Jakovleva"; CPYR 2621; Q26661.

The following were donated by David Sugar, Oregon State University, Southern Oregon Experiment Station, 569 Hanley Road, Medford, Oregon 97502, United States. Received 02/22/1999.

- PI 617677. Pyrus communis L.**

Cultivar. "Yungen"; CPYR 2622.

The following were donated by John Ireland, Fowler Nurseries, Inc, 525 Fowler Road, Newcastle, California 95658, United States. Received 02/24/1999.

**PI 617678. *Pyrus sp.***

Cultivar. "Olympic"; CPYR 2623.

The following were developed by Helmut Jacob, Research Station Geisenheim, Geisenheim, Rhineland-Palatinate, Germany. Donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States. Received 05/05/1999.

**PI 617679. *Pyrus communis* L.**

Cultivar. "Pyrodwarf 2"; BU 2/33; PY 2/33; CPYR 2699. Pedigree - Old Home x Bonne Luise d'Avranches.

The following were developed by Horticulture Research International, East Malling / West Malling, Kent, England ME19 6BJ, United Kingdom. Donated by Eugene Mielke, Oregon State University, Mid-Columbia Experiment Station, 3005 Experiment Station Drive, Hood River, Oregon 97031, United States; Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States. Received 05/05/1999.

**PI 617680. *Pyrus communis* L.**

Cultivar. QR 708-2; CPYR 2703. Pedigree - *Pyrus communis* 'BP-1' x 'Old Home'.

The following were developed by University of Bologna, Istituto di Coltivazioni Arboree, Via Filippo RE 6-40126, Bologna, Emilia-Romagna, Italy. Donated by Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States. Received 08/20/1999.

**PI 617681. *Pyrus communis* L.**

Cultivar. "Fox 11"; A 28; CPYR 2707. Pedigree - *Pyrus communis* 'Mora' x 'Volpina' (open pollinated).

**PI 617682. *Pyrus communis* L.**

Cultivar. "Fox 16"; B 21; CPYR 2708. Pedigree - *Pyrus communis* 'Mora' x 'Volpina' (open pollinated).

The following were donated by Thomas Brown, 200 Fourth Street #E, Petaluma, California 94952, United States. Received 03/16/2000.

**PI 617683. *Pyrus communis* L.**

Cultivated. Mission San Juan Bautista Pear; CPYR 2711. Pedigree - *Pyrus communis* brought to and planted at Mission San Juan Bautista, California prior to 1836. Are they Spanish? Hard to say, but I suspect the times militate against it being so. Safer to say they are Mexican, for California was Mexican after 1820, and I am being conservative in assigning times to these trees. They may have been chance hybrids from Baja, or even brought up from Sinaloa or Chihuahua. There are still two

very large old trees from about 1820 at Fort Ross on the coast. The Russians almost certainly obtained them from Monterey or San Francisco, and possibly as seeds rather than scions. Someone I questioned about them had tried to identify them 20 or so years ago, but with no success. Those I just sent are all from single trunks, not multiples or basal shoots. I think the usual European practice was to graft them onto Quince stock (*Cydonia*) and there is no sign of any quinces around, although there is one at the Indians resort, 15 miles from Mission San Antonio where I got some mission grape cuttings and mission fig cuttings. We just call them Mission.

**PI 617684. *Pyrus communis* L.**

Cultivated. Dunn Adobe Pear; CPYR 2712. Pedigree - *Pyrus communis* planted about 1840 and still growing (March 2000) at Dunn Adobe, California. Dunn Adobe is between King City and Jolon, on the Jolon Road, a couple of miles below the Jolon Grade. Are they Spanish? Hard to say, but I suspect the times militate against it being so. Safer to say they are Mexican, for California was Mexican after 1820, and I am being conservative in assigning times to these trees. They may have been chance hybrids from Baja, or even brought up from Sinaloa or Chihuahua. There are still two very large old trees from about 1820 at Fort Ross on the coast. The Russians almost certainly obtained them from Monterey or San Francisco, and possibly as seeds rather than scions. Someone I questioned about them had tried to identify them 20 or so years ago, but with no success. Those I just sent are all from single trunks, not multiples or basal shoots. I think the usual European practice was to graft them onto Quince stock (*Cydonia*) and there is no sign of any quinces around, although there is one at the Indians resort, 15 miles from Mission San.

The following were collected by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 01/21/2000.

**PI 617685. *Pyrus communis* L.**

Breeding. *Pyrus communis* 'Albany 238'; CPYR 2713. Collected in Oregon, United States. Latitude 44 deg. 39' 29'' N. Longitude 123 deg. 3' 33'' W. Elevation 100 m. The tree is directly west of the sign for exit 230 (the first Jefferson exit, just north of Albany) on Interstate 5. Near mile post 238. Roadside with grass. Collected 01/21/2000 in Oregon, United States. Latitude 44 deg. 39' 29'' N. Longitude 123 deg. 3' 33'' W. Elevation 100 m. The tree is directly west of the sign for exit 230 (the first Jefferson exit, just north of Albany) on Interstate 5. Near mile post 238. Roadside with grass. Pedigree - Collected from the wild in Oregon. Lon describes it as a very sweet, honey flavored pear with almost the shape of a Bartlett. This pear would be excellent for juice. The texture needs to be improved to compete with present cultivars but this pear would be excellent for breeding material.

The following were collected by Wayne Huffstutter, 9525 S.W. 12th Drive, Portland, Oregon 97219, United States. Received 03/30/2000.

**PI 617686. *Pyrus communis* L.**

Cultivated. Hager Grove Pioneer Pear; CPYR 2714. Collected 1980 in Oregon, United States. Traffic whirls past the historic Hager Grove pear tree in Salem without a clue to the stories buried in the rings of

its 150-plus-year-old trunk. The fact that it even stands is a miracle, at least in the mind of Maynard C. Dawson, tree lover, history buff and member of the Oregon Heritage Tree Program committee. "It had no right to remain any more than the others." he says of the tree that flourished in the fertile valley before freeways, Home Depots and traffic lights took over. The orchard, planted by Benjamin Franklin Munkre in the mid-1800s, bordered a park and campground, where earlier in this century Salem families congregated for all sorts of social events. "It used to be a big, big deal (great occasion) to have Sunday school gatherings, baptisms and picnics here," recalls Dawson. "There used to be a covered bridge right upstream there (from here)," he adds a bit wistfully. The Hager Grove pear "is the biggest pear tree in the state of Oregon" says Dawson, who.

The following were developed by M.C. Smith, Unknown. Donated by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 1981.

**PI 617687. *Ribes uva-crispa* L.**

Cultivar. "Friedl"; CANADA RIB0164. Pedigree - Chance seedling, apparently a natural hybrid.

The following were collected by Otto L. Jahn, 33740 Terra Ln., Corvallis, Oregon 97330, United States. Received 09/16/1986.

**PI 617688. *Ribes triste* Pall.**

Wild. Swamp Red Currant. Collected 08/31/1986 in Alaska, United States. Latitude 64 deg. 50' N. Longitude 146 deg. 30' W. Elevation 270 m. Chena River State Rec. Area along Granite Tors Trail. Pedigree - Collected from the wild in Alaska. Fruit gone except 2, thornless deciduous shrub.

The following were donated by Commercial Fruit Plants, Brooker Farm, Newchurch, Kent, England TN29 ODX, United Kingdom. Received 11/08/1989.

**PI 617689. *Ribes rubrum* L.**

Cultivar. Pedigree - white mutant of red currant. This cultivar has the largest cluster and berry of all white currants.

The following were developed by William Saunders, Canada Department of Agriculture, Central Experiment Farm, Ottawa, Ontario, Canada. Donated by Sherwood Miller, Ohio, United States. Received 04/23/1991.

**PI 617690. *Ribes nigrum* L.**

Cultivar. CANADA RIB0123. Pedigree - Selection of R. nigrumNeapolitanskaja x self. Plant vigorous, very productive, clusters of medium size, berries large, skin thick, subacid, good, midseason. - SFNY. 1925.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/30/1991.

**PI 617691. *Ribes fasciculatum*** Siebold & Zucc.

Wild. Collected 08/21/1991 in Jiangsu, China. Pedigree - collected from the wild in Jiangsu, China.

The following were collected by Jim Chandler, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon, United States. Received 09/27/1991.

**PI 617692. *Ribes aureum*** Pursh

Wild. Golden Currant. Collected 09/24/1991 in Oregon, United States. Latitude 42 deg. 25' N. Longitude 118 deg. 50' W. Elevation 1650 m. Steens Mtn., Blitzen Crossing at Donner und Blitzen River. Pedigree - Collected from the wild in Oregon. OP fruit from wild population. Orange fruit from 2 plants. Alkaline creek bottom, sagebrush the dominant species.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 09/26/1991.

**PI 617693. *Ribes* sp.**

Wild. Collected 09/07/1991 in Oregon, United States. Latitude 44 deg. N. Longitude 122 deg. 30' W. Iron Mountain. Pedigree - selected from the wild in Oregon.

The following were collected by He Shan An, Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu 21004, China. Received 11/15/1991.

**PI 617694. *Ribes fasciculatum* var. *chinense*** Maxim.

Cultivated. Collected in Jiangsu, China. Pedigree - Uncertain, from botanical collection. No additional information provided.

The following were donated by Byron T. Johnson, 7934 State Road, Cincinnati, Ohio 45255, United States. Received 02/04/1992.

**PI 617695. *Ribes sanguineum*** Pursh

Wild. Red Flowering Currant, Blood Currant. Collected in Washington, United States. Pedigree - selection of wild species from Washington (?) . Received listed as a 'native' *Ribes*. Dark red flowers, considered by Johnson to be an exceptional specimen.

The following were donated by Robert Kleiman, USDA, ARS, National Center for Agric., Utilization Research, Peoria, Illinois 61604, United States. Received 01/31/1992.

**PI 617696. *Ribes cereum* var. *inebrians*** (Lindl.) C. L. Hitchc.

Uncertain. Wax Currant, White-flowered Currant. Collected in Utah, United States. Pedigree - collection from the wild in Utah. Original seedlot collected by A.T. Bleak, Ephraim Canyon.

**PI 617697. *Ribes montigenum*** McClatchie

Uncertain. Spiny Currant. Collected in Utah, United States. Pedigree - collected from the wild in Utah. Original seedlot collected by A.T.

Bleak, Ephraim Canyon.

**PI 617698. *Ribes alpinum* L.**

Wild. Collected in Yugoslavia. Pedigree - collected from the wild in Yugoslavia. Improvement status unspecified.

The following were collected by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 617699. *Ribes magellanicum* Poir.**

Wild. 2 CON 1A. Collected 02/1992 in Chile. Pedigree - collected from the wild from Chile. Collection information is forthcoming.

**PI 617700. *Ribes magellanicum* Poir.**

Breeding. 2 MAL 1B. Collected 02/1992 in Chile. Pedigree - collected from the wild from Chile. Collection information is forthcoming.

**PI 617701. *Ribes magellanicum* Poir.**

Breeding. 2 VEN 1A. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 03/31/1992.

**PI 617702. *Ribes velutinum* Greene var. *velutinum***

Wild. Collected 08/21/1991 in Oregon, United States. Latitude 42 deg. 40' N. Longitude 121 deg. W. Lakeview to Bryant Mtn, above Capt. Jack Lake. Pedigree - Collected from the wild in Oregon. Individuals had already lost most of their leaves for the season.

**PI 617703. *Ribes binominatum* A. Heller**

Wild. Ground Currant, Siskyou Currant. Collected 08/23/1991 in Oregon, United States. Latitude 42 deg. 10' N. Longitude 122 deg. 15' W. Hershberger Mtn. near Acker Divide/Rogue-Umpqua Divide trail. Pedigree - Collected from the wild in Oregon. Rooted cuttings and pressings taken

The following were donated by A.T. Whittemore, Missouri Botanical Garden, Biology Department, P.O. Box 299, St. Louis, Missouri 63166-0299, United States. Received 04/29/1992.

**PI 617704. *Ribes aureum* Pursh**

Cultivated. Collected in Missouri, United States. Pedigree - Open pollinated from botanical collection.

**PI 617705. *Ribes alpinum* L.**

Cultivated. Collected in Missouri, United States. Pedigree - Open pollinated from botanical collection.

The following were collected by Bill Russel. Donated by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 06/17/1992.

**PI 617706. *Ribes americanum* Mill.**

Wild. Collected in Pennsylvania, United States. Latitude 40 deg. 51' 0'' N. Longitude 77 deg. 41' 0'' W. Centre Hall. Pedigree - Collected from the wild in Pennsylvania.

**PI 617707. *Ribes rotundifolium* Michx.**

Wild. Collected in Pennsylvania, United States. Latitude 40 deg. 51' 0'' N. Longitude 77 deg. 41' 0'' W. Centre Hall. Pedigree - collected from the wild in Pennsylvania.

The following were collected by Thomas A. Lumpkin, Washington State University, Department of Crop and Soil Science, 261 Johnson Hall, Pullman, Washington 99164-6420, United States. Received 08/05/1992.

**PI 617708. *Ribes* sp.**

Wild. 15; ribes = smorodina. Collected 07/30/1992 in Russian Federation. Latitude 47 deg. 2' N. Longitude 142 deg. 12' E. Elevation 500 m. Recently cleared forest brush - garden, southern exposure. Pedigree - Collected from the wild in Russia.

**PI 617709. *Ribes* hybrid**

Wild. 31; ribes = smorodina. Developed in Russian Federation. Collected 07/24/1992 in Russian Federation. Latitude 43 deg. 10' N. Longitude 131 deg. 53' E. Elevation 100 m. Pedigree - *Ribes nigrum* x *R. paueitcorum*, F1, var. Ussuri.

**PI 617710. *Ribes* sp.**

Wild. 33; ribes = smorodina. Collected 07/24/1992 in Russian Federation. Latitude 43 deg. 58' N. Longitude 132 deg. E. Elevation 100 m. Home garden, Ussuriysk, Primor'ye. Pedigree - collected from the wild in Russia.

The following were donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 08/19/1992.

**PI 617711. *Ribes petraeum* Wulfen**

Uncertain. Collected in Russian Federation. Pedigree - collected from the wild in Russia. Originally collected in Russia. 92nt2968ai01SD.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/17/1992.

**PI 617712. *Ribes laxiflorum* Pursh**

Wild. Collected 08/12/1992 in Alaska, United States. Latitude 57 deg. 3' 0'' N. Longitude 135 deg. 20' 0'' W. Sitka, Alaska - Along waterfront near Sheldon Jackson Coll. Pedigree - collected from the wild in Alaska. Fruits blue, glaucous, with small stalked glands. Borne in racemes.

**PI 617713. *Ribes bracteosum* Douglas ex Hook.**

Wild. Collected 08/15/1992 in Alaska, United States. Latitude 57 deg. 3' 0'' N. Longitude 135 deg. 20' 0'' W. Sitka, Alaska - Along Saw Mill

Creek, Beaver Lake trailhead. Pedigree - collected from the wild in Alaska. Fruits in long racemes, berries large, blue, glaucous.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 09/17/1992.

**PI 617714. *Ribes erythrocarpum*** Coville & Leiberg  
Wild. Crater Lake Currant. Collected in Oregon, United States. Pedigree - Collected from the wild in Oregon.

**PI 617715. *Ribes binominatum*** A. Heller  
Wild. Collected in Oregon, United States. Pedigree - Collected from the wild in Oregon.

The following were collected by Daniel Campbell, University of California, Botanical Gardens, Centennial Drive, Berkeley, California 94720, United States. Developed by University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94270, United States. Received 01/29/1993.

**PI 617716. *Ribes speciosum*** Pursh  
Cultivated. Collected in California, United States. Elevation 503 m. NW slope in considerable shade, E Dunne Ave above Anderson L. Pedigree - Collected from the wild in California.

The following were developed by Jay Goodwin, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 03/16/1993.

**PI 617717. *Ribes bracteosum*** Douglas ex Hook.  
Cultivated. Collected in Washington, United States. East slope Washington Cascades. Pedigree - collected from the wild in Washington.

The following were donated by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 04/08/1993.

**PI 617718. *Ribes viscosissimum*** Pursh  
Cultivated. Collected in Colorado, United States. Pedigree - collected from the wild in Colorado.

**PI 617719. *Ribes viscosissimum*** Pursh  
Cultivated. Collected in Colorado, United States. Pedigree - collected from the wild in Colorado.

**PI 617720. *Ribes aureum*** Pursh  
Cultivated. Collected in Colorado, United States. Pedigree - collected from the wild in Colorado. Said to be either *R. aureum* or a golden fruited form of *R. odoratum*, lobed leaves. Waiting for further info.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 05/31/1993.

**PI 617721. *Ribes niveum* Lindl.**

Wild. Collected 05/26/1993 in Oregon, United States. Elevation 1500 m. T36S R44E S28 NW1/4 SW1/4, Malheur County, NW Owyhee Desert. Pedigree - Collected from the wild in Oregon.

**PI 617722. *Ribes niveum* Lindl.**

Wild. Collected 05/26/1993 in Oregon, United States. Elevation 1350 m. T36S R43E S14 NW1/4 NW1/4, Malheur County, Owyhee Desert. Pedigree - Collected from the wild in Oregon. Voucher: T.N. Kaye 1531 (OSU).

**PI 617723. *Ribes niveum* Lindl.**

Wild. Collected 05/26/1993 in Oregon, United States. Elevation 1500 m. T36S R44E S28 NW1/4 SW1/4, Malheur County, NW Owyhee Desert. Pedigree - Collected from the wild in Oregon. Voucher: T.N. Kaye 1552 (OSU).

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 07/15/1993.

**PI 617724. *Ribes nigrum* L.**

Uncertain. Developed in Germany. Pedigree - selection of *R. nigrum*.

**PI 617725. *Ribes nigrum* L.**

Uncertain. Developed in Germany. Pedigree - selection of *R. nigrum*.

**PI 617726. *Ribes nigrum* L.**

Cultivar. CANADA RIB0152. Developed in France. Pedigree - selection of *R. nigrum*.

**PI 617727. *Ribes nigrum* L.**

Cultivar. Developed in Germany. Pedigree - Open-pollinated seedling of *R. nigrum* cv. Boskoop Giant.

The following were collected by Steven A. McKay, Cornell Univ.-Coop. Ext., Columbia County, 479 Rt. 66, Hudson, New York 12534, United States. Developed by T. Laxton. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 07/15/1993.

**PI 617728. *Ribes nigrum* L.**

Cultivar. CANADA RIB0192. Pedigree - selection of *R. nigrum*.

The following were collected by Steven A. McKay, Cornell Univ.-Coop. Ext., Columbia County, 479 Rt. 66, Hudson, New York 12534, United States. Developed by J. Maarse, Schellinkout, Netherlands. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 07/15/1993.

**PI 617729. *Ribes nigrum* L.**

Cultivar. Pedigree - Early-ripening seedling selection of Fay's Prolific

The following were collected by Joseph Postman, USDA, ARS, National Plant

Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/27/1993.

**PI 617730. *Ribes laxiflorum* Pursh**

Wild. Collected 08/04/1993 in Alaska, United States. Latitude 60 deg. 8' N. Longitude 149 deg. 35' W. Elevation 120 m. Resurrection River Trailhead, 8 mi on exit glacier rd, NW of Seward. Spruce forest, hillside by old avalanche. Pedigree - Collected from the wild in Alaska. Blue currant - waxy bloom (photo) no glands on leaf? Collector's #: Seward-5.

**PI 617731. *Ribes hudsonianum* Richardson**

Wild. Collected 08/14/1993 in Alaska, United States. Latitude 63 deg. 45' N. Longitude 148 deg. 50' W. Elevation 550 m. Edge of Horseshoe Lake, Denali National Park. Between marshy lakeside and open spruce forest. Pedigree - Collected from the wild in Alaska. Northern Black Currant, no bloom on fruit (photo). Collector's #: Horseshoe-1.

**PI 617732. *Ribes triste* Pall.**

Wild. Seward-6. Collected 08/04/1993 in Alaska, United States. Latitude 60 deg. 8' N. Longitude 149 deg. 35' W. Elevation 120 m. Resurrection River Trailhead, 8 mi on exit glacier rd, NW of Seward. Spruce forest, hillside by old avalanche. Pedigree - Collected from the wild in Alaska.

**PI 617733. *Ribes triste* Pall.**

Wild. Collected 08/12/1993. Latitude 61 deg. 40' N. Longitude 149 deg. 0' W. Elevation 245 m. About 10 miles NW of Palmer on Glenn Hwy, N side of road by state campground. Mixed forest along Moose Creek. Pedigree - Collected from the wild in Alaska. Large red berries, good flavor. Collector's #: Moose Creek-1.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 09/03/1993.

**PI 617734. *Ribes watsonianum* Koehne**

Wild. Collected 01/10/1993 in Oregon, United States. Hood River County, Oregon, 3.9 miles SE of Hwy 35 on Forest Service road 48, then 1.1 miles NE on road 540. Pedigree - Collected from the wild in Oregon. Voucher: Messinger 312.

**PI 617735. *Ribes* sp.**

Wild. Collected 01/10/1993 in Oregon, United States. Hood River County, Oregon, 20 meters from NW corner of "Sno-Park" at junction to Trillium Lake from Hwy 26. Pedigree - Collected from the wild in Oregon. Voucher: Messinger 313.

The following were collected by Elizabeth Dickson, NYS Agricultural Experiment Station, Horticultural Sciences, Hedrick Hall, Geneva, New York 14456-0462, United States; Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/05/1993.

**PI 617736. *Ribes* sp.**

Uncertain. KAZ 93-28-03. Collected 09/1993 in Kazakhstan. Pedigree - collected from Kazakhstan.

**PI 617737. *Ribes* sp.**

Uncertain. KAZ 93-28-01. Collected 09/1993 in Kazakhstan. Pedigree - collected from Kazakhstan.

**PI 617738. *Ribes* sp.**

Uncertain. KAZ 93-22-01. Collected 09/1993 in Kazakhstan. Pedigree - collected from Kazakhstan.

The following were collected by Joe Voges, Naturecraft Studio, 925 4th Corso, Nebraska City, Nebraska 68410-2864, United States. Received 12/03/1993.

**PI 617739. *Ribes hirtellum* Michx.**

Wild. Developed in United States. Collected 11/1993 in Nebraska, United States. Latitude 40 deg. 40' N. Longitude 95 deg. 52' W. Elevation 200 m. Otoe County Wildlife Club, 1 1/2 miles west of Nebraska City. Pedigree - Collected from the wild in Nebraska.

The following were collected by Dean Davis. Received 12/15/1993.

**PI 617740. *Ribes sanguineum* Pursh**

Wild. Collected 12/09/1993 in California, United States. Latitude 41 deg. 52' N. Longitude 120 deg. 30' W. Elevation 1021 m. Happy Camp Ranger District, Klamath National Forest, Siskiyou County, California. Pedigree - Collected from the wild in California. See login notes for additional information.

The following were developed by Hortus Botanicus Principalis, Academiae Scientiarum URSS, ul. Botanicheskaya 4, Moscow, Moscow 127276, Russian Federation. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 04/28/1994.

**PI 617741. *Ribes sanguineum* Pursh**

Cultivated. Collected in United States. Pedigree - collected from the wild. Transfer of Ames 4324 to NCGR-Corvallis on order 940367.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Herb Hoover, University of Minnesota, St. Paul, Minnesota, United States; Rick Harrison, University of Minnesota, Department of Horticultural Science, 1970 Folwell Avenue, St. Paul, Minnesota 55108-6007, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/31/1993.

**PI 617742. *Ribes lacustre* (Pers.) Poir.**

Wild. Collected 08/08/1993 in Washington, United States. Latitude 47

deg. 54' N. Longitude 123 deg. 2' W. Elevation 762 m. T28N R3W Sec. 14 & 15; Olympic Nat'l Forest US 101 to Lord's Lake Loop Rd., and then NW along FR 28. Pedigree - Collected from the wild in Washington. Moist coastal forest. Lots of light along road and adjacent to clear cut. Transect ran along road approx 3.2 km., most of which was along upper edge of clear cut.

**PI 617743. *Ribes sanguineum* Pursh**

Wild. Collected 08/08/1993 in Washington, United States. Latitude 48 deg. N. Longitude 123 deg. W. Elevation 15 m. T31N R4W Sec. 27 & 33; Dungeness Recreation Area. Along trail on top of sandstone bluffs along St. of Juan de Fuca. Pedigree - Collected from the wild in Washington. Very sandy area, appears to be typical coastal/beach environment.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Ted Mackey, Horticultural Crops Research Laboratory, 3420 Orchard St., Corvallis, Oregon 97330, United States; Herb Hoover, University of Minnesota, St. Paul, Minnesota, United States; Rick Harrison, University of Minnesota, Department of Horticultural Science, 1970 Folwell Avenue, St. Paul, Minnesota 55108-6007, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/31/1993.

**PI 617744. *Ribes bracteosum* Douglas ex Hook.**

Wild. Collected 08/09/1993 in Washington, United States. Latitude 48 deg. N. Longitude 124 deg. W. Elevation 380 m. T30N R10W Sec. 1 & 12; Olympic National Forest, along FR 3040. Pedigree - Collected from the wild in Washington. Older clear cut on north side of road. Typical coastal forest. Lots of *R. spectabilis* and *G. shallon*.

**PI 617745. *Ribes bracteosum* Douglas ex Hook.**

Wild. Collected 08/09/1993 in Washington, United States. Latitude 48 deg. 30' N. Longitude 121 deg. 20' W. Elevation 460 m. T38N R9W Sec. 19; Mt. Baker-Snoqualmie Nat'l Forest, in vicinity of Baker Lake. Pedigree - Collected from the wild in Washington. Site approx. 1.6 km long along FR 1130. Slide and clear cut area, steep grade, moist area, vegetation thick.

**PI 617746. *Ribes bracteosum* Douglas ex Hook.**

Wild. Collected 08/11/1993 in Washington, United States. Latitude 48 deg. 30' N. Longitude 121 deg. W. Elevation 460 m. T34N R12W Sec. 1, T34N R13E Sec 6, T35N R13E Sec 31; Mt. Baker-Snoqualmie Nat'l Forest. Pedigree - Collected from the wild in Washington. Fairly low light and high moisture area. While some *R. ursinus* clones were fruiting well, not an abundant site for fruit.

**PI 617747. *Ribes lacustre* (Pers.) Poir.**

Wild. Collected 08/12/1993 in Washington, United States. Latitude 48 deg. 30' N. Longitude 120 deg. 30' W. Elevation 0 m. T36N R19W Sec. 29; Okanogan Nat'l Forest, Early Winters creek, along FR 5301300, Klipchuck NFS Campground off WA 20. Pedigree - Collected from the wild in Washington. Typical stream environment, moist.

**PI 617748. *Ribes cereum* Douglas**

Wild. Collected 08/12/1993 in Washington, United States. Latitude 48 deg. 30' N. Longitude 120 deg. 30' W. Elevation 1020 m. T36N R20E Sec. 20 & 19; Okanogan Nat'l Forest, from FR 52 then west on FR 5225 approx. 1.6 km. Pedigree - Collected from the wild in Washington. Very dry, overgrazed. Found near dry creekbed along with *Cornus* spp.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Herb Hoover, University of Minnesota, St. Paul, Minnesota, United States; Rick Harrison, University of Minnesota, Department of Horticultural Science, 1970 Folwell Avenue, St. Paul, Minnesota 55108-6007, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/31/1993.

**PI 617749. *Ribes* sp.**

Wild. Collected 08/13/1993 in Washington, United States. Latitude 47 deg. 40' N. Longitude 121 deg. W. Elevation 1205 m. T27N R14E (Wen. NF)/R13E (Mt. Baker-Snoq.); Wenatchee Nat'l Forest, along FR 6700 near US 2 at base of ridge. Pedigree - Collected from the wild in Washington

**PI 617750. *Ribes lacustre* (Pers.) Poir.**

Wild. Collected 08/15/1993 in Washington, United States. Latitude 46 deg. 30' N. Longitude 121 deg. 40' W. Elevation 930 m. T14N R8E Sec. 13; Gifford Pinchot Nat'l Forest, FR 52 to FR 5260 along Johnson Creek. Pedigree - Collected from the wild in Washington. Old clear cut with large amounts of *Vaccinium* spp. In more open areas, esp. around old tree stumps, *R. ursinus* growing well.

**PI 617751. *Ribes viscosissimum* Pursh**

Wild. Collected 08/16/1993 in Washington, United States. Latitude 46 deg. 30' N. Longitude 121 deg. 30' W. Elevation 1295 m. T14N R11E Sec. 36; Wenatchee Nat'l Forest, from US 12 at Dog Lake NFS campground on trail around south side of lake. Pedigree - collected from the wild in Washington. High elevation, moist, too shady for good fruit production.

**PI 617752. *Ribes lacustre* (Pers.) Poir.**

Wild. Collected 08/16/1993 in Washington, United States. Latitude 46 deg. 30' N. Longitude 121 deg. 30' W. Elevation 1420 m. T13N R11E Sec. 4 & 9; Gifford Pinchot Nat'l Forest, at and near end of FR 1284 from US 12 just west of White Pass. Pedigree - collected from the wild in Washington.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617753. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *Ribes nigrum*.

**PI 617754. *Ribes nigrum* L.**

Cultivar. Developed in Finland. Pedigree - selection of *R. nigrum* from Finland. Hardy and compact, highly self-fertile, early flowering.

The following were developed by G.T. Spinks, University of Bristol, Research Station, Long Ashton, Bristol, England, United Kingdom. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617755. *Ribes nigrum* L.**

Cultivar. Pedigree - Baldwin x Victoria. Fruit: skin black, resembles Baldwin.<br>Plant: main crop high yielding.<br>Brooks and Olmo, 1972.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617756. *Ribes uva-crispa* L.**

Cultivar. "White Eagle". Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617757. *Ribes nigrum* L.**

Cultivar. Developed in France. Pedigree - selection of pure *R. nigrum*. The main use of this cultivar is for cassis liqueur production.

**PI 617758. *Ribes nigrum* L.**

Cultivar. Developed in Netherlands. Pedigree - selection of pure *R. nigrum* developed in mid to late 1800s.

**PI 617759. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617760. *Ribes nigrum* L.**

Cultivar. Pedigree - selection of *R. nigrum*.

**PI 617761. *Ribes nigrum* L.**

Cultivar. Pedigree - selection of *R. nigrum*.

The following were developed by T. Laxton. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617762. *Ribes nigrum* L.**

Cultivar. Pedigree - selection of *R. nigrum*.

**PI 617763. *Ribes nigrum* L.**

Cultivar. Pedigree - selection of *R. nigrum*.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617764. Ribes nigrum L.**

Cultivar. Developed in Sweden. Pedigree - selection of R. nigrum.

**PI 617765. Ribes nigrum L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of R. nigrum.

The following were developed by N.I. Vavilov All-Russian Scientific Research, Institute of Plant Genetic Resources, 44 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617766. Ribes nigrum L.**

Cultivar. CANADA RIB0112. Pedigree - (Baldwin x R. nigrum v. sibiricum) x Golubka.

**PI 617767. Ribes nigrum L.**

Cultivar. Pedigree - Ovalnaja x Neapolitanskaja.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617768. Ribes nigrum L.**

Cultivar. "Nysa"; Q 27910. Developed in Unknown. Pedigree - selection of R. nigrum.

The following were developed by A.W.S. Hunter, Central Experiment Farm, Ottawa, Ontario, Canada. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617769. Ribes nigrum L.**

Cultivar. Pedigree - selection of R. nigrum.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617770. Ribes nigrum L.**

Cultivar. Developed in Unknown. Pedigree - selection of R. nigrum.

**PI 617771. Ribes nigrum L.**

Cultivar. Developed in Unknown. Pedigree - selection of R. nigrum.

**PI 617772. Ribes nigrum L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of R. nigrum.

**PI 617773. Ribes nigrum L.**

Cultivar. Developed in France. Pedigree - selection of *R. nigrum*.

**PI 617774. *Ribes nigrum* L.**

Cultivar. Developed in Germany. Pedigree - selection of *R. nigrum*.

**PI 617775. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617776. *Ribes nigrum* L.**

Cultivar. Developed in Netherlands. Pedigree - selection of *R. nigrum*.

**PI 617777. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617778. *Ribes nigrum* L.**

Cultivar. Developed in Sweden. Pedigree - selection of *R. nigrum*.

**PI 617779. *Ribes nigrum* L.**

Cultivar. Developed in Russian Federation. Pedigree - selection of *R. nigrum*.

The following were developed by Swedish University of AG Sciences, Expt. Div. of North Swedish Hort., Box 5097, Robacksdalen, Umea, Vasterbotten 900 05, Sweden. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617780. *Ribes nigrum* L.**

Cultivar. CANADA RIB0189. Pedigree - Seedling selection of *R. nigrum*. Midseason, dwarf habit, very hardy. Fruit uneven in size, generally thick skinned.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617781. *Ribes nigrum* L.**

Cultivated. Developed in France. Pedigree - selection of *R. nigrum*.

**PI 617782. *Ribes nigrum* L.**

Cultivar. "Sligo"; Q 27928. Developed in Unknown. Pedigree - selection of *R. nigrum*.

**PI 617783. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617784. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

**PI 617785. *Ribes nigrum* L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of *R. nigrum*.

nigrum.

**PI 617786. Ribes nigrum L.**

Cultivar. Developed in United Kingdom. Pedigree - selection of R. nigrum.

The following were developed by H. Jones, Market Drayton, England, United Kingdom. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617787. Ribes nigrum L.**

Cultivar. Pedigree - Boskoop Giant probably crossed with Carter's Champion. Plant: moderately vigorous, fairly compact, of similar size to Baldwin, produces a moderate number of one-year old basal shoots.  
<br><br>Flowers early midseason, reaching full flower a day earlier than Baldwin.<br>Berry: medium sizeskin<br>Trusses: two to three short trusses per node.<br>Season: second early, ripening with French Black and Wellington XXX. It has cropped Well in some trials and better than Baldwin in frost years. Although the fruit is reasonably wethe short trusses do not lend themselves to easy hand picking, but it should be suitable for machine harvesting.<br>Gardner, 1976.

The following were developed by T. Laxton. Donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 06/06/1994.

**PI 617788. Ribes nigrum L.**

Cultivar. Pedigree - selection of R. nigrum.

The following were donated by John Lejeune, Sr., Falcon Farms Ltd., 5936 McCallum Road, RR #1, Agassiz, British Columbia V0M 1A0, Canada. Received 01/16/1995.

**PI 617789. Ribes nigrum L.**

Cultivar. Pedigree - selection of R. nigrum.

**PI 617790. Ribes nigrum L.**

Cultivar. Developed in Canada. Pedigree - selection of R. nigrum.

The following were donated by Scott Skogerboe, Colorado State University, Department of Horticulture, Fort Collins, Colorado 80523, United States. Received 03/08/1995.

**PI 617791. Ribes uva-crispa L.**

Cultivar. Developed in United Kingdom. Pedigree - gooseberry selection. The original 'Red Jacket' Gooseberry (*Ribes uva-crispa*) is a pure European cultivar, developed in England prior to 1881 and unfortunately shares its common name with at least 4 distinct clones in the world today. Adding to the confusion is the fact that a Canadian gooseberry hybrid was named 'Red Jacket' (a.k.a. Josselyn) in 1890 without the knowledge of the existing English cultivar. During the 1930s a large

collection of various gooseberry cultivars were assembled at the USDA Horticultural Field Station in Cheyenne, Wyoming to evaluate, among other criteria, their adaptability to regional climatic conditions (never published). The English 'Red Jacket' cultivar stood alone as the winner, primarily due to its superior hardiness (per conversation with Gene Howard, superintendent of the Cheyenne Station from 1964 to 1974). Mr. Howard told me cuttings had been obtained directly from England and that it eventually became his personal favorite due to its hardiness, productivity,.

The following were donated by E.F. Mashburn, The International Ribes Association, 707 Front Street, Northumberland, Pennsylvania 17857, United States. Received 03/27/1995.

**PI 617792. Ribes uva-crispa L.**

Cultivar. Developed in United Kingdom. Pedigree - gooseberry selection.

**PI 617793. Ribes uva-crispa L.**

Cultivar. Developed in United Kingdom. Pedigree - gooseberry selection. Green-fruited cultivar, early.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 03/24/1995.

**PI 617794. Ribes sp.**

Wild. WM 397. Collected 02/26/1995 in Bolivia. Pedigree - collected in the wild from Bolivia.

**PI 617795. Ribes sp.**

Wild. WM 408. Collected 02/26/1995 in Bolivia. Pedigree - collected in the wild from Bolivia.

**PI 617796. Ribes sp.**

Wild. WM 412. Collected 02/26/1995 in Bolivia. Pedigree - collected in the wild from Bolivia.

**PI 617797. Ribes pentlandii Britton**

Wild. WM 420. Collected 02/26/1995 in Bolivia. Pedigree - collected in the wild from Bolivia.

The following were donated by Ronald Smith, 9935 NW Cornell Road, Portland, Oregon 97229, United States. Received 05/21/1995.

**PI 617798. Ribes uva-crispa L.**

Cultivar. "Red Gooseberry from Holland". Developed in Netherlands. Pedigree - gooseberry selection.

**PI 617799. Ribes uva-crispa L.**

Cultivar. "Red Gooseberry from Belgium". Developed in Belgium. Pedigree - gooseberry selection.

The following were donated by John Rowe, USDA/ARS/SCS, Plant Materials Center, 3800 S 20th Street, Manhattan, Kansas 66502, United States. Received

06/08/1995.

- PI 617800. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617801. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617802. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617803. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617804. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617805. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617806. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617807. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617808. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617809. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617810. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617811. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617812. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617813. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.

- PI 617814. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617815. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617816. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617817. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617818. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617819. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617820. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.
- PI 617821. *Ribes aureum* var. *villosum* DC.**  
Wild. Collected in Kansas, United States. Pedigree - selection of *R. odoratum* from Kansas.

The following were collected by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 01/29/1990.

- PI 617822. *Ribes* sp.**  
Wild. Collected 01/01/1990 in Chile. Pedigree - collected from the wild in Chile. This accession was renumbered CRIB 1053; it was Corvallis inventory number CRIB 669.001. It was discovered that this accession is from a different seed lot than CRIB 669. Two plants look quite different from each other in the field.

The following were collected by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 09/25/1995.

- PI 617823. *Ribes turbinatum* Pojark.**  
Wild. Collected 09/03/1995 in Kazakhstan. Latitude 45 deg. 24' 25'' N. Longitude 80 deg. 24' 42'' E. Elevation 1170 m. Kazakhstan, 15 km E of Topolevka, Djungarsky Mountain Range; 3 km E of Topolevka Forestry camp.

Site 13, Collection no. 05. Fertile soil; 80 deg slope toward NW; edge of cliff; open environment. Pedigree - collection from the wild in Kazakhstan.

The following were collected by Dan Parfitt, USDA, ARS, National Clonal Germplasm Repository, University of California, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/16/1995.

**PI 617824. *Ribes uva-crispa* L.**

Cultivated. Collected 09/03/1995 in Turkmenistan. Latitude 38 deg. 25' 55'' N. Longitude 56 deg. 17' 43'' E. Elevation 0 m. Turkmenistan, garden between guest house and director's house, Garrygala Station. Shaded area along fence. Pedigree - gooseberry selection.

The following were donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617825. *Ribes nigrum* L.**

Cultivar. CANADA RIB0109. Developed in Belarus. Pedigree - selection of *R. nigrum*.

**PI 617826. *Ribes nigrum* L.**

Cultivar. CANADA RIB0111. Developed in Russian Federation. Pedigree - selection of *R. nigrum*.

**PI 617827. *Ribes nigrum* L.**

Cultivar. CANADA RIB0113. Developed in Russian Federation. Pedigree - selection of *R. nigrum*.

**PI 617828. *Ribes nigrum* L.**

Cultivar. Developed in Russian Federation. Pedigree - selection of *R. nigrum*.

**PI 617829. *Ribes nigrum* L.**

Cultivar. CANADA RIB0114. Developed in Russian Federation. Pedigree - selection of *R. nigrum*.

The following were developed by M. B. Davis, Canada Department of Agriculture, Central Experiment Station, Ottawa, Ontario, Canada; A.W.S. Hunter, Central Experiment Farm, Ottawa, Ontario, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617830. *Ribes rubrum* L.**

Clone. CANADA RIB0186. Pedigree - selection of red currant.

The following were developed by A.W.S. Hunter, Central Experiment Farm, Ottawa, Ontario, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V

5R5, Canada. Received 10/31/1995.

**PI 617831. *Ribes rubrum* L.**

Clone. CANADA RIB0179. Pedigree - selection of red currant.

**PI 617832. *Ribes rubrum* L.**

Clone. CANADA RIB0180. Pedigree - selection of red currant. The berries are about the same size as Poorman, medium-red when ripe and of fairly good quality. This cross is fairly productive but less so than Captivator.<br>A. W. S. Hunter, 1953.

**PI 617833. *Ribes rubrum* L.**

Clone. CANADA RIB0181. Pedigree - selection of red currant.

**PI 617834. *Ribes rubrum* L.**

Clone. CANADA RIB0182. Pedigree - selection of red currant.

The following were developed by A.F. Yeager. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617835. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0188. Pedigree - *Ribes missouriensis* x Oregon Champion. Fruit: size medium, round, skin purplish when ripe, thick, tough, borne on long stems.<br>Plant: strong grower, hardy extremely productive.<br>Brooks and Olmo, 1996.

The following were developed by Nicholas Pankiw, Dufrost, Manitoba, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617836. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0183. Pedigree - selection of European gooseberry. Fruit: size medium, quality good.<br>Plant: bears well annually. grows well on heavy soil.<br>Brooks and Olmo, 1996.

The following were developed by A.W.S. Hunter, Central Experiment Farm, Ottawa, Ontario, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617837. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0102. Pedigree - gooseberry selection.

**PI 617838. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0103. Pedigree - gooseberry selection.

**PI 617839. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0104. Pedigree - gooseberry selection.

**PI 617840. *Ribes uva-crispa* L.**

Cultivar. CANADA RIB0105. Pedigree - gooseberry selection.

**PI 617841. *Ribes uva-crispa* L.**  
Cultivar. CANADA RIB0106. Pedigree - gooseberry selection.

**PI 617842. *Ribes uva-crispa* L.**  
Cultivar. CANADA RIB0107. Pedigree - gooseberry selection.

**PI 617843. *Ribes uva-crispa* L.**  
Cultivar. CANADA RIB0185. Pedigree - gooseberry selection.

The following were developed by Dominion Arboretum and Botanic Garden, Plant Research Institute, Ottawa, Ontario, Canada. Donated by Margie Luffman, Agriculture Canada, Canadian Clonal Genebank, Smithfield Experiment Station, Trenton, Ontario K8V 5R5, Canada. Received 10/31/1995.

**PI 617844. *Ribes laciniatum* Hook. f. & Thomson**  
Cultivated. CANADA RIB0168. Collected in Uncertain. Pedigree - selection of the species.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Rex M. Brennan, Scottish Crop Research Inst., Mylnefield, Soft Fruit Genetics Department, Dundee, Scotland DD2 5DA, United Kingdom. Donated by Rex M. Brennan, Scottish Crop Research Inst., Mylnefield, Soft Fruit Genetics Department, Dundee, Scotland DD2 5DA, United Kingdom. Received 08/20/1995.

**PI 617845. *Ribes cereum* Douglas**  
Wild. Collected 08/20/1995 in Oregon, United States. Latitude 45 deg. 30' N. Longitude 117 deg. 30' W. Elevation 1600 m. Hurricane Creek, Wallowa county, Oregon. Forested region, shaded, eastern slope. Pedigree - collection from the wild.

**PI 617846. *Ribes viscosissimum* Pursh**  
Wild. Collected 08/20/1995 in Oregon, United States. Latitude 45 deg. 30' N. Longitude 117 deg. 30' W. Elevation 1600 m. Hurricane Creek, Wallowa county, Oregon. South facing slope. Pedigree - selection from the wild in Oregon.

The following were donated by E.F. Mashburn, The International Ribes Association, 707 Front Street, Northumberland, Pennsylvania 17857, United States. Received 1995.

**PI 617847. *Ribes cynosbati* L.**  
Cultivated. CRIB 1083. Pedigree - selection of *R. cynosbati*.

**PI 617848. *Ribes uva-crispa* L.**  
Cultivated. "Amish Gooseberry"; CRIB 1084. Pedigree - gooseberry selection.

The following were donated by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 03/15/1996.

**PI 617849. *Ribes uva-crispa* L.**

Cultivar. CRIB 1085. Pedigree - [(R. missouriense Nutt. x Red Warrington) x Triumph]x Keepsake.

**PI 617850. Ribes nigrum L.**

Cultivar. CRIB 1087. Developed in Russian Federation. Pedigree - selection of R. nigrum.

**PI 617851. Ribes uva-crispa L.**

Cultivar. CRIB 1088. Developed in United Kingdom. Pedigree - gooseberry selection.

**PI 617852. Ribes uva-crispa L.**

Cultivar. CRIB 1089. Pedigree - gooseberry selection.

**PI 617853. Ribes aureum Pursh**

Cultivar. CRIB 1090. Pedigree - selection of R. aureum.

The following were collected by Catherine Wright, Alaska Plant Materials Ctr., HCO2, Box 7440, Palmer, Alaska 99645, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/08/1996.

**PI 617854. Ribes hudsonianum Richardson**

Wild. KHCW 96-03-02; CRIB 1091. Collected 07/30/1996 in Alaska, United States. Latitude 60 deg. 29' 29'' N. Longitude 145 deg. 52' 14'' W. Elevation 10 m. Whitshed Road 6 miles south of Cordova. In ditch on south side of road. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: Epilobium, Potentilla, Festuca Alnus, Picea, Heracleum, Rubus spectabilis.

**PI 617855. Ribes bracteosum Douglas ex Hook.**

Wild. KHCW 96-06-01; CRIB 1092. Collected 07/30/1996 in Alaska, United States. Latitude 60 deg. 28' N. Longitude 145 deg. 20' W. Elevation 15 m. Between road and McKinley Cabin, 22 miles southeast of Cordova, Copper River Road. Edge of trail in forest understory. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: Picea sitchensis, Echinopanax horridum, Tiarella trifoliata, Sambucus racemosum, Tsuga mertensiana.

**PI 617856. Ribes bracteosum Douglas ex Hook.**

Wild. KHCW 96-09-05; CRIB 1093. Collected 07/30/1996 in Alaska, United States. Latitude 60 deg. 28' N. Longitude 145 deg. 12' W. Elevation 30 m. McKinley Cabin Trail to McKinley Lake about 2 miles from Copper River Road. By stream, open edge of trail. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: Cornus canadensis, Sanguisorba, Alnus, Arunkus, Pyrola, Potentilla Alnus, Tsuga mertensiana, Picea sitchensis, Lycopodium annotinum Dryopteris dilatata, Menziesia ferruginea.

**PI 617857. Ribes laxiflorum Pursh**

Wild. KHCW 96-13-06; CRIB 1094. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' N. Longitude 145 deg. 30' W. Elevation 15 m. Cabin Lake parking lot, north of Cordova airport, 3 miles north of

Copper River Road, . Open edge of woods near parking lot. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996.

**PI 617858. *Ribes hudsonianum* Richardson**

Wild. KHCW 96-14-02; CRIB 1095. Collected 07/30/1996 in Alaska, United States. Latitude 60 deg. 28' N. Longitude 145 deg. 12' W. Elevation 30 m. McKinley Cabin Trail to McKinley Lake about 2 miles from Copper River Road. by stream Open edge of trail. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996. Associated plants: *Cornus*, *Sanguisorba*, *Alnus*, *Tsuga Arunkus*, *Pyrola*, *Potentilla*.

**PI 617859. *Ribes triste* Pall.**

Wild. KHCW 96-23-08; CRIB 1096. Collected 08/04/1996 in Alaska, United States. Latitude 60 deg. 25' N. Longitude 151 deg. 5' W. Elevation 30 m. Plants collected on the nature trails at the Kenai National Wildlife Refuge Headquarters, Skihill Road, Soldotna. Open edge of trail, upland site. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996.

**PI 617860. *Ribes bracteosum* Douglas ex Hook.**

Wild. KHCW 96-27-02; CRIB 1098. Collected 08/05/1996 in Alaska, United States. Latitude 60 deg. 45' N. Longitude 148 deg. 40' W. Elevation 75 m. About 1 mile south of Whittier, AK towards 'Salmon Run'. Edge of woods. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996.

**PI 617861. *Ribes triste* Pall.**

Wild. KHCW 96-29-01; CRIB 1099. Collected 08/06/1996 in Alaska, United States. Latitude 61 deg. 10' N. Longitude 150 deg. 5' W. Elevation 30 m. Klatt Bog, Anchorage. This bog will be eliminated by construction by 1997. Edge of sphagnum bog. Pedigree - collected from the wild in Alaska. USDA Sponsored plant collecting expedition, 1996.

**PI 617862. *Ribes nigrum* L.**

Cultivated. Swedish Black open pollinated; KHCW 96-29-04; CRIB 1100. Collected 08/06/1996 in Alaska, United States. Latitude 61 deg. 10' N. Longitude 150 deg. 5' W. Elevation 30 m. Klatt Bog, Anchorage This bog will be eliminated by construction by 1997. Roadside edge of sphagnum bog. Pedigree - open pollinated Swedish Black. USDA Sponsored plant collecting expedition, 1996.

The following were developed by Gunny Larsson, Swedish University of Agric. Sci., Umea, Vasterbotten, Sweden. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617863. *Ribes nigrum* L.**

Cultivar. CRIB 1101. Pedigree - selection of *Ribes nigrum* from the wild. USDA Sponsored plant collecting expedition, 1996.

**PI 617864. *Ribes nigrum* L.**

Cultivar. CRIB 1102. Pedigree - selection of *Ribes nigrum*. USDA Sponsored plant collecting expedition, 1996.

The following were donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617865. *Ribes nigrum* L.**

Cultivar. CRIB 1103. Developed in Finland. Pedigree - selection of *Ribes nigrum* from the wildselected before 1940. USDA Sponsored plant collecting expedition, 1996.

The following were developed by Gunny Larsson, Swedish University of Agric. Sci., Umea, Vasterbotten, Sweden. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617866. *Ribes nigrum* L.**

Cultivar. CRIB 1104. Pedigree - selection of *Ribes nigrum*. USDA Sponsored plant collecting expedition, 1996.

The following were developed by F. Nilsson, Horticultural Research Station, Akapr, Alnarp, Malmohus, Sweden. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617867. *Ribes nigrum* L.**

Cultivar. CRIB 1105. Pedigree - wild *R. nigrum* (Erheikki-type) x Boskoop Giant. USDA Sponsored plant collecting expedition, 1996.

The following were donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617868. *Ribes rubrum* L.**

Cultivar. CRIB 1107. Developed in Netherlands. Pedigree - selection of *Ribes rubrum*. USDA Sponsored plant collecting expedition, 1996.

The following were developed by Honeywood Nursery, Canada. Donated by Stoney J. Wright, Alaska Plant Materials Center, Alaska Department of Natural Resources, Division of Agriculture, Palmer, Alaska 99645-9706, United States. Received 08/08/1996.

**PI 617869. *Ribes rubrum* L.**

Cultivar. CRIB 1108. Pedigree - selection of *Ribes rubrum*. USDA Sponsored plant collecting expedition, 1996.

The following were donated by Fumiomi Takeda, USDA/ARS/NER, Appalachian Fruit Res. Sta., 45 Wiltshire Road, Kearneysville, West Virginia 25430-9802, United States. Received 06/28/1996.

**PI 617870. *Ribes aureum* Pursh**

Rootstock. CRIB 1114. Developed in Hungary. Pedigree - selection of *Ribes aureum* used for rootstock.

**PI 617871. *Ribes uva-crispa* L.**

Cultivar. "Tasty Red"; "Piros isletes"; CRIB 1115. Developed in United Kingdom. Pedigree - gooseberry selection. red berries, yield per bush 1,500 grams about 3 lbs. 50 berries weighed about 280 grams (10 oz) 5.6 grams/berry. data from F. Takeda, W. VA. 1996.

**PI 617872. *Ribes uva-crispa* L.**

Cultivar. CRIB 1116. Developed in Hungary. Pedigree - gooseberry selection. green/yellow fruit, yield per bush about 4,000 grams or 9 lbs. 50 berries weighed about 320 g or 11 oz. (6.4 grams per berry). data from F. Takeda, W. VA. 1996.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Sheng Ke Xi, The Chinese Academy of Forestry, Beijing, Beijing, China; Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 10/24/1996.

**PI 617873. *Ribes procumbens* Pall.**

Wild. 96028; CRIB 1120. Collected 07/24/1996 in Heilongjiang, China. Pedigree - collected from the wild in Heilongjiang, China.

The following were collected by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Received 10/24/1996.

**PI 617874. *Ribes meyeri* Maxim.**

Wild. 96127; CRIB 1123. Collected 09/1996 in Hubei, China. Pedigree - collected from the wild in Hubei, China.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Sheng Ke Xi, The Chinese Academy of Forestry, Beijing, Beijing, China; Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received

10/24/1996.

**PI 617875. *Ribes procumbens* Pall.**

Wild. 96036; CRIB 1125. Collected in China. Latitude 53 deg. 25' N. Longitude 122 deg. 16' E. Elevation 438 m. 74 km north of Mo He Jagedaqi, Mo He Bureau. hills - Da xing an ling Meadow - opening in forest of *Pinus sylvestris* var. *mongolica*. Collected 07/25/1996 in Heilongjiang, China. Latitude 53 deg. 25' N. Longitude 122 deg. 16' E. Elevation 438 m. 74 km north of Mo He Jagedaqi, Mo He Bureau. hills - Da xing an ling Meadow - opening in forest of *Pinus sylvestris* var. *mongolica*. Pedigree - collected from the wild in Heilongjiang, China.

**PI 617876. *Ribes procumbens* Pall.**

Wild. 96045; CRIB 1126. Collected in China. Latitude 51 deg. 40' N. Longitude 124 deg. 23' E. Elevation 500 m. 1 km north of Xin Ling. Hilld - Da xinggan ling understory in forest. Collected 07/27/1996 in Heilongjiang, China. Latitude 51 deg. 40' N. Longitude 124 deg. 23' E. Elevation 500 m. 1 km north of Xin Ling. Hilld - Da xinggan ling understory in forest. Pedigree - collected from the wild in Heilongjiang, China.

The following were collected by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Received 10/24/1996.

**PI 617877. *Ribes burejense* F. Schmidt**

Wild. 96121; CRIB 1128. Collected 10/06/1996 in Heilongjiang, China. Pedigree - collected from the wild in Heilongjiang, China.

The following were developed by Harrell Sellers, 1514 28th Ave. West, Brookings, South Dakota 57006, United States. Received 02/03/1997.

**PI 617878. *Ribes americanum* Mill.**

Breeding. "H-Clone"; "Rain-in-the-Face"; CRIB 1131. Pedigree - Selection of *R. americanum* from South Dakota. This clone was selected for upright plant habit.

**PI 617879. *Ribes americanum* Mill.**

Breeding. "L-Clone"; "Gall"; CRIB 1132. Pedigree - Selection of *R. americanum* from South Dakota. Selected for prostrate plant growth habit.

The following were donated by E.F. Mashburn, The International Ribes Association, 707 Front Street, Northumberland, Pennsylvania 17857, United States. Received 03/13/1997.

**PI 617880. *Ribes uva-crispa* L.**

Cultivar. "Winter Green"; "Zöld Gyôztes"; CRIB 1134. Developed in United Kingdom. Pedigree - gooseberry selection.

**PI 617881. *Ribes uva-crispa* L.**

Cultivar. CRIB 1135. Pedigree - gooseberry selection.

**PI 617882. *Ribes uva-crispa* L.**

Cultivar. CRIB 1136. Pedigree - gooseberry selection.

Unknown source. Received 01/30/1997.

**PI 617883. *Ribes fasciculatum* var. *chinense* Maxim.**

Wild. KSW 3773; NA 56697; CRIB 1137. Collected 10/13/1985 in Cholla Puk, Korea, South. Latitude 35 deg. 29' 0'' N. Longitude 126 deg. 53' 0'' E. Elevation 230 m. Chongup Gun, Naejang Mt. At bottom of S-facing rocky hillside at edge of woods among loose rocks, disturbed area. Pedigree - selection of the species.

The following were collected by Charles Tubesing, The Holden Arboretum, 9500 Sperry Road, Kirtland, Ohio 44094-5172, United States; Rick J. Lewandowski, Morris Arboretum, The University of Pennsylvania, 9414 Meadowbrook Road, Philadelphia, Pennsylvania 19118, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Kris Bachtell, The Morton Arboretum, 4100 Illinois Route 53, Lisle, Illinois 60532-1293, United States. Donated by Shawn Belt, USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Glenn Dale, Maryland 20769-9157, United States. Received 01/30/1997.

**PI 617884. *Ribes mandshuricum* (Maxim.) Kom.**

Wild. BJB 140; NA 64650; CRIB 1138. Collected 09/29/1994 in Beijing, China. Latitude 39 deg. 57' 21'' N. Longitude 115 deg. 25' 40'' E. Elevation 1420 m. Da Nang Gou (Big South Valley), Xiao Long Meng Forest Preserve, Dongling Shan, Mentougou District. Growing in rich, moist organic soils near a stream in a cool moist valley protected from sun and wind. Pedigree - collection from the wild.

The following were collected by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States; Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States; Sharon K. Dragula, 2121 Burnett Ave., Ames, Iowa 50010, United States; Sharon K. Dragula, 2121 Burnett Ave., Ames, Iowa 50010, United States. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 08/18/1997.

**PI 617885. *Ribes missouriense* Nutt.**

Wild. CRIB 1139. Collected in Iowa, United States. Latitude 42 deg. 2' 35'' N. Longitude 93 deg. 36' 22'' W. Elevation 280 m. Story county; T84N, R24W, NE1/4 OF Sec. 35, Ames East Quadrangle. Growing in woods just above the floodplain along the South Skunk River with *Campanula americana*, *Smilax*, *Tilia* and *Toxicodendron*. Collected 07/31/1997 in Iowa, United States. Latitude 42 deg. 2' 35'' N. Longitude 93 deg. 36' 22'' W. Elevation 280 m. Story county; T84N, R24W, NE1/4 OF Sec. 35, Ames East Quadrangle. Growing in woods just above the floodplain along the South Skunk River with *Campanula americana*, *Smilax*, *Tilia* and *Toxicodendron*. Pedigree - collection from the wild in Iowa.

The following were donated by E.F. Mashburn, The International Ribes Association, 707 Front Street, Northumberland, Pennsylvania 17857, United

States. Received 08/26/1997.

**PI 617886. *Ribes cynosbati* L.**

Cultivated. CRIB 1141. Collected in Pennsylvania, United States.  
Pedigree - selection of *R. cynosbati*.

The following were collected by M. Nevin Smith, 400 Casserly Road, Watsonville, California 95076, United States. Donated by Rusty Scalf, 2771 Dohr St., Berkeley, California 94702, United States. Received 03/24/1998.

**PI 617887. *Ribes malvaceum* Sm.**

Cultivated. Wunderlich; CRIB 1144. Collected in California, United States. Latitude 37 deg. 20' N. Longitude 122 deg. 17' W. Elevation 0 m. Near Wunderlich Park near Woodside, California. Open chaparral. Collected 04/1977 in California, United States. Latitude 37 deg. 20' N. Longitude 122 deg. 17' W. Elevation 0 m. Near Wunderlich Park near Woodside, California. Open chaparral. Pedigree - Collected from the wild in California.

The following were donated by Rusty Scalf, 2771 Dohr St., Berkeley, California 94702, United States. Received 04/02/1998.

**PI 617888. *Ribes viburnifolium* A. Gray**

Cultivar. "Catalina Perfume"; CRIB 1145.

The following were collected by P. Lee, United States. Donated by Holly Forbes, University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94720-5045, United States. Received 04/13/1998.

**PI 617889. *Ribes amarum* McClatchie**

Wild. CRIB 1146. Collected in California, United States. Latitude 34 deg. 26' N. Longitude 119 deg. 38' W. Elevation 0 m. Santa Barbara county, Montecito, about Casa Dorinda. Oak woodland.

The following were collected by Walter Wisura, Rancho Santa Ana Botanical Garden, 1500 North College Avenue, Claremont, California 91711-3101, United States; Robert F. Thorne, Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, California 91711-3101, United States; Jamie Romero, Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, California 91711-3101, United States; Tom Hayduk, Rancho Santa Ana Botanic Garden, 1500 North College Avenue, Claremont, California 91711-3101, United States. Donated by Holly Forbes, University of California, Botanical Garden, 200 Centennial Drive, Berkeley, California 94720-5045, United States. Received 04/13/1998.

**PI 617890. *Ribes viburnifolium* A. Gray**

Wild. Catalina Currant; 16662; CRIB 1147. Collected 04/22/1991 in Baja Norte, Mexico. Latitude 32 deg. 1' N. Longitude 116 deg. 26' W. Elevation 0 m. 4.4 miles NE of junction with Highway 1 along highway 3 toward Tecate. Moist loam soil, East facing slope in chaparral.

The following were collected by Barbara Reed, USDA, ARS, National Germplasm

Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States.  
Received 04/30/1998.

**PI 617891. *Ribes* sp.**

Wild. Nebraska Gooseberry; CRIB 1148. Collected 04/24/1998 in Nebraska, United States. Latitude 40 deg. 30' N. Longitude 95 deg. 55' W. Elevation 315 m. Seven miles south of Nebraska City and one mile west, at Baltensperger Farm. Pedigree - Collected from the wild in Nebraska.

The following were donated by Chollipo Arboretum, 344-16 Yonhui-Dong, Sodaemun-KuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/22/1998.

**PI 617892. *Ribes komarovii* Pojark.**

Cultivated. 1-1-105; CRIB 1149. Collected in Chungchong Nam, Korea, South. Latitude 36 deg. 52' N. Longitude 126 deg. 13' E. Elevation 0 m. Chollipo Arboretum, Sowon-Myon, Taeon-Gun. Pedigree - Collected from the Chollipo Arboretum in South Korea.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/11/1998.

**PI 617893. *Ribes triste* Pall.**

Wild. CRIB 1152. Collected 08/07/1998 in Alaska, United States. Latitude 61 deg. 26' 16'' N. Longitude 150 deg. 10' 5'' W. Elevation 10 m. Along river's edge for about 0.5 mile, sampling many plants, Little Susitna River Park, about 40 miles southeast of Wasilla, Alaska. East of Ayrshire and Mackenzie Roads. Collected along river's edge. Associated plant *Rubus idaeus*, devil's club, watermelonberry, cranberry-bush (*Viburnum edulum*). Pedigree - OP seed collected from the wild in Alaska

**PI 617894. *Ribes laxiflorum* Pursh**

Wild. CRIB 1153. Collected 08/07/1998 in Alaska, United States. Latitude 61 deg. 26' 16'' N. Longitude 150 deg. 10' 5'' W. Elevation 10 m. Little Susitna River Park, about 40 miles southeast of Wasilla, Alaska. East of Ayrshire and Mackenzie Roads. Open wooded area. Associated plants: *Vaccinium vitis-idaeus*, Sitka Spruce, Black Cottonwood, horsetail and lycopodium. Found on knolls under taller trees. Pedigree - OP seed collected from the wild in Alaska.

**PI 617895. *Ribes triste* Pall.**

Wild. KH98-08; CRIB 1154. Collected 08/08/1998 in Alaska, United States. Latitude 62 deg. 0' N. Longitude 150 deg. 0' W. Elevation 30 m. Milepost xx on George Parks Highway (highway 3) one mile north of Caswell, Alaska. Sheep Creek overpass pulloff, west of highway. Plants were scattered though open woods. Associated plants: Devil's club, fescue, horsetail, cranberry bush, Rosa and under paper birch. Pedigree - Collected from the wild in Alaska.

**PI 617896. *Ribes laxiflorum* Pursh**

Wild. KH98-09A; CRIB 1155. Collected 08/08/1998 in Alaska, United States. Latitude 62 deg. 0' N. Longitude 150 deg. 0' W. Elevation 30 m. Milepost xx on George Parks Highway (highway 3) one mile north of

Caswell, Alaska. Sheep Creek overpass pulloff, west of highway. Plants were scattered though open woods. Associated plants: Devil's club, fescue, horsetail, cranberry bush, Rosa and under paper birch. Pedigree - Collected from the wild in Alaska.

The following were collected by Brian Geils, U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Southwest Forest Science Complex, Flagstaff, Arizona 86001, United States. Received 10/05/1998.

**PI 617897. *Ribes inerme* Rydb.**

Wild. BG-01; CRIB 1157. Collected 07/15/1998 in New Mexico, United States. Latitude 34 deg. 21' 0'' N. Longitude 107 deg. 18' 0'' W. Elevation 0 m. Bluff Springs on south side of stream three chains (about 220 feet) from parking lot. Otero county, New Mexico. Pedigree - Collected from the wild in New Mexico.

**PI 617898. *Ribes cereum* Douglas**

Wild. BG-02; CRIB 1158. Collected 08/19/1998 in New Mexico, United States. Latitude 32 deg. 58' 0'' N. Longitude 105 deg. 36' 0'' W. Elevation 2623 m. Near James Lookout, 0.4 miles west north west of junction FR 175 and FR 5583 on south side of 5583. Otero County, New Mexico. Pedigree - Collected from the wild in New Mexico.

**PI 617899. *Ribes mescaleirium* Coville**

Wild. BG-03; CRIB 1159. Collected 08/19/1998 in New Mexico, United States. Latitude 32 deg. 57' 0'' N. Longitude 105 deg. 43' 0'' W. Elevation 2638 m. Sleepy Grass Picnic Ground, near site 44, between drive and phone pole. Near Cloudcroft, Otero County, New Mexico. Pedigree - Collected from the wild in New Mexico.

**PI 617900. *Ribes pinetorum* Greene**

Wild. BG-05; CRIB 1161. Collected 08/19/1998 in New Mexico, United States. Latitude 32 deg. 57' 0'' N. Longitude 105 deg. 43' 0'' W. Elevation 2648 m. Sleepy Grass Picnic Ground, site 44, just outside Cloudcroft, Otero county, New Mexico. Pedigree - Collected from the wild in New Mexico.

**PI 617901. *Ribes mescaleirium* Coville**

Wild. BG-06; CRIB 1162. Collected 09/10/1998 in New Mexico, United States. Latitude 32 deg. 58' 0'' N. Longitude 105 deg. 46' 0'' W. Elevation 2437 m. Cloudcroft, Otero county, New Mexico. At the junction of US 82 and Bailey Canyon Road. Pedigree - Collected from the wild in New Mexico.

The following were donated by Howard Waterworth, USDA, ARS, Plant Germplasm Quarantine Office, Building 465, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 12/18/1998.

**PI 617902. *Ribes nigrum* L.**

Cultivar. "Laxon's Giant"; CRIB 1164; Q 27847. Developed in United Kingdom.

**PI 617903. *Ribes nigrum* L.**

Cultivar. "Blacksmith"; CRIB 1165; Q 27859. Developed in United Kingdom.

- PI 617904. Ribes nigrum L.**  
Cultivar. "Boskoop Giant"; CRIB 1166; Q 27862. Developed in Netherlands.
- PI 617905. Ribes nigrum L.**  
Cultivar. "Climax"; CRIB 1167; Q 27866. Developed in Canada.
- PI 617906. Ribes nigrum L.**  
Cultivar. "Coronet"; CRIB 1168; Q 27868. Developed in Canada.
- PI 617907. Ribes nigrum L.**  
Cultivar. "Crusader"; CRIB 1169; Q 27871. Developed in Canada.
- PI 617908. Ribes nigrum L.**  
Cultivar. "Ben Tirran"; CRIB 1172; Q 28926. PP11330. Developed in United Kingdom.
- PI 617909. Ribes nigrum L.**  
Cultivar. "Westwick Choice"; CRIB 1173; Q 28028. Developed in United Kingdom.
- PI 617910. Ribes nigrum L.**  
Cultivar. "Beauty of Altay"; CRIB 1175; Q 28607. Developed in Russian Federation. Pedigree - Koksa x Karakoe.
- PI 617911. Ribes nigrum L.**  
Cultivar. "Triton"; CRIB 1176; Q 28609. . Developed in Sweden.
- PI 617912. Ribes nigrum L.**  
Cultivar. "Favorskaya"; CRIB 1177; Q 28612. Developed in Russian Federation.
- PI 617913. Ribes nigrum L.**  
Cultivar. "Belorusskaya Sweet"; CRIB 1178; Q 28850. Developed in Belarus. Pedigree - R. hybrid 2-6D x R. dikusha ? selection.
- PI 617914. Ribes nigrum L.**  
Cultivar. "Dobraya"; CRIB 1179; Q 30857. Developed in Russian Federation. Pedigree - Milusinka x (Primorski Champion x Altaiski Champion x Zoja).
- PI 617915. Ribes nigrum L.**  
Cultivar. "Czerniega"; CRIB 1181; Q 35889. Developed in Russian Federation. Pedigree - Novosti Prikarparaja x Minaj Shmyriov.

The following were donated by E.F. Mashburn, The International Ribes Association, 707 Front Street, Northumberland, Pennsylvania 17857, United States. Received 03/29/1999.

- PI 617916. Ribes sp.**  
Cultivar. CRIB 1183.
- PI 617917. Ribes sp.**  
Cultivar. CRIB 1184.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small

Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States; Barbara Fick, Oregon State University, Extension Service, Benton County, 1849 NW 9th Street, Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/20/1994.

**PI 617918. *Ribes* sp.**

Wild. CRIB 1186. Collected 08/24/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

**PI 617919. *Ribes* sp.**

Wild. CRIB 1187. Collected 08/24/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

The following were donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/16/1999.

**PI 617920. *Ribes nigrum* L.**

Cultivar. CRIB 1188. Pedigree - Open pollinated seed from cultivar 'Titania', Altajskaja Desertnaja x (Consort x Kaajanin Musta).

The following were donated by Forest Farm Nursery, 990 Tetherow Road, Williams, Oregon 97544, United States. Received 05/24/1999.

**PI 617921. *Ribes* sp.**

Cultivated. *R. lasiandra*; rila041; *R. sp.*; CRIB 1194. Deciduous, 3-4 ft. shrub; pendulous clusters of soft-yellow flowers in spring; yellow, pink and red fall color; adapted to sun, zone 7.

Unknown source. Received 05/24/1999.

**PI 617922. *Ribes nevadense* Kellogg**

Cultivated. Mountain Pink Currant; rine045; CRIB 1195. Deciduous, rounded, medium sized shrub with pendulous clusters of pink flowers and blue fruit; yellow fall color, adapted to sun, zone 5.

Unknown source. Received 05/24/1999.

**PI 617923. *Ribes sanguineum* Pursh**

Cultivar. "Spring Snow"; risa072; CRIB 1196.

Unknown source. Received 05/24/1999.

**PI 617924. *Ribes viburnifolium* A. Gray**

Cultivated. *R. viburnifolium*; rivi075; CRIB 1197. Evergreen trailing shrub, ground cover, 2-6 ft. tall, 12 ft. wide; round shiny green leaves produce a pleasant scent when crushed; small upright clusters of pink flowers in spring and summer; red fruits in fall; adapted to sun or partial shade, zone 8.

The following were donated by USDA, ARS, Fruit Laboratory, Plant Germplasm Quarantine Office, Beltsville, Maryland 20705-2350, United States. Received 12/10/1999.

**PI 617925. *Ribes nigrum* L.**

Cultivar. "Black Reward"; CRIB 1199; Q 27619.

**PI 617926. *Ribes nigrum* L.**

Cultivar. "Dikovinka"; CRIB 1200; Q 30858. Developed in Russian Federation. Pedigree - Zoja x Pushistaja.

**PI 617927. *Ribes nigrum* L.**

Cultivar. "Triton"; CRIB 1202; Q 35903. .

Unknown source. Received 03/09/2000.

**PI 617928. *Ribes montigenum* McClatchie**

Wild. CRIB 1214.

Unknown source. Received 05/10/2000.

**PI 617929. *Ribes viburnifolium* A. Gray**

Cultivated. CRIB 1226.

The following were donated by M. Schultz, Seed Bank, 143 Charles, Monroe, Washington 98272-2302, United States. Received 03/09/1990.

**PI 617930. *Lactuca sativa* L.**

Cultivar. "SPECKLED"; W6 3794.

**PI 617931. *Lactuca sativa* L.**

Cultivar. "UNRIVALLED/ATTRACTIVE"; W6 3734.

**PI 617932. *Lactuca sativa* L.**

Cultivar. "AUSTRALIAN YELLOW LEAF"; W6 3739.

**PI 617933. *Lactuca sativa* L.**

Cultivar. "BATAVIA ROUGE GRENOBLOISE"; W6 3741.

**PI 617934. *Lactuca sativa* L.**

Cultivar. "CACA"; W6 3744. Cultivar means 'Cut and Come Again'.

**PI 617935. *Lactuca sativa* L.**

Cultivar. "CAPITANE"; W6 3745.

**PI 617936. *Lactuca sativa* L.**

Cultivar. "COSMO"; W6 3748.

**PI 617937. *Lactuca sativa* L.**

Cultivar. "DIAMANTE"; W6 3750.

**PI 617938. *Lactuca sativa* L.**

Cultivar. "FERIA"; W6 3756.

- PI 617939. *Lactuca sativa* L.  
Cultivar. "GERMAN"; W6 3759.
- PI 617940. *Lactuca sativa* L.  
Cultivar. "GLOIRE DU DAUPHNE"; W6 3760.
- PI 617941. *Lactuca sativa* L.  
Cultivar. "GRANDPA'S"; W6 3761.
- PI 617942. *Lactuca sativa* L.  
Cultivar. "LINGUE DI CANARINO"; W6 3767.
- PI 617943. *Lactuca sativa* L.  
Cultivar. "LOLLA ROSSA"; W6 3770.
- PI 617944. *Lactuca sativa* L.  
Cultivar. "LOLLO BIONDO"; W6 3771.
- PI 617945. *Lactuca sativa* L.  
Cultivar. "NEW YORK/WONDERFUL"; W6 3777.
- PI 617946. *Lactuca sativa* L.  
Cultivar. "RADIAN"; W6 3780.
- PI 617947. *Lactuca sativa* L.  
Cultivar. "RED LEPRECHAUN"; W6 3783.
- PI 617948. *Lactuca sativa* L.  
Cultivar. "RED RIDING HOOD"; W6 3785.
- PI 617949. *Lactuca sativa* L.  
Cultivar. "WHITE PARRIS COS"; W6 3803.
- PI 617950. *Lactuca sativa* L.  
Cultivar. "LOBJOIT'S GREEN"; W6 3769.
- PI 617951. *Lactuca sativa* L.  
Cultivar. "HILDE"; W6 3762.
- PI 617952. *Lactuca sativa* L.  
Cultivar. "LA BRILLIANTE"; W6 3766.
- PI 617953. *Lactuca sativa* L.  
Cultivar. "SELF-SEEDING"; W6 3793.
- PI 617954. *Lactuca sativa* L.  
Cultivar. "RICCOLINA DA TAGLIO"; W6 3787.

The following were donated by Pauline Mullins, The Organic Plant Institute, Peaceable Kingdom Foundation, P.O. Box 313, Washington-On-Brazos, Texas 77880, United States. Received 11/30/1996.

- PI 617955. *Lactuca sativa* L.  
Cultivated. "Kweik Lettuce"; W6 19001. Texas Heirloom.

The following were donated by M. Schultz, Seed Bank, 143 Charles, Monroe, Washington 98272-2302, United States. Received 03/09/1990.

**PI 617956. *Lactuca sativa* L.**

Cultivar. "FLORICOS"; W6 3757.

**PI 617957. *Lactuca sativa* L.**

Cultivar. "ANVENUE"; W6 3738.

**PI 617958. *Lactuca sativa* L.**

Cultivar. "MISTICANZA"; W6 3775.

**PI 617959. *Lactuca sativa* L.**

Cultivar. "LITTLE GEM"; Sucrine, W. Density; W6 3768.

**PI 617960. *Lactuca sativa* L.**

Cultivar. "RODAN BRONZE"; W6 3789.

**PI 617961. *Lactuca sativa* L.**

Cultivar. "ITALIAN"; W6 3763.

**PI 617962. *Lactuca sativa* L.**

Cultivar. "RED OAK LEAF"; W6 3784.

**PI 617963. *Lactuca sativa* L.**

Cultivar. "CRACOVIENSIS"; W6 9041.

**PI 617964. *Lactuca sativa* L.**

Cultivar. "DOREE DEPRINTEMPS"; W6 3752.

Unknown source. Received 05/1999.

**PI 617965. *Lolium perenne* L.**

Cultivar. Elka-1; CLOL 2. Developed in Netherlands. Pedigree - Seedling selection from Elka (PI 600841).

Unknown source. Received 05/1999.

**PI 617966. *Lolium perenne* L.**

Cultivar. Linn-3; CLOL 3.

Unknown source. Received 05/1999.

**PI 617967. *Lolium perenne* L.**

Cultivar.

Unknown source. Received 05/1999.

**PI 617968. *Lolium perenne* L.**

Cultivar. 4400-2; CLOL 5.

Unknown source. Received 07/20/2000.

**PI 617969. Lolium perenne L.**

Cultivar. 4LA-4; CLOL 6. Developed in United States. Pedigree - SR 4400 x Linn.

Unknown source. Received 07/20/2000.

**PI 617970. Lolium perenne L.**

Cultivar. 4LB-1; CLOL 7.

Unknown source. Received 07/20/2000.

**PI 617971. Lolium perenne L.**

Cultivar. LNA-5; CLOL 8. Developed in United States. Pedigree - Linn x SR 4500.

Unknown source. Received 07/20/2000.

**PI 617972. Lolium perenne L.**

Cultivar. NLA-3; CLOL 9. Developed in United States. Pedigree - SR 4500 x Linn.

Unknown source. Received 07/20/2000.

**PI 617973. Lolium perenne L.**

Cultivar. L4A-2; CLOL 10. Developed in United States. Pedigree - Linn x SR 4400.

Unknown source. Received 07/20/2000.

**PI 617974. Lolium perenne L.**

Cultivar. LNA-1; CLOL 11. Developed in United States. Pedigree - Linn x SR 4500.

Unknown source. Received 07/20/2000.

**PI 617975. Lolium perenne L.**

Cultivar. LNB-2; CLOL 12. Developed in United States. Pedigree - Linn x SR 4500.

Unknown source. Received 07/20/2000.

**PI 617976. Lolium perenne L.**

Cultivar. 4LA-1; CLOL 13. Developed in United States. Pedigree - SR 4400 x Linn.

Unknown source. Received 07/20/2000.

**PI 617977. Lolium perenne L.**

Cultivar. L4B-5; CLOL 14. Developed in United States. Pedigree - Linn x SR 4400.

Unknown source. Received 07/20/2000.

**PI 617978. Lolium perenne L.**

Cultivar. NLB-2; CLOL 15. Developed in United States. Pedigree - SR 4500 x Linn.

Unknown source. Received 07/20/2000.

**PI 617979. Lolium perenne L.**

Cultivar. L4A-4; CLOL 16. Developed in United States. Pedigree - Linn x SR 4400.

Unknown source. Received 07/20/2000.

**PI 617980. Lolium hybrid**

Cultivar. MFA-4; CLOL 17.

Unknown source. Received 07/20/2000.

**PI 617981. Lolium hybrid**

Cultivar. MFB-2; CLOL 18.

Unknown source. Received 07/20/2000.

**PI 617982. Lolium perenne L.**

Cultivar. 4LB-2; CLOL 19. Developed in United States. Pedigree - SR 4400 x Linn.

Unknown source. Received 07/20/2000.

**PI 617983. Lolium perenne L.**

Cultivar. NLB-1; CLOL 20. Developed in United States. Pedigree - SR 4500 x Linn.

Unknown source. Received 07/20/2000.

**PI 617984. Lolium perenne L.**

Cultivar. U4A-1; CLOL 21.

Unknown source. Received 07/20/2000.

**PI 617985. Lolium perenne L.**

Cultivar. U4B-4; CLOL 22.

Unknown source. Received 07/20/2000.

**PI 617986. *Lolium perenne* L.**  
Cultivar. U4B-1; CLOL 23.

Unknown source. Received 07/20/2000.

**PI 617987. *Lolium perenne* L.**  
Cultivar. U4A-2; CLOL 24.

Unknown source. Received 07/20/2000.

**PI 617988. *Lolium perenne* L.**  
Cultivar. 4UB-5; CLOL 25.

Unknown source. Received 07/20/2000.

**PI 617989. *Lolium perenne* L.**  
Cultivar. 4UA-1; CLOL 26.

Unknown source. Received 07/20/2000.

**PI 617990. *Lolium perenne* L.**  
Cultivar. Cultivar No. 2; CLOL 27.

Unknown source. Received 07/20/2000.

**PI 617991. *Lolium multiflorum* Lam.**  
Cultivar. Floregon (FAR 16-3); CLOL 28.

Unknown source. Received 07/20/2000.

**PI 617992. *Lolium multiflorum* Lam.**  
Cultivar. Floregon (FAR 19-6); CLOL 29.

Unknown source. Received 07/20/2000.

**PI 617993. *Lolium multiflorum* Lam.**  
Cultivar. Floregon (FAR 28-3); CLOL 30.

Unknown source. Received 07/20/2000.

**PI 617994. *Lolium multiflorum* Lam.**  
Cultivar. Floregon (FAR 15-3); CLOL 31.

Unknown source. Received 07/20/2000.

**PI 617995. *Lolium multiflorum* Lam.**

Cultivar. Floregon (FAR 21-4); CLOL 32.

Unknown source. Received 07/20/2000.

**PI 617996. *Lolium multiflorum* Lam.**  
Cultivar. Floregon (FAR 18-2); CLOL 33.

Unknown source. Received 05/1999.

**PI 617997. *Lolium perenne* L.**  
Cultivar. Elka -2; CLOL 34. Pedigree - Seedling selection from Elka (PI 600841).

Unknown source. Received 05/1999.

**PI 617998. *Lolium perenne* L.**  
Cultivar. Elka -3; CLOL 35. Pedigree - Seedling selection from Elka (PI 600841).

Unknown source. Received 05/1999.

**PI 617999. *Lolium perenne* L.**  
Cultivar. Elka -4; CLOL 36. Pedigree - Seedling selection from Elka (PI 600841).

Unknown source. Received 05/1999.

**PI 618000. *Lolium perenne* L.**  
Cultivar. 4500-1 (4NJ96-1); 4NJ96-1; CLOL 37.

Unknown source. Received 05/1999.

**PI 618001. *Lolium perenne* L.**  
Cultivar. Linn -1; CLOL 38.

Unknown source. Received 05/1999.

**PI 618002. *Lolium perenne* L.**  
Cultivar. Linn -2; CLOL 39.

Unknown source. Received 05/1999.

**PI 618003. *Lolium perenne* L.**  
Cultivar. Manhattan-1 (Mann-1); Manhattan-1; CLOL 40.

Unknown source. Received 07/20/2000.

**PI 618004. *Lolium perenne* L.**

Cultivar. LNB-5; CLOL 41. Pedigree - Linn x SR 4500.

The following were developed by HZPC Holland B.V., Netherlands. Received 04/18/2001.

**PI 618005 PVPO. *Solanum tuberosum* L.**  
Cultivar. "SYMFONIA". PVP 9700235.

**PI 618006 PVPO. *Solanum tuberosum* L.**  
Cultivar. "LATONA". PVP 9700245.

The following were collected by James F. Hancock, Michigan State University, Department of Horticulture, Plant and Soil Science A 342, East Lansing, Michigan 48824-1325, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Received 08/24/1989.

**PI 618007. *Vaccinium* sp.**  
Wild. Collected 08/1989 in Idaho, United States. Latitude 45 deg. 50' N. Longitude 115 deg. 15' W. Elevation 2403 m. Bitterroot Nat'l Forest, Hell's Half Acre Mountain, old burn. Pedigree - Collected from the wild in Idaho. IDX. Incorrectly received as *Vaccinium*, keyed out as a *Ribes*.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 09/06/1991.

**PI 618008. *Vaccinium vitis-idaea* L.**  
Wild. Collected 08/27/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1930 m. Mt. Tateyama, Tateyama-machi, Nakaniikawa-gun, Toyama Pref. Pedigree - Collected from the wild in Japan. Inspection station reference no. SEA 8006.

The following were collected by Jeannie Allen, USDA, ARS, 7000 Storch Lane, Seabrook, Maryland 20706, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Gene Cooley. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 09/26/1991.

**PI 618009. *Vaccinium macrocarpon* Aiton**  
Wild. American Cranberry, Large Cranberry. Collected 09/17/1991 in Maryland, United States. Latitude 39 deg. N. Longitude 76 deg. 30' W. Elevation 10 m. Anne Arundel Co. near Annapolis, small sphagnum bog. Pedigree - Collected from the wild in Maryland. Native or introduced(?), found abundant with pitcher plant, yellow-eyed grass, *Rhynchospora*, *Hypericum urginum*, *Panicum*.

The following were developed by Albert Zillmer. Donated by Elden J. Stang, University of Wisconsin, Dept. Horticulture, 1575 Linden Dr., Madison,

Wisconsin 53706, United States. Received 08/13/1991.

**PI 618010. *Vaccinium vitis-idaea* L.**

Cultivar. "Erntedank". Pedigree - Selected from the wild in Germany. Characterized by weak growth and light green, oblong leaves. Fruit abundant, small to medium in size, bright red. Received 899.002 4-27-93 from #SERR1.

The following were collected by Sven Dahlbro. Developed by Sven Dahlbro. Donated by Elden J. Stang, University of Wisconsin, Dept. Horticulture, 1575 Linden Dr., Madison, Wisconsin 53706, United States. Received 08/13/1991.

**PI 618011. *Vaccinium vitis-idaea* L.**

Cultivar. "Sussi". Latitude 57 deg. 10' N. Longitude 13 deg. 25' E. Original seeds collected from province of Smaland in southern Sweden. Pedigree - open pollinated lingonberry from the province of Smaland in southern Sweden. Selected by Professor Sven Dahlbro. Hardy and well adapted to the Swedish (origin) climate. High yield (8-10 tons/ha) and berries ripen uniformly. High ornamental value. Received 900.002 4-27-93 from #SERR1.

The following were collected by Jeannie Allen, USDA, ARS, 7000 Storch Lane, Seabrook, Maryland 20706, United States. Received 10/23/1991.

**PI 618012. *Vaccinium macrocarpon* Aiton**

Wild. Site I; American Cranberry, Large Cranberry. Collected 10/17/1991 in Virginia, United States. Latitude 36 deg. 50' N. Longitude 80 deg. 49' W. Elevation 840 m. Amburn/Landreth Farm, Woodlawn, north of Poplar Knob. Pedigree - Collected from the wild in Virginia. Typical cranberry bog, cleared of vegetation by owner. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618013. *Vaccinium macrocarpon* Aiton**

Wild. Site II; American Cranberry, Large Cranberry. Collected 10/17/1991 in Virginia, United States. Latitude 36 deg. 40' N. Longitude 80 deg. 56' W. Elevation 786 m. Big Spring Glade, natural area owned by Nature Conservancy. Pedigree - Collected from the wild in Virginia. 'Poor fen'. Cranberry crop at this site very poor in 1991. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618014. *Vaccinium macrocarpon* Aiton**

Wild. Site IV; American Cranberry, Large Cranberry. Collected 10/17/1991 in Tennessee, United States. Latitude 36 deg. 29' N. Longitude 81 deg. 57' W. Cross Mountain, private residence, Shady Valley, downslope Owned by Lester & Pearl Osborne. To be inherited by daughter. Pedigree - Collected from the wild in Tennessee. Site a nearly level 1/2A seepage area. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618015. *Vaccinium macrocarpon* Aiton**

Wild. Allen 7; American Cranberry, Large Cranberry. Collected 10/29/1991 in West Virginia, United States. Latitude 39 deg. 31' N. Longitude 79 deg. 29' W. Elevation 860 m. Bog near WV/MD border owned by the Nature Conservancy Cranesville Swamp. Pedigree - Collected from the wild in

West Virginia. Site holding moisture well in a regional drought, designated as a National Natural Landmark.

**PI 618016. *Vaccinium macrocarpon* Aiton**

Wild. Allen 8; American Cranberry, Large Cranberry. Collected 10/29/1991 in Maryland, United States. Elevation 830 m. Pedigree - Collected from the wild in Maryland. *V. macrocarpon* intermixed with *V. oxycoccos*. Collection site to be renamed by the MD Nat'l Heritage Program Staff.

**PI 618017. *Vaccinium oxycoccos* L.**

Wild. Allen 13; Cranberry, Small-fruited Cranberry. Collected 10/30/1991 in Maryland, United States. Elevation 893 m. Pedigree - Collected from the wild in Maryland. Associated with sphagnum, *solidago uliginosa*.  
<br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618018. *Vaccinium macrocarpon* Aiton**

Wild. Allen 14; American Cranberry, Large Cranberry. Collected 10/30/1991 in Maryland, United States. Elevation 893 m. Pedigree - Collected from the wild in Maryland. Very dry site, *V. macrocarpon* fruits few and scattered. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618019. *Vaccinium oxycoccos* L.**

Wild. Allen 15; Cranberry, Small-fruited Cranberry. Collected 10/30/1991 in Maryland, United States. Elevation 893 m. Pedigree - Collected from the wild in Maryland. Very dry site, *V. macrocarpon* fruits few and scattered. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618020. *Vaccinium macrocarpon* Aiton**

Wild. Allen 16; American Cranberry, Large Cranberry. Collected 10/30/1991 in West Virginia, United States. Latitude 39 deg. 7' N. Longitude 79 deg. 26' W. Minerotrophic fen in large basin between 2 ridges, Tucker Co Big Run Bog (A.K.A. Olson Bog), Monongahela National Forest. Pedigree - Collected from the wild in West Virginia. Site proposed as a research natural area. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618021. *Vaccinium oxycoccos* L.**

Wild. Allen 17; Cranberry, Small-fruited Cranberry. Collected 10/30/1991 in West Virginia, United States. Latitude 39 deg. 7' N. Longitude 79 deg. 26' W. Minerotrophic fen in large basin between 2 ridges, Tucker Co Big Run Bog (A.K.A. Olson Bog) Monongahela National Forest. Pedigree - Collected from the wild in West Virginia. Site proposed as a research natural area. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

**PI 618022. *Vaccinium macrocarpon* Aiton**

Wild. Allen 18; American Cranberry, Large Cranberry. Collected 10/30/1991 in West Virginia, United States. Latitude 39 deg. 5' N. Longitude 79 deg. 29' W. Elevation 373 m. 50A area intermediate between bog and fen, Tucker Co. Red Run Headwaters Bog, Monongahela National Forest. Pedigree - Collected from the wild in West Virginia. road from this site, too few plants to collect. <br><br>(This accession was part of the PL,SD 'breakout' - 1992).

The following were donated by Oregon Blueberry Farms, 8474 Hazelgreen Road, Silverton, Oregon 97381, United States. Received 11/22/1991.

**PI 618023. *Vaccinium corymbosum* L.**

Cultivar. "Toro". Developed in United States. Pedigree - Earliblue x Ivanhoe.

The following were developed by G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States; Nick Vorsa, Rutgers University, Blueberry & Cranberry, Research Station, Chatsworth, New Jersey 08109, United States; G. Jelenkovic; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by Oregon Blueberry Farms, 8474 Hazelgreen Road, Silverton, Oregon 97381, United States. Received 11/22/1991.

**PI 618024. *Vaccinium corymbosum* L.**

Cultivar. "Sunrise". Pedigree - G-180 x Me-US 6620. Moderately vigorous, taller than Bluetta, but berries are similar in size and color, superior in scar and flavor.

The following were collected by Jerry Tecklin, 21020 Shields Camp Rd., Nevada City, California 95959, United States. Received 12/18/1991.

**PI 618025. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Collected 12/1991 in California, United States. Badger Pit, old mining area. Pedigree - Collected from the wild in California. From 0.1A seep-fed depression in center of an excavated pit.

**PI 618026. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Collected 12/1991 in California, United States. Lonesome Lake, an old mining area. Pedigree - Collected from the wild in California. Part of the excavation of the East Pit area. 1/4A depression with a shallow water table, grown in hummocks.

**PI 618027. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Collected 12/1991 in California, United States. Lonesome Lake, an old mining area. Pedigree - Collected from the wild in California. Part of the excavation of the East Pit area. 1/4A depression with a shallow water table, grown in hummocks.

**PI 618028. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Collected 12/1991 in California, United States. East Pit, an old mining area. Pedigree - Collected from the wild in California. Old flooded excavation, several hundred acres large. Many seeps and springs. From drained area in the center.

**PI 618029. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Collected 12/1991 in California, United States. East Pit, an old mining area. Pedigree - Collected from the wild in California. Old flooded excavation, several

hundred acres large. Many seeps and springs. From drained area in the center.

The following were donated by John Hart, Oregon State University, Dept. Crop and Soil Science, Corvallis, Oregon 97331-2213, United States. Received 01/10/1992.

**PI 618030. *Vaccinium macrocarpon* Aiton**

Wild. American Cranberry, Large Cranberry. Pedigree - Collected from the wild in Oregon. Awaiting collection information from Hart.

The following were collected by Toma Dimitrovski, Faculty of Agriculture and Forestry, University of Skopje, Skopje, Macedonia. Donated by Paul R. Hepler, University of Maine, Dept. Plant and Soil Sci., Deering Hall, Orono, Maine 04473, United States. Received 12/10/1986.

**PI 618031. *Vaccinium vitis-idaea* L.**

Wild. Collected 1971 in Uncertain. Latitude 44 deg. N. Longitude 20 deg. E. Elevation 1250 m. Pedigree - Collected from the wild in Yugoslavl. (This accession was part of the PL,SD 'breakout' - 1992).

The following were developed by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; G. J. Galletta, USDA, ARS, Building 010A, BARC-West, 10300 Baltimore Avenue, Beltsville, Maryland 20705-2350, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 04/03/1984.

**PI 618032. *Vaccinium corymbosum* L.**

Breeding. Collected in North Carolina, United States. Pedigree - Increased seed of NC 1523 (CVAC 311). (This accession was part of the PL,SD 'breakout' - 1992).

The following were developed by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Donated by Mike Baker, N.C. Foundation Seed Producers, P.O. Box 33245, Method Station, Raleigh, North Carolina 27636, United States. Received 03/15/1992.

**PI 618033. *Vaccinium corymbosum* L.**

Cultivar. "Bladen"; Southern Highbush. Pedigree - NC 1171 x NC SF-12-L. Tetraploid 'southern highbush' type involving 3 species of Southern origin: *V. darrowi*, *V. ashei*, and *V. tenellum*.

The following were developed by D.H. Scott, Crops Research Division, USDA-ARS, Plant Industry Station, Beltsville, Maryland 20705-2350, United States; G. Jelenkovic; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 04/03/1992.

**PI 618034. *Vaccinium corymbosum* L.**

Cultivar. "Bluegold". Pedigree - Bluehaven x Me-US 5 (Ashworth x Bluecrop). Recommended as a late season cultivar for both commercial packing and pick-your-own in high-chilling areas.

The following were developed by James N. Moore, University of Arkansas, Dept. of Horticulture and Forestry, 316 Plant Sciences Building, Fayetteville, Arkansas 72701, United States; George M. Darrow, USDA-ARS, Plant Industry Station, Plant Introduction Section, Crops Research Division, Beltsville, Maryland 20705-2350, United States; L.F. Hough, Rutgers University, Department of Horticulture, New Brunswick, New Jersey, United States; D.H. Scott, Crops Research Division, USDA-ARS, Plant Industry Station, Beltsville, Maryland 20705-2350, United States; H.H. Bowen. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 04/03/1992.

**PI 618035. *Vaccinium corymbosum* L.**

Cultivar. "Darrow". Pedigree - F-72 (Whareham x Pioneer) x Bluecrop. Berries attractive, as large or larger than those of Coville. Light blue, aromatic, highly flavored, ripens with Coville.

The following were collected by Elden J. Stang, University of Wisconsin, Dept. Horticulture, 1575 Linden Dr., Madison, Wisconsin 53706, United States. Received 04/23/1992.

**PI 618036. *Vaccinium oxycoccos* L.**

Wild. C44; *V. oxycoccos*. Collected 1987 in Turku ja Pori, Finland. Latitude 61 deg. 26' N. Longitude 21 deg. 53' E. Elevation 0 m. Ulvila. Abandoned peat mining beds. Pedigree - Collected from the wild in Finland.

**PI 618037. *Vaccinium oxycoccos* L.**

Wild. C45; *V. oxycoccos*. Collected 1987 in Turku ja Pori, Finland. Latitude 60 deg. 25' N. Longitude 22 deg. 30' E. Elevation 0 m. Pyottiala, near Piikkio. Abandoned peat mining beds. Pedigree - Collected from the wild in Finland.

**PI 618038. *Vaccinium oxycoccos* L.**

Wild. C46; *V. oxycoccos*. Collected 1987 in Turku ja Pori, Finland. Latitude 61 deg. 28' N. Longitude 22 deg. 0' E. Elevation 0 m. Kaasmarku. Abandoned peat mining beds. Pedigree - Collected from the wild in Finland.

The following were donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618039. *Vaccinium macrocarpon* Aiton**

Wild. AA 4. Developed in United States. Pedigree - collected from the wild. Evaluation information provided.

**PI 618040. *Vaccinium macrocarpon* Aiton**

Wild. AR 2. Developed in United States. Pedigree - collected from the wild. Evaluation information provided.

The following were developed by H.F. Bain. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618041. Vaccinium macrocarpon** Aiton

Breeding. Bain Favorite No. 1. Pedigree - Cranberry Selection.  
Evaluation information provided.

**PI 618042. Vaccinium macrocarpon** Aiton

Breeding. Bain 2. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618043. Vaccinium macrocarpon** Aiton

Breeding. Bain 3. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618044. Vaccinium macrocarpon** Aiton

Breeding. Bain 4. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618045. Vaccinium macrocarpon** Aiton

Breeding. Bain 5. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618046. Vaccinium macrocarpon** Aiton

Breeding. Bain 6. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618047. Vaccinium macrocarpon** Aiton

Breeding. Bain 7. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618048. Vaccinium macrocarpon** Aiton

Breeding. Bain 8. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618049. Vaccinium macrocarpon** Aiton

Breeding. Bain 9. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618050. Vaccinium macrocarpon** Aiton

Breeding. Bain 10. Pedigree - Cranberry Selection. Evaluation information provided.

**PI 618051. Vaccinium macrocarpon** Aiton

Breeding. Bain Favorite No. 2. Pedigree - Cranberry Selection.  
Evaluation information provided.

**PI 618052. Vaccinium macrocarpon** Aiton

Breeding. Bain McFarlin. Pedigree - Selection of McFarlin intermeshed with Wisconsin natives. Evaluation information provided.

The following were donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618053. Vaccinium macrocarpon** Aiton

Cultivar. "Biron Selection". Developed in United States. Pedigree - Uncertain. Evaluation information provided.

**PI 618054. Vaccinium macrocarpon** Aiton

Cultivar. "Drever". Developed in United States. Pedigree - Uncertain. Evaluation information provided.

**PI 618055. Vaccinium macrocarpon** Aiton

Cultivar. "Habelman 2". Developed in United States. Pedigree - Uncertain. Evaluation information provided.

The following were developed by George Batchelder. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618056. Vaccinium macrocarpon** Aiton

Cultivar. "Hollison". Pedigree - selected from the wild in Massachusetts. Fruit late, deep red, large, good production, poor keeping quality, oblong shape.

The following were developed by Isaiah Matthews. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618057. Vaccinium macrocarpon** Aiton

Cultivar. "Matthews". Pedigree - Uncertain. Very similar in vine and fruit to Centreville.

The following were developed by J.W. Howes, Unknown. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618058. Vaccinium macrocarpon** Aiton

Cultivar. "Middleboro". Pedigree - selected from the wild in Middleboro, Massachusetts. Fruit late, deep red, 54-58 cupcount, good producer, poor keeping quality. Vines fine-medium, tall, medium green.

The following were collected by J.W. Shaw, Carver, Massachusetts, United States. Developed by J.W. Shaw, Carver, Massachusetts, United States. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618059. Vaccinium macrocarpon** Aiton

Cultivar. CVAC 1046. Collected in Massachusetts, United States. Pedigree - Katharine x Rubel. Fruit: late, light red, spindle shaped with a pointed stem end. 67 cupcount, excellent production, poor keeping quality. Moderately vigorous plant, fine-to-medium-textured vines with medium tall uprights.

The following were developed by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618060. *Vaccinium macrocarpon* Aiton**

Breeding. Rezin McFarlin. Pedigree - cranberry selection. Evaluation information provided.

**PI 618061. *Vaccinium macrocarpon* Aiton**

Breeding. Rezin Native. Pedigree - Selected from the wild in Wisconsin. Evaluation information provided.

The following were developed by D.J. Crowley. Donated by Donald M. Boone, 3621 Spring Trail, Madison, Wisconsin 53711, United States. Received 05/06/1992.

**PI 618062. *Vaccinium macrocarpon* Aiton**

Breeding. WSU 61. Pedigree - Selection. Evaluation information provided.

**PI 618063. *Vaccinium macrocarpon* Aiton**

Breeding. WSU 77. Pedigree - Selection. Evaluation information provided.

**PI 618064. *Vaccinium macrocarpon* Aiton**

Breeding. WSU 108. Pedigree - Selection. Evaluation information provided

The following were developed by Charles Doughty, Washington State University, Experiment Station, Puyallup, Washington, United States; James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Donated by Kim Patten, Washington State University, Long Beach Res. & Ext. Unit, Rt. 1, Box 520, Long Beach, Washington 98631, United States. Received 07/08/1992.

**PI 618065. *Vaccinium corymbosum* L.**

Breeding. Pedigree - Canada Blue x Early Blue.

**PI 618066. *Vaccinium* hybrid**

Breeding. Pedigree - F2 *V. corymbosum* x *V. uliginosum*.

**PI 618067. *Vaccinium* hybrid**

Breeding. Pedigree - F2 *V. corymbosum* x *V. uliginosum*.

**PI 618068. *Vaccinium* hybrid**

Breeding. Pedigree - Species hybrid.

**PI 618069. *Vaccinium* hybrid**

Breeding. Pedigree - Species hybrid.

**PI 618070. *Vaccinium* hybrid**

Breeding. Pedigree - Species hybrid.

**PI 618071. *Vaccinium* hybrid**

Breeding. Pedigree - Species hybrid.

The following were collected by Thomas A. Lumpkin, Washington State University, Department of Crop and Soil Science, 261 Johnson Hall, Pullman, Washington 99164-6420, United States. Received 08/05/1992.

**PI 618072. *Vaccinium* sp.**

Uncertain. Collected 07/31/1992 in Russian Federation. Latitude 47 deg. 58' N. Longitude 141 deg. 14' E. Elevation 500 m. Ilyinskij, Sakhalin Island. Pedigree - collected from the wild in Russia.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/17/1992.

**PI 618073. *Vaccinium vitis-idaea* L.**

Wild. Collected 08/15/1992 in Alaska, United States. Latitude 57 deg. 3' 11'' N. Longitude 135 deg. 19' 9'' W. Elevation 0 m. Sitka, Alaska - muskeg along Beaver Lake Trail. Growing with Spagnum, Cassiope, Tsuga seedlings. Pedigree - Collected from the wild in Alaska.

The following were donated by Mark Ehlenfeldt, USDA-ARS, Rutgers Blueberry and Cranberry Research Center, 125A Lake Oswego Road, Chatsworth, New Jersey 08019, United States. Received 09/14/1992.

**PI 618074. *Vaccinium ovalifolium* Sm.**

Wild. Collected 1958 in United States. Pedigree - collected from the wild.

**PI 618075. *Vaccinium praestans* Lamb.**

Wild. Kamchatka Bilberry. Collected 1966 in Russian Federation. Pedigree - collected from the wild in Russia.

**PI 618076. *Vaccinium retusum* (Griff.) Hook. f. ex C. B. Clarke**

Wild. Collected in India. Pedigree - collected from the wild in India.

**PI 618077. *Vaccinium myrtillus* L.**

Wild. Myrtle Whortleberry. Collected 1962 in Poland. Pedigree - collected from the wild in Poland.

**PI 618078. *Vaccinium reticulatum* Sm.**

Wild. Collected 1964 in Hawaii, United States. Pedigree - collected from the wild in Hawaii.

**PI 618079. *Vaccinium uliginosum* subsp. *occidentale* (A. Gray) Hulten**

Wild. Bog Bilberry. Collected 1968 in New Jersey, United States. Pedigree - collected from the wild in New Jersey.

**PI 618080. *Vaccinium cespitosum* Michx.**

Wild. Dwarf Huckleberry, Dwarf Bilberry. Collected 1968 in New Jersey, United States. Pedigree - collected from the wild.

**PI 618081. *Vaccinium* sp.**

Wild. Collected 1968 in Colombia. Pedigree - collected from the wild in Columbia.

**PI 618082. *Vaccinium neilgherrense* Wight**

Wild. Collected in India. W. Yercaud Region, So. India. Pedigree - collected from the wild in India.

The following were collected by George M. Darrow, USDA-ARS, Plant Industry Station, Plant Introduction Section, Crops Research Division, Beltsville, Maryland 20705-2350, United States. Donated by Mark Ehlenfeldt, USDA-ARS, Rutgers Blueberry and Cranberry Research Center, 125A Lake Oswego Road, Chatsworth, New Jersey 08019, United States. Received 09/14/1992.

**PI 618083. *Vaccinium* sp.**

Wild. Collected 1965 in Hawaii, United States. Volcano site. Pedigree - collected from the wild in Hawaii.

The following were donated by Nellie M. Stark, 36053 Blakesley Creek Rd, Philomath, Oregon 97370, United States. Received 09/18/1992.

**PI 618084. *Vaccinium vitis-idaea* L.**

Wild. Collected in Russian Federation. Latitude 64 deg. 34' 0'' N. Longitude 40 deg. 32' 0'' E. Archangelsk, Russia. Pedigree - collected from the wild in Russia.

**PI 618085. *Vaccinium myrtillus* L.**

Wild. Myrtle Whortleberry. Collected in Russian Federation. Latitude 64 deg. 34' 0'' N. Longitude 40 deg. 32' 0'' E. Archangelsk, Russia. Pedigree - collected from the wild in Russia.

The following were collected by Paul Robbins, Department of Entomology, Cornell University NYSAES, Geneva, New York 14456, United States. Received 08/26/1992.

**PI 618086. *Vaccinium* sp.**

Wild. Cranberry. Collected 08/22/1992 in New York, United States. Latitude 43 deg. 45' N. Longitude 74 deg. 45' W. Limekiln Lake near Fawn Mtn - Hamilton county, Town of Inlet. Pedigree - collected from the wild.

The following were donated by Forest Farm Nursery, 990 Tetherow Road, Williams, Oregon 97544, United States. Received 10/15/1992.

**PI 618087. *Vaccinium oxycoccos* L.**

Wild. Small Cranberry. Collected in New Hampshire, United States. Maybe New Hampshire. Pedigree - collected from the wild in New Hampshire.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Barbara Fick, Oregon State University, Extension Service, Marion County, 3180 Center NE, Room 1361, Salem, Oregon 97301, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 03/20/1993.

**PI 618088. *Vaccinium arboreum* Marshall**

Wild. Farkleberry, Sparkleberry. Collected 10/1992 in Oregon, United States. Latitude 36 deg. N. Longitude 90 deg. W. T34N, R3E, Sec 15, NE 14 and Sec 16, NW 1/4. Elephant Rocks State Park, Iron County, Missouri. Pedigree - collected from the wild in Missouri. Seed from a superior clone. See login notes for more info.

The following were donated by Rod Serres, University of Wisconsin-Madison, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Received 04/27/1993.

**PI 618089. *Vaccinium vitis-idaea* L.**

Cultivar. "Erntesegen". German plant breeder's rights. Developed in Germany. Pedigree - selection of wild lingonberry from Germany.

**PI 618090. *Vaccinium vitis-idaea* L.**

Breeding. Erntekrone. Developed in Germany. Pedigree - selection of wild lingonberry from Germany.

**PI 618091. *Vaccinium vitis-idaea* L.**

Breeding. Red Pearl. Developed in United States. Pedigree - lingonberry selection from the wild in Holland.

**PI 618092. *Vaccinium vitis-idaea* L.**

Breeding. Scarlet. Developed in United States.

The following were collected by Sven Dahlbro. Developed by Swedish University of Agricultural Science, Department of Horticultural Plant Breeding, Fjlskestadsv 123-1, Kristianstad, Kristianstad S 291 94, Sweden. Donated by Rod Serres, University of Wisconsin-Madison, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Received 04/27/1993.

**PI 618093. *Vaccinium vitis-idaea* L.**

Cultivar. Sanna. Swedish Patent. Hardy and well adapted to the Swedish (origin) climate. High yield (8-10 tons/ha) and berries ripen uniformly.

The following were donated by Rod Serres, University of Wisconsin-Madison, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Received 04/27/1993.

**PI 618094. *Vaccinium vitis-idaea* L.**

Breeding. Masovia. Developed in Uncertain. Pedigree - *V. vitis-idaea* seedling selection.

The following were donated by Daniel P. Hartmann, Hartmann's Plantation Inc, 310 60th Street, PO Box E, Grand Junction, Michigan 49056, United States. Received 08/05/1993.

**PI 618095. *Vaccinium vitis-idaea* L.**

Cultivar. Developed in Germany. Pedigree - lingonberry selection.

The following were collected by Argyll Ardetinny. Donated by Clive Simms, Woodhurst, 6 Stamford Rd., Essendine, Stamford, Stamford, England PE9 4LQ, United Kingdom. Received 08/25/1993.

**PI 618096. *Vaccinium myrtillus* L.**

Wild. Collected 08/18/1993 in Scotland, United Kingdom. Collected from

Puck's Glen, Southwest Scotland. Pedigree - Seed collected from the wild in Scotland.

The following were developed by George M. Darrow, USDA-ARS, Plant Industry Station, Plant Introduction Section, Crops Research Division, Beltsville, Maryland 20705-2350, United States; F.V. Coville; Freeman; J.H. Clark, New Jersey State University, Agricultural Research Station, New Brunswick, New Jersey, United States. Donated by Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Received 08/18/1993.

**PI 618097. *Vaccinium corymbosum* L.**

Cultivar. "Bluecrop". Pedigree - GM-37 (Jersey x Pioneer) x CU-5 (Stanley x June). Very consistent producer, drought resistant, widely adapted. True to type (Dr. Hancock); Virus free.

The following were developed by D.H. Scott, Crops Research Division, USDA-ARS, Plant Industry Station, Beltsville, Maryland 20705-2350, United States; G. Jelenkovic; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Received 08/18/1993.

**PI 618098. *Vaccinium corymbosum* L.**

Cultivar. "Bluegold". Pedigree - Bluehaven x Me-US 5 (Ashworth x Bluecrop). Recommended as a late season cultivar for both commercial packing and pick-your-own in high-chilling areas. True to type (Dr. Hancock). Virus free.

The following were donated by Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Received 08/18/1993.

**PI 618099. *Vaccinium corymbosum* L.**

Cultivar. "Sierra". Developed in United States. Pedigree - US 169 x G-156. True to type (Dr. Hancock); Virus free.

**PI 618100. *Vaccinium corymbosum* L.**

Cultivar. "Nelson". Developed in United States. Pedigree - Bluecrop x G107 (F-72 x Berkeley). True to type (Dr. Hancock); Virus free.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/27/1993.

**PI 618101. *Vaccinium cespitosum* Michx.**

Wild. Hatcher-4. Collected 08/10/1993 in Alaska, United States. Latitude 61 deg. 45' N. Longitude 149 deg. 15' W. Elevation 610 m. About 15 miles on Hatcher Pass Road before Independence Mine State Park. Tundra, no trees, willow, shrubs, many vaccinium. Pedigree - Collected from the wild in Alaska.

**PI 618102. *Vaccinium ovalifolium* Sm.**

Wild. Hatcher-2. Collected 08/10/1993 in Alaska, United States. Latitude 61 deg. 45' N. Longitude 149 deg. 15' W. Elevation 610 m. About 15 miles on Hatcher Pass Road before Independence Mine State Park. Tundra, no trees, willow, shrubs, many vaccinium. Pedigree - Collected from the wild in Alaska.

**PI 618103. *Vaccinium oxycoccos* L.**

Wild. Ninilchik-3. Collected 08/08/1993 in Alaska, United States. Latitude 60 deg. 5' N. Longitude 151 deg. 40' W. Elevation 15 m. Just E of old Russian Church in Ninilchik, S side of road 1/8 mile from coast. Dry bog, clearing in spruce forest. Pedigree - Collected from the wild in Alaska.

**PI 618104. *Vaccinium oxycoccos* L.**

Wild. Leila-2. Collected 08/11/1993 in Alaska, United States. Latitude 61 deg. 55' N. Longitude 147 deg. 20' W. Elevation 915 m. Milepost 118 Glenn Hwy, E side of road, W side of Leila Lake Boggy, scattered spruce trees, much willow and other shrubs. Pedigree - Collected from the wild in Alaska.

**PI 618105. *Vaccinium uliginosum* L.**

Wild. Collected 08/07/1993 in Alaska, United States. Latitude 59 deg. 43' N. Longitude 151 deg. 15' W. Elevation 305 m. 9 mi E of Homer, N side of East End Road. Dry bog, clearing in spruce forest. Pedigree - Collected from the wild in Alaska. Photos 2-25 (habitat), 3-1,3-1 (plant). Collector's #: Homer-3.

**PI 618106. *Vaccinium uliginosum* L.**

Wild. Collected 08/10/1993 in Alaska, United States. Latitude 61 deg. 45' N. Longitude 149 deg. 15' W. Elevation 610 m. About 15 miles on Hatcher Pass Road before Independence Mine State Park. Tundra, no trees, willow, shrubs, many vaccinium. Pedigree - Collected from the wild in Alaska. May be a few *V. ovalifolium* berries in sample. Collector's #: Hatcher-1.

**PI 618107. *Vaccinium uliginosum* L.**

Wild. Toklat-1. Collected 08/15/1993 in Alaska, United States. Latitude 63 deg. 30' N. Longitude 150 deg. 5' W. Elevation 915 m. Denali Park Road about 2 miles W of Toklat River. Tundra S of road several hundred feet above stream. Pedigree - Collected from the wild in Alaska.

**PI 618108. *Vaccinium uliginosum* L.**

Wild. Collected 08/17/1993 in Alaska, United States. Latitude 63 deg. 10' N. Longitude 145 deg. 30' W. Elevation 975 m. Richardson Hwy N of Paxon along E side of Summit Lake, E side of road. Hillside tall tundra. Pedigree - Collected from the wild in Alaska. Fruit from wide area, clone was particularly productive. Collector's #: Summit-1.

**PI 618109. *Vaccinium uliginosum* L.**

Wild. Collected 08/17/1993 in Alaska, United States. Latitude 62 deg. 30' N. Longitude 145 deg. 30' W. Elevation 610 m. Richardson Hwy about 25 mi N of Gakona Junction at Sourdough State Campground. Boggy area above Gulkana River. Pedigree - Collected from the wild in Alaska. Attractive light blue berries from heavy bloom. Collector's #: Sourdough-1.

**PI 618110. *Vaccinium vitis-idaea* L.**

Wild. Homer-1. Collected 08/07/1993 in Alaska, United States. Latitude 59 deg. 43' N. Longitude 151 deg. 15' W. Elevation 305 m. 8 mi E of Homer, N side of East End Road. Edge of spruce forest. Pedigree - Collected from the wild in Alaska.

**PI 618111. *Vaccinium vitis-idaea* L.**

Wild. Collected 08/13/1993 in Alaska, United States. Latitude 61 deg. 37' N. Longitude 150 deg. 0' W. Elevation 120 m. About 6 mi W of Nancy on Nancy Lake Pkwy, by Canoe Trailhead S side of road. Boggy clearing in spruce forest near lake. Pedigree - Collected from the wild in Alaska. Fruit larger than others seen to date (photo). Collector's #: Lynx Lake-1.

**PI 618112. *Vaccinium vitis-idaea* L.**

Wild. Toklat-2. Collected 08/15/1993 in Alaska, United States. Latitude 63 deg. 30' N. Longitude 150 deg. 5' W. Elevation 915 m. Denali Park Road about 2 miles W of Toklat River. Tundra S of road several hundred feet above stream. Pedigree - Collected from the wild in Alaska.

**PI 618113. *Vaccinium vitis-idaea* L.**

Wild. Collected 08/16/1993 in Alaska, United States. Latitude 64 deg. 45' N. Longitude 147 deg. 10' W. Elevation 150 m. W of Richardson Hwy near entrance to Eielson Air Force Base. Boggy area in open spruce forest. Pedigree - Collected from the wild in Alaska. Fruit larger than usual on collected plants. Collector's #: Fairbanks-1.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618114. *Vaccinium macrocarpon* Aiton**

Clone. Collected in North Carolina, United States. Latitude 35 deg. 39' N. Longitude 83 deg. W. Elevation 1524 m. Blue Ridge Mountains, Haywood County, North Carolina. Pedigree - collected from the wild in North Carolina.

**PI 618115. *Vaccinium simulatum* Small**

Wild. Collected in North Carolina, United States. Latitude 35 deg. N. Longitude 83 deg. 30' W. Mt. Satulah, Macon County, North Carolina. Pedigree - Open-pollinated seedling collected wild in North Carolina.

**PI 618116. *Vaccinium corymbosum* L.**

Wild. Collected in North Carolina, United States. Latitude 35 deg. N. Longitude 83 deg. W. Whiteside Mountain, Jackson County, North Carolina. Pedigree - collected from the wild in North Carolina. Representative plant from another population.

The following were developed by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618117. *Vaccinium* hybrid**

Breeding. Pedigree - NC 3048 amphidiploid sdlg (see notes). Evergreen in North Carolina. Nice ornamental.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618118. *Vaccinium arboreum* Marshall**

Wild. Collected in North Carolina, United States. Latitude 35 deg. 48' N. Longitude 80 deg. W. Uwharrie Mountains, Davidson County, North Carolina. Pedigree - collected from the wild in North Carolina.

**PI 618119. *Vaccinium arboreum* Marshall**

Wild. Collected in North Carolina, United States. Latitude 35 deg. 50' N. Longitude 80 deg. 13' W. Elevation 200 m. Lexington County, North Carolina. Pedigree - collected from the wild in North Carolina.

**PI 618120. *Vaccinium arboreum* Marshall**

Wild. Collected in Texas, United States. Latitude 35 deg. 40' N. Longitude 96 deg. 27' W. Elevation 1 m. College Station, Texas. Pedigree - collected from the wild in Texas. Glaucous leaves and fruit, nice ornamental.

The following were developed by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618121. *Vaccinium cylindraceum* Sm.**

Wild. Collected in Azores, Portugal. Pedigree - Seedling from intercross of 2 clones. Species originally from Azores. Beautiful ornamental. Evergreen in North Carolina.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618122. *Vaccinium corymbodendron* Dunal**

Wild. Collected in Colombia. Pedigree - Luteyn 13311 Open-pollinated. Species originally from Colombia.

**PI 618123. *Vaccinium corymbodendron* Dunal**

Uncertain. Collected in Colombia. Pedigree - Luteyn 13311 Open-pollinated. Species originally from Colombia.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/08/1993.

**PI 618124. *Vaccinium stamineum* L.**

Breeding. V. stamineum B-76. Collected in United States. Lexington County, South Carolina. Pedigree - Elite selection of species. Elite selection, non-bitter skin, good flavor edible fruit.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North

Carolina 27695-7609, United States. Received 11/08/1993.

**PI 618125. *Vaccinium darrowii* Camp**

Breeding. *V. darrowii* NC 3283. Collected in Georgia, United States. Lexington County, South Carolina. Developed in United States. Pedigree - Selection from cross of 2 clones from Georgia.

The following were collected by Sam P. Vander Kloet, Acadia University, Biology Department, Wolfville, Nova Scotia B0P 1X0, Canada. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/08/1993.

**PI 618126. *Vaccinium padifolium* Sm.**

Wild. *V. maderiense*; *V. padifolium*. Collected in Canary Islands, Spain. Canary Islands, Spain. Pedigree - Selection collected from the wild in Canary Islands.

**PI 618127. *Vaccinium arctostaphylos* L.**

Wild. Collected in Turkey. Pedigree - Selection collected from the wild in Turkey. Vander Kloet 63100.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/08/1993.

**PI 618128. *Vaccinium virgatum* Aiton**

Wild. *V. amoenum* Clone C. Collected in Georgia, United States. Pedigree - Elite clone from Georgia. Tall plant like *V. asheii*.

The following were collected by Paul Lyrene, University of Florida, Department of Fruit Crops, 2135 Fifield Hall, Gainesville, Florida 32611, United States. Developed by Paul Lyrene, University of Florida, Department of Fruit Crops, 2135 Fifield Hall, Gainesville, Florida 32611, United States. Received 02/09/1994.

**PI 618129. *Vaccinium virgatum* Aiton**

Cultivated. Collected 1968 in Florida, United States. Latitude 30 deg. 15' N. Longitude 80 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.

**PI 618130. *Vaccinium virgatum* Aiton**

Cultivated. Collected 1984 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.

**PI 618131. *Vaccinium virgatum* Aiton**

Cultivated. Collected 06/27/1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.

- PI 618132. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 06/27/1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618133. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 1978 in Florida, United States. Latitude 31 deg. 12' N. Longitude 82 deg. 25' W. Elevation 200 m. Satilla River at sand mine on Hwy 82 near Waycross, Georgia. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618134. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 06/27/1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618135. *Vaccinium virgatum* Aiton**  
Breeding. Collected in Florida, United States. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618136. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 07/08/1978 in Florida, United States. Latitude 30 deg. 45' N. Longitude 118 deg. 58' W. Elevation 200 m. Interstate 10 near Crestview (2km east of Harold, FL) at old seedling plantation. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618137. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 06/27/1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes. Hexaploid, compact growth.
- PI 618138. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 06/27/1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618139. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 1978 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618140. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 1978 in Florida, United States. Latitude 30 deg. 45' N. Longitude 85 deg. 32' W. Elevation 200 m. Old seedling plantation in Bondifay, Florida. Observation data from University of Florida Horticultural. Unit in login notes.
- PI 618141. *Vaccinium virgatum* Aiton**  
Cultivated. Collected 1984 in Florida, United States. Latitude 30 deg. 15' N. Longitude 82 deg. 0' W. Elevation 200 m. St. Marys River between

McClenny, FL and St. George, GA. Observation data from University of Florida Horticultural. Unit in login notes. Earliest ripening plant collected by P. Lyrene.

The following were collected by Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States. Received 04/15/1994.

**PI 618142. *Vaccinium* sp.**

Wild. Collected in Oregon, United States.

**PI 618143. *Vaccinium* sp.**

Wild. Collected in Oregon, United States.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/13/1994.

**PI 618144. *Vaccinium myrtillus* L.**

Wild. Collected 07/08/1994 in Italy. Latitude 44 deg. 48' N. Longitude 7 deg. 5' E. Elevation 1200 m. Bobbio Pellice, 55 km SW of Torino, W of the town of Torre Pellice. Rich clay-loam, understory beneath Chestnut forest, steep rocky hillside above the home of Aldo Charbonier. Aldo Charbonier is mayor of Bobbio Pellice.

The following were donated by Jennifer L. Windus, Ohio Department of Natural Resources, Division of Natural Areas & Preserves, Fountain Square, Bldg. F-1, Columbus, Ohio 43224-1331, United States. Received 09/09/1994.

**PI 618145. *Vaccinium macrocarpon* Aiton**

Wild. Collected 09/01/1994 in Ohio, United States. Latitude 41 deg. 20' N. Longitude 81 deg. 10' W. Elevation 0 m. Glacial sphagnum bog in Triangle Lake Bog State Nature Preserve, Portage County, Ohio. Growing with leatherleaf, pitcher-plant, sphagnum, swamp loosestrife, tamarack. Pedigree - collected from the wild in Ohio.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/29/1994.

**PI 618146. *Vaccinium ovalifolium* Sm.**

Cultivated. Collected 08/24/1994 in British Columbia, Canada.

The following were developed by Elizabeth White, United States. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road, Lowell, Oregon 97452, United States. Received 02/02/1995.

**PI 618147. *Vaccinium corymbosum* L.**

Breeding. Adapted to mechanical harvesting, grown extensively in WA.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 03/24/1995.

**PI 618148. *Vaccinium dependens*** (G. Don) Sleumer  
Wild. WM 439. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild in Bolivia.

The following were donated by Laura Poggio, Ente Parco Nazionale Gran Paradiso, Giardino Botanico Alpino "Paradisia", Valnontey, Cogne, Valle d'Aosta 11012, Italy. Received 04/21/1995.

**PI 618149. *Vaccinium uliginosum* subsp. *gaultherioides*** (Bigelow) S. B. Young  
Cultivated. Collected in Italy. Pedigree - collected from the wild in Italy.

**PI 618150. *Vaccinium vitis-idaea*** L.  
Cultivated. Collected in Italy. Pedigree - collected from the wild in Italy.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 08/31/1995.

**PI 618151. *Vaccinium corymbosum*** L.  
Wild. *V. corymbosum* (4x); NC 95-1-1. Collected 06/11/1995 in South Carolina, United States. Latitude 35 deg. 46' 7'' N. Longitude 78 deg. 47' 2'' W. Elevation 0 m. Ecotone along road through the park from US 1 and US 52, about 1/4 mi off US 1. Cheraw State Park, Chesterfield county, South Carolina. Uplands - open longleaf pines. Growing in and around the edge at a small depression. Associated w/ Liquidamber stryciflus, *Ilex coriacea*, *Ilex glabra*, *Aronia arbutifolia*.

**PI 618152. *Vaccinium corymbosum*** L.  
Wild. *V. corymbosum* (2x); NC 95-1-2. Collected 06/11/1995 in South Carolina, United States. Latitude 35 deg. 46' 7'' N. Longitude 78 deg. 47' 2'' W. Elevation 0 m. Ecotone along road through the park from US 1 and US 52, about 1/4 mi off US 1. Cheraw State Park, Chesterfield county, South Carolina. Uplands - open longleaf pines. Growing in and around the edge at a small depression. Associated w/ Liquidamber stryciflus, *Ilex coriacea*, *Ilex glabra*, *Aronia arbutifolia*.

**PI 618153. *Vaccinium corymbosum*** L.  
Wild. *V. corymbosum* (4x); NC 95-3-1. Collected 06/12/1995 in South Carolina, United States. Latitude 34 deg. 22' 4'' N. Longitude 79 deg. 45' 23'' W. Elevation 0 m. South Carolina, Dillon county, Little Pee Dee River State Park. US 9 east from Dillon to city road 22. Right on 22 for about 4.5 mi to the park. Found around pocosin. Associated w/ various genus and species (refer to login sheet for list).

**PI 618154. *Vaccinium corymbosum*** L.  
Wild. *V. corymbosum* (4x); NC 95-7-1. Collected 06/14/1995 in South Carolina, United States. Latitude 33 deg. 56' 49'' N. Longitude 79 deg. 58' 39'' W. Elevation 0 m. South Carolina, Aiken county, Aiken State

Park. Overall, the location appears to be either too dry, moist pocosin with dense vegetation, or heavily-shaded flatwoods.

**PI 618155. *Vaccinium stamineum* L.**

Wild. *V. stamineum*; NC 95-8-3. Collected 06/14/1995 in South Carolina, United States. Latitude 33 deg. 45' 19'' N. Longitude 82 deg. 12' 13'' W. Elevation 0 m. South Carolina, McCormick county, Modoc, Hamilton Branch State Park. Overgrown old fields in the piedmont - essentially all dry uplands - pine overstory. Roadside w/ *R. flagellans*, *R. argutus*, *Potentilla canadensis* fairly abundant. Pedigree - collected from the wild in South Carolina.

**PI 618156. *Vaccinium stamineum* L.**

Wild. *V. stamineum*; NC 95-13-1. Collected 07/07/1995 in Mississippi, United States. Latitude 34 deg. 11' 22'' N. Longitude 88 deg. 57' 55'' W. Elevation 0 m. Mississippi, Forrest county, Ragland Hills. Hwy 98, 10.9 mi east of I-59. Mixed pine and hardwood forest, both mesic and dry to alluvial woods above the Leaf River. Alluvial woods area logged about 1 yr ago and completely overgrown w/ grasses and broadleaf weeds. Pedigree - collected from the wild in Mississippi.

**PI 618157. *Vaccinium stamineum* L.**

Wild. *V. stamineum*; NC 95-14-1. Collected 07/07/1995 in Mississippi, United States. Latitude 31 deg. 12' 41'' N. Longitude 89 deg. 9' 13'' W. Elevation 0 m. Mississippi, Green county. Old River Road, 6 mi off Hwy 63 south, south of Leaksville. Sandy mixed woodland, mainly *Quercus*, along and unpaved field road. Scattered *V. elliottii* and crown-forming *V. stamineum* on the site. Pedigree - collected from the wild in Mississippi.

**PI 618158. *Vaccinium stamineum* L.**

Wild. *V. stamineum*; NC 95-23-3. Collected 07/14/1995 in Mississippi, United States. Latitude 34 deg. 36' 25'' N. Longitude 88 deg. 12' 17'' W. Elevation 0 m. Mississippi, Lafayette county, Holly Springs National Forest. FS Rd 841, 1.1 mi south of jct with city road 244 (244 turns off Hwy 7 between Oxford and Holly Springs). Open woodland in the National Forest, control-burned 3 yrs ago. Dry uplands. Pedigree - collected from the wild in Mississippi.

The following were collected by Sam P. Vander Kloet, Acadia University, Biology Department, Wolfville, Nova Scotia B0P 1X0, Canada. Received 11/18/1995.

**PI 618159. *Vaccinium boreale* I. V. Hall & Aalders**

Wild. Collected 09/17/1995 in Newfoundland, Canada. Latitude 47 deg. 32' N. Longitude 52 deg. 39' W. Elevation 0 m. Canada, Newfoundland, Blackhead headland of Avalon Peninsula. Pedigree - collected from the wild in Newfoundland.

The following were collected by C. Ferris Miller, Chollipo Arboretum, 344-16 Yonhui-dong, Sodaemun-kuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/08/1996.

**PI 618160. *Vaccinium koreanum* Nakai**

Wild. *V. koreanum*; 85 (1996); CVAC 1305. Collected 1995 in Kangwon,

Korea, South. Latitude 37 deg. 2' N. Longitude 129 deg. 11' E. Elevation 1000 m. Mt. Taebaek, Taebaek, Kangwon-Do. Pedigree - collected from the wild.

The following were developed by USDA-ARS-PIO, 10300 Baltimore Ave., Bldg. 003, Rm. 400, Beltsville. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 05/01/1997.

**PI 618161. Vaccinium hybrid**

Cultivar. "Little Giant"; CVAC 1306. Pedigree - *V. constablaei* x *V. ashei* clone T65)T65= Walker x (Myers x Black Giant) hexaploid hybrid.

The following were developed by James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 05/01/1997.

**PI 618162. Vaccinium hybrid**

Cultivar. "Chippewa"; MN 393; CVAC 1307. Pedigree - B18A (G65 x Ashworth) x US3 (Dixi x Michigan lowbush No. 1).

**PI 618163. Vaccinium corymbosum L.**

Cultivar. "Polaris"; MN408; CVAC 1309. Pedigree - B15(G-65 x Ashworth) x Bluetta.

The following were developed by USDA-ARS-PIO, 10300 Baltimore Ave., Bldg. 003, Rm. 400, Beltsville. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 05/01/1997.

**PI 618164. Vaccinium hybrid**

Cultivar. "Legacy"; G-290; CVAC 1310. Pedigree - Elizabeth x US 75 (*V. darrowi* Fla.4B x Bluecrop).

The following were donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 05/01/1997.

**PI 618165. Vaccinium hybrid**

Cultivar. "Gulfcoast"; CVAC 1311. Pedigree - G-180 (*V. corymbosum*) x US75 (*V. darrowi* x Bluecrop).

**PI 618166. Vaccinium corymbosum L.**

Cultivar. "Brigitta"; "Brigitta Blue"; CVAC 1312. Developed in Australia. Pedigree - open pollinated Lateblue (at Michigan State Univ.) selected in Australia.

**PI 618167. Vaccinium hybrid**

Cultivar. "Marimba"; CVAC 1313. Pedigree - selection of southern highbush blueberry.

**PI 618168. *Vaccinium corymbosum* L.**

Cultivar. "Reka"; CVAC 1314. Developed in New Zealand. Developed in New Zealand. Pedigree - E 118 (Ashworth x Earliblue) x Bluecrop.

The following were developed by USDA-ARS-PIO, 10300 Baltimore Ave., Bldg. 003, Rm. 400, Beltsville. Donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 05/01/1997.

**PI 618169. *Vaccinium virgatum* Aiton**

Cultivar. "Austin"; CVAC 1315. Pedigree - T110 (Woodard x Gardenblue) x Brightwell. Fruit: large, lightblue, scar, firmness, and flavor good. Plant: at Poplarville, Miss and Tifton, Georgia, it flowers and ripens about the same time as Climax. Plant: upright, yield high. Yields well and leafs out well as far south as Gainesville, Florida. Register of New Fruit and Nut Varieties, Brooks and Olmo, ASHS Press 1997.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/21/1997.

**PI 618170. *Vaccinium angustifolium* Aiton**

Wild. Blue Hill 1; CVAC 1316. Collected in Maine, United States. Latitude 44 deg. 26' 5'' N. Longitude 68 deg. 35' 41'' W. Elevation 110 m. Summit of Blue Hill about 2 km NNW of the town of Blue Hill, Hancock county, Maine. Open rocky area surrounded by mixed deciduous forest. Pedigree - collected from the wild in Maine.

**PI 618171. *Vaccinium macrocarpon* Aiton**

Wild. Blue Hill 2; CVAC 1317. Collected in Maine, United States. Latitude 44 deg. 26' 3'' N. Longitude 68 deg. 35' 25'' W. Elevation 110 m. Summit of Blue Hill about 2 km NNW of the town of Blue Hill, Hancock county, Maine. About 30 m SE of fire lookout tower. Open rocky area surrounded by mixed deciduous forest. Growing in moist area beside rock outcropping. Pedigree - collected from the wild in Maine.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 09/09/1997.

**PI 618172. *Vaccinium stamineum* L.**

Wild. NC96-31-1; CVAC 1318. Collected in Alabama, United States. Latitude 31 deg. 55' 43'' N. Longitude 85 deg. 54' 49'' W. Roadsides and woods edges along county road 7 at Tick Hill Cemetary, 8 miles north of U.S. 29. Very dry sandy uplands (were topsoil remains). Much of the vegetation typical for the southern U.S. inner coastal plain. *Quercus stellata* var. *margareta* (running post oak) found on top of the hill. Ironstone layer in siol profile. Collected 07/12/1996 in Alabama, United States. Latitude 31 deg. 55' 43'' N. Longitude 85 deg. 54' 49'' W. Roadsides and woods edges along county road 7 at Tick Hill Cemetary, 8 miles north of U.S. 29. Very dry sandy uplands (were topsoil remains). Much of the vegetation typical for the southern U.S. inner coastal plain. *Quercus stellata* var. *margareta* (running post oak) found on top

of the hill. Ironstone layer in soil profile. Pedigree - collected from the wild in Alabama.

**PI 618173. *Vaccinium stamineum* L.**

Wild. NC96-38-1; CVAC 1319. Collected in Alabama, United States. Latitude 32 deg. 43' 18'' N. Longitude 86 deg. 40' 17'' W. Chilton county road 24, 2.7 miles east of city road 37. Mostly dry uplands along roadsides and powerline right-of-way. Scattered *V. stamineum* and *V. arboreum*. Collected 07/17/1996 in Alabama, United States. Latitude 32 deg. 43' 18'' N. Longitude 86 deg. 40' 17'' W. Chilton county road 24, 2.7 miles east of city road 37. Mostly dry uplands along roadsides and powerline right-of-way. Scattered *V. stamineum* and *V. arboreum*. Pedigree - collected from the wild in Alabama.

The following were collected by Rickard Trojan, 1575 Brooklane Dr., Corvallis, Oregon 97330, United States. Received 11/06/1997.

**PI 618174. *Vaccinium parvifolium* Sm.**

Wild. *V. parvifolium*; CVAC 1320. Collected 1997 in Alaska, United States. Latitude 55 deg. 28' 0'' N. Longitude 133 deg. 15' 0'' W. Elevation 33 m. In the city of Craig, Prince of Wales Island, Alaska. Undeveloped area just beyond residential area, swampy, surrounded by deep moss, open. Pedigree - collected from the wild in Alaska.

The following were donated by Gunter Staudt, Bachelhurst 10A, Merzhausen, Germany. Received 12/02/1997.

**PI 618175. *Vaccinium padifolium* Sm.**

Wild. CVAC 1322. Collected in Madeira Islands, Portugal. Latitude 32 deg. 47' N. Longitude 16 deg. 53' W. Elevation 1200 m. Ribeiro Frio, about 20 minutes down the Levada da Serra do Faial to Portela. Pedigree - Collected from the wild on the island of Maderia.

The following were donated by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road Road, Lowell, Oregon 97452, United States. Received 11/26/1997.

**PI 618176. *Vaccinium vitis-idaea* L.**

Cultivar. CVAC 1323.

**PI 618177. *Vaccinium vitis-idaea* L.**

Cultivar. CVAC 1324.

The following were donated by Shawn Belt, USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Glenn Dale, Maryland 20769-9157, United States. Received 12/29/1997.

**PI 618178. *Vaccinium uliginosum* L.**

Wild. CVAC 1325. Collected in Jilin, China. Latitude 42 deg. 7' 20'' N. Longitude 128 deg. 22' 44'' E. Elevation 1280 m. Near Round Lake, Antu county, Jilin, China. Moist open forest with *Larix olgensis*, *Betula plaryphylla*, *Ledum palustre*, *Vaccinium vitis-idaea* and *Ledum palustre*. Organic mossy mat over volcanic ash. Collected 09/16/1997 in Jilin,

China. Latitude 42 deg. 7' 20'' N. Longitude 128 deg. 22' 44'' E. Elevation 1280 m. Near Round Lake, Antu county, Jilin, China. Moist open forest with *Larix olgensis*, *Betula plaryphylla*, *Ledum palustre*, *Vaccinium vitis-idaea* and *Ledum palustre*. Organic mossy mat over volcanic ash. Pedigree - Collected from the wild in Jilin, China.

**PI 618179. *Vaccinium vitis-idaea* L.**

Wild. CVAC 1326. Collected in Jilin, China. Latitude 42 deg. 7' 20'' N. Longitude 128 deg. 22' 44'' E. Elevation 1280 m. Near Round Lake, Antu county, Jilin, China. Moist open forest with *Larix olgensis*, *Betula plaryphylla*, *Ledum palustre*, *Vaccinium uliginosum* and *Ledum palustre*. Organic mossy mat over volcanic ash. Collected 09/16/1997 in Jilin, China. Latitude 42 deg. 7' 20'' N. Longitude 128 deg. 22' 44'' E. Elevation 1280 m. Near Round Lake, Antu county, Jilin, China. Moist open forest with *Larix olgensis*, *Betula plaryphylla*, *Ledum palustre*, *Vaccinium uliginosum* and *Ledum palustre*. Organic mossy mat over volcanic ash. Pedigree - Collected from the wild in Jilin, China.

The following were collected by Donna Rae McKay, USDA Forest Service, Forest Resources Bldg, Corvallis, Oregon 97331, United States. Received 03/19/1998.

**PI 618180. *Vaccinium parvifolium* Sm.**

Wild. CVAC 1328. Collected 08/13/1986 in Oregon, United States.

The following were developed by Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by William O. (Bill) Cline, Hort. Crops Research Station, NC Cooperative Extension Serv., 3800 Castle Hayne Road, Castle Hayne, North Carolina 28429, United States. Received 04/22/1998.

**PI 618181. *Vaccinium corymbosum* L.**

Cultivar. "G-616"; "Summit"; CVAC 1329. Pedigree - G-144 x F14-76. Summit, labeled G-616, originated from the cross G-144 x F14-76 made in 1976 at Beltsville, MD., by A.D. Draper. It was tested in replicated trials at Waynesville and Castle Hayne, NC, and observation trails at Jackson Springs, NC, Hammonton, NJ, and Clarksville, AR. Summit is recommended as a high quality hand harvest type cultivar for fresh market outlets or homeowner use. It is a mid-late season southern highbush blueberry that blooms about the same time as Croatan in North Carolina and slightly earlier than Bluecrop in Arkansas. Ripening season is approximately two weeks after Croatan'. It is consistent in production, with fruit size larger than Croatan and Bluecrop'. Fruit color and flavor are excellent, fruit picking scar and firmness are superior to Croatan'. Fruit cracking and stemming were not a significant factor at the Castle Hayne, N.C. location. Summit performed better than Bluecrop and Climax in post-harvest studies in Oklahoma.. The flowers of Summit are.

The following were donated by Chollipo Arboretum, 344-16 Yonhui-Dong, Sodaemun-KuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/22/1998.

**PI 618182. *Vaccinium oldhamii* Miq.**

Wild. 1-2-93; CVAC 1330. Collected in Chungchong Nam, Korea, South. Latitude 36 deg. 52' N. Longitude 126 deg. 13' E. Elevation 0 m.

Chollipo, Sowon-Myon, Taeon-Gun. Pedigree - Collected from the wild in South Korea.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; William O. (Bill) Cline, Hort. Crops Research Station, NC Cooperative Extension Serv., 3800 Castle Hayne Road, Castle Hayne, North Carolina 28429, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 06/01/1998.

**PI 618183. *Vaccinium elliottii* Chapm.**

Wild. CVAC 1334. Collected 05/29/1998 in North Carolina, United States. Latitude 34 deg. 26' N. Longitude 78 deg. 7' W. Elevation 0 m. Pender county, Moore's Creek National Battlefield, at the edge of a shaded trail near parking lot. Long leaf pine, oak and *Vaccinium arboreum* present. Soil: organic duff over black peat, with good drainage. Pedigree - Collected from the wild in North Carolina.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 09/10/1997.

**PI 618184. *Vaccinium tenellum* Aiton**

Wild. NC 96-2-2; CVAC 1335. Collected 05/13/1997 in North Carolina, United States. Latitude 34 deg. 15' 34'' N. Longitude 78 deg. 28' 39'' W. Elevation 0 m. Lake Waccamaw State Park, Columbus county. Mostly vicinity of parking lot and restrooms. Pocsin type vegetation, around woods edges. Pedigree - Collected from the wild in North Carolina.

**PI 618185. *Vaccinium tenellum* Aiton**

Wild. NC 96-2-4; CVAC 1336. Collected 05/13/1997 in North Carolina, United States. Latitude 34 deg. 15' 34'' N. Longitude 78 deg. 28' 39'' W. Elevation 0 m. Lake Waccamaw State Park, Columbus county. Mostly vicinity of parking lot and restrooms. Pocsin type vegetation, around woods edges. Pedigree - Collected from the wild in North Carolina.

**PI 618186. *Vaccinium crassifolium* Andrews**

Wild. NC 96-2-5; CVAC 1337. Collected 05/13/1997 in North Carolina, United States. Latitude 34 deg. 15' 34'' N. Longitude 78 deg. 28' 39'' W. Elevation 0 m. Lake Waccamaw State Park, Columbus county. Mostly vicinity of parking lot and restrooms. Pocsin type vegetation, around woods edges. Pedigree - Collected from the wild in North Carolina.

**PI 618187. *Vaccinium tenellum* Aiton**

Wild. NC 96-3-1; CVAC 1338. Collected 05/14/1997 in North Carolina, United States. Latitude 34 deg. 55' 47'' N. Longitude 78 deg. 4' 7'' W. Elevation 0 m. Elite clone; covering approximately 20 square meters. Cuttings and herbarium vouchers. Dry roadside with *Rubus cuneifolius*, *R. trivialis*, *occas.* *R. flagellaris*. Abundant *Potentilla canadensis*. Scattered *V. tenellum* and occasional *V. corymbosum*. Pedigree - Collected from the wild in North Carolina.

**PI 618188. *Vaccinium pallidum* Aiton**

Wild. NC 96-11-2; CVAC 1339. Collected 05/15/1997 in North Carolina,

United States. Latitude 35 deg. 31' 19'' N. Longitude 76 deg. 48' 50'' W. Elevation 0 m. Junction of US 264 and city road 1339. Power line righth-of-way on right, by highway 264, just past the junction. Site varies from moist to dry upland, with mixed mature forest adjacent. Ericaceous species fairly abundant, including *Vaccinium* ssp., *Gaylussacia frondosa*, and *Rhododendron atlanticum*. Pedigree - Collected from the wild in North Carolina.

**PI 618189. *Vaccinium tenellum* Aiton**

Wild. NC 96-11-4; CVAC 1340. Collected 05/15/1997 in North Carolina, United States. Latitude 35 deg. 31' 19'' N. Longitude 76 deg. 48' 50'' W. Elevation 0 m. Junction of US 264 and city road 1339. Power line righth-of-way on right, by highway 264, just past the junction. Site varies from moist to dry upland, with mixed mature forest adjacent. Ericaceous species fairly abundant, including *Vaccinium* ssp., *Gaylussacia frondosa*, and *Rhododendron atlanticum*. Pedigree - Collected from the wild in North Carolina.

The following were collected by Sam P. Vander Kloet, Acadia University, Biology Department, Wolfville, Nova Scotia B0P 1X0, Canada. Received 06/19/1998.

**PI 618190. *Vaccinium chunii* Merr. ex Sleumer**

Wild. 2181197; CVAC 1341. Collected 11/18/1997 in Vietnam. Pedigree - Collected from the wild in Vietnam.

The following were collected by Marian Zinck, Acadia University, Department of Biology, Wolfville, Nova Scotia B0P 1X0, Canada. Donated by Sam P. Vander Kloet, Acadia University, Biology Department, Wolfville, Nova Scotia B0P 1X0, Canada. Received 06/19/1998.

**PI 618191. *Vaccinium poasanum* Donn. Sm.**

Uncertain. MZ7786; CVAC 1342. Collected 07/1990 in Alajuela, Costa Rica. Latitude 10 deg. 15' N. Longitude 84 deg. 36' W. Elevation 0 m. Mt. Poas, Costa Rica. Pedigree - Collected from the wild in Costa Rica.

The following were developed by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States; Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Donated by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States. Received 07/15/1998.

**PI 618192. *Vaccinium* hybrid**

Cultivar. "Pearl River"; MS149; CVAC 1343. Pedigree - [G-67 (Earliblue x US11-93) x E-55 (Berkeley x F-72)] x Beckyblue. PEARL RIVER, tested as MS149, was selected in 1982 from a cross of G-136 x Beckyblue made by A. D. Draper at Beltsville, Maryland. G-136 is a tetraploid highbush (*Vaccinium corymbosum*) blueberry selection from the cross of G-67 (Earliblue x US 11-93) x E-55 (Berkeley x F-72). Beckyblue is a hexaploid rabbiteye (*V. ashei*) cultivar from the Florida breeding program. The seedlings were grown in south Mississippi and was selected by J. M. Spiers, C. L. Gupton, and A. D. Draper. Plants are

vigorous, grow upright, and are productive. PEARL RIVER is a hybrid of highbush and rabbiteye blueberries. Fruit is medium in size, has good flavor and small scar, is firm and though darker blue than cultivars presently grown, is commercially acceptable. Plants bloom late and the fruit ripens about one week before the earliest ripening rabbiteye cultivars. Should be interplanted with other southern highbush cultivars to facilitate fruit set, early ripening, and maximum yield. No virus.

**PI 618193. Vaccinium hybrid**

Cultivar. "Biloxi"; MS318; CVAC 1344. Pedigree - Sharpblue x [US210 (US67 x US132) x Florida 4-76 (Bluecrop x 13-236)]. BILOXI, tested as MS318, was selected from a cross of Sharpblue X US329 made by C. L. Gupton at Poplarville, Mississippi. The seedling progeny from which BILOXI was selected in 1986 by J. M. Spiers, C. L. Gupton, and A. D. Draper was grown in south Mississippi. The male parent of BILOXI, US329, came from a cross of US210 X Florida 4-76 made at Beltsville, Maryland by A. D. Draper in 1978. US210 originated from a cross of US67 [(Florida 9A, *V. darrowii*) X (G-101, *V. corymbosum*)] X [US132 (Florida 4B, *V. darrowii*) X (*V. atrococcum*)]. Florida 4-76 came from a cross of Bluecrop, *V. corymbosum* X 13-236, a seedling from (Florida 4B X *V. ashei*) X (a northern highbush X *V. darrowii*). Thus, two diploid, one tetraploid, and one hexaploid *Vaccinium* species contributed genes to the genotype of BILOXI. Plants grow upright, are vigorous and productive. Fruit is medium in size, has good color, flavor, and firmness, with small picking scar. Fruit ripens early, a few days earlier than.

The following were developed by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States; Paul Lyrene, University of Florida, Department of Fruit Crops, 2135 Fifield Hall, Gainesville, Florida 32611, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States; Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Donated by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States. Received 07/15/1998.

**PI 618194. Vaccinium hybrid**

Cultivar. "Magnolia"; MS162; CVAC 1345. Pedigree - (Harrison x Avonblue) x Florida 2-5.

The following were developed by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States; Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Donated by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States. Received 07/15/1998.

**PI 618195. Vaccinium hybrid**

Cultivar. "Jubilee"; MS351; CVAC 1346. Pedigree - Sharpeblue x [MS60 (E-118 [Ashworth x Earliblue] x Bluecrop) x US-75].

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United

States. Received 08/11/1998.

**PI 618196. *Vaccinium vitis-idaea* L.**

Wild. CVAC 1347. Collected 08/07/1998 in Alaska, United States. Latitude 61 deg. 26' 16'' N. Longitude 150 deg. 10' 5'' W. Elevation 12 m. Little Susitna River Park, Alaska. About 28 miles south of Wasilla, Alaska. Under Black Cottonwood, Sitka Spruce, Populus sp. with Ribes sp., grasses and Lady Fern. Pedigree - OP seed collected from the wild in Alaska.

The following were collected by Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/20/1998.

**PI 618197. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1348. Collected 08/15/1998 in Oregon, United States. Latitude 44 deg. 18' N. Longitude 119 deg. 41' W. Elevation 1828 m. Strawberry Wilderness in Malheur Nation Forest; T14S R34E Sec. 30; Strawberry Lake Campground at end of Forest Road 6001. From Prairie City take Highway 60 (Strawberry Road) south, which becomes Forest Road 6001. In understory on hillsides with Fragaria.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/22/1998.

**PI 618198. *Vaccinium ovalifolium* Sm.**

Wild. KH98-11; CVAC 1349. Collected 08/10/1998 in Alaska, United States. Latitude 63 deg. 40' N. Longitude 148 deg. 45' W. Elevation 700 m. Milepost xx on George Parks Highway (Highway 3) Grizzly Bear Campground, McKinley Village, Alaska. Open pollinated population sample collected from many plants scattered throughout campground. Associated plants: middle story plants with lingons underneath the shrubby blueberries and White spruce above the blueberries. Open woods.

**PI 618199. *Vaccinium ovalifolium* Sm.**

Wild. KH98-17; CVAC 1350. Collected 08/10/1998 in Alaska, United States. Latitude 62 deg. 53' 4'' N. Longitude 145 deg. 31' 30'' W. Elevation 883 m. Paxson Lake Campground, Milepost xx Richardson Highway, Route 2. Associated plants: willow, marsh fivefinger, horsetail, white spruce, lycopodium and sphagnum.

Unknown source. Received 09/22/1998.

**PI 618200. *Vaccinium ovatum* Pursh**

Cultivated. Morris-1; CVAC 1352. Developed in United States.

Unknown source. Received 09/22/1998.

**PI 618201. *Vaccinium ovatum* Pursh**

Cultivated. Morris-2; CVAC 1353. Developed in United States.

Unknown source. Received 09/22/1998.

**PI 618202. *Vaccinium ovatum* Pursh**

Cultivated. Morris-3; CVAC 1354. Developed in United States.

Unknown source. Received 09/22/1998.

**PI 618203. *Vaccinium ovatum* Pursh**

Cultivated. Morris-4; CVAC 1355. Developed in United States.

The following were collected by Dan L. Barney, University of Idaho, Research and Extension Center, 2105 N. Boyer, Sandpoint, Idaho 83864-9454, United States. Received 12/08/1995.

**PI 618204. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1357. Collected 07/20/1995 in Idaho, United States. Latitude 48 deg. 12' 16'' N. Longitude 116 deg. 35' 15'' W. Elevation 670 m. In the town of Sagle, Bonner county. Pedigree - Collected from the wild in Idaho.

**PI 618205. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1358. Collected 08/31/1995 in Idaho, United States. Latitude 48 deg. 19' 48'' N. Longitude 116 deg. 14' 29'' W. Elevation 1600 m. At milepost 9 on the Trestle Creek Road in Bonner county. Pedigree - Collected from the wild in Idaho.

The following were collected by David I. Bienn, Baltic Cranberry Corporation, P.O. Box 8, Lappeenranta, Kymi SF 53501, Finland. Donated by Robert Holt, Vacu-Dry, P.O.Box 2418, 7765 Healdsburg Ave., Sebastopol, California 95473-2418, United States; Demetri Koston, Made in Nature, 4340 Redwood Highway #236, San Rafael, California 94903, United States. Received 11/06/1998.

**PI 618206. *Vaccinium oxycoccos* L.**

Wild. CVAC 1359. Collected 10/1998 in Leningrad, Russian Federation. Latitude 59 deg. 55' N. Longitude 30 deg. 20' E. Elevation 0 m. The Lodeynopolskii region in the northeast of Leningrad Oblast, in northwest Russia. Pedigree - Collected from the wild in Russia.

The following were developed by David Brazelton, Fall Creek Farm and Nursery, Inc., 39318 Jasper-Lowell Road, Lowell, Oregon 97452, United States; Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 11/17/1998.

**PI 618207. *Vaccinium hybrid***

Cultivated. CVAC 1360. Pedigree - Tissue culture sport of Top Hat.

The following were collected by University of Oulu, Botanical Garden, Linnanmaa, Oulu, Oulu SF-90570, Finland. Donated by Kari Laine, University of

Oulu, Botanical Gardens, Linnanmaa PO Box 400, Oulu, Oulu SF-90570, Finland.  
Received 1994.

**PI 618208. *Vaccinium oxycoccos* L.**

Wild. *V. microcarpum*; 282; *V. oxycoccos*; CVAC 1361. Collected 09/17/1993 in Lappi, Finland. Latitude 68 deg. 44' N. Longitude 21 deg. 52' E. Elevation 0 m. Enontekion Lappi, Enontekio, Pattikka. Pedigree - Collected from the wild in Finland.

**PI 618209. *Vaccinium myrtillus* L.**

Wild. *V. myrtillus*; CVAC 1362. Collected 09/17/1992 in Lappi, Finland. Latitude 69 deg. 11' N. Longitude 21 deg. 8' E. Elevation 0 m. Enontekion Lappi, Enontekio, Kilpisjarvi. Pedigree - Collected from the wild in Finland.

**PI 618210. *Vaccinium myrtillus* L.**

Wild. 284; *V. myrtillus*; CVAC 1363. Collected 09/28/1992 in Oulu, Finland. Latitude 65 deg. 18' N. Longitude 26 deg. 32' E. Elevation 0 m. Oulun Pohjanmaa, Kiiminki, Hirvisuo. Pedigree - Collected from the wild in Finland.

**PI 618211. *Vaccinium myrtillus* L.**

Wild. 285; *V. myrtillus*; CVAC 1364. Collected 09/28/1992 in Oulu, Finland. Latitude 65 deg. 16' N. Longitude 26 deg. 22' E. Elevation 0 m. Oulun Pohjanmaa, kiiminki, Isonhalmeenmaa. Pedigree - Collected from the wild in Finland.

**PI 618212. *Vaccinium myrtillus* L.**

Wild. 286; *V. myrtillus*; CVAC 1365. Collected 09/14/1993 in Troms, Norway. Latitude 69 deg. 5' N. Longitude 20 deg. 6' E. Elevation 0 m. Storfjord, Paras. Pedigree - Collected from the wild in Norway.

**PI 618213. *Vaccinium oxycoccos* L.**

Wild. 287; *V. oxycoccos*; CVAC 1366. Collected 09/23/1993 in Oulu, Finland. Latitude 65 deg. 22' N. Longitude 26 deg. 23' E. Elevation 0 m. Oulun Pohjanmaa, Kiiminki, Pitkaaho. Pedigree - Collected from the wild in Finland.

**PI 618214. *Vaccinium oxycoccos* L.**

Wild. 288; *V. oxycoccos*; CVAC 1367. Collected 09/23/1993 in Oulu, Finland. Latitude 64 deg. 37' N. Longitude 26 deg. 43' E. Elevation 0 m. Oulun Pohjanmaa, Munhos, Keikkokangas. Pedigree - Collected from the wild in Finland.

The following were collected by Sam P. Vander Kloet, Acadia University, Biology Department, Wolfville, Nova Scotia B0P 1X0, Canada. Received 01/29/1999.

**PI 618215. *Vaccinium cylindraceum* Sm.**

Cultivated. 6251097; *V. cylindraceum* 6251097; CVAC 1368. Collected 10/25/1997 in Azores, Portugal. Latitude 37 deg. 48' N. Longitude 25 deg. 10' W. Elevation 800 m. Pico do Bartholomeu, Soa Miguel, Azores. Pedigree - From seeds collected in the Azores of Portugal.

The following were collected by Dan L. Barney, University of Idaho, Research

and Extension Center, 2105 N. Boyer, Sandpoint, Idaho 83864-9454, United States. Received 02/04/1999.

**PI 618216. *Vaccinium cespitosum* Michx.**

Wild. VACP 002; *V. cespitosum*; CVAC 1369. Collected 09/03/1997 in Washington, United States. Latitude 46 deg. 5' 45'' N. Longitude 121 deg. 46' 34'' W. Elevation 1221 m. Several hundred yards southwest of junction of FS 20 and FS 30, along trail leading east from Frog Lake. Sawtooth Berry Fields, NE corner of Indian Heaven Wilderness Area, Gifford Pinchot National Forest. Numerous colonies, often in rings around trees in dry bog area. *V. deliciosum* and *V. membranaceum* abundant. *V. caespitosum* present. *Tsuga heterophylla* and *Abies amabilis* were most often at center of berry colonies. Pedigree - Collected from the wild in Washington.

**PI 618217. *Vaccinium deliciosum* Piper**

Wild. VADE 005; *V. deliciosum*; CVAC 1370. Collected 08/31/1997 in Washington, United States. Latitude 47 deg. 48' 6'' N. Longitude 121 deg. 3' 26'' W. Elevation 1302 m. Around small pond at crest of ridge on FS 6700, 3.9 miles NW of WA 12 near Stevens Pass, WA. Extensive colony, primarily *V. deliciosum* and possibly some *V. cespitosum* around edge of pond. *V. membranaceum* on drier sites above pond, extending back under canopy. Pedigree - Collected from the wild in Washington.

**PI 618218. *Vaccinium deliciosum* Piper**

Wild. VADE 006; *V. deliciosum*; CVAC 1371. Collected 09/04/1997 in Washington, United States. Latitude 46 deg. 5' 45'' N. Longitude 121 deg. 46' 28'' W. Elevation 1221 m. Frog Lake at junction of FS 30 and FS 24 at edge of Sawtooth Berry Fields, Gifford Pinchott National Forest. Numerous colonies of *V. deliciosum*, *V. membranaceum* and *V. cespitosum*, often in rings around fir and hemlock trees in dry bog area. Pedigree - Collected from the wild in Washington.

**PI 618219. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. *V. membranaceum*; VAME 049; CVAC 1372. Collected 08/25/1997 in Idaho, United States. Latitude 48 deg. 46' 8'' N. Longitude 116 deg. 58' 47'' W. Elevation 1394 m. From a clearcut on uphill side of FS 401, 7.0 miles from turnoff from FS 302, 15 miles north of Nordman, ID. Extensive colony of *V. membranaceum*. No *V. ovalifolium* noted. Crop light, berries generally small. Collected from numerous plants. Pedigree - Collected from the wild in Idaho.

**PI 618220. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. *V. membranaceum*; VAME 052; CVAC 1373. Collected 08/30/1997 in Washington, United States. Latitude 47 deg. 48' 41'' N. Longitude 121 deg. 2' 52'' W. Elevation 1302 m. From along road FS 6700, 4.8 miles northwest of WA 2 near Stevens Pass, WA. Extensive clearcut covering square miles and heavily colonized with *V. membranaceum*. Plant heights to 2 m. Pedigree - Collected from the wild in Washington.

**PI 618221. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. *V. membranaceum*; VAME 057; CVAC 1374. Collected 09/05/1997 in Oregon, United States. Latitude 44 deg. 13' N. Longitude 121 deg. 53' W. Elevation 1447 m. Scott Lake near OR 126 west of McKenzie Pass in Oregon. Mixed colonies of *Vaccinium*. Pedigree - Collected from the wild in Oregon.

**PI 618222. *Vaccinium ovalifolium* Sm.**

Wild. *V. ovalifolium*; VAOF 018; CVAC 1375. Collected 07/18/1997 in Washington, United States. Latitude 47 deg. 58' N. Longitude 124 deg. 18' W. Elevation 131 m. Soleduc Ranger district in Olympia National Park. South of concrete bridge on FS 29, six miles east of Highway 101, north of Forks, Washington. T28N R12W Sec. 6. Part of extensive colony. In partial shade 50 yards south of Soleduc River in heavy alder blowdown. Pedigree - Collected from the wild in Washington.

**PI 618223. *Vaccinium ovalifolium* Sm.**

Wild. *V. ovalifolium*; VAOF 032; CVAC 1376. Collected 07/31/1997 in Idaho, United States. Latitude 48 deg. 40' 26'' N. Longitude 116 deg. 53' 18'' W. Elevation 840 m. From edge of old growth forest and clearcut opening along FS 2249A west of Distillary Bay on Priest Lake, Bonner county, Idaho. In partial to full shade. Area is a clearcut surrounded by second growth forest dominated by *Thuja plicata*; sparse understory dominated by *V. ovalifolium*. Clear cut areas dominated by forbs and grasses. Pedigree - Collected from the wild in Idaho.

**PI 618224. *Vaccinium ovalifolium* Sm.**

Wild. *V. ovalifolium*; VAOF 040; CVAC 1377. Collected 08/25/1997 in Idaho, United States. Latitude 48 deg. 46' 8'' N. Longitude 117 deg. 0' 50'' W. Elevation 1282 m. From alongside FS 401 at junction with FS 401A, 3.4 miles from turnoff at FS 302, 15 miles north of Nordman, Idaho. Numerous bushes along side of road. *V. membranaceum* and possible hybrids also present. Pedigree - Collected from the wild in Idaho.

**PI 618225. *Vaccinium ovalifolium* Sm.**

Wild. *V. ovalifolium*; VAOF 044; CVAC 1378. Collected 09/03/1997 in Washington, United States. Latitude 46 deg. 16' 3'' N. Longitude 121 deg. 36' 22'' W. Elevation 1231 m. Along FS 23, 31 miles south of WA 12 between Randall and Trout Lake, Washington. Along stream bank. Pedigree - Collected from the wild in Washington.

**PI 618226. *Vaccinium ovalifolium* Sm.**

Wild. *V. ovalifolium*; VAOF 045; CVAC 1379. Collected 09/04/1997 in Washington, United States. Latitude 46 deg. 3' 59'' N. Longitude 121 deg. 45' 18'' W. Elevation 1227 m. Along FS 24 in Sawtooth Berry Fields, Gifford Pinchott National Forest. Along east side of road. Mostly in partial to dense shade under canopy. Pedigree - Collected from the wild in Washington.

**PI 618227. *Vaccinium scoparium* Leiberg**

Wild. *V. scoparium*; VASC 001; CVAC 1380. Collected 09/05/1997 in Oregon, United States. Latitude 44 deg. 13' N. Longitude 121 deg. 53' W. Elevation 1447 m. Scott Lake near Oregon highway 126, west of McKenzie Pass, Oregon. Mixed colonies of *Vaccinium*. Edge of forest, south edge of lake. Pedigree - Collected from the wild in Oregon.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Barbara Fick, Oregon State University, Extension Service, Marion County, 3180 Center NE, Room 1361, Salem, Oregon 97301, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 04/02/1999.

**PI 618228. *Vaccinium vitis-idaea* subsp. *minus*** (G. Lodd.) Hulthen  
Wild. *V. vitis-idaea* ssp. *minus*; CVAC 1381. Collected 08/1995 in Maine, United States. Latitude 44 deg. 21' 8'' N. Longitude 68 deg. 13' 34'' W. Elevation 460 m. Top of Cadillac mountain, Acadia National Park, Maine. Pedigree - Plants from wild seed collected in Maine, United States.

**PI 618229. *Vaccinium angustifolium*** Aiton  
Wild. *V. angustifolium*; CVAC 1382. Collected 08/1995 in Nova Scotia, Canada. Latitude 44 deg. 27' 0'' N. Longitude 65 deg. 12' 0'' W. Elevation 20 m. Kejimikujik National Park. Pedigree - Plants from wild seed collected in Nova Scotia, Canada.

**PI 618230. *Vaccinium angustifolium*** Aiton  
Wild. *V. angustifolium*; CVAC 1383. Collected 08/1995 in Nova Scotia, Canada. Latitude 44 deg. 31' 12'' N. Longitude 63 deg. 56' 24'' W. Elevation 10 m. Peggy's Cove, along coastal road route 333 about 2 km north of town. On the seaward (west) side of the road there was a boulder strewn meadow to the ocean. Pedigree - Plants from wild seed collected in Nova Scotia, Canada.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Barbara Fick, Oregon State University, Extension Service, Marion County, 3180 Center NE, Room 1361, Salem, Oregon 97301, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 11/16/1995.

**PI 618231. *Vaccinium macrocarpon*** Aiton  
Wild. *V. macrocarpon*; CVAC 1384. Collected 08/1995 in Nova Scotia, Canada. Latitude 44 deg. 31' 12'' N. Longitude 63 deg. 56' 24'' W. Elevation 10 m. Peggy's Cove, along coastal road route 333 about 2 km north of town. Pedigree - Collected from the wild in Nova Scotia, Canada.

The following were developed by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States; Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Donated by Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Received 03/24/1999.

**PI 618232. *Vaccinium hybrid***  
Cultivar. "Biloxi"; MS-318; CVAC 1385. Pedigree - Sharpblue x US329.

The following were developed by Jim Spiers, USDA-ARS, Small Fruit Research Station, P. O. Box 287, Poplarville, Mississippi 39470, United States; Arlan D. Draper, 604 E. Park Dr., Payson, Arizona 85541, United States. Donated by Creighton L. Gupton, USDA-ARS Small Fruits Research Station, 705 North Columbia St., Poplarville, Mississippi 39470, United States. Received

03/24/1999.

**PI 618233. *Vaccinium hybrid***

Cultivar. "Gulfcoast"; MS-90; CVAC 1386. Pedigree - G-180 (V. corymbosum) x US75 (V. darrowii x Bluecrop).

**PI 618234. *Vaccinium hybrid***

Cultivar. "Pearl River"; MS-149; CVAC 1387. Pedigree - G-136 (highbush) x Beckyblue (rabbiteye).

**PI 618235. *Vaccinium hybrid***

Cultivar. "Cooper"; MS-78; CVAC 1388. Pedigree - G-180 (V. corymbosum) x US75 (V. darrowii Florida 4B x Bluecrop).

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 11/16/1995.

**PI 618236. *Vaccinium ovalifolium* Sm.**

Wild. CVAC 1389. Pedigree - Collected from the wild in British Columbia, Canada.

**PI 618237. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1390. Pedigree - Collected from the wild in British Columbia, Canada.

**PI 618238. *Vaccinium deliciosum* Piper**

Wild. CVAC 1391. Pedigree - Collected from the wild in Washington.

**PI 618239. *Vaccinium deliciosum* Piper**

Wild. CVAC 1392. Pedigree - Collected from the wild in Washington.

**PI 618240. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1393. Pedigree - Collected from the wild in Washington.

**PI 618241. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1394. Pedigree - Collected from the wild in Washington.

**PI 618242. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1395. Pedigree - Collected from the wild in Washington.

**PI 618243. *Vaccinium deliciosum* Piper**

Wild. CVAC 1396. Pedigree - Collected from the wild in Oregon.

**PI 618244. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1397. Pedigree - Collected from the wild in Idaho.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States; Barbara Fick, Oregon State University, Extension Service, Benton County, 1849 NW 9th Street, Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/19/1994.

**PI 618245. *Vaccinium ovatum* Pursh**

Wild. CVAC 1398. Collected 08/23/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

**PI 618246. *Vaccinium ovatum* Pursh**

Wild. CVAC 1399. Collected 08/29/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

**PI 618247. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. CVAC 1400. Collected 08/23/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

**PI 618248. *Vaccinium uliginosum* L.**

Wild. CVAC 1401. Collected 08/24/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

The following were collected by Chris Heider, USDA-ARS-HCRL, 3420 Orchard St., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/19/1994.

**PI 618249. *Vaccinium* sp.**

Wild. CVAC 1402. Collected 08/1993 in Alaska, United States. Pedigree - Collected from the wild in Alaska.

The following were collected by Tim Hohn, Washington Park Center for, Urban Horticulture, University of Washington, Seattle, Washington 98195, United States. Donated by University of Washington, Center for Urban Horticulture, Washington Park Arboretum, Seattle, Washington 98195, United States. Received 08/1995.

**PI 618250. *Vaccinium scoparium* Leiberg**

Wild. V. scoparium; 35; CVAC 1404. Collected 1995 in Washington, United States. Elevation 820 m. Kittitas county, Washington. Pedigree - Collected from the wild in Washington.

The following were donated by University of Washington, Center for Urban Horticulture, Washington Park Arboretum, Seattle, Washington 98195, United States. Received 08/1995.

**PI 618251. *Vaccinium virgatum* Aiton**

Wild. V. virgatum; 145; CVAC 1405.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States; Ian Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 618252. *Vaccinium membranaceum* Douglas ex Torr.**

Wild. V. membranaceum; ORUS 82; CVAC 1406. Collected 08/1999 in Oregon, United States. Latitude 43 deg. 15' N. Longitude 122 deg. 20' W.

Elevation 1150 m. Whitehorse Falls Nation Forest Service Campground. Along North Umpqua River and State Highway 138 in Umpqua National Forest. Associated with *Pseudotsuga menziesii* and *Rubus parviflorus*. Pedigree - Collected from the wild in Oregon.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; David Yarborough, University of Maine, 5722 Deering Hall, Orono, Maine 04469-5722, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 618253. *Vaccinium uliginosum* L.**

Wild. *V. uliginosum*; 99003; CVAC 1407. Collected 09/1999 in Jilin, China . Pedigree - Collected from the wild in China.

**PI 618254. *Vaccinium uliginosum* L.**

Uncertain. *V. uliginosum*; 99005; CVAC 1408. Collected 09/1999 in Jilin, China. Winery sample. If seeds germinate, this will be an outstanding broad sample. Seed gathered from the base of a 40,000 liter tank used to make *Vaccinium uliginosum* wine. Li Yiang Lin winery in San Lin, Jilin, China.

**PI 618255. *Vaccinium uliginosum* L.**

Wild. *V. uliginosum*; 99008; CVAC 1409. Collected 09/1999 in Jilin, China . Pedigree - Collected from the wild in China.

**PI 618256. *Vaccinium uliginosum* L.**

Wild. *V. uliginosum*; 99012; CVAC 1411. Collected 09/1999 in Jilin, China . Latitude 42 deg. 25' N. Longitude 128 deg. 10' E. Elevation 0 m. Fields in the vicinity of Chang Bai Mountains near Baihe. Fruit combined from two fields about 10 km apart. Fairly dry fields, although sphagnum growing throughout the field. *Vaccinium vitis-idaea* and *Larix* sp. common. Pedigree - Collected from the wild in China.

Unknown source. Received 05/24/1999.

**PI 618257. *Vaccinium delavayi* Franch.**

Cultivated. *V. delavayi*; vade036; CVAC 1412. Source uncertain. Has been in the nursery trade for some time. Evergreen, small shrub to 2 1/2 ft.; crimson/purple fruit; said to grow on cliffs and trees in native habitat; adapted to partial shade, zone 7.

Unknown source. Received 05/24/1999.

**PI 618258. *Vaccinium moupinense* Franch.**

Cultivated. *V. moupinense*; vamo040; CVAC 1413. Forest Farm Nursery obtained plants from Mitsch Nursery, Aurora, Oregon. Evergreen shrub, dwarf, dense, bright green, 1-2 ft. mound; mahogany-red urn shaped flowers; adapted to sun, zone 7.

The following were donated by Mark Ehlenfeldt, USDA-ARS, Rutgers Blueberry and Cranberry Research Center, 125A Lake Oswego Road, Chatsworth, New Jersey

08019, United States. Received 11/19/1999.

**PI 618259. Vaccinium hybrid**

Cultivar. "Goldtraube 74"; CVAC 1414.

**PI 618260. Vaccinium hybrid**

Cultivar. "Ascorba"; CVAC 1415.

**PI 618261. Vaccinium hybrid**

Cultivar. "Polen 38"; CVAC 1416.

**PI 618262. Vaccinium corymbosum L.**

Cultivar. "Caroline Blue"; CVAC 1417. Pedigree - OP Lateblue.

Unknown source. Received 10/23/1996.

**PI 618263. Vaccinium floribundum Kunth**

Cultivated. CVAC 1418.

Unknown source. Received 10/23/1996.

**PI 618264. Vaccinium floribundum Kunth**

Cultivated. CVAC 1419.

Unknown source. Received 10/23/1996.

**PI 618265. Vaccinium floribundum Kunth**

Cultivated. CVAC 1420.

Unknown source. Received 03/08/2000.

**PI 618266. Vaccinium ovalifolium Sm.**

Uncertain. CVAC 1421.

Unknown source. Received 03/08/2000.

**PI 618267. Vaccinium crassifolium Andrews**

Uncertain. CVAC 1422.

Unknown source. Received 03/08/2000.

**PI 618268. Vaccinium membranaceum Douglas ex Torr.**

Uncertain. CVAC 1423.

Unknown source. Received 03/08/2000.

**PI 618269. Vaccinium myrtilloides Michx.**

Uncertain. CVAC 1424.

Unknown source. Received 12/06/2000.

**PI 618270. Vaccinium hybrid**  
Cultivar. CVAC 1425.

Unknown source. Received 12/06/2000.

**PI 618271. Vaccinium hybrid**  
Cultivar. CVAC 1426.

Unknown source. Received 11/16/1996.

**PI 618272. Rubus glaucus** Benth.  
Wild. CRUB 2085. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 11/16/1996.

**PI 618273. Rubus niveus** Thunb.  
Wild. CRUB 2086. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 11/16/1996.

**PI 618274. Rubus glaucus** Benth.  
Wild. CRUB 2089. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 11/16/1996.

**PI 618275. Rubus glaucus** Benth.  
Wild. CRUB 2095. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 05/16/2000.

**PI 618276. Rubus hispidus** L.  
Wild. NC 98-11-6; CRUB 2107. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 05/25/2000.

**PI 618277. Rubus sprengeii** Weihe  
Cultivated. CRUB 2124.

Unknown source. Received 01/06/2000.

**PI 618278. Rubus enslenii** Tratt.  
Wild. CRUB 2097.

Unknown source. Received 03/08/2000.

**PI 618279. *Rubus allegheniensis*** Porter  
Cultivated. CRUB 2098.

Unknown source. Received 11/16/1996.

**PI 618280. *Rubus glaucus*** Benth.  
Wild. CRUB 2093. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 05/16/2000.

**PI 618281. *Rubus hispidus*** L.  
Wild. NC 98-9-2; CRUB 2108. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 05/16/2000.

**PI 618282. *Rubus flagellaris*** Willd.  
Wild. NC 98-29-5; CRUB 2109. Pedigree - Collected from the wild in North Carolina.

Unknown source. Received 05/16/2000.

**PI 618283. *Rubus occidentalis*** L.  
Wild. NC 98-8-1; CRUB 2110. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 01/11/2000.

**PI 618284. *Rubus hybrid***  
Cultivar. CRUB 2083. Pedigree - Hilton x VPI 5(Taylor x St. Regis).

Unknown source. Received 11/16/1996.

**PI 618285. *Rubus glaucus*** Benth.  
Wild. CRUB 2084. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 05/16/2000.

**PI 618286. *Rubus occidentalis*** L.  
Wild. NC 98-12-1; CRUB 2111. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 05/16/2000.

**PI 618287. *Rubus occidentalis*** L.  
Wild. NC 98-7-1; CRUB 2112. Pedigree - Collected from the wild in Tennessee.

Unknown source. Received 05/25/2000.

**PI 618288. Rubus sp.**  
Cultivated. CRUB 2113.

Unknown source. Received 05/25/2000.

**PI 618289. Rubus bavaricus** (Focke) Hruby  
Cultivated. CRUB 2114.

Unknown source. Received 05/25/2000.

**PI 618290. Rubus campostachys** G. Braun  
Cultivated. CRUB 2115.

Unknown source. Received 05/25/2000.

**PI 618291. Rubus fabrimontanus** (Sprib.) Sprib.  
Cultivated. CRUB 2117.

Unknown source. Received 05/25/2000.

**PI 618292. Rubus sp.**  
Cultivated. CRUB 2119.

Unknown source. Received 11/16/1996.

**PI 618293. Rubus glaucus** Benth.  
Wild. CRUB 2094. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 05/25/2000.

**PI 618294. Rubus ostroviensis** Sprib.  
Cultivated. CRUB 2120.

Unknown source. Received 05/25/2000.

**PI 618295. Rubus pedemontanus** Pinkw.  
Cultivated. CRUB 2121.

Unknown source. Received 03/08/2000.

**PI 618296. Rubus hybrid**  
Cultivar. CRUB 2099.

Unknown source. Received 03/08/2000.

**PI 618297. Rubus nepalensis** (Hook. f.) Kuntze

Cultivated. CRUB 2101.

Unknown source. Received 03/08/2000.

**PI 618298. *Rubus odoratus* L.**

Cultivated. CRUB 2102.

Unknown source. Received 03/08/2000.

**PI 618299. *Rubus pectinellus* Maxim.**

Cultivated. CRUB 2103.

The following were collected by James F. Hancock, Michigan State University, Department of Horticulture, Plant and Soil Science A 342, East Lansing, Michigan 48824-1325, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chris Heider, USDA-ARS-HCRL, 3420 Orchard St., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/23/1996.

**PI 618300. *Rubus* sp.**

Cultivated. *R. sp.* (*R. robustus*?); NAH 112; CRUB 2069. Collected in Imbabura, Ecuador. Latitude 0 deg. 21' N. Longitude 78 deg. 7' W. Elevation 0 m. Fruit purchased from a vendor in the Ibarra market. Collected 03/1996 in Imbabura, Ecuador. Latitude 0 deg. 21' N. Longitude 78 deg. 7' W. Elevation 0 m. Fruit purchased from a vendor in the Ibarra market.

Unknown source. Received 11/16/1996.

**PI 618301. *Rubus glaucus* Benth.**

Wild. CRUB 2090. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 11/16/1996.

**PI 618302. *Rubus glaucus* Benth.**

Wild. CRUB 2091. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 03/08/2000.

**PI 618303. *Rubus buergeri* Miq.**

Cultivated. CRUB 2104.

Unknown source. Received 03/08/2000.

**PI 618304. *Rubus setchuenensis* Bureau & Franch.**

Cultivated. CRUB 2105.

Unknown source. Received 11/16/1996.

**PI 618305. *Rubus niveus* Thunb.**

Wild. CRUB 2092. Pedigree - Collected from the wild in Ecuador.

Unknown source. Received 04/06/2000.

**PI 618306. *Rubus trivialis* Michx.**

Wild. CRUB 2106. Pedigree - Collected from the wild in Georgia.

The following were collected by James F. Hancock, Michigan State University, Department of Horticulture, Plant and Soil Science A 342, East Lansing, Michigan 48824-1325, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chris Heider, USDA-ARS-HCRL, 3420 Orchard St., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/23/1996.

**PI 618307. *Rubus* sp.**

Cultivated. *R. sp.* (*R. robustus*?); NAH 113; CRUB 2070. Collected 03/1996 in Imbabura, Ecuador.

**PI 618308. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 115; CRUB 2071. Collected 03/1996 in Tungurahua, Ecuador. Fruiting sporadic as a single cane will produce fruit heavily and then another cane on the plant will produce fruit. So the entire plant is never fruiting. Fruit ripens throughout the year. The source of the plant stock was unknown.

The following were developed by D.L. Jennings, Scottish Crop Research Inst., Invergowrie, Scotland, United Kingdom; Graeme R. McGregor, Victoria Dept. of Agriculture, Institute for Horticultural Development, Private Bag 15, Knoxfield, Victoria 3176, Australia. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/04/2000.

**PI 618309. *Rubus idaeus* L.**

Cultivar. "Dinkum"; A83-31-G5; CRUB 2073. Pedigree - Autumn Bliss x Glen Moy. Dinkum. Originated in Toolangi, Australia, by G. McGregor, Institute for Horticultural Development, Melbourne, Victoria. Autumn Bliss x Glen Moy; cross made in 1983 by D.L. Jennings, Scottish Crop Research Institute; selected by G. McGregor in 1985; tested as A-83-31-G5; introduced in 1992. Propagated under an agreement with the Australian Rubus Growers Association. Fruit: medium size; firm with medium size drupelets; medium dark red and slightly more glossy than Autumn Bliss; excellent flavor; easy to harvest; main production on primocanes; over-wintered floricanes produce early summer fruit on lower portions; some resistance to postharvest Botrytis rot; ripens as much as 19 days earlier than Heritage and at the same time or 3 days earlier than Autumn Bliss; fresh market use. Plant: yield similar to Autumn Bliss but usually has more condensed ripening season and higher yield at each harvest; upright primocanes with relatively short fruiting laterals. Susceptible to root rot and.

The following were developed by Gustav Redalen, Agricultural University, Dept. Pomology, PO Box 18, Aas, Akershus N-1432, Norway. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/04/2000.

**PI 618310. *Rubus idaeus* L.**

Cultivar. "Balder"; H4-10-07; CRUB 2074. Pedigree - Norna x Malling Jewel. Balder. Originated in Aas-NLH, Norway, by G. Redalen, Agricultural University of Norway. Norna x Malling Jewel; cross made in 1975; selected in 1980; tested as H4-10-07; introduced in 1988. Fruit: medium size; dark, dull red color; relatively soft; medium sweet; high acidity, separates readily from the receptacle; early, relatively concentrated season; processing use. Plant: productive; primocanes numerous, erect, and vigorous, with dark-purple spines largely restricted to the basal portions, slightly waxy and glabrous; floricanes erect and vigorous, light brownish gray; large leaves may hide fruit, making hand harvest difficult; very winter hardy; susceptible to cane spot.

The following were donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/04/2000.

**PI 618311. *Rubus idaeus* L.**

Cultivar. "Kitsilano"; BC 85-18-16; CRUB 2075.

**PI 618312. *Rubus idaeus* L.**

Cultivar. "Schonemann"; CRUB 2076.

The following were developed by R. McNicol, Scottish Crop Research Inst., Dundee, Scotland, United Kingdom; Scottish Crop Research Institute, Invergowrie, Dundee, Scotland DD25DA, United Kingdom; D.L. Jennings, Scottish Crop Research Inst., Invergowrie, Scotland, United Kingdom. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/04/2000.

**PI 618313. *Rubus idaeus* L.**

Cultivar. "Glen Magna"; SCRI 8032A3; CRUB 2077. Pedigree - Meeker x SCRI 7719B11. Glen Magna. A very high-yielding, late ripening raspberry. Originated in Invergowrie, Scotland, by R.J. McNicol and D.L. Jennings, Scottish Crop Research Institute. Meeker x SCRI 7719B11; cross made in 1980; tested as SCRI 8032A3; introduced in 1994. Worldwide marketing rights held by NSA Plants, East Malling, Kent, U.K. Fruit: very large; deep red color; long conic shape; medium firm; excellent uniform appearance; removal from receptacle may not be sufficiently easy in some environments for machine harvest; excellent flavor with similarities to Meeker and Glen Moy; fresh market and processing, especially freezing. Plant: upright, vigorous canes with few spines. Gene Al gives resistance to two strains of the European aphid vector of the raspberry mosaic virus complex; gene Bu gives resistance to raspberry bushy dwarf virus.

**PI 618314. *Rubus idaeus* L.**

Cultivar. "Glen Rosa"; SCRI 7815A12; CRUB 2078. Pedigree - Complex parentage, includes Glen Prosen and Meeker. Glen Rosa. A raspberry with easily harvested fruit, well adapted to the cool growing conditions of Scotland. Originated in Invergowrie, Scotland, by R.J. McNicol and D.L. Jennings, Scottish Crop Research Institute. Sibling of Glen Ample; complex parentage includes Glen Prosen and Meeker; cross made in 1978; tested as SCRI 7815A12; introduced in 1994. Worldwide marketing rights held by NSA Plants, East Malling, Kent, U.K. Fruit: medium size; bright medium-red color; firm with good collar adhesion; easily removed from receptacle; adapted to machine harvest; midseason ripening; fairly good flavor; for processing, less well adapted to fresh market. Plant: production moderate; spine-free, relatively upright canes with medium vigor. Gene H gives resistance to spur blight and cane Botrytis; gene Al0 gives resistance to the four known strains of the European aphid vector of the raspberry mosaic virus complex; gene Bu gives resistance to raspberry bushy dwarf virus.

**PI 618315. *Rubus idaeus* L.**

Cultivar. "Glen Shee"; SCRI 8044C9; CRUB 2079. Pedigree - Complex parentage with no named cultivar in its pedigree for four generations. Glen Shee. A large-fruited raspberry probably best suited to home gardens and pick-your-own in Britain. Originated in Invergowrie, Scotland, by R.J. McNicol and D.L. Jennings, , Scottish Crop Research Institute. Complex parentage with no named cultivar in its pedigree for four generations; cross made in 1980; tested as SCRI 8044C9; introduced in 1994. Worldwide marketing rights held by NSA Plants, East Malling, Kent, U.K. Fruit: slightly pale; firm; fleshy; slightly weak skin prone to windrub; not adapted to machine harvest; moderate flavor. Plant: moderate yield; spine-free; canes relatively upright, strong, vigorous. Susceptible to midge blight; gene Al gives resistance to two strains of the European aphid vector of the raspberry mosaic virus complex; susceptible to infection by pollen transmission of raspberry bushy dwarf virus.

The following were donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/04/2000.

**PI 618316. *Rubus idaeus* L.**

Cultivar. "Maroseyka"; CRUB 2080.

**PI 618317. *Rubus idaeus* L.**

Cultivar. "Mirage"; CRUB 2081.

The following were donated by Rengong Meng, USDA-ARS-HCRL, 3420 NW Orchard Ave., Corvallis, Oregon 97330, United States. Received 11/16/1996.

**PI 618318. *Rubus flosculosus* Focke**

Uncertain. *R. flosculosus*; CRUB 2056. Seeds obtained from the Beijing Botanical Garden collection.

**PI 618319. *Rubus flosculosus* Focke**

Uncertain. *R. flosculosus*; CRUB 2057. Seeds obtained from the Beijing Botanical Garden collection.

**PI 618320. *Rubus* sp.**

Uncertain. CRUB 2058; *R. sp.*. Seeds obtained from the Beijing Botanical Garden collection.

**PI 618321. *Rubus* sp.**

Uncertain. CRUB 2059; *R. sp.*. Seeds obtained from the Beijing Botanical Garden collection.

**PI 618322. *Rubus phoenicolasius* Maxim.**

Uncertain. *R. phoenicolasius*; CRUB 2060. Seeds obtained from the Beijing Botanical Garden collection.

The following were collected by Kristine Naess, 2586 Prairie Ridge Rd., Verona, Wisconsin 53593, United States. Received 06/12/1997.

**PI 618323. *Rubus chamaemorus* L.**

Wild. CRUB 1956. Collected 08/1997 in New Brunswick, Canada. Pedigree - collected from the wild in Canada.

The following were collected by Robert Skirvin, University of Illinois, Dept of Horticulture, 258 Plant and Animal Biotech. Lab., Urbana, Illinois 61801, United States. Received 05/05/1986.

**PI 618324. *Rubus* sp.**

Wild. Collected 04/24/1986 in New South Wales, Australia. Latitude 33 deg. 53' S. Longitude 151 deg. 10' E. Gowlburn, New South Wales. Pedigree - Collected from the wild in Australia.

The following were collected by James F. Hancock, Michigan State University, Department of Horticulture, Plant and Soil Science A 342, East Lansing, Michigan 48824-1325, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chris Heider, USDA-ARS-HCRL, 3420 Orchard St., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/23/1996.

**PI 618325. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 100; CRUB 2063. Collected in Pichincha, Ecuador. Latitude 0 deg. 13' S. Longitude 78 deg. 30' W. Elevation 0 m. Fruit purchased from a vendor in the Floriesta market area of Quito. Collected 03/1996 in Pichincha, Ecuador. Latitude 0 deg. 13' S. Longitude 78 deg. 30' W. Elevation 0 m. Fruit purchased from a vendor in the Floriesta market area of Quito.

**PI 618326. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 101; CRUB 2064. Collected in Pichincha, Ecuador. Latitude 0 deg. 13' S. Longitude 78 deg. 30' W. Elevation 0 m. Fruit purchased from a vendor in the Santa Clara market area of Quito. Collected 03/1996 in Pichincha, Ecuador. Latitude 0 deg. 13' S. Longitude 78 deg. 30' W. Elevation 0 m. Fruit purchased from a vendor in the Santa Clara market area of Quito.

**PI 618327. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 102; CRUB 2065. Collected in Tungurahua, Ecuador. Latitude 1 deg. 15' S. Longitude 78 deg. 37' W. Elevation 0 m. Fruit purchased from main market in Ambato. Collected 03/1996 in Tungurahua, Ecuador. Latitude 1 deg. 15' S. Longitude 78 deg. 37' W. Elevation 0 m. Fruit purchased from main market in Ambato.

**PI 618328. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 103; CRUB 2066. Collected in Tungurahua, Ecuador. Latitude 1 deg. 18' S. Longitude 78 deg. 38' W. Elevation 2900 m. Fruit collected from the commercial fields adjacent to the fields of Victor and Manuel Salinas. Field was 2 km east of Huachi Grande. Plants were growing in a volcanic sandy soil at 2900 m Area receives approximately 35 cm rainfall annually and the plants receive irrigation via a ditch when needed. Collected 03/1996 in Tungurahua, Ecuador. Latitude 1 deg. 18' S. Longitude 78 deg. 38' W. Elevation 2900 m. Fruit collected from the commercial fields adjacent to the fields of Victor and Manuel Salinas. Field was 2 km east of Huachi Grande. Plants were growing in a volcanic sandy soil at 2900 m Area receives approximately 35 cm rainfall annually and the plants receive irrigation via a ditch when needed. Fruiting is sporadic, as a single cane will produce fruit heavily while another cane on the plant will produce no fruit. So the entire plant is never totally fruiting. Fruit ripens throughout the year. The source of the planting stock was unknown.

**PI 618329. *Rubus niveus* Thunb.**

Wild. *R. niveus*; NAH 104; CRUB 2067. Collected in Tungurahua, Ecuador. Latitude 1 deg. 24' S. Longitude 78 deg. 22' W. Elevation 1800 m. Fruit collected from road side on Fernando Vargas' property. In Ulba, east of Banos. Roadside agricultural land on level area above the Rio Pastaza. Cultivated plants in the area include mandarin orange, babaco and avacado. Collected 03/1996 in Tungurahua, Ecuador. Latitude 1 deg. 24' S. Longitude 78 deg. 22' W. Elevation 1800 m. Fruit collected from road side on Fernando Vargas' property. In Ulba, east of Banos. Roadside agricultural land on level area above the Rio Pastaza. Cultivated plants in the area include mandarin orange, babaco and avacado. Pedigree - Collected from the wild near Banos, Ecuador.

**PI 618330. *Rubus glaucus* Benth.**

Cultivated. *R. glaucus*; NAH 111; CRUB 2068. Collected in Imbabura, Ecuador. Latitude 0 deg. 21' N. Longitude 78 deg. 7' W. Elevation 0 m. Fruit purchased from a vendor in the Ibarra market. Collected 03/1996 in Imbabura, Ecuador. Latitude 0 deg. 21' N. Longitude 78 deg. 7' W. Elevation 0 m. Fruit purchased from a vendor in the Ibarra market.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/01/1995.

**PI 618331. *Rubus leucodermis* Douglas ex Torr. & A. Gray**

Wild. *R. leucodermis*; GP-27; CRUB 2046.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United

States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 618332. *Rubus strigosus* Michx.**

Wild. *R. strigosus* Lake Altoona WI; CRUB 2047. Collected 08/1999 in Wisconsin, United States. Latitude 44 deg. 48' 37'' N. Longitude 91 deg. 25' 25'' W. Elevation 0 m. Along North Beach Road, Park Road and Lake Road adjacent to Lake Altoona in Altoona, Wisconsin. Pedigree - Collected from the wild in Wisconsin.

**PI 618333. *Rubus occidentalis* L.**

Wild. *R. occidentalis* Lake Altoona WI; CRUB 2048. Collected 08/1999 in Wisconsin, United States. Latitude 44 deg. 48' 37'' N. Longitude 91 deg. 25' 25'' W. Elevation 0 m. Along North Beach Road, Park Road and Lake Road adjacent to Lake Altoona in Altoona, Wisconsin. Pedigree - Collected from the wild in Wisconsin.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States; Ian Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 618334. *Rubus* sp.**

Wild. *R. sp.* Lake Altoona WI; CRUB 2049. Collected 08/1999 in Wisconsin, United States. Latitude 44 deg. 48' 37'' N. Longitude 91 deg. 25' 25'' W. Elevation 0 m. Along North Beach Road, Park Road and Lake Road adjacent to Lake Altoona in Altoona, Wisconsin. Pedigree - Collected from the wild in Wisconsin.

**PI 618335. *Rubus* sp.**

Wild. *R. sp.* Lake Altoona WI 1; CRUB 2050. Collected 08/1999 in Wisconsin, United States. Latitude 44 deg. 48' 35'' N. Longitude 91 deg. 17' 1'' W. Elevation 0 m. From Altoona take 'Country Road Ss' 6 or 7 miles east. Go north on 'Country Road K'. Just before it crosses the Eau Claire River take road west to falls. Fruit collected along trail to falls. Pedigree - Collected from the wild in Wisconsin.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/14/1999.

**PI 618336. *Rubus ursinus* Cham. & Schltdl.**

Wild. *R. ursinus* Thorn Prairie; ORUS 2671; CRUB 2051. Collected 08/1999 in Oregon, United States. Latitude 43 deg. 20' N. Longitude 122 deg. 20' W. Elevation 1150 m. At junction of FS 200 and FS 3401 (Thorn Prairie Road) in Umpqua National Forest. Dry site, *Pinus ponderosa* on loose volcanic soil. Pedigree - Collected from the wild in Oregon.

**PI 618337. *Rubus ursinus* subsp. *macropetalus* (Douglas ex Hook.) Roy L. Taylor & MacBryde**

Wild. *R. ursinus* subsp. *macropetalus*; GP-8; CRUB 2055. Collected 1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.

The following were collected by Katsuaki Hashimoto, Shanbohl Hamanako 626, Mikkabi, Hisa-Gun, Shizuoka 417-0851, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618338. *Rubus peltatus* Maxim.**

Wild. *R. peltatus*; CRUB 2033; 010-014. Collected 08/03/1995 in Nagano, Japan. Latitude 36 deg. 39' 0'' N. Longitude 138 deg. 10' 0'' E. Elevation 0 m. Nagano-ken, Kiso-gun, Ohtaki-mura, Takikoshi/Shirasu-toge. Pedigree - Collected from the wild in Japan.

The following were collected by Yasuo Katayama, Jinryo, Kamiyama-cho, Nazai-Gun, Tokushima 771-3311, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618339. *Rubus peltatus* Maxim.**

Wild. *R. peltatus*; CRUB 2034; 010-016. Collected 08/20/1995 in Tokushima, Japan. Latitude 34 deg. 3' 0'' N. Longitude 134 deg. 34' 0'' E. Elevation 0 m. Tokushima-ken, Mima-gun, Ichiu-mura, Marusasa-yama. Pedigree - Collected from the wild in Japan.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618340. *Rubus phoenicolasius* Maxim.**

Wild. *R. phoenicolasius*; CRUB 2035; 030-054. Collected 08/06/1995 in Gifu, Japan. Latitude 35 deg. 27' 0'' N. Longitude 136 deg. 46' 0'' E. Elevation 0 m. Gifu-ken, Yoshiki-gun, Kami-takara-mura, Nakao-onsen. Pedigree - Collected from the wild in Japan.

The following were collected by Tokiyasu Iwatsubo, Minamitane-cho, Kagoshima 891-3705, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618341. *Rubus sieboldii* Blume**

Wild. *R. sieboldii*; CRUB 2036; 006-031. Collected 06/03/1995 in Kagoshima, Japan. Latitude 31 deg. 37' 0'' N. Longitude 130 deg. 32' 0'' E. Elevation 0 m. Kagoshima-ken, Kumage-gun, Minamatiane-cho, Nishino. Pedigree - Collected from the wild in Japan.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618342. *Rubus vernus* Focke**

Wild. *R. vernus*; CRUB 2037; 021-035. Collected 09/19/1995 in Toyama, Japan. Latitude 36 deg. 42' 0'' N. Longitude 137 deg. 14' 0'' E. Elevation 0 m. Toyama-ken, Naka-niikawa-gun, Tateyama-cho, Mt. Tateyama,

Midagahara. Pedigree - Collected from the wild in Japan.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 11/16/1995.

- PI 618343. *Rubus leucodermis*** Douglas ex Torr. & A. Gray  
Wild. CRUB 2005. Collected 1995 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618344. *Rubus ursinus*** Cham. & Schltdl.  
Wild. CRUB 2006. Collected 08/24/1994 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618345. *Rubus ursinus*** Cham. & Schltdl.  
Wild. CRUB 2007. Collected 09/08/1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618346. *Rubus ursinus*** Cham. & Schltdl.  
Wild. CRUB 2008. Collected 09/09/1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618347. *Rubus ursinus*** Cham. & Schltdl.  
Wild. CRUB 2009. Collected 09/12/1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618348. *Rubus leucodermis*** Douglas ex Torr. & A. Gray  
Wild. CRUB 2010. Collected 08/23/1993 in Oregon, United States. Pedigree - Collected from the wild in Oregon.
- PI 618349. *Rubus ursinus*** Cham. & Schltdl.  
Wild. CRUB 2011. Pedigree - Collected from the wild in British Columbia, Canada.

The following were collected by Barbara Esposito, 6230 Old Lake Road, Rock Stream, New York 14878, United States. Donated by Peter H. Tallman, 5690 Steeplechase Dr., Longmont, Colorado 80503, United States. Received 08/10/1999.

- PI 618350. *Rubus occidentalis*** L.  
Breeding. Esposito Gold; CRUB 2038. Collected in New York, United States. Berry color is a yellow-gold to dusty gold-light-orange. Seed from clonal material of wild plants originally found in Rock Stream, NY. Exceptionally strong plant.

The following were donated by Peter H. Tallman, 5690 Steeplechase Dr., Longmont, Colorado 80503, United States. Received 08/10/1999.

- PI 618351. *Rubus occidentalis*** L.  
Breeding. WS07.1.x; CRUB 2039. Berry color is an attractive light garnet to garnet (orange red). Seed from plant regrown from seed originally collected by me from the wild in Poughkeepsie, NY.
- PI 618352. *Rubus occidentalis*** L.

Breeding. WS03.0.x; CRUB 2040. Berry color is garnet to dark garnet (deep orange-red). Seed from plant regrown from seed originally collected by me from the wild in Poughkeepsie, NY.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/01/1995.

**PI 618353. *Rubus ursinus*** Cham. & Schltldl.  
Wild. *R. ursinus*; GP-25; CRUB 2041.

The following were collected by Michael D. Remmick, North American Plants, P.O. Box 743, Lafayette, Oregon 97127, United States; A. Plotto, Oregon State University, Corvallis, Oregon, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/01/1995.

**PI 618354. *Rubus spectabilis*** Pursh  
Wild. *R. spectabilis*; CRUB 2042. Collected 06/1994 in Washington, United States. Latitude 47 deg. 43' N. Longitude 124 deg. 25' W. Elevation 0 m. Hoh River Head. Pedigree - Collected from the wild in Washington.

**PI 618355. *Rubus spectabilis*** Pursh  
Wild. *R. spectabilis*; CRUB 2043. Collected 06/1994 in Washington, United States. Latitude 48 deg. 12' N. Longitude 122 deg. 37' W. Elevation 0 m. Whidby Island. Pedigree - Collected from the wild in Washington.

**PI 618356. *Rubus spectabilis*** Pursh  
Wild. *R. spectabilis*; CRUB 2044. Collected 06/1994 in Washington, United States. Latitude 47 deg. 28' N. Longitude 123 deg. 53' W. Elevation 0 m. Quinalt, Jefferson county. Pedigree - Collected from the wild in Washington.

**PI 618357. *Rubus spectabilis*** Pursh  
Wild. *R. spectabilis*; CRUB 2045. Collected 06/1994 in Washington, United States. Latitude 47 deg. 25' N. Longitude 122 deg. 29' W. Elevation 0 m. Vashon Island, King county. Pedigree - Collected from the wild in Washington.

The following were donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 11/16/1995.

**PI 618358. *Rubus ursinus*** Cham. & Schltldl.  
Wild. CRUB 2012. Pedigree - Collected from the wild in British Columbia, Canada.

**PI 618359. *Rubus ursinus*** Cham. & Schltldl.  
Wild. CRUB 2013. Pedigree - Collected from the wild in Oregon.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United

States; Barbara Fick, Oregon State University, Extension Service, Benton County, 1849 NW 9th Street, Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/19/1994.

**PI 618360. *Rubus leucodermis*** Douglas ex Torr. & A. Gray  
Wild. CRUB 2014. Collected 08/23/1993 in Oregon, United States.  
Pedigree - Collected from the wild in Oregon.

The following were collected by Osamu Kume, Ohta, Kamimachi, Takamatsu, Kagawa 761-8074, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618361. *Rubus buergeri*** Miq.  
Wild. R. buergeri; CRUB 2015; 007-050. Collected 11/26/1995 in Kagawa, Japan. Latitude 34 deg. 15' 0'' N. Longitude 134 deg. 2' 0'' E.  
Elevation 0 m. Kagawa-ken, Mitoyo-gun, Saita-cho, Saita-naka, Hainokura.  
Pedigree - Collected from the wild in Japan.

The following were collected by Hiroshi Masaki, Manpukujji, Kudamatsu, Yamaguchi 744-0002, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618362. *Rubus chingii*** Hu  
Wild. R. chingii; CRUB 2016; 012-017. Collected 06/03/1995 in Yamaguchi, Japan. Pedigree - Collected from the wild in Japan.

The following were donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618363. *Rubus coreanus*** Miq.  
Cultivated. R. coreanus; CRUB 2017; 102-117. Elevation 0 m. From cultivated plant at Toyama University, originally collected from Challapuk Do, Changelgi, South Korea. Pedigree - Open-pollinated from botanical collection.

The following were collected by Osamu Kume, Ohta, Kamimachi, Takamatsu, Kagawa 761-8074, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618364. *Rubus crataegifolius*** Bunge  
Wild. CRUB 2018. Collected 07/01/1995 in Kagawa, Japan. Latitude 34 deg. 15' 0'' N. Longitude 134 deg. 2' 0'' E. Elevation 0 m. Kagawa-ken, Mitoyo-gun, Saita-cho, Saita-naka, Shishinohana-toge. Pedigree - Collected from the wild in Japan.

The following were donated by Harvey K. Hall, Crop Research Division, DSIR, Riwaka Research Station, Rd 3, Motueka, South Island, New Zealand. Received

12/15/1995.

**PI 618365. *Rubus hispidus* L.**  
Wild. CRUB 2019.

**PI 618366. *Rubus hispidus* L.**  
Wild. CRUB 2020.

**PI 618367. *Rubus hispidus* L.**  
Wild. CRUB 2022.

**PI 618368. *Rubus palmatus* Thunb.**  
Wild. CRUB 2023.

**PI 618369. *Rubus* sp.**  
Wild. CRUB 2025.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618370. *Rubus crataegifolius* Bunge**  
Wild. CRUB 2026. Collected 08/06/1995 in Gifu, Japan. Latitude 35 deg. 27' 0'' N. Longitude 136 deg. 46' 0'' E. Elevation 0 m. Gifu-ken, Yoshiki-gun, Kami-takara-mura, Nakao-onsen. Pedigree - Collected from the wild in Japan.

The following were collected by Tokiyasu Iwatsubo, Minamitane-cho, Kagoshima 891-3705, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618371. *Rubus grayanus* Maxim.**  
Wild. *R. grayanus*; CRUB 2027; 015-016. Collected 05/11/1995 in Kagoshima, Japan. Latitude 31 deg. 37' 0'' N. Longitude 130 deg. 32' 0'' E. Elevation 50 m. Kagoshima-ken, Kumage-gun, Minamatiane-cho, Nishino. Pedigree - Collected from the wild in Japan.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan; Katsuaki Hashimoto, Shanbohl Hamanako 626, Mikkabi, Hisa-Gun, Shizuoka 417-0851, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618372. *Rubus illecebrosus* Focke**  
Wild. *R. illecebrosus*; CRUB 2028; 023-037. Collected 08/23/1995 in Gifu, Japan. Latitude 35 deg. 27' 0'' N. Longitude 136 deg. 46' 0'' E. Elevation 0 m. Gifu-ken, Oono-gun, Asahi-mura, Akijin-onsen. Pedigree - Collected from the wild in Japan.

The following were collected by Tokiyasu Iwatsubo, Minamitane-cho, Kagoshima 891-3705, Japan. Donated by Naohiro Naruhashi, Toyama University, Department

of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618373. *Rubus croceacanthus* H. Lev.**

Wild. *R. okinawensis* (synonym); CRUB 2029; 027-016. Collected 04/21/1995 in Kagoshima, Japan. Latitude 31 deg. 37' 0'' N. Longitude 130 deg. 32' 0'' E. Elevation 0 m. Kagoshima-ken, Kumage-gun, Minamatiane-cho, Nishino. Pedigree - Collected from the wild in Japan.

The following were collected by Katsuaki Hashimoto, Shanbohl Hamanako 626, Mikkabi, Hisa-Gun, Shizuoka 417-0851, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618374. *Rubus palmatus* Thunb.**

Wild. *R. palmatus*; CRUB 2030; 014-133. Collected 06/05/1995 in Toyama, Japan. Latitude 36 deg. 42' 0'' N. Longitude 137 deg. 14' 0'' E. Elevation 0 m. Toyama-ken, Takaoka-shi, Futagamai-san. Pedigree - Collected from the wild in Japan.

The following were collected by Osamu Kume, Ohta, Kamimachi, Takamatsu, Kagawa 761-8074, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618375. *Rubus parvifolius* L.**

Wild. CRUB 2031. Collected 07/02/1995 in Okayama, Japan. Latitude 34 deg. 40' 0'' N. Longitude 133 deg. 54' 0'' E. Elevation 0 m. Okayama-ken, Kurashiki-shi, Kojima, Unotsu. Pedigree - Collected from the wild in Japan.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan; Katsuaki Hashimoto, Shanbohl Hamanako 626, Mikkabi, Hisa-Gun, Shizuoka 417-0851, Japan. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/21/1996.

**PI 618376. *Rubus pectinellus* Maxim.**

Wild. CRUB 2032. Collected 08/23/1995 in Gifu, Japan. Latitude 35 deg. 27' 0'' N. Longitude 136 deg. 46' 0'' E. Elevation 0 m. Gifu-ken, Yoshiki-gun, Kami-takara-mura, Nakao-onsen. Pedigree - Collected from the wild in Japan.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/20/1998.

**PI 618377. *Rubus strigosus* Michx.**

Wild. CRUB 1978. Collected 08/15/1998 in Oregon, United States. Latitude 44 deg. 18' N. Longitude 119 deg. 41' W. Elevation 1828 m. Strawberry Wilderness in Malheur Nation Forest; T14S R34E Sec. 30; Strawberry Lake Campground at end of Forest Road 6001. From Prairie City take Highway 60

(Strawberry Road) south, which becomes Forest Road 6001. Small clumps in full sunshine near creek. Less abundant than *Fragaria* and *Vaccinium*.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/22/1998.

**PI 618378. *Rubus chamaemorus* L.**

Wild. CRUB 1980. Collected 08/10/1998 in Alaska, United States. Latitude 62 deg. 53' 4'' N. Longitude 145 deg. 31' 30'' W. Elevation 883 m. Paxson Lake Campground, Milepost xx Richardson Highway, Route 2. Plants were in low lying marshy areas or on sphagnum tussocks. Associated plants: sphagnum moss and horsetail.

**PI 618379. *Rubus* sp.**

Wild. CRUB 1982. Collected 08/30/1998 in Himachal Pradesh, India. Latitude 30 deg. 14' N. Longitude 77 deg. 30' E. Elevation 2589 m. On slopes between cultivated rows of potatoes which were planted in terraces at the Central Potato Research Institute, Kufri, India. Open field exposed to sun. Soil very heavy brown clay, no black organic matter. Steep slopes. Frequently cloudy or misty during July and August monsoon season. Snow cover in winter. Pedigree - Collected from the wild in India.

The following were collected by Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 09/29/1998.

**PI 618380. *Rubus strigosus* Michx.**

Wild. CRUB 1984. Collected 08/15/1998 in Minnesota, United States. Latitude 47 deg. 56' 38'' N. Longitude 89 deg. 43' 9'' W. Elevation 185 m. Grand Portage, Minnesota. Pedigree - Collected from the wild in Minnesota.

The following were collected by Bruce Bartlett, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 10/05/1998.

**PI 618381. *Rubus multibracteatus* H. Lev. & Vaniot**

Cultivated. *R. multibracteatus* CRUB 1642 OP seed; CRUB 1985. Collected 10/05/1998 in Oregon, United States.

The following were collected by Phil Hosick, Rural Route 2, Addison, Ontario KOE 1A0, Canada. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 10/23/1996.

**PI 618382. *Rubus occidentalis* L.**

Wild. CRUB 1988; *R. occidentalis*. Collected 09/1996 in Ontario, Canada. Latitude 44 deg. 40' N. Longitude 75 deg. 48' W. Elevation 0 m. On the farm of Phil Hosick near Addison, northwest of Brockville in eastern Ontario. Pedigree - Collected in the wild of Ontario, Canada. I live in

Eastern Ontario near Brockville and have a seventy acre farm. The seeds I have enclosed are not red, but a rather small black raspberry. Which my wife and I think is wonderful. We have some red raspberries on the property, but they never bear enough to be worth picking. However these black ones on certain bushes are extremely prolific (the majority though are not). The few bushes that do produce well are located either along cedar fences (or rail piles) or along an old building (south exposure). We picked roughly seven quarts from these four bushes this summer. They are small and seedy, but the juice is wonderful. They also make great cheesecake topping. The brambles are quite long, up to eight or ten feet. The branch is whitish in color and the thorns are second to none. The leaves are darker green than red raspberries. The fruit is very tight, the seed pockets do not come apart like a red raspberry will. I have enclosed a package of seed, it is primarily off these.

The following were collected by University of Oulu, Botanical Garden, Linnanmaa, Oulu, Oulu SF-90570, Finland. Donated by Kari Laine, University of Oulu, Botanical Gardens, Linnanmaa PO Box 400, Oulu, Oulu SF-90570, Finland. Received 1994.

**PI 618383. *Rubus idaeus* L.**

Wild. *R. idaeus*; 500; CRUB 1990. Collected 09/14/1993 in Troms, Norway. Latitude 69 deg. 5' N. Longitude 20 deg. 6' E. Elevation 0 m. Storfjord, Paras. Pedigree - Collected from the wild in Norway.

The following were donated by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States; North Alabama Nursery, P.O. Box 67, County Road 1777, Joppa, Alabama 35087-0067, United States. Received 01/11/1984.

**PI 618384. *Rubus* hybrid**

Cultivar. "Eldorado"; CRUB 467. Pedigree - Chance seedling.

The following were donated by Indiana Berry and Fruit Co., 5218 West 500 S., Huntingburg, Indiana 47542, United States. Received 02/25/1999.

**PI 618385. *Rubus* hybrid**

Cultivar. "K81-6"; CRUB 1994. Pedigree - (Muskoka (selfed) x Ottawa Latham) x (Creston x Willamette).

**PI 618386. *Rubus* hybrid**

Cultivar. "Estate"; CRUB 1995.

**PI 618387. *Rubus* hybrid**

Cultivar. "Mac Black"; CRUB 1997.

The following were donated by Tim Nourse, Nourse Farms, Inc., Box 444485, RFD, South Deerfield, Massachusetts 01373, United States. Received 04/07/1997.

**PI 618388. *Rubus* hybrid**

Cultivar. "Triple Crown"; US 1638; CRUB 1946; A-92. Pedigree - Carbondale 47 x Arkansas 545. Fruit: large, firm, glossy black, slightly

longer than broad shape, balanced subacid, sweet and aromatic flavor, early ripening. Plant: relatively high yield, vigorous, forms growths, spineless canes, fruit well distributed. W. R. Okie, ed. 1997.

The following were developed by H. Ness, Texas Agricultural Experiment Station, College Station, Texas, United States. Donated by Louisiana Nursery, 5853 Highway 182, Opelousas, Louisiana 70570, United States. Received 02/26/1999.

**PI 618389. Rubus hybrid**

Cultivar. "Ness"; Nessberry; CRUB 1998. Pedigree - F3 of (*Rubus rubrisetus* x *Rubus strigosus*).

The following were donated by Peter H. Tallman, 5690 Steeplechase Dr., Longmont, Colorado 80503, United States. Received 04/08/1999.

**PI 618390. Rubus sp.**

Cultivated. CRUB 2001; Tallman. Collected in Colorado, United States.

The following were donated by Helen Ovenell, 2725 East Fir St. Unit 106, Mount Vernon, Washington 98273-6404, United States. Received 05/13/1999.

**PI 618391. Rubus hybrid**

Cultivar. CRUB 2003.

The following were developed by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 05/19/1999.

**PI 618392. Rubus idaeus L.**

Cultivar. "Coho"; ORUS 958-10; CRUB 2002. Pedigree - Lewis x ORUS 520-48 (ORUS 1586 x ORUS 1655). Coho was selected in 1985 and tested as ORUS 958-10. The name Coho reflects the brilliant red body coloration and late season run of the salmon of the same name. Coho has had very high yields of late-ripening, medium-large, bright red, very firm berries that separate from the plant easily. Yield has been similar to Meeker and higher than Tulameen and Kitsilano; all of these ripen in the late season. The fruit ripen about 4 days later than Tulameen, with or slightly later than Meeker, and with or slightly earlier than Kitsilano. Fruit size is smaller than Tulameen, similar to Chilliwack and Meeker, and larger than Kitsilano. The fruit have been rated excellent for firmness, color, shape, flavor, and texture when eaten, and for separation from the plant. Coho produces high quality, large fruit throughout its production season. Coho plants are vigorous, but not excessively so. Canes are similar to Malahat for spines. Coho produces a moderate number of canes with medium.

The following were developed by E.T. Graham; H.H. Bowen. Donated by Daniel P. Hartmann, Hartmann's Plantation Inc, 310 60th Street, PO Box E, Grand

Junction, Michigan 49056, United States; Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Received 03/23/1981.

**PI 618393. *Rubus hybrid***

Cultivar. "Rosborough". Pedigree - (Brainerd x Brazos) x Brazos. IDX. Sibling of Brison and Womack.

The following were donated by Chollipo Arboretum, 344-16 Yonhui-Dong, Sodaemun-KuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/22/1998.

**PI 618394. *Rubus ribisoideus* Matsum.**

Cultivated. 1-1-246; *R. ribisoideus*; CRUB 1969. Collected in Chungchong Nam, Korea, South. Latitude 36 deg. 52' N. Longitude 126 deg. 13' E. Elevation 0 m. Chollipo Arboretum, Sowon-Myon, Taeon-Gun. Pedigree - Collected from the Chollipo Arboretum in South Korea.

The following were collected by Douglas Cook, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/12/1998.

**PI 618395. *Rubus nivalis* Douglas ex Hook.**

Wild. CRUB 1976. Collected 08/09/1998 in Oregon, United States. Latitude 42 deg. 6' N. Longitude 123 deg. 24' W. Elevation 1375 m. Along upper nature trail between exit of cave and gift shop. Oregon Caves National Monument. Open canopy old growth coniferous forest. With *Berberis*, *Rosa*, *Holodiscus* and *Achlys*. Pedigree - Collected from the wild in Oregon.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Elliott Finn, 28984 Blazer Dr., Corvallis, Oregon 97330, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/20/1998.

**PI 618396. *Rubus strigosus* Michx.**

Wild. CRUB 1977. Collected 08/12/1998 in Oregon, United States. Latitude 45 deg. 6' N. Longitude 117 deg. 0' W. Elevation 1370 m. Wallowa-Whitman National Forest; T5S R47E Sec.20; just upstream from Evergreen Campground on Forest Road 3960. Base of upturned tree on island in middle of Innaha River. In association with *Ribes* and *Fragaria virginiana*.

The following were developed by Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu, China. Donated by Gu Yin, Jiangsu Institute of Botany, Nanjing Botanical Garden, Mem. Sun Yat-sen, Nanjing, Jiangsu 210014, China. Received 11/02/1992.

**PI 618397. *Rubus amphidasys* Focke**

Cultivated. Collected in Jiangsu, China. Pedigree - Uncertain.

The following were donated by J. S. Akin, Sherwood's Greenhouses, PO Box 6, Sibley, Louisiana 71073, United States. Received 01/27/1993.

**PI 618398. *Rubus rugosus* Sm.**

Breeding. Collected in New Zealand.

The following were developed by James N. Moore, University of Arkansas, Dept. of Horticulture and Forestry, 316 Plant Sciences Building, Fayetteville, Arkansas 72701, United States. Donated by Pat Miller, Sakuma Brothers Farms, Inc., PO Box 427, Burlington, Washington 98233, United States. Received 03/15/1993.

**PI 618399. *Rubus* sp.**

Breeding. Arapaho. Pedigree - Ark. 631 x Ark. 883 complex hybrid involving Cherokee, Brozos, Hillquist, and Thornfree. The outstanding characteristics of 'Arapaho' are its thornless, erect, self-supporting canes, good fruit quality, earliness of ripening, and its ability to establish a full fruiting row quickly. 'Arapaho' will compliment 'Navaho' in providing a long harvest season for high quality, thornless blackberries. 'Arapaho' is expected to perform well in areas in which 'Navaho' is adapted. Moore and Clark, 1993. <br><br>Virus tested by Bob Martin in Vancouver, BC.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/08/1993.

**PI 618400. *Rubus corchorifolius* L. f.**

Breeding. *R. corchorifolius* NC 183. Collected in Sichuan, China. Pedigree - Open-pollinated seedling. Nicest fruit (salmon) from seedlings of OP seed from Sichuan, China.

The following were developed by H. Goude. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 08/17/1995.

**PI 618401. *Rubus idaeus* L.**

Cultivar. Late flowering and ripening, good for processing.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/15/1995.

**PI 618402. *Rubus flagellaris* Willd.**

Wild. CRUB 1824. Collected in North Carolina, United States. Pedigree - Collected from the wild in North Carolina.

The following were developed by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis,

33447 Peoria Road, Corvallis, Oregon 97333, United States; Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; Bernadine C. Strik, Oregon State University, Department of Horticulture, 4017 ALS, Corvallis, Oregon 97331, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 03/19/1996.

**PI 618403. *Rubus hybrid***

Cultivar. "Black Butte"; ORUS 1129-1; CRUB 1861. Pedigree - ORUS 830-4 x ORUS 728-3 (*Rubus ursinus* is primary species in derivation but *R. armeniacus* [*R. procerus*] and *R. idaeus* also occur). Black Butte - A trailing, fresh market blackberry producing large, firm fruit. Orig. in Corvallis, Oregon by C.E. Finn and F.J. Lawrence, USDA-ARS and Oregon State University ORUS 830-4 x ORUS 728-3 (*Rubus ursinus* is primary species in derivation but *R. armeniacus* [*R. procerus*] and *R. idaeus* also occur); tested as ORUS 1129-1; introduced in 1995. Fruit: very large; firm; color similar to Marion but with occasional red drupelet; uniform shape with no indication of sterility; good flavor but lacks strong aromatic components of Marion; ripens earlier than Marion and similar to Kotata and with harvest season longer than either. Plant yield similar or slightly higher than Marion; vigorous, trailing, relatively open habit; spiny; relatively strong laterals; flower buds more winter hardy than Marion. Resistant to cane spot and leaf spot.

The following were donated by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 04/18/1996.

**PI 618404. *Rubus procerus*** P. J. Mull. ex Boulay

Cultivar. CRUB 1870. Pedigree - old blackberry selection.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/08/1996.

**PI 618405. *Rubus arcticus* subsp. *stellatus*** (Sm.) B. Boivin

Wild. CRUB 1941. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 28' N. Longitude 145 deg. 25' W. 0.5 mile from Copper River Road on Alaganik Slough Road, about 22 miles from Cordova. Around base of interpretive sign describing Moose habitat. Ground cover in open sun and in shade under alders. Pedigree - Selection of wild *R. arcticus* subsp. *stellatus*.

The following were donated by Forest Farm Nursery, 990 Tetherow Road, Williams, Oregon 97544, United States. Received 08/20/1997.

**PI 618406. *Rubus lineatus*** Reinw. ex Blume

Cultivated. CRUB 1957. Pedigree - selection of *R. lineatus*.

The following were collected by Norman Pellett, University of Vermont, Dept. Plant and Soil Sci., Burlington, Vermont 05401, United States. Received 09/22/1997.

**PI 618407. *Rubus odoratus* L.**

Wild. CRUB 1958. Collected 09/09/1997 in Vermont, United States.  
Pedigree - collected from the wild.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Lufter Xhuveli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Donated by Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States. Received 10/01/1996.

**PI 618408. *Rubus* sp.**

Wild. Al 006; CRUB 1906. Collected 08/24/1996 in Albania. Latitude 40 deg. 57' 4'' N. Longitude 19 deg. 41' 4'' E. Elevation 60 m. Ditch along road going to field plots of Wheat Institute, Lavdi Deshmoreye, Lushnje. Pedigree - collected from the wild. Shrub low growing. Leaves compound, 3 leaflets, lobed, margins serrate, upper side dark green, underside light green and pubescent. Flower petals white, many anthers. Inflorescence short, 3-4cm long, terminal. Fruit dull black, sour.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/27/1993.

**PI 618409. *Rubus pedatus* Sm.**

Wild. Collected 08/04/1993 in Alaska, United States. Latitude 60 deg. 8' N. Longitude 149 deg. 35' W. Elevation 120 m. Resurrection River Trailhead, 8 mi on exit glacier rd, NW of Seward. Spruce forest, hillside by old avalanche. Pedigree - Collected from the wild in Alaska. Most berries had 3 drupelets (photos 1-25,2-2). Collector's #: Seward-4.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 11/22/1996.

**PI 618410. *Rubus* sp.**

Wild. CRUB 1909. Collected 07/12/1996 in Bulgaria. Latitude 42 deg. 39' 34'' N. Longitude 24 deg. 42' 52'' E. Elevation 442 m. Balkan mountains northeast of Plovdiv. Open meadow. Mostly *Lolium*, *Trifolium*, some *Lactuca*, *Daucus*, but not mature. Pedigree - collected from the wild.

The following were developed by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 11/22/1996.

**PI 618411. *Rubus* hybrid**

Breeding. Melcher 89-14-7; CRUB 1935. Pedigree - *Brayos* x *trivialis*. Semi fertile, 12-15 drupelets. Resistant to double blossom blight.

The following were collected by Fred Gibson, Mcallen, Texas, United States. Developed by M. J. Lukefahr, Rio Farms, Inc., RR 1 Box 326, Monte Alto, Texas 78538, United States; W.R. Cowley, Texas, United States. Donated by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 11/22/1996.

**PI 618412. *Rubus trivialis* Michx.**

Cultivar. CRUB 1936. Collected in United States. Tolerates calcareous soil.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/06/1996.

**PI 618413. *Rubus flagellaris* Willd.**

Wild. NC 96-5-10; CRUB 1872. Collected 05/14/1996 in North Carolina, United States. Latitude 34 deg. 56' 28'' N. Longitude 77 deg. 14' 20'' W. Jones County, North Carolina. Roadside on right, headed north on US 17; 1.3 miles south of Chadwick.

**PI 618414. *Rubus hispidus* L.**

Wild. NC 96-10-1; CRUB 1873. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 31' 17'' N. Longitude 76 deg. 55' 52'' W. Beaufort County, North Carolina. US 264 at NC Forest Service Office. Moist site w/ scattered *R. hispidus* and occas. *R. flagellaris*. Ericaceous species were fairly abundant. Planted pines adjacent to roadside. Pedigree - Collected from the wild in North Carolina.

The following were collected by Qinghua Zhang, Institute of Forest Ecology and Environment, Chinese Academy of Forestry, Wan Shou Shan, Beijing, Beijing 100091, China. Received 01/03/1997.

**PI 618415. *Rubus biflorus* Buch.-Ham. ex Sm.**

Wild. CRUB 1938. Collected 11/09/1996 in Yunnan, China. Latitude 27 deg. 31' N. Longitude 99 deg. 30' E. Elevation 3300 m. Pedigree - Collected from the wild in China.

The following were donated by C. Ferris Miller, Chollipo Arboretum, 344-16 Yonhui-dong, Sodaemun-kuSosan Gun, Seoul, Seoul 120-113, Korea, South. Received 05/08/1996.

**PI 618416. *Rubus coreanus* Miq.**

Wild. CRUB 1955; 181 (1996).

The following were developed by Barney Douglas, Rt. 3 Box 279, Hillsboro, Oregon 97124, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 01/30/1997.

**PI 618417. *Rubus hybrid***

Cultivar. Long Black; CRUB 1942. Pedigree - wild trailing x (Barney Berry (Boysen x OSU 978) x [Marion x (Lincoln x Lavaca)]). The pedigree for Long Black is 50% wild. A trail blackberry collected at Miller

Penninsula, Clallam county, Washington x ([Boysen x OSU 978] x [Marion x (Linclon x Lavaca)]).

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/27/1996.

**PI 618418. *Rubus flagellaris* Willd.**

Wild. CRUB 1951. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 10' 14'' N. Longitude 77 deg. 30' 9'' W. Near Scotland Neck, Halifax county, North Carolina. County road 1003 west, 0.2 mile off state road 903 north. Power line right-of-way on the left. Moist site, with young mixed forest adjacent. No *Fragaria*, *Rubus* scattered over the site (as usual). Pedigree - Collected from the wild in North Carolina.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/08/1996.

**PI 618419. *Rubus pedatus* Sm.**

Wild. CRUB 1940. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' N. Longitude 145 deg. 20' W. Elevation 20 m. McKinley Lake Trail 1 - 2.5 miles up from Copper River Road. Along trail edge, ground cover. Pedigree - Selection of wild *R. pedatus*.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/27/1996.

**PI 618420. *Rubus flagellaris* Willd.**

Wild. CRUB 1950. Collected 05/15/1996 in North Carolina, United States. Latitude 35 deg. 31' 17'' N. Longitude 76 deg. 55' 53'' W. Beaufort County, North Carolina. US 264 at NC Forest Service Office. Powerline ROW on the right, by the roadside. Moist site with scattered *R. hispidus* and occasional *R. flagellaris*. Ericaceous species were fairly abundant. Planted pines adjacent to roadside. Pedigree - Collected from the wild in North Carolina.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/08/1996.

**PI 618421. *Rubus pedatus* Sm.**

Wild. CRUB 1939. Collected 07/31/1996 in Alaska, United States. Latitude 60 deg. 30' N. Longitude 145 deg. 30' W. Elevation 15 m. Cabin Lake, about 3.5 miles to the north of Cordova airport. Around open forest edge of parking lot, near lake outlet, ground cover. Pedigree - Selection of wild *R. pedatus*.

The following were collected by Robert Newman, American College of Traditional Chinese Medicine, Botanical Garden, 455 Arkansas Street, San

Francisco, California 94107, United States. Received 04/02/1997.

**PI 618422. *Rubus lambertianus* Ser.**

Wild. CRUB 1943. Collected 1996 in Sichuan, China. Pedigree - Collected from the wild in China.

**PI 618423. *Rubus lambertianus* Ser.**

Wild. CRUB 1944. Collected 1996 in Guangxi, China. Pedigree - Collected from the wild in China.

The following were collected by Peter Bristol, The Holden Arboretum, 9500 Sperry Road, Kirtland, Ohio 44060-5172, United States. Donated by Shawn Belt, USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Glenn Dale, Maryland 20769-9157, United States. Received 01/30/1997.

**PI 618424. *Rubus crataegifolius* Bunge**

Wild. HLJ 56; CRUB 1948; NA 64192. Collected 09/08/1993 in Heilongjiang, China. Latitude 43 deg. 52' 31'' N. Longitude 129 deg. 2' 28'' E. Elevation 544 m. Jian Shan Jiao. In moist valleys only; woodland understory; in association with *Juglans mandshurica*, *Tilia amurensis*, *Betula platyphulla* var *mandshurica*, *Acer mono*, *Acer ukurunduense*, *Acer mandshuricum*. Pedigree - collected from the wild in Heilongjiang, China

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 06/27/1996.

**PI 618425. *Rubus hybrid***

Wild. CRUB 1952. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 10' 14'' N. Longitude 77 deg. 30' 9'' W. Near Scotland Neck, Halifax county, North Carolina. County road 1003 west, 0.2 mile off state road 903 north. Power line right-of-way on the left. Moist site, with young mixed forest adjacent. No *Fragaria*, *Rubus* scattered over the site (as usual). Pedigree - prob. *Rubus cuneifolius* x *R. flagellaris* (alternately, escapedcultivated form, or cultivated x *R. cuneifolius*).

**PI 618426. *Rubus hybrid***

Wild. CRUB 1953. Collected 05/17/1996 in North Carolina, United States. Latitude 36 deg. 10' 14'' N. Longitude 77 deg. 30' 9'' W. Near Scotland Neck, Halifax county, North Carolina. County road 1003 west, 0.2 mile off state road 903 north. Power line right-of-way on the left. Moist site, with young mixed forest adjacent. No *Fragaria*, *Rubus* scattered over the site (as usual). Pedigree - prob. *Rubus argutus* x *flagellaris*.

The following were donated by Daniel Murphy, North Star Surfaces, 23 Empire Dr., Suite 1000, St. Paul, Minnesota 55103, United States. Received 05/16/1991.

**PI 618427. *Rubus idaeus* L.**

Cultivar. "Golden Queen". Developed in Canada. Pedigree - Seedling selection of cultivar Cuthbert. Beautiful, large golden yellow berries, surpassing its parent in size, beauty, quality and adaptability.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618428. *Rubus setchuenensis* Bureau & Franch.**

Cultivated. Collected in China. Pedigree - Uncertain, from botanical collection.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Deshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618429. *Rubus sumatranus* Miq.**

Wild. 92127; *R. sumatranus*. Collected 06/03/1992 in Guizhou, China. Latitude 26 deg. 4' N. Longitude 108 deg. 42' E. Elevation 723 m. drove a few km from Lu SDi Zui village in vicinity of Feng Deng Zai village. so government official needed to help collect. collection along a trail up a creek valley dense vegetation : low shrubs, ferns, small trees. Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618430. *Rubus tricolor* Focke**

Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

The following were collected by Patricia Holloway, University of Alaska, Georgeson Botanical Garden, 309 O'Neil, Fairbanks, Alaska 99775, United States. Received 09/10/1993.

**PI 618431. *Rubus chamaemorus* L.**

Wild. Collected 08/09/1993 in Alaska, United States. Latitude 64 deg. 50' N. Longitude 147 deg. 43' W. Elevation 305 m. Collected along the Gilmore Trail, Fairbanks, Alaska. Black spruce bog. Pedigree - Collected from the wild in Alaska.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/27/1993.

**PI 618432. *Rubus chamaemorus* L.**

Wild. Collected 08/04/1993 in Alaska, United States. Latitude 60 deg. 8' N. Longitude 149 deg. 25' W. Elevation 30 m. Trail to Gold Finn Lake, 6

mi N of Seward. Spruce forest. Pedigree - Collected from the wild in Alaska. Salmon colored berries (photo). Collector's #: Seward-2.

The following were developed by Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu, China. Received 11/02/1992.

**PI 618433. *Rubus assamensis* Focke**

Wild. Collected 09/19/1992 in Guizhou, China. Latitude 28 deg. 29' 0'' N. Longitude 105 deg. 38' 0'' E. Elevation 300 m. Chishui County. Pedigree - Collected from the wild in China. Fruit black.

The following were collected by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Jerry A. Payne, Wildlife Biology Department, Rt. 5, Box 180, Forsyth, Georgia 31029, United States. Donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 11/15/1995.

**PI 618434. *Rubus flagellaris* Willd.**

Wild. CRUB 1825. Collected 07/13/1995 in Mississippi, United States. Latitude 34 deg. 15' 37'' N. Longitude 88 deg. 53' 9'' W. Mississippi, Tishomingo county, Tishomingo State Park. Upper piedmont vegetation on ridges and in deep shady ravines; closely resembling the Appalachians where rock outcrops occur. *V. arboreum*, *V. elliotii* fairly abundant. Scattering of *Rubus* spp. Pedigree - Collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of *Vaccinium* spp., four of *Gaylussacia frondosa*, and one of *Rubus argutus* were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but *F. virginiana* was no longer present. A total 33 accessions of *F. virginiana* were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

**PI 618435. *Rubus flagellaris* Willd.**

Wild. CRUB 1826. Collected 07/14/1995 in Mississippi, United States. Latitude 34 deg. 36' 25'' N. Longitude 88 deg. 12' 17'' W. Mississippi, Lafayette County, Holly Springs National Forest, FS Rd 841, 1.1 mi south of jct with Cty Rd 244 (244 turns off Hwy 7 between Oxford & Holly Springs). Open woodland in the National Forest, control burned 3 years ago. Dry uplands. Pedigree - Collected from the wild in Mississippi. South Carolina was extremely frustrating, by the middle of the week we had only verified the existence of one location for *Fragaria virginiana* in the Coastal Plain, so we moved over into the southern piedmont. Three accessions were located in the Edgefield District of Sumter National Forest and four in Greenwood State Park. The one verified Coastal Plain location is in a garden near Lexington, SC. Twelve accessions of

Vaccinium spp., four of Gaylussacia frondosa, and one of Rubus argutus were also collected. Southeastern Louisiana and Mississippi were more successful, but not abundant in these areas either. No accessions were found south of Starkville, MS. Specific previous sites were visited near Hattisburg and Laurel, MS, but F. virginiana was no longer present. A total 33 accessions of F. virginiana were collected from east central and northeastern MS, occurring in small outcroppings of prairie; characterized by a very thin layer of 'usually' sticky black soil over.

The following were donated by C.T. Kennedy, Kenbrook Ranch, California Rare Fruit Growers, 1315 33rd Avenue, San Francisco, California 94122, United States. Received 03/15/1996.

**PI 618436. Rubus sp.**

Cultivar. CRUB 1864. Pedigree - selection of Boysenberry 7x.

**PI 618437. Rubus idaeus L.**

Cultivar. CRUB 1865. Pedigree - raspberry selection.

**PI 618438. Rubus idaeus L.**

Cultivar. CRUB 1866. Pedigree - selection of red raspberry.

**PI 618439. Rubus sp.**

Cultivar. CRUB 1867. Pedigree - albino fruited mutant of blackberry.

The following were developed by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 04/19/1996.

**PI 618440. Rubus idaeus L.**

Cultivar. CRUB 1869. Pedigree - Glen Moy x Chilliwack. Qualicum had large, firm, attractive fruit with some resistance to postharvest rot. The fruit is suited to the fresh market. The fruit is suited for processing, including high-value IQF product.

The following were developed by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada; Angela Anderson, Agriculture Canada, Research Station, Canada. Donated by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Received 02/16/1996.

**PI 618441. Rubus idaeus L.**

Cultivar. CRUB 1868. Pedigree - Nootka x Glen Prosen.

The following were donated by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/21/1995.

**PI 618442. Rubus spectabilis Pursh**

Clone. Developed in Unknown. Pedigree - selection of R. spectabilis

with double flowers. Received as *R. spectabilis* f. *flore pleno* - not acceptable for GRIN so changed to *R. spectabilis* (cv. *Flore Pleno*) 11/95.

The following were developed by Arnold Arboretum of Harvard University, 125 Arborway, Jamaica Plain, Massachusetts 02130-3500, United States. Received 02/22/1993.

**PI 618443. *Rubus cockburnianus* Hemsl.**

Cultivated. Collected in Unknown. Pedigree - Uncertain. Fruit black.

The following were collected by Hakan Schuberg, Gluntens Vag 9-807, Umea, Vasterbotten 903 31, Sweden. Received 11/04/1996.

**PI 618444. *Rubus caesius* L.**

Wild. CRUB 1907. Collected 1996 in Gotland, Sweden. Latitude 52 deg. 20' N. Longitude 18 deg. 40' E. Elevation 0 m. Near the home of the parents of Hakan Schuberg. Grows along ditches, fences and roadsides. Pedigree - collected from the wild in Sweden.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618445. *Rubus bambusarum* Focke**

Cultivated. Collected in China. Pedigree - Uncertain, from botanical collection.

The following were developed by University of Oulu, Botanical Garden, Linnanmaa, Oulu, Oulu SF-90570, Finland. Donated by Kari Laine, University of Oulu, Botanical Gardens, Linnanmaa PO Box 400, Oulu, Oulu SF-90570, Finland. Received 05/25/1993.

**PI 618446. *Rubus chamaemorus* L.**

Uncertain. Pedigree - Assumed to be collected from the wild in Finland.

The following were collected by He Shan An, Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu 21004, China. Received 11/15/1991.

**PI 618447. *Rubus coreanus* Miq.**

Cultivated. Collected in Jiangsu, China. Pedigree - Uncertain, from botanical collection. No additional information provided.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618448. *Rubus rosifolius* Sm.**

Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

The following were collected by Maxine Thompson, National Clonal Germplasm

Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Dshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618449. *Rubus coreanus* Miq.**

Wild. 92212; *R. coreanus*. Collected 06/26/1992 in Guizhou, China. Latitude 25 deg. 49' N. Longitude 106 deg. 34' E. Elevation 1061 m. About 60 km north of Luodian near the border of Hui Shui and Luodian Counties in Ludodian County. Plants growing on slopes beside road. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618450. *Rubus coreanus* Miq.**

Wild. 92213; *R. coreanus*. Collected 06/26/1992 in Guizhou, China. Latitude 25 deg. 49' N. Longitude 106 deg. 34' E. Elevation 1061 m. About 60 km north of Luodian near the border of Hui Shui and Luodian Counties in Luodian County. Growing on slopes above road. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618451. *Rubus coreanus* Miq.**

Wild. 92214; *R. coreanus*. Collected 06/26/1992 in Guizhou, China. Latitude 25 deg. 49' N. Longitude 106 deg. 34' E. Elevation 1061 m. About 60 km north of Luodian near the border of Hui Shui and Luodian Counties in Luodian County. Growing on slopes above road among other herbs and shrubs. Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were developed by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/15/1991.

**PI 618452. *Rubus hybrid***

Breeding. "Siskiyou"; ORUS 830-4. Pedigree - ORUS 2027 (Olallie x ORUS 1367) x ORUS 1826 (ORUS 1122 x Boysen). *Rubus ursinus* is the primary species in Siskiyou, but *R. idaeus* and *R. armeniacus* (*R. procerus*) are present in the pedigree. Similar in vigor to 'Marion' but more tolerant of environmental stress. Canes are more tolerant than 'Marion' and less so than 'Kotata'. Canes are more resistant to cane and leaf spot (*Septoria rubi* Westend) than 'Marion'; however, cane botrytis (*Botrytis cinerea* Pers.:Fr.) has been observed. No symptoms of yellow rust [*Kuehneola uredinis* (Link) Arth.] infection and in 1997 no symptoms of the pathogen causing drupelets of 'Kotata' and 'Marion' to turn brown and dry. Siskiyou has shown less winter injury to flower buds and canes than 'Marion'. Siskiyou produces very large, firm, and flavorful berries, early in the blackberry season. Siskiyou averaged 7.8 grams/fruit, larger than 'Kotata' (5.1 grams) or 'Marion' (5.1 grams), but less than 'Black Butte' (9.0 grams). Fresh berries are similar to 'Marion' in color but hold their color better under refrigerations.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618453. *Rubus ichangensis* Hemsl. & Kuntze**

Cultivated. Collected in China. Pedigree - Uncertain, from botanical collection.

The following were developed by Robert Erskine. Donated by Daniel Murphy, North Star Surfaces, 23 Empire Dr., Suite 1000, St. Paul, Minnesota 55103, United States. Received 05/16/1991.

**PI 618454. *Rubus idaeus* L.**

Cultivar. "Honey Queen". Pedigree - OP seedling of cultivar Honey King. Reported to be a superior variety of yellow raspberry. Vigorous and high-yielding.

The following were developed by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/15/1991.

**PI 618455. *Rubus idaeus* L.**

Breeding. ORUS 980-4. Pedigree - (ORUS 1510 x Wyo. 68-21) x (ORUS 1835 x ORUS 1834). Fruit yellow to apricot colored, late season in Oregon. Primocane fruiting, very few spines.

The following were developed by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States; Bruce H. Barritt, Washington State University, Tree Fruit Research & Extension Ctr., 1100 N. Western Avenue, Wenatchee, Washington 98801, United States; Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada; Tom Sjulín, Driscoll Strawberry Associates, 404 San Juan Road, Watsonville, California 95076-5399, United States. Donated by Patrick P. Moore, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371-4998, United States. Received 02/11/1992.

**PI 618456. *Rubus idaeus* L.**

Cultivar. "Centennial". Pedigree - Meeker x Skeena. Appears to be well-adapted to the southern portions of the Pacific Northwest. Suitable for fresh market and processing.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Deshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618457. *Rubus multibracteatus* H. Lev. & Vaniot**

Wild. 92201; *R. multibracteatus*. Collected 06/24/1992 in Guizhou, China. Latitude 25 deg. 7' N. Longitude 106 deg. 1' E. Elevation 861 m. An Mao Ao village, 25 km SW of Wangmo Wangmo County We walked a short distance into the woods and then back down the road. Collected along the roadside . Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were developed by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/20/1993.

**PI 618458. *Rubus occidentalis* L.**

Breeding. White Chimera. Pedigree - Seedling of Munger Black Raspberry, sectorial of a chimera. Seedling of virus free plant.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618459. *Rubus parviflorus* Nutt.**

Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Dshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618460. *Rubus parvifolius* L.**

Wild. 92171; *R. parvifolius*. Collected 06/19/1992 in Guizhou, China. Latitude 25 deg. 2' N. Longitude 105 deg. 23' E. Elevation 1268 m. drive from Xingyi to Anlong, Anlong County near Wen Jia Po village, about 6 km west of Anlong. open rocky slope beside road with scattered shrubs. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618461. *Rubus parvifolius* L.**

Wild. 92200; *R. parvifolius*. Collected 06/24/1992 in Guizhou, China. Latitude 25 deg. 7' N. Longitude 106 deg. 1' E. Elevation 861 m. An Mao Ao village, 25 km SW of Wangmo Wangmo County We walked a short distance into the woods and then back down the road. Collected along the roadside . Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618462. *Rubus phoenicolasius* Maxim.**

Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

The following were collected by Clive Simms, Woodhurst, 6 Stamford Rd., Essendine, Stamford, Stamford, England PE9 4LQ, United Kingdom. Received 09/06/1994.

**PI 618463. *Rubus chamaemorus* L.**

Wild. Collected 08/1994 in England, United Kingdom. Latitude 55 deg. 30' N. Longitude 1 deg. 30' W. Elevation 0 m. Kielder Water, Northumberland county, England. Pedigree - collected from the wild in England.

The following were developed by Gene Howard, Cheyenne Hort. Field Station, PO Box 1087, Cheyenne, Wyoming, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 12/13/1994.

**PI 618464. *Rubus strigosus* Michx.**

Cultivar. Plainsman, a new cold-hardy, productive red raspberry. Plainsman, tested as selection 72-1 is from a cross of September x Cheyenne seedling 62-17 (*Rubus idaeus strigosus*). Cheyenne 62-17 is a 3rd generation seedling from plants collected in the wild in Shell Canyon near Greybull, Wyoming, in 1952 and selected for the new-wood, early, summer-fruiting character. Crosses resulting in the two varieties were made in 1964 and the seedlings were grown at Cheyenne, Wyoming, in 1965. Fruit of Plainsman is conic in shape and up to 28 mm in diameter. Color for this variety is medium to deep red and the flesh is medium in firmness. Yield is medium to high. Flavorful as standard raspberries. Fruit is borne on new-wood of the current season's growth and ripens in southeastern Wyoming by the first week of August. First ripe fruit averages 3 to 4 weeks earlier than August Red. The plants are everbearing in nature and the fruiting season lasts for about 6 weeks or until heavy frosts occurs.

The following were developed by Tom Sjulín, Driscoll Strawberry Associates, 404 San Juan Road, Watsonville, California 95076-5399, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 01/31/1995.

**PI 618465. *Rubus idaeus* L.**

Breeding.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 03/24/1995.

**PI 618466. *Rubus floribundus* Kunth**

Wild. WM339. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618467. *Rubus floribundus* Kunth**

Wild. WM343. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618468. Rubus floribundus** Kunth

Wild. WM358A, WM358B. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618469. Rubus floribundus** Kunth

Wild. WM362. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618470. Rubus floribundus** Kunth

Wild. WM378. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618471. Rubus megalococcus** Focke

Wild. WM390. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618472. Rubus briareus** Focke

Wild. WM391. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild in Bolivia.

**PI 618473. Rubus megalococcus** Focke

Wild. WM403. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618474. Rubus nubigenus** Kunth

Wild. WM416B. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild.

**PI 618475. Rubus briareus** Focke

Wild. WM437. Collected 02/26/1995 in Bolivia. Pedigree - collected from the wild in Bolivia.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Developed by Luther Burbank, Santa Rosa, California, United States. Received 07/17/1995.

**PI 618476. Rubus hybrid**

Cultivar. Collected 07/15/1995 in California, United States. Another thornless blackberry selected by Luther Burbank in the 1890's. This is probably not Burbank Thornless. Fruit set was much less. Still growing in the city park that was once Burbank's home. Vigorous growth.

**PI 618477. Rubus hybrid**

Cultivar. Collected 07/15/1995 in California, United States. Albino fruit.

**PI 618478. Rubus hybrid**

Cultivar. Collected 07/15/1995 in California, United States. Very similar to Logan. Probably hexaploid (6x); probably 2n=42.

The following were collected by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; James Luby, University of Minnesota, Department of Horticultural

Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States. Donated by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 09/25/1995.

**PI 618479. *Rubus idaeus* L.**

Wild. Collected 09/03/1995 in Kazakhstan. Latitude 45 deg. 24' 25'' N. Longitude 80 deg. 24' 42'' E. Elevation 1170 m. Kazakhstan, 15 km E of Topolevka, Djungarsky Mountain Range, 3 km E of Topolevka Forestry camp. Site 13, Collection no. 06. Fertile soil; 80 deg slope toward NW; open environment; edge of cliff. Growing on steep bank. Pedigree - collected from the wild in Kazakhstan.

**PI 618480. *Rubus idaeus* L.**

Wild. Collected 09/05/1995 in Kazakhstan. Latitude 45 deg. 31' 14'' N. Longitude 80 deg. 43' 55'' E. Elevation 1360 m. Kazakhstan, 9 km SE of Lepsinsk, 2 km SE of Lepsinsk Forestry camp. Site 14, Collection no. 04. Excellent drainage; 20 deg slope toward E; open environment; near ridge. Pedigree - collected from the wild in Kazakhstan.

The following were collected by Dan Parfitt, USDA, ARS, National Clonal Germplasm Repository, University of California, Davis, California 95616, United States; George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/30/1995.

**PI 618481. *Rubus procerus* P. J. Mull. ex Boulay**

Wild. Collected 09/03/1995 in Turkmenistan. Latitude 38 deg. 24' 11'' N. Longitude 56 deg. 44' 59'' E. Elevation 0 m. Turkmenistan, Valley of Aydere, about 80 km E of Garrygala in the Kopet Dag Mountains. Bank side of stream next to footpath. Pedigree - collection from the wild.

The following were collected by Barbara Reed, USDA, ARS, National Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/12/1993.

**PI 618482. *Rubus occidentalis* L.**

Wild. Collected 07/1993 in Nebraska, United States. Latitude 40 deg. 40' 0'' N. Longitude 95 deg. 53' 0'' W. 2 miles west of Nebraska City on Hwy 2, Otoe Co. Gun Club. Pedigree - Collected from the wild in Nebraska.

**PI 618483. *Rubus occidentalis* L.**

Wild. Collected 07/1993 in Nebraska, United States. Latitude 40 deg. 40' 0'' N. Longitude 95 deg. 53' 0'' W. 2 miles west of Nebraska City on Hwy 2, Otoe Co. Gun Club. Pedigree - Collected from the wild in Nebraska.

**PI 618484. *Rubus occidentalis* L.**

Wild. Collected 07/1993 in Nebraska, United States. Latitude 40 deg. 40' 0'' N. Longitude 95 deg. 53' 0'' W. 2 miles west of Nebraska City on Hwy 2, Otoe Co. Gun Club. Pedigree - Collected from the wild in Nebraska.

The following were collected by Allan Klatt, Alaska Plant Materials Center, Div. of Agric., Dep. of Nat. Resources, Palmer, Alaska 99645, United States. Developed by USDA-SCS Plant Materials Center, Palmer, Alaska, United States.

Donated by USDA-SCS Plant Materials Center, Palmer, Alaska, United States.  
Received 08/16/1993.

**PI 618485. *Rubus arcticus* L. subsp. *arcticus***

Cultivar. "Kenai Carpet"; Nagoonberry. Collected 1976 in Alaska, United States. Latitude 60 deg. 15' N. Longitude 151 deg. 15' W. Elevation 30 m. Origin is from Kenai Peninsula, north side of Tustumena Lake Road, 6 miles south of Kasilof. Pedigree - Originally collected from the wild in Alaska.

The following were developed by USDA, ARS, Tropical Agric. Research Station, P.O. Box 70, Mayaguez, Puerto Rico. Donated by Francisco Vazquez, USDA, ARS, Tropical Agric. Research Station, Box 70, Mayaguez, Puerto Rico. Received 08/27/1993.

**PI 618486. *Rubus niveus* Thunb.**

Cultivated. Collected in Dominican Republic. Collected in the Dominican Republic. Pedigree - collected from the wild. Not cold hardy.

The following were collected by Joseph Postman, USDA, ARS, National Plant Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/27/1993.

**PI 618487. *Rubus arcticus* L. subsp. *arcticus***

Wild. Hatcher-3; Nagoonberry. Collected 08/10/1993 in Alaska, United States. Latitude 61 deg. 45' N. Longitude 149 deg. 15' W. Elevation 610 m. About 15 miles on Hatcher Pass Road before Independence Mine State Park. Tundra, no trees, willow, shrubs, many vaccinium. Pedigree - Collected from the wild in Alaska.

**PI 618488. *Rubus arcticus* L. subsp. *arcticus***

Wild. Summit-3; Nagoonberry. Collected 08/17/1993 in Alaska, United States. Latitude 63 deg. 10' N. Longitude 145 deg. 30' W. Elevation 975 m. Richardson Hwy N of Paxon along E side of Summit Lake, along pipeline access road. Plants from moist area along drainage. Pedigree - Collected from the wild in Alaska.

**PI 618489. *Rubus strigosus* Michx.**

Wild. Nelchina-1. Collected 08/19/1993 in Alaska, United States. Latitude 61 deg. 57' N. Longitude 146 deg. 50' W. Elevation 700 m. Glenn Hwy mile 137.6 in campground at Little Nelchina State Recreation Area. Moist mixed forest area along river. Pedigree - Collected from the wild in Alaska.

The following were collected by Elizabeth Dickson, NYS Agricultural Experiment Station, Horticultural Sciences, Hedrick Hall, Geneva, New York 14456-0462, United States; Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States; Gaylord Mink, Washington State University, Irrigated Agricultural Res. & Ext. Ctr., Route 2, Box 2953-A, Prosser, Washington 99350, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 10/05/1993.

**PI 618490. *Rubus* sp.**

Uncertain. KAZ 93-29-01. Collected 09/1993 in Kazakhstan.

The following were donated by James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States. Received 10/13/1993.

**PI 618491. *Rubus parvifolius* L.**

Wild. Collected in Jiangsu, China. Latitude 33 deg. 0' N. Longitude 120 deg. 0' E. Seed collected from Jiangsu Province, China. Pedigree - collected from the wild. Only seedling germinated from seedlot.

**PI 618492. *Rubus innominatus* S. Moore**

Breeding. *R. innominatus* NC 176. Collected in Jiangxi, China. Pedigree - Open-pollinated seedling from Jiangxi. Large fruited breeding selection from OP seed from Jiangxi, China.

**PI 618493. *Rubus innominatus* S. Moore**

Breeding. *R. innominatus* NC 177. Collected in Jiangxi, China. Pedigree - Open-pollinated seedling from Jiangxi. Breeding selection from OP seed from Jiangxi, China.

**PI 618494. *Rubus hirsutus* Thunb.**

Breeding. *R. hirsutus* NC 185. Collected in Jiangsu, China. Pedigree - Open-pollinated seedling from Jiangsu. Largest fruit size from seedlings from OP seed from Jiangsu, China.

The following were collected by Joe Voges, Naturecraft Studio, 925 4th Corso, Nebraska City, Nebraska 68410-2864, United States. Received 12/03/1993.

**PI 618495. *Rubus occidentalis* L.**

Wild. Collected 11/1993 in Nebraska, United States. Latitude 40 deg. 40' N. Longitude 95 deg. 52' W. Elevation 200 m. Otoe County Wildlife Club, 1 1/2 miles west of Nebraska City. Pedigree - Collected from the wild in Nebraska.

The following were donated by Rick Valley, Northern Groves Nursery, P.O. Box 86291, Portland, Oregon 97286-0291, United States. Received 06/21/1993.

**PI 618496. *Rubus irenaeus* Focke**

Cultivated. Collected in China. Pedigree - selection of *R. irenaeus*. May be identical to RUB 1607.001.

The following were donated by USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 02/01/1994.

**PI 618497. *Rubus caesius* L.**

Cultivated. Developed in Unknown. This plant has been in tissue culture and used by Barbara Reed (NCGR-Corvallis) for various experiments. Reference CRUB 814 (IDX).

The following were developed by Imperial Sugarcane Breeding Station, Lawley

Road, Coimbatore, Tamil Nadu, India. Donated by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 04/01/1994.

**PI 618498. *Rubus* sp.**

Cultivar. Pedigree - selection of Texas dewberry. Southern dewberry selected for SE climate.

The following were donated by James Glen Melcher, PO Box 883, Tioga, Louisiana 71477, United States. Received 04/01/1994.

**PI 618499. *Rubus* sp.**

Cultivar. Developed in United States. Southern dewberry selected for SE climate.

The following were collected by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States; James Luby, University of Minnesota, Department of Horticultural Science, 342 Alderman Hall, St. Paul, Minnesota 55108, United States; Ted Mackey, Horticultural Crops Research Laboratory, 3420 Orchard St., Corvallis, Oregon 97330, United States; Herb Hoover, University of Minnesota, St. Paul, Minnesota, United States; Rick Harrison, University of Minnesota, Department of Horticultural Science, 1970 Folwell Avenue, St. Paul, Minnesota 55108-6007, United States. Donated by Chad Finn, USDA, ARS, NW Center for Small Fruits Research, 3420 NW Orchard Street, Corvallis, Oregon 97339, United States. Received 08/31/1993.

**PI 618500. *Rubus spectabilis* Pursh**

Wild. Collected 08/09/1993 in Washington, United States. Latitude 48 deg. N. Longitude 124 deg. W. Elevation 610 m. T30N R10W Sec. 15; Olympic National Forest, along FR 3040. Very steep hillside, clear cut. Collected on south (uphill) side of the road.

The following were collected by Thomas A. Lumpkin, Washington State University, Department of Crop and Soil Science, 261 Johnson Hall, Pullman, Washington 99164-6420, United States. Received 08/05/1992.

**PI 618501. *Rubus parvifolius* L.**

Wild. 9; raspberry = malina. Collected 07/27/1992 in Russian Federation. Latitude 44 deg. 10' 0'' N. Longitude 146 deg. E. Kunashiri Island. Pedigree - Collected from the wild in Russia. Coll. N. Probatova 2N = 14.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 08/17/1992.

**PI 618502. *Rubus spectabilis* Pursh**

Wild. Collected 08/01/1992 in Alaska, United States. Latitude 57 deg. 2' 0'' N. Longitude 135 deg. 18' 0'' W. Sitka, Alaska - along waterfront below Sheldon Jackson Coll. Pedigree - Collected from the wild in Alaska.

**PI 618503. *Rubus pedatus* Sm.**

Wild. Collected 08/09/1992 in Alaska, United States. Latitude 57 deg. 2' 0'' N. Longitude 135 deg. 18' 0'' W. Sitka, Alaska - woods around Sheldon Jackson College. Pedigree - collected from the wild.

The following were collected by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Received 10/14/1992.

**PI 618504. *Rubus strigosus* Michx.**

Wild. Collected 1992 in British Columbia, Canada. Latitude 55 deg. 54' 0'' N. Longitude 129 deg. 59' 0'' W. Elevation 2900 m. Near Stewart, BC at Black Water Lake. Pedigree - Collected from the wild in Canada.

The following were donated by John D.Jr. Avery, Southwest Missouri State University, Shepard Hall 012, 901 S. National Ave., Springfield, Missouri 65804-0087, United States. Received 10/02/1992.

**PI 618505. *Rubus occidentalis* L.**

Cultivar. "Somo". Collected in Missouri, United States. Pedigree - selection of black raspberry.

The following were developed by Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu, China. Received 11/02/1992.

**PI 618506. *Rubus* sp.**

Wild. Collected 09/15/1992 in Guizhou, China. Latitude 28 deg. 24' 0'' N. Longitude 106 deg. 15' 0'' E. Elevation 1500 m. Xishui County. Pedigree - Collected from the wild in China. Fruit black.

**PI 618507. *Rubus* sp.**

Wild. Collected 09/1992 in Sichuan, China. Latitude 28 deg. 17' 0'' N. Longitude 105 deg. 21' 0'' E. Elevation 1150 m. Xuyong County. Pedigree - Collected from the wild in China. Fruit black.

**PI 618508. *Rubus setchuenensis* Bureau & Franch.**

Wild. Collected 09/20/1992 in Guizhou, China. Latitude 27 deg. 19' 0'' N. Longitude 105 deg. 22' 0'' E. Elevation 1590 m. Bijie County. Pedigree - Collected from the wild in China. Fruit black.

**PI 618509. *Rubus niveus* Thunb.**

Wild. Collected 09/26/1992 in Guizhou, China. Latitude 26 deg. 42' 0'' N. Longitude 104 deg. 49' 0'' E. Elevation 1750 m. Shuicheng County. Pedigree - Collected from the wild in China. Fruit black.

**PI 618510. *Rubus lambertianus* Ser.**

Wild. Collected 09/28/1992 in Guizhou, China. Latitude 26 deg. 50' 0'' N. Longitude 105 deg. 17' 0'' E. Elevation 1350 m. Nayong County. Pedigree - Collected from the wild in China. Fruit orange.

**PI 618511. *Rubus hunanensis* Hand.-Mazz.**

Wild. Collected 10/03/1992 in Guizhou, China. Latitude 26 deg. 23' 0'' N. Longitude 108 deg. 4' 0'' E. Elevation 1350 m. Leishan County. Pedigree - Collected from the wild in China. Fruit orange red.

The following were developed by Pasquale Rosati, Universita degli Studi di Ancona, Dipartimento di Biotechnologie Agrarie, Via Brecce Bianche-Segreteria, Ancona, Marches 60131, Italy. Donated by Andrew R. Jamieson, Agriculture and Agri-Food Canada, Atlantic Food and Horticulture Research Centre, 32 Main St., Kentville, Nova Scotia B4N 1J5, Canada. Received 12/01/1992.

**PI 618512. *Rubus* hybrid**

Breeding. Rosati-Jamieson Logan Thornless. Pedigree - F2 of Rosati-Jamieson Logan Thornless. Interspecific *Rubus* O.P. of O.P. from Rosati. Said to be 6x.

**PI 618513. *Rubus* hybrid**

Breeding. Rosati-Jamieson Logan Thornless. Pedigree - Cold hardy Logan Thornless seedling selections. Interspecific *Rubus* O.P. of O.P. from Rosati. Said to be 6x.

The following were developed by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 11/09/1992.

**PI 618514. *Rubus* hybrid**

Breeding. ORUS 1683. Pedigree - Olallie x ORUS 1361 (ORUS 1083 x NC 37-35-M2). Thornless, black, crown gall susceptible, trailing.

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Developed by Toyama University, Department of Biology, Faculty of Science, Gokufu, Toyama 930, Japan. Received 02/11/1993.

**PI 618515. *Rubus lambertianus* Ser.**

Cultivated. Collected 02/02/1993 in Japan. Latitude 36 deg. 42' 0'' N. Longitude 137 deg. 14' 0'' E. Toyama University (Nagasaki-ken, Shaimabara-shi, Mayu-yama). Lat/lon = Toyama. Pedigree - Cultivated plants originally collected in the wild in Japan.

The following were developed by Arnold Arboretum of Harvard University, 125 Arborway, Jamaica Plain, Massachusetts 02130-3500, United States. Received 02/22/1993.

**PI 618516. *Rubus odoratus* L.**

Cultivated. Collected in United States. Pedigree - collected from the wild.

The following were donated by Harvey K. Hall, Crop Research Division, DSIR, Riwaka Research Station, Rd 3, Motueka, South Island, New Zealand. Received 06/18/1993.

**PI 618517. *Rubus* sp.**

Wild. Collected in Australia. Latitude 28 deg. 58' S. Longitude 168 deg. 3' E. Norfolk Island, north of New Zealand. Pedigree - Collected from the wild on Norfolk Island (Australia).

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 07/02/1992.

**PI 618518. *Rubus lasiococcus* A. Gray**

Wild. Collected 06/25/1992 in Oregon, United States. Latitude 43 deg. 45' 0'' N. Longitude 122 deg. 25' 0'' W. Elevation 1830 m. Bachelor Mtn, Willamette Nat'l Forest, mixed conifer forest. Pedigree - Collected from the wild in Oregon.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Deshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618519. *Rubus coreanus* Miq.**

Wild. 92152; *R. coreanus*. Collected 06/07/1992 in Guizhou, China. Latitude 26 deg. 23' N. Longitude 109 deg. 9' E. Elevation 431 m. Dong Fang Forest Farm 25 km northeast of Liping Arboretum and Experimental plantings. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618520. *Rubus coreanus* Miq.**

Wild. 92216; *R. coreanus*. Collected 06/26/1992 in Guizhou, China. Latitude 26 deg. 20' N. Longitude 106 deg. 40' E. Elevation 1046 m. About 42 km south of Guiyang, just north of Chi Tu village. Beside road. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618521. *Rubus eustephanos* Focke ex Diels**

Wild. 92022; *R. eustephanos*. Collected 05/21/1992 in Guizhou, China. Latitude 27 deg. 49' N. Longitude 108 deg. 45' E. Elevation 650 m. In the vicinity (within 1 km) of the Ecological Station in Fanjing Shan Nature Preserve, about 27 km NW of Jiangkuo, Kiangkuo County. Very steep mountains, heavily vegetated Near Hei Wan River. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618522. *Rubus multibracteatus* H. Lev. & Vaniot**

Wild. 92198; *R. multibracteatus*. Collected 06/23/1992 in Guizhou, China. Latitude 25 deg. 0' N. Longitude 105 deg. 46' E. Elevation 861 m. a few km west of Ceheng (just past Ceyang). This species is common in this region. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618523. *Rubus multibracteatus* H. Lev. & Vaniot**

Wild. 92218; *R. multibracteatus*. Collected 06/24/1992 in Guizhou, China. Latitude 25 deg. 7' N. Longitude 106 deg. 1' E. Elevation 861 m. An Mao Ao village, 25 km SW of Wangmo, Wangmo County We walked a short distance into the woods and then back down the road. Plants beside road.

Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618524. *Rubus niveus* Thunb.**

Wild. 92172; *R. niveus*. Collected 06/19/1992 in Guizhou, China. Latitude 25 deg. 2' N. Longitude 105 deg. 27' E. Elevation 1357 m. Zao Ti Park in Anlong, Anlong County. Plants growing by an irrigation channel in partial shade. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618525. *Rubus parvifolius* L.**

Wild. 92117; *R. parvifolius*. Collected 06/01/1992 in Guizhou, China. Latitude 26 deg. 30' N. Longitude 108 deg. 10' E. Elevation 840 m. Drive 43 km northeast from Leishan collected in the vicinity of Xijiang town in Leigong Nature Preserve, Leichan County. cool, subtropical, mountainous vegetation, mostly shrubby with scattered large trees. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618526. *Rubus parvifolius* L.**

Wild. 92131; *R. parvifolius*. Collected 06/04/1992 in Guizhou, China. Latitude 25 deg. 42' N. Longitude 108 deg. 48' E. Elevation 410 m. Drive from Rongjiang to Congjiang, Congjiang County 10 km west of Congjiang. The region is extensively cultivated or too steep for access so government official needed to help collect. collection along a trail up a creek valley dense vegetation : low shrubs, ferns, small trees. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618527. *Rubus parvifolius* L.**

Wild. 92136; *R. parvifolius*. Collected 06/05/1992 in Guizhou, China. Latitude 25 deg. 38' N. Longitude 108 deg. 58' E. Elevation 492 m. About 10 km south of Xi Shan, near Bei Meng village, along roadside. Moist, subtropical forest. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618528. *Rubus parvifolius* L.**

Wild. 92151; *R. parvifolius*. Collected 06/07/1992 in Guizhou, China. Latitude 26 deg. 23' N. Longitude 109 deg. 9' E. Elevation 461 m. Dong Fang Forest Farm 25 km northeast of Liping Arboretum and Experimental plantings. small plants growing among the grass and weeds in open exposed areas of the arboretum. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618529. *Rubus parvifolius* L.**

Wild. 92220; *R. parvifolius*. Collected 06/03/1992 in Guizhou, China. Latitude 25 deg. 7' N. Longitude 106 deg. 1' E. Elevation 861 m. An Mao Ao village 25 km SW of Wanagmo, Wangmo County Walked a short distance into the woods and then back down the road. on side of road through a mixed forest. Many plants of these species along roadside. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618530. *Rubus parvifolius* L.**

Wild. 92300; *R. parvifolius*. Collected 06/04/1992 in Guizhou, China. Latitude 25 deg. 42' N. Longitude 108 deg. 48' E. Elevation 410 m. 8 km west of Congjiang, in Congjiang County. Plants hanging down a bank in shade, beside road. Pedigree - Collected from the wild in China.

Additional information is forthcoming.

**PI 618531. *Rubus parvifolius* L.**

Wild. 92301; *R. parvifolius*. Collected 06/18/1992 in Guizhou, China. Latitude 25 deg. 8' N. Longitude 104 deg. 57' E. Elevation 1342 m. Drive to trailhead of Ma Li River Gorge trail about 8 km northeast of Xingyi, Xingyi county. Walk down into canyon and long a trail on the face of the cliff near trailhead. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618532. *Rubus swinhoei* Hance**

Wild. 92138; *R. swinhoei*. Collected 06/05/1992 in Guizhou, China. Latitude 25 deg. 38' N. Longitude 108 deg. 58' E. Elevation 581 m. 10 km south of Xi Shan. moist subtropical forest. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618533. *Rubus swinhoei* Hance**

Wild. 92147; *R. swinhoei*. Collected 06/07/1992 in Guizhou, China. Latitude 26 deg. 8' N. Longitude 109 deg. 5' E. Elevation 677 m. Shi Jin Shan Forest Farm about 20 km wouth west of Liping. extension reforestation. Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618534. *Rubus tsangorum* Hand.-Mazz.**

Wild. 92304; *R. tsangorum*. Collected 07/03/1992 in Guizhou, China. Latitude 32 deg. 2' N. Longitude 118 deg. 47' E. Elevation 0 m. Nanjing Botanical Garden, Nanjiing. Pedigree - Collected from the wild in China . Additional information is forthcoming.

The following were collected by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Judith Young, Unknown; Gong Deshen, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Shi Shengde, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; De Sheng Wei, Guizhou Botanical Garden, Liuchongguan, Guiyang, Guizhou 550001, China; Cheng Xiang Wang, Guizhou Botanical Garden, Guizhou Academy of Science, Liuchongguan, Guiyang, Guizhou 550001, China. Donated by Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Received 07/21/1992.

**PI 618535. *Rubus* sp.**

Wild. 92169; *R. sp.*. Collected 06/19/1992 in Guizhou, China. Latitude 25 deg. 2' N. Longitude 105 deg. 23' E. Elevation 1268 m. drive from Xingyi to Anlong, Anlong County near Wen Jia Po village, about 6 km west of Anlong. open rocky slope beside road with scattered shrubs. Pedigree - Collected from the wild in China. Additional information is forthcoming.

**PI 618536. *Rubus* sp.**

Wild. 92188; *R. sp.*. Collected 06/21/1992 in Guizhou, China. Latitude 25

deg. 0' N. Longitude 105 deg. 38' E. Elevation 1660 m. drive 28 km southeast from Anlong to Shi Pan village Hiked around Xian He Ping Mountain. high on Xian He Ping Mountain. Pedigree - Collected from the wild in China. Additional information is forthcoming.

The following were developed by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Received 11/20/1991.

**PI 618537. *Rubus macvaughianus* Rzed. & Calderon**

Breeding. 90-35-11. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

**PI 618538. *Rubus macvaughianus* Rzed. & Calderon**

Breeding. 90-35-12. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

**PI 618539. *Rubus macvaughianus* Rzed. & Calderon**

Breeding. 90-35-14. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

The following were developed by USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Richard H. Converse, USDA/ARS, Oregon State University, Dept. Botany & Plant Pathology, Corvallis, Oregon, United States. Received 11/16/1983.

**PI 618540. *Rubus lambertianus* var. *glaber* Hemsl.**

Breeding. Collected in China. Pedigree - Increased seed from Chinese seedling selection CRUB 429. (This accession was part of the PL,SD 'breakout' - 1992).

The following were collected by J. Scott Cameron, Washington State University, Research & Extension Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Developed by Washington State University, SW Washington Research Unit, 1919 NE 78th St., Vancouver, Washington 98665, United States. Received 02/25/1992.

**PI 618541. *Rubus idaeus* L.**

Breeding. 2 SIM 1D. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Yellow fruit.

**PI 618542. *Rubus idaeus* L.**

Breeding. 2 SIM 1C. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Red fruit.

**PI 618543. *Rubus procerus* P. J. Mull. ex Boulay**

Breeding. 2 PAI 1A. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

**PI 618544. *Rubus procerus* P. J. Mull. ex Boulay**

Breeding. 2 PAI 1B. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

**PI 618545. *Rubus procerus*** P. J. Mull. ex Boulay  
Breeding. 2 PAI 1C. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

**PI 618546. *Rubus procerus*** P. J. Mull. ex Boulay  
Breeding. 2 BIO 1A. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

**PI 618547. *Rubus procerus*** P. J. Mull. ex Boulay  
Breeding. 2 GOR 1A. Collected 02/1992 in Chile. Pedigree - Selected from the wild from Chile. Collection information is forthcoming.

The following were collected by Robert Skirvin, University of Illinois, Dept of Horticulture, 258 Plant and Animal Biotech. Lab., Urbana, Illinois 61801, United States. Received 04/20/1992.

**PI 618548. *Rubus laciniatus*** Willd.  
Wild. Collected 03/08/1992 in Victoria, Australia. Latitude 38 deg. 2' 0'' S. Longitude 145 deg. 54' 0'' E. Jindivic. Pedigree - Collected from the wild in Australia. Probably the same species found in Oregon. Could be useful for genetic comparisons in future studies.

The following were donated by Dan Hinkley, Heronswood Nursery, 7530 288th NE, Kingston, Washington 98346, United States. Received 06/29/1992.

**PI 618549. *Rubus lambertianus* var. *glaber*** Hemsl.  
Cultivated. Collected in China. Pedigree - Uncertain, from botanical collection.

**PI 618550. *Rubus irenaeus*** Focke  
Cultivated. Collected in China. Pedigree - Uncertain, from botanical collection.

**PI 618551. *Rubus microphyllus* var. *subcrataegifolius*** (H. Lev. & Vaniot) Ohwi  
Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

**PI 618552. *Rubus nepalensis*** (Hook. f.) Kuntze  
Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

**PI 618553. *Rubus palmatus* var. *coptophyllus*** (A. Gray) Koidz.  
Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

**PI 618554. *Rubus parvifolius*** L.  
Cultivated. Collected in Unknown. Pedigree - Uncertain, from botanical collection.

The following were collected by Wes Messinger, Oregon State University, Dept. Horticulture, Corvallis, Oregon 97331, United States. Received 07/02/1992.

**PI 618555. *Rubus lasiococcus* A. Gray**

Wild. Collected 06/25/1992 in Oregon, United States. Latitude 43 deg. 16' 0'' N. Longitude 122 deg. 39' 0'' W. Elevation 1830 m. Bachelor Mtn, Willamette Nat'l Forest, mixed conifer forest. Pedigree - Collected from the wild in Oregon.

**PI 618556. *Rubus lasiococcus* A. Gray**

Wild. Collected 06/25/1992 in Oregon, United States. Latitude 43 deg. 16' 0'' N. Longitude 122 deg. 39' 0'' W. Elevation 1830 m. Bachelor Mtn, Willamette Nat'l Forest, mixed conifer forest. Pedigree - Collected from the wild in Oregon.

**PI 618557. *Rubus lasiococcus* A. Gray**

Wild. Collected 06/25/1992 in Oregon, United States. Latitude 43 deg. 16' 0'' N. Longitude 122 deg. 39' 0'' W. Elevation 1830 m. Bachelor Mtn, Willamette Nat'l Forest, mixed conifer forest. Pedigree - Collected from the wild in Oregon.

The following were developed by Luther Burbank, Santa Rosa, California, United States. Donated by Lon J. Rombough, 13113 Ehlen Road, P.O. Box 365, Aurora, Oregon 97002, United States. Received 07/17/1991.

**PI 618558. *Rubus hybrid***

Cultivar. "Snowbank". Pedigree - white fruited mutant of blackberry.

The following were developed by Peter H. Tallman, 5690 Steeplechase Dr., Longmont, Colorado 80503, United States. Received 07/22/1991.

**PI 618559. *Rubus occidentalis* L.**

Breeding. Pedigree - Open-pollinated seed of seedling selection from the wild. Fallbearing black raspberry which also fruits normally on floricanes the following summer. Quality similar to wild.

**PI 618560. *Rubus occidentalis* L.**

Breeding. Pedigree - Open-pollinated seed of seedling selection from the wild. 'White-fruited' type of black raspberry, berry ripens to a dirty orange color. Floricanes are green. Poor quality.

The following were developed by Francis J. Lawrence, USDA/ARS/NCGR-Corvallis, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Donated by Elzibeth Volk, Oregon State University, Dept. Botany and Plant Path., Corvallis, Oregon 97331, United States. Received 02/1991.

**PI 618561. *Rubus hybrid***

Breeding. ORUS 1826 ORUSM 271. Pedigree - Uncertain.

The following were developed by Hugh A. Daubeny, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Received 07/18/1991.

**PI 618562. *Rubus leucodermis* Douglas ex Torr. & A. Gray**

Breeding. 90-34. Pedigree - collected from the wild. No additional

information provided upon receipt.

The following were collected by Raul Castillo, Instituto Nacional de Investigaciones Agropecuarias, Departamento de Recursos, Fitogeneticos, Estacion Experimental, Quito, Pichincha, Ecuador; David Spooner, USDA, ARS, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States. Donated by George A. White, USDA, ARS, National Germplasm Repository, University of California, Davis, California 95616, United States. Received 08/05/1991.

**PI 618563. *Rubus* sp.**

Wild. Collected 1991 in Ecuador. Pedigree - Collected from the wild in Ecuador. Passport data not received.

**PI 618564. *Rubus* sp.**

Wild. Collected 1991 in Ecuador. Pedigree - Collected from the wild in Ecuador. Passport data not received.

**PI 618565. *Rubus* sp.**

Wild. Collected 1991 in Ecuador. Pedigree - Collected from the wild in Ecuador. Passport data not received.

The following were collected by Margaret M. Stahler, USDA/SCS, Plant Materials Center, 3415 NE Granger, Corvallis, Oregon 97333, United States; James R. Ballington, North Carolina State University, Department of Horticultural Sciences, Box 7609, Raleigh, North Carolina 27695-7609, United States; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States; Maxine Thompson, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States. Donated by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/25/1991.

**PI 618566. *Rubus hispidus* L.**

Wild. Running Blackberry, Swamp Blackberry, Sw. Collected 07/23/1991 in Pennsylvania, United States. Latitude 40 deg. 44' 0'' N. Longitude 77 deg. 46' 0'' W. Near a bog in Bear Meadows, halfway down the hill. Pedigree - Collected from the wild in Pennsylvania. (This accession was part of the PL,SD 'breakout' - 1992).

**PI 618567. *Rubus odoratus* L.**

Wild. Red-flowering Raspberry, Purple-flowerin. Collected 07/23/1991 in Pennsylvania, United States. Latitude 40 deg. 44' 0'' N. Longitude 77 deg. 46' 0'' W. Near a bog in Bear Meadows, halfway down the hill. Pedigree - Collected from the wild in Pennsylvania. (This accession was part of the PL,SD 'breakout' - 1992).

The following were collected by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan; Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Naohiro Naruhashi, Toyama University, Department of Biology, Faculty of Science, Toyama, Toyama 930, Japan. Received 08/30/1991.

**PI 618568. *Rubus ikenoensis* H. Lev. & Vaniot**

Wild. Collected 08/20/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1900 m. Mt. Tateyama, Tateyama-machi, Nakaniikawa-gun, Toyama Pref. Pedigree - Collected from the wild in Japan.

**PI 618569. *Rubus illecebrosus* Focke**

Wild. Collected 08/21/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1600 m. Hirayu, foot of Mt. Norikura-dake, Nyukawa-mura, Yoshiki-gun. Pedigree - Collected from the wild in Japan.

**PI 618570. *Rubus parvifolius* L.**

Wild. Nawashiro-ichigo. Collected 08/19/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 100 m. Ikakeyama, Enotomari-cho, Nano-shi, Ishikawa Prefecture. Pedigree - Collected from the wild in Japan.

**PI 618571. *Rubus phoenicolasius* Maxim.**

Wild. Collected 08/21/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 500 m. Kuzuyama, Kamitakara-mura, Kibi-gun, Gifu Prefecture. Pedigree - Collected from the wild in Japan.

**PI 618572. *Rubus microphyllus* var. *subcrataegifolius* (H. Lev. & Vaniot) Ohwi**

Wild. Collected 08/21/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 1600 m. Hirayu, Mt. Norikura-dake, Nyukawa-mura, Yoshiki-gun, Gifu. Pedigree - Collected from the wild in Japan.

**PI 618573. *Rubus trifidus* Thunb.**

Wild. Collected 08/19/1991 in Honshu, Japan. Latitude 36 deg. 30' N. Longitude 136 deg. 30' E. Elevation 5 m. Matsudaehama, Himi City, Toyama Prefecture. Pedigree - Collected from the wild in Japan.

The following were collected by Robert Skirvin, University of Illinois, Dept of Horticulture, 258 Plant and Animal Biotech. Lab., Urbana, Illinois 61801, United States. Received 11/01/1991.

**PI 618574. *Rubus cissoides* A. Cunn.**

Wild. Bush Lawyer. Collected 10/02/1991 in New Zealand. Latitude 41 deg. 18' S. Longitude 173 deg. 16' E. Sylvia Flats, along Rt. 7 to Nelson. Pedigree - Collected from the wild in New Zealand. Tip layer from a large specimen that was growing over a native bush.

The following were collected by He Shan An, Nanjing Botanical Garden, Mem. Sun Yat-Sen, Nanjing, Jiangsu 21004, China. Received 11/15/1991.

**PI 618575. *Rubus hirsutus* Thunb.**

Cultivated. Collected in Jiangsu, China. Pedigree - Uncertain, from botanical collection. No additional information provided.

The following were developed by Hugh A. Daubeney, Agriculture Canada, Vancouver Experiment Station, 6660 N.W. Marine Drive, Vancouver, British Columbia V6T 1X2, Canada. Received 11/20/1991.

**PI 618576. *Rubus macvaughianus*** Rzed. & Calderon  
Breeding. 90-35-1. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

**PI 618577. *Rubus macvaughianus*** Rzed. & Calderon  
Breeding. 90-35-6. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

**PI 618578. *Rubus macvaughianus*** Rzed. & Calderon  
Breeding. 90-35-8. Collected in Mexico. Pedigree - Seedling selection from seedlot collected in Mexico. Selected for resistance to the aphid vector of the raspberry mosaic virus complex, at Abbotsford.

The following were developed by Bruce H. Barritt, Washington State University, Tree Fruit Research & Extension Ctr., 1100 N. Western Avenue, Wenatchee, Washington 98801, United States. Received 03/18/1981.

**PI 618579. *Rubus procerus*** P. J. Mull. ex Boulay  
Breeding. Collected in Russian Federation. Original seedlot collected by J.W. Hull in the North Caucasus.

**PI 618580. *Rubus procerus*** P. J. Mull. ex Boulay  
Breeding. Collected in Russian Federation.

The following were donated by T. Righetti, Oregon State University, Cordley Hall Room 2042, Corvallis, Oregon 97331, United States. Received 04/25/1983.

**PI 618581. *Rubus ellipticus*** Sm.  
Uncertain. Collected in Unknown. Pedigree - Unknown, possibly collected wild?. (This accession was part of the PL,SD 'breakout' - 1992).

The following were developed by D.L. Jennings, Scottish Crop Research Inst., Invergowrie, Scotland, United Kingdom. Donated by Jo Ann Robbins, Washington State University, Research and Extension Center, 7612 Pioneer Way East, Puyallup, Washington 98371, United States. Received 04/08/1988.

**PI 618582. *Rubus idaeus*** L.  
Cultivar. "Glen Moy"; CANADA RUB0126. Pedigree - Complex of several cultivars. Spine-free, good fruit size and flavor.

The following were donated by Daniel Murphy, North Star Surfaces, 23 Empire Dr., Suite 1000, St. Paul, Minnesota 55103, United States. Received 06/13/1991.

**PI 618583. *Rubus idaeus*** L.  
Cultivar. "Century". Developed in Uncertain. Pedigree - Uncertain.

The following were collected by Kim Hummer, USDA, ARS, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United

States. Received 07/01/1991.

**PI 618584. *Rubus spectabilis* Pursh**

Wild. Salmonberry. Collected in Oregon, United States. Latitude 44 deg. 50' N. Longitude 123 deg. 40' W. Elevation 300 m. Polk Co., 1 m. west of Pedee near Monmouth Peak. Pedigree - Collected from the wild in Oregon. Collected near the bank of the Luckiamute River.

The following were collected by S. Sankar, Kerala Forest Research Institute, Peechi Thrissur District, Kerala 680 653, India. Donated by Ann E. Russell, Iowa State University, Botany Department, 353 Bessey Hall, Ames, Iowa 50011-1020, United States. Received 09/13/1997.

**PI 618585. *Amaranthus hypochondriacus* L.**

Landrace. Ames 23941. Collected 09/1997 in Kerala, India. Latitude 11 deg. 5' 0'' N. Longitude 76 deg. 35' 0'' E. Attappadi Valley in the Western Ghats. Pedigree - This accession is unusual for being a grain-type that originates so far south in India. David Brenner. Used in popcorn.

The following were donated by Rogers Brothers Seed Company, P.O. Box 4727, Boise, Idaho 83711-0727, United States. Received 1967.

**PI 618586. *Pisum sativum* L.**

Cultivated. "SPARKLE"; NSL 53058. 60 days to maturity. Early freezer. Vine 18". Pod 3-1/4". Dark. Blunt. 50% doubled. Seed large. Wrinkled. Good yield.

The following were developed by A. Doug Brede, J.R. Simplot Co., 5300 West Riverbend Avenue, Post Falls, Idaho 83854-9499, United States; S.H. Samudio, J.R. Simplot Co., 5300 West Riverbend Avenue, Post Falls, Idaho 83854-9499, United States. Received 04/09/2001.

**PI 618587. *Cynodon dactylon* (L.) Pers.**

Cultivar. "SUNDEVIL II"; J-1223. CV-41. Pedigree - Synthetic developed from the maternal progenies of five clones, selected from old turf areas in Walla Walla, WA in 1987, Atoka, OK in 1988 and Jackson, TN in 1989. One of these clones was also used in the development of Jackpot. Attractive, uniform, moderately low growing, seed-propagated variety that has a medium-dark green color, medium-fine texture, and high density. In turf trials, demonstrated improved frost tolerance, drought tolerance to dormancy, and color recovery after dormancy. Improvements over Arizona common in turf quality, color, leaf texture, spring, summer, and winter density. Reproductive fertility in seed production is good. Average seedhead contains 4 to 5 racemes but is smaller in size than Jackpot's. Seedheads have purplish cast at maturity. Heading rate estimated at 50% on April 12 and over 90% on April 18, 1995, near Dome Valley, AZ.

The following were developed by Virginia Tech Intellectual Properties, Inc., Virginia, United States. Received 04/20/2001.

**PI 618588 PVPO. *Triticum aestivum* L.**

Cultivar. "766". PVP 200100134.

The following were developed by Central Valley Seeds, Inc., United States.  
Received 04/20/2001.

**PI 618589 PVPO. *Lactuca sativa* L.**  
Cultivar. "THERMO COS". PVP 200100135.

The following were developed by Holden's Foundation Seeds, Inc., United States. Received 04/20/2001.

**PI 618590 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH246". PVP 200100136.

**PI 618591 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH254". PVP 200100137.

**PI 618592 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH295". PVP 200100138.

**PI 618593 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH310". PVP 200100139.

**PI 618594 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH320". PVP 200100140.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 04/20/2001.

**PI 618595 PVPO. *Brassica napus* L.**  
Cultivar. "45A55". PVP 200100141.

**PI 618596 PVPO. *Brassica napus* L.**  
Cultivar. "46A42". PVP 200100142.

The following were developed by Mitsubishi Chemical Corporation, Tokyo, Tokyo, Japan. Received 04/20/2001.

**PI 618597 PVPO. *Oryza sativa* L.**  
Cultivar. "YUMEIPPAI". PVP 200100143.

The following were developed by Cebeco International Seeds, Inc., P.O. Box 229, Halsey, Oregon 97348-0229, United States. Received 04/20/2001.

**PI 618598 PVPO. *Festuca arundinacea* Schreb.**  
Cultivar. "ISI-TF 23". PVP 200100145.

The following were developed by Syngenta Seeds, Inc., United States. Received 04/20/2001.

**PI 618599 PVPO. *Phaseolus vulgaris* L.**

Cultivar. "CHARON". PVP 200100146.

The following were developed by Delta and Pine Land Company, Scott, Mississippi, United States. Received 04/20/2001.

**PI 618600 PVPO. *Gossypium hirsutum* L.**

Cultivar. "PM 2379 RR". PVP 200100150.

**PI 618601 PVPO. *Gossypium hirsutum* L.**

Cultivar. "SURE-GROW 150BR". PVP 200100151.

**PI 618602 PVPO. *Gossypium hirsutum* L.**

Cultivar. "SURE-GROW 521BR". PVP 200100152.

**PI 618603 PVPO. *Gossypium hirsutum* L.**

Cultivar. "SURE-GROW 150R". PVP 200100153.

**PI 618604 PVPO. *Gossypium hirsutum* L.**

Cultivar. "SURE-GROW 521R". PVP 200100154.

**PI 618605 PVPO. *Gossypium hirsutum* L.**

Cultivar. "SG 215 BG/RR". PVP 200100155.

The following were developed by Seminis Vegetable Seeds, Inc., Woodland, California, United States. Received 04/20/2001.

**PI 618606 PVPO. *Pisum sativum* L.**

Cultivar. "EARLY SWEET 414". PVP 200100156.

The following were developed by Novel Ag, Inc., United States. Received 04/20/2001.

**PI 618607 PVPO. *Poa pratensis* L.**

Cultivar. "HALLMARK". PVP 200100157.

**PI 618608 PVPO. *Poa pratensis* L.**

Cultivar. "WELLINGTON". PVP 200100158.

The following were developed by Delta and Pine Land Company, Scott, Mississippi, United States. Received 04/20/2001.

**PI 618609 PVPO. *Gossypium hirsutum* L.**

Cultivar. "DP 491". PVP 200100159.

**PI 618610 PVPO. *Gossypium hirsutum* L.**

Cultivar. "DELTA TOPAZ". PVP 200100161.

The following were developed by Syngenta Seeds, Inc., United States. Received 04/20/2001.

**PI 618611 PVPO. *Triticum aestivum* L.**

Cultivar. "COKER 9025". PVP 200100162.

The following were developed by Advanta USA, Inc., United States. Received 04/20/2001.

**PI 618612 PVPO. *Gossypium hirsutum* L.**  
Cultivar. "PM 2156 RR". PVP 200100163.

The following were developed by Minnesota Agricultural Experiment Station, St. Anthony Park, Minnesota, United States. Received 04/20/2001.

**PI 618613 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "MN0902CN". PVP 200100113.

The following were developed by South Dakota Agric. Exp. Station, Highmore, South Dakota, United States. Received 04/20/2001.

**PI 618614 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "SD1091RR". PVP 200100160.

The following were developed by John L. Caddel, Oklahoma State University, Oklahoma Cooperative Extension Service, Department of Agronomy, Stillwater, Oklahoma 74078-0507, United States; Ali A. Zarrabi, Oklahoma State University, Department of Entomology & Plant Pathology, 127 Noble Research Center, Stillwater, Oklahoma 74078-0464, United States; J.D. Prater, Oklahoma State University, Dept. of Plant & Soil Sciences, Stillwater, Oklahoma 74078-6028, United States. Received 04/09/2001.

**PI 618615. *Medicago sativa* L.**  
Cultivar. "OK 169". CV-200. Pedigree - A blend of seed of seven strains each of which was the result of interpollination of the best entries in field evaluations. Parentage includes: 555, Cimarron, OK 51, OK 49, 630, 655, 624, 636, 5432, Archer, DK 135, WL 320, 5364, Acclaim, Action, Apollo, Arc, Crockett, Dynasty, Edge, Good As Gold, Magnum+, Pro-Cut, Riley, Southern Special, Sure, and 20 experimental strains. Averaged 102.4% in seven tests in 3 production years and four tests for one production year (about 3% higher than average, which is as good as any well-tested cultivar from public or private breeding program). Standard pest resistance tests indicate high resistance to bacterial wilt, and the spotted alfalfa aphid. Moderate resistance to phytophthora root rot and low resistance to anthracnose and the blue alfalfa aphid. Fall dormancy is approx. 4.6 compared to Saranac = 4 and Archer = 5 (1 to 9 scale, where 9 is very non dormant). Flower color about 95% purple and 5% variegated.

The following were developed by Richard Berberet, Oklahoma State University, Department of Entomology & Plant Pathology, Room 127 NRC, Stillwater, Oklahoma 74078-0464, United States; John L. Caddel, Oklahoma State University, Oklahoma Cooperative Extension Service, Department of Agronomy, Stillwater, Oklahoma 74078-0507, United States; Ali A. Zarrabi, Oklahoma State University, Department of Entomology & Plant Pathology, 127 Noble Research Center, Stillwater, Oklahoma 74078-0464, United States; J.D. Prater, Oklahoma State University, Dept. of Plant & Soil Sciences, Stillwater,

**PI 618616. *Medicago sativa* L.**

Breeding. OK 163. GP-338. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124 and OK 125. Broad gene base germplasm descending from hundreds of world collection accessions with little enhancement for adaptation. Strain crossed with Cimarron pollen but seed harvested from PIs. Tests for resistance to the following diseases presented as percent resistant plants: fusarium wilt - OK 163 = 48, Agate(R) = 54, MNGN-1(S) = 5; bacterial wilt - OK 163 = 36, Vernal(R) = 42, Narragansett(S) = 2; and phytophthora root rot - OK 163 = 15, Agate(R) = 43, Saranac(S) = 5; spotted alfalfa aphid - OK 163 = 38, Baker (R) = 50, and Caliverde(S) = 2.

**PI 618617. *Medicago sativa* L.**

Breeding. OK 164. GP-339. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124 and OK 125. Broad gene base germplasm descending from hundreds of world collection accessions with significant enhancement for adaptation. Strain crossed with PI's pollen and seed harvested from Cimarron. Tests for resistance to the following diseases presented as percent resistant plants: fusarium wilt - OK 164 = 46, Agate(R) = 54, MNGN-1(S) = 5; bacterial wilt - OK 164 = 46, Vernal(R) = 42, Narragansett(S) = 2; and phytophthora root rot - OK 164 = 28, Agate(R) = 43, Saranac(S) = 5; spotted alfalfa aphid - OK 164 = 49, Baker(R) = 50, and Caliverde(S) = 2.

**PI 618618. *Medicago sativa* L.**

Breeding. OK 187. GP-340. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124 and OK 125. Broad gene base germplasm descending from hundreds of world collection accessions with little enhancement for adaptation. Strain crossed with Cimarron pollen but seed harvested from PIs. Tests for resistance to the following diseases presented as percent resistant plants; fusarium wilt - OK 187 = 34, Agate(R) = 54, MNGN-1(S) = 5; bacterial wilt - OK 187 = 31, Vernal(R) = 42, Narragansett(S) = 2; and phytophthora root rot - OK 187 = 25, Agate(R) = 43, Saranac(S) = 5; spotted alfalfa aphid - OK 187 = 24, Baker(R) = 50, and Caliverde(S) = 2.

**PI 618619. *Medicago sativa* L.**

Breeding. OK 188. GP-341. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124 and OK 125. Broad gene base germplasm descending from hundreds of world collection accessions with little enhancement for adaptation. Strain crossed with Cimarron pollen but seed harvested from PIs. Tests for resistance to the following diseases presented as percent resistant plants; fusarium wilt - OK 188 = 58, Agate(R) = 54, MNGN-1(S) = 5; bacterial wilt - OK 188 = 38, Vernal(R) = 42, Narragansett(S) = 2; and phytophthora root rot - OK 188 = 28, Agate(R) = 43, Saranac(S) = 5; and spotted alfalfa aphid - OK 188 = 37, Baker(R) = 50, and Caliverde(S).

**PI 618620. *Medicago sativa* L.**

Breeding. OK 189. GP-342. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124, and OK 125. Broad gene base germplasm descending from hundreds of world collection accessions with little enhancement for adaptation. These populations possess many genes tracing to their highly diverse parentage not

normally possessed by most cultivars and experimental strains in traditional breeding programs. In addition to their varying degrees of adaptation contributed by their adapted parent, they provide some resistance to fusarium wilt (*Fusarium oxysporum*), bacterial wilt (*Clavibacter michiganensis*), phytophthora root rot (*Phytophthora megasperma*), anthracnose (*Collectotrichum trifolii*), blue alfalfa aphid (*Acyrtosiphon kondoi*) (biotype BAOK90 collected in Oklahoma), and pea aphid (*A. Pisum*).

**PI 618621. *Medicago sativa* L. subsp. *sativa***

Breeding. OK 208. GP-343. Pedigree - An equal blend of seed from 6 populations: OK 106, OK 108, OK 122, OK 123, OK 124, and OK 125. Broad gene base germplasm from hundreds of world collection accessions with little enhancement for adaptation. Strain crossed with Cimarron pollen but seed harvested from PIs. Tests for resistance to the following diseases presented as percent resistant plants: fusarium wilt - OK 208 = 54, Agate(R) = 54, MNGN-1(S) = 5; bacterial wilt - OK 208 = 29, Vernal(R) = 42, Narragansett(S) = 2; and phytophthora root rot - OK 208 = 19, Agate(R) = 43, Saranac(S) = 5; and spotted alfalfa aphid - OK 208 = 56, Baker(R) = 50, and Caliverde(S) = 2.

The following were donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 618622. *Amaranthus caudatus* L.**

Cultivar. RRC 78S-8; RRC 8; Ames 1966; CVE. S. 19954; E. S. 19954. Collected 1976 in Unknown. Seed color is tan (RRC: white). Flower color is orange. Leaf color is green. RRC classification type is 'edulis'.

**PI 618623. *Amaranthus hypochondriacus* L.**

Landrace. IC 5527; RRC 46; RRC 78S-46; Ames 1996; YC 5527. Seed color is white, gold, and brown. Flower color is green. Leaf color is green. RRC class type is Nepal grain. General observations: Segregates for height and branching.

The following were developed by Wisconsin Alumni Research Foundation, University of Wisconsin, Madison, Wisconsin, United States. Received 05/02/2001.

**PI 618624 PVPO. *Solanum tuberosum* L.**

Cultivar. "W84-75R". PVP 9700269.

The following were donated by Arizona Crop Imp. Assoc., University of Arizona, Tucson, Arizona, United States. Received 1961.

**PI 618625. *Pisum sativum* L.**

Cultivar. "PAPAGO"; REG NO 1. CV-1. Pedigree - Originated as a selection from seed obtained from the Papago Indian Reservation. Medium green foliage. Erect. Slightly branching stems. Tall growing. Late maturity. Flowers are white. Pods small and green. Seeds smooth. Light cream. Orange-yellow cotyledons. Intermediate in frost resistance. High yield. Cultivated.

The following were donated by University of Wisconsin, Wisconsin Agr. Exp. Station, Madison, Wisconsin, United States. Received 1968.

**PI 618626. *Pisum sativum* L.**

Breeding. WISCONSIN 183. GP-5. Pedigree - F18 generation. Selection from Delwiche Commando. Other parents unknown. Plant height 70 cm. Number of nodes 19. First pod at node 15. 5 pods per plant. 4 peas per pod. Peas dark green. Seeds small. Wrinkled and green. Resistant to Fusarium wilt (*Fusarium oxysporum* f. *pisi* race 1) and bean virus 2. Variable for resistance Fusarium near-wilt (*Fusarium oxysporum* f. *pisi* race 2). High processing quality. Cultivated.

The following were donated by USDA-ARS/Washington Agric. Exp. Station, Pullman, Washington, United States. Received 1971.

**PI 618627. *Pisum sativum* L.**

Breeding. PH-91-3. GP-11. Pedigree - An F7 selection. Parentage is (Perfected Freezer 60 x P.I. 16659) x (Early Perfection 3040 x C-165). Resistant to pea root rot complex (*Fusarium solani*) and *Pythium* spp. Remains vigorous and yields well in soil where root rot susceptible peas are destroyed. Varies between 60-100% resistance to near wilt. White flowered. Double podded. Flowers in the 12 - 13th node. Cultivated.

The following were donated by D.L. Auld, University of Idaho, Dept. of Plant, Soil and Entomology, Moscow, Idaho 83843, United States. Received 1979.

**PI 618628. *Pisum sativum* L.**

Cultivar. "MELROSE"; ID 119 MICH 119. CV-11. Pedigree - F6 selection from cross between Perfection edible spring pea and selection from Austrian Winter field pea. Chocolate brown, speckled and mottled seed coat. Smooth seed. Yellow cotyledons. Flowers early June above 15th node. Indeterminate. 2 - 3 purple flowers borne on each peduncle. Vines may exceed 1.5 m in length at maturity. Tolerant to *Ascochyta* foot rot and pea leaf weevil. Susceptible Fusarium wilt r.

The following were donated by John M. Kraft, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 1979.

**PI 618629. *Pisum sativum* L.**

Breeding. VR74-410-2. GP-19. Pedigree - Selection from cross between New Season x P.I. 193835. Unique in being immune to Pea Seedborne Mosaic Virus and resistant to *Fusarium oxysporum* f. sp. *pisi* race 1 (common wilt) and 2 (near wilt). Resistant pea root rot complex. Used canning. Double to triple podded. Blooms 11th - 12th node. Wrinkled seeds. Cultivated.

**PI 618630. *Pisum sativum* L.**

Breeding. VR74-1492-1. GP-20. Pedigree - Wisconsin 7105 x Geneva 059-81. Unique in being immune to Pea Seedborne Mosaic Virus and resistant to *Fusarium oxysporum* f. sp. *pisi* race 1 (common wilt) and 2 (near wilt). Resistant pea root rot complex. Used canning. Double podded. Blooms 14th - 16th node. Reduced stipules. Seed mixture wrinkled and smooth types. Cultivated.

**PI 618631. *Pisum sativum* L.**

Breeding. 792024. GP-22. Pedigree - PH-114-119 X Afila. Combines modified tendrill gene, dominant genes for resistance to Races 1 and 2 of *Fusarium oxysporum* and resistance to root rot caused by *F. solani pisi* and *Pythium ultimum*. 70 cm tall at maturity. Strong tendrill habit and reduced foliage (should resist lodging and vine rot). Dimple-seeded canner. White flowers. Yellow cotyledons. Blooms on the 14th to 15th node. Double podded. Cultivated.

The following were donated by S.T. Ali-Kahn, Agriculture Canada, Research Station, Box 3001, Morden, Manitoba R0G 1J0, Canada. Received 1981.

**PI 618632. *Pisum sativum* L.**

Breeding. MP 919. GP-40. 100 days to maturity. Semi-leafless plant type. Leaves converted to tendrils. Stipules normal. Vine length 116 cm. Yield approx 2,000 kg/ha. Yellow seed color. Round. Smooth. Seed weight large, approx. 220 g/1,000 seeds. Susceptible to *Ascochyta* blight and powdery mildew. Cultivated.

**PI 618633. *Pisum sativum* L.**

Breeding. MP 926. GP-41. 95 days to maturity. Semi-leafless plant type. Leaves converted to tendrils. Stipules normal. Vine length 120 cm. Yield approx 1,900 kg/ha. Yellow seed color. Round. Smooth. Seed weight small, approx. 160 g/1,000 seeds. Susceptible to *Ascochyta* blight and powdery mildew. Cultivated.

The following were donated by John M. Kraft, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350, United States. Received 1983.

**PI 618634. *Pisum sativum* L.**

Breeding. WR-1158. GP-31. Pedigree - [(B-669-87-0 x G22063)F4 x 74SN5]F8. White flowers. Green cotyledons. Semi-faciated growth habit. Blooms 13th node. Strong double podding tendency. Dry seeds dimpled. Dark green. 76 cm tall. Resistant races 1, 2, 5 and 6 *F. oxysporum* f. sp. *pisi* and *F. solani* f. sp. *pisi*. Tolerant root rot complex. Cultivated.

**PI 618635. *Pisum sativum* L.**

Breeding. WR-1167. GP-32. Flowers white. Green cotyledons. Blooms 13th node. Double podded. Long pointed pods. Green dimpled seed. 76 cm tall. Resistant races 1, 2, 5 and 6 *F. oxysporum* f. sp. *pisi* and *F. solani* f. sp. *pisi*. Cultivated.

**PI 618636. *Pisum sativum* L.**

Breeding. 75-786. GP-34. Pedigree - PH-14-119 X 792022. Unique in combining modified tendrill with genes for resistance to races 1 and 2 of *Fusarium oxysporum* and tolerance to common root rot caused by *Aphanomyces euteiches*. Susceptible to powdery mildew caused by *Erysiphe pisi*. Wrinkle-seeded canner. White flowers. Green cotyledons. Double podded with blunt pods. Blooms at 14th to 15th node. Cultivated.

**PI 618637. *Pisum sativum* L.**

Breeding. 84-1638. GP-35.

**PI 618638. *Pisum sativum* L.**

Breeding. 84-1930. GP-36. Pedigree - Derived from cross PH-91-3 X 792022. Info. from Crop Sci. 26(6):1262 (1986) -- unique in combining modified tendrils with genes for resistance to races 1 and 2 of *Fusarium oxysporum* and tolerance to common root rot caused by *Aphanomyces euteiches*. Susceptible to powdery mildew caused by *Erysiphe pisi*. Wrinkle-seeded canner. Green cotyledons. Flowers at 12th node. Double podded. Slightly curved pods. Cultivated.

The following were donated by R. G. Robinson, University of Minnesota, Agronomy Department, St. Paul, Minnesota 55108, United States. Received 1986.

**PI 618639. *Pisum sativum* L.**

Cultivar. "PROCON". CV-67. Pedigree - Selection from cross of Century x Gastro. Derived from a single plant selected in the F4 generation. Matures 99 days after planting. High yield. Used as protein-concentrate feed for livestock. White flowers. Cream-colored seeds. Seed coats smooth. Dimpled. Seed shape spherical to rectangular-spherical. Seed protein concentration 25%. Vine length ave. 69 cm. Cultivated.

The following were donated by Jerzy Puchalski, Polish Academy of Sciences, Botanical Garden, Center for Biological Diversity Conservation, Warsaw, Warszawa 02-973, Poland. Received 04/30/2001.

**PI 618640. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-111; 17583; NSGC 8703. Collected in Portugal.

**PI 618641. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-112; 17584; NSGC 8704. Collected in Portugal.

**PI 618642. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-113; 17585; NSGC 8705. Collected in Portugal.

**PI 618643. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-123; 17592; NSGC 8706. Collected in Portugal.

**PI 618644. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-13; 17537; NSGC 8707. Collected in Portugal.

**PI 618645. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-143; 17600; NSGC 8708. Collected in Portugal.

**PI 618646. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-24; 17542; NSGC 8709. Collected in Portugal.

**PI 618647. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-29; 17545; NSGC 8710. Collected in Portugal.

**PI 618648. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-31; 17546; NSGC 8711. Collected in Portugal.

**PI 618649. *Secale cereale* L. subsp. *cereale***

Landrace. 77A-32; 17547; NSGC 8712. Collected in Portugal.

- PI 618650. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-33; 17548; NSGC 8713. Collected in Portugal.
- PI 618651. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-553; 17602; NSGC 8714. Collected in Portugal.
- PI 618652. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-554; 17603; NSGC 8715. Collected in Portugal.
- PI 618653. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-557; 17605; NSGC 8716. Collected in Portugal.
- PI 618654. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-73; 17564; NSGC 8717. Collected in Portugal.
- PI 618655. *Secale cereale* L. subsp. *cereale*  
Landrace. 77A-95; 17574; NSGC 8718. Collected in Portugal.
- PI 618656. *Secale cereale* L. subsp. *cereale*  
Landrace. 78A-672; 17683; NSGC 8719. Collected in Portugal.
- PI 618657. *Secale cereale* L. subsp. *cereale*  
Landrace. 78A-860; 17694; NSGC 8720. Collected in Portugal.
- PI 618658. *Secale cereale* L. subsp. *cereale*  
Landrace. 78A-863; 17695; NSGC 8721. Collected in Portugal.
- PI 618659. *Secale cereale* L. subsp. *cereale*  
Landrace. 78A-866; 17697; NSGC 8722. Collected in Portugal.
- PI 618660. *Secale cereale* L. subsp. *cereale*  
Cultivated. 5803; Kuckucks Riesengebirgs Landroggen; NSGC 8723.  
Collected in Germany.
- PI 618661. *Secale cereale* L. subsp. *cereale*  
Cultivated. 14959; Osterreich; NSGC 8724. Collected in Austria.
- PI 618662. *Secale cereale* subsp. *afghanicum* (Vavilov) K. Hammer  
Uncertain. 30225; NSGC 8725. Collected in Armenia.
- PI 618663. *Secale cereale* subsp. *ancestrale* Zhuk.  
Uncertain. 14357; NSGC 8726. Collected in Turkey.
- PI 618664. *Secale cereale* subsp. *ancestrale* Zhuk.  
Uncertain. 17791; NSGC 8727. Collected in Sweden.
- PI 618665. *Secale cereale* subsp. *ancestrale* Zhuk.  
Uncertain. 24263; NSGC 8728.
- PI 618666. *Secale cereale* subsp. *ancestrale* Zhuk.  
Uncertain. 30226; NSGC 8729. Collected in Turkey.
- PI 618667. *Secale cereale* subsp. *dighoricum* Vavilov  
Uncertain. 17785; NSGC 8730. Collected in Sweden.
- PI 618668. *Secale cereale* subsp. *dighoricum* Vavilov  
Uncertain. 30224; NSGC 8731. Collected in Russian Federation.

- PI 618669. *Secale cereale* subsp. *rigidum*** Vavilov & Antropov  
Uncertain. 14193; NSGC 8732. Collected in Turkey.
- PI 618670. *Secale cereale* subsp. *segetale*** Zhuk.  
Uncertain. 7520; NSGC 8733. Collected in Azerbaijan.
- PI 618671. *Secale cereale* subsp. *segetale*** Zhuk.  
Uncertain. 14372; NSGC 8734. Collected in Turkey.
- PI 618672. *Secale cereale* subsp. *segetale*** Zhuk.  
Uncertain. 24269; NSGC 8735.
- PI 618673. *Secale cereale* subsp. *segetale*** Zhuk.  
Uncertain. 1782/94; NSGC 8736. Collected in Turkey.
- PI 618674. *Secale sylvestre*** Host  
Uncertain. 838/96; NSGC 8737. Collected in Ukraine.
- PI 618675. *Secale sylvestre*** Host  
Uncertain. 839/96; NSGC 8738. Collected in Bulgaria.
- PI 618676. *Secale sylvestre*** Host  
Uncertain. 14185; NSGC 8739.
- PI 618677. *Secale sylvestre*** Host  
Uncertain. 30227; NSGC 8740. Collected in Ukraine.
- PI 618678. *Secale vavilovii*** Grossh.  
Uncertain. 30228; NSGC 8741. Collected in Armenia.
- PI 618679. *Secale vavilovii*** Grossh.  
Uncertain. 833/96; NSGC 8742. Collected in Georgia.
- PI 618680. *Secale vavilovii*** Grossh.  
Uncertain. 1783/94; NSGC 8743. Collected in Turkey.
- PI 618681. *Secale vavilovii*** Grossh.  
Uncertain. 1784/94; NSGC 8744. Collected in Turkey.
- PI 618682. *Secale vavilovii*** Grossh.  
Uncertain. 14197; NSGC 8745.

The following were donated by Botanischer Garten, Universitat Leipzig,  
Linnestrassse 1, Leipzig, Saxony D-04103, Germany. Received 12/30/1992.

- PI 618683. *Ampelopsis brevipedunculata*** (Maxim.) Trautv.  
Cultivated. No. 2007; Ames 20102.

The following were collected by Peter Widrlechner, 3674 Dam Lane, Phelps,  
Wisconsin 54554, United States; Irene Widrlechner, 3674 Dam Lane, Phelps,  
Wisconsin 54554, United States. Received 09/20/1996.

- PI 618684. *Aronia melanocarpa*** (Michx.) Elliott  
Wild. Ames 23189. Collected 09/15/1996 in Wisconsin, United States.

Latitude 46 deg. 4' 0'' N. Longitude 89 deg. 28' 0'' W. Section 19,  
T-41N, R-11E, Vilas County.

The following were donated by The Morton Arboretum, Route 53, Lisle, Illinois 60532, United States. Received 02/19/1990.

**PI 618685. *Betula alleghaniensis* Britton**

Wild. Morton No.10; 8; Ames 12798; Ames 14895. Collected in Pennsylvania, United States. Huntingdon County.

**PI 618686. *Brunnichia ovata* (Walter) Shinnery**

Wild. 9; Ames 10216. Collected in Illinois, United States. Latitude 37 deg. 11' 0'' N. Longitude 89 deg. 11' 0'' W. Alexander County.

The following were collected by Manuel Cardoso Alves, Jardim Botânico da Universidade de Coimbra, Arcos do Jardim, Coimbra, Coimbra 3049, Portugal; Jaime Ventura Forte, Jardim Botânico da Universidade de Coimbra, Arcos do Jardim, Coimbra, Coimbra 3049, Portugal; Armenio Da Costa Matos, Jardim Botânico da Universidade de Coimbra, Arcos do Jardim, Coimbra, Coimbra 3000, Portugal. Donated by Jardim Botânico da Universidade de Coimbra, Arcos do Jardim, Coimbra, Coimbra 3000, Portugal. Received 05/24/1999.

**PI 618687. *Calendula arvensis* L.**

Wild. Index Seminum 333; Ames 25291. Collected 03/18/1998 in Coimbra, Portugal. Latitude 40 deg. 12' 0'' N. Longitude 8 deg. 25' 0'' W. Coimbra.

The following were donated by Quentin Jones, Crops Research Division - USDA-ARS, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland 20705-2350, United States; Robert Kleiman, USDA, ARS, National Center for Agric., Utilization Research, Peoria, Illinois 61604, United States; Thompson & Morgan Ltd., London Road, Ipswich, England IP2 0BA, United Kingdom. Received 01/30/1992.

**PI 618688. *Calendula officinalis* L.**

Cultivated. NU 40508; Ames 18458.

The following were donated by Quentin Jones, Crops Research Division - USDA-ARS, New Crops Research Branch, Plant Industry Station, Beltsville, Maryland 20705-2350, United States; Thompson & Morgan Ltd., London Road, Ipswich, England IP2 0BA, United Kingdom; USDA, ARS-Midwest Area, National Center for Agricultural Utilization Research, 1815 North University Street, Peoria, Illinois 61604, United States. Received 01/29/1998.

**PI 618689. *Calendula officinalis* L.**

Cultivated. "Pacific Apricot Beauty"; NU 40515; Ames 24242.

The following were collected by K.G. Tkaczenko; V.M. Reinwald. Donated by V.L. Komarov Botanical Institute, Russian Academy of Sciences, 2, Prof. Popov Street, St. Petersburg, Leningrad 197376, Russian Federation. Received 01/16/1998.

**PI 618690. *Chrysanthemum zawadskii* subsp. *latilobum*** (Maxim.) Kitag.  
Wild. 2799; Ames 24130. Collected 1996 in Primorye, Russian Federation.  
Mountain ridge Gamova.

The following were donated by University of Guelph, Arboretum, Guelph,  
Ontario N1G 2W1, Canada. Received 05/25/1990.

**PI 618691. *Cornus drummondii*** C. A. Mey.  
Wild. 890414; Ames 13773. Collected 1990 in Ontario, Canada. Latitude 41  
deg. 44' N. Longitude 82 deg. 41' W. Elevation 175 m. Pelee Island,  
Mosquito Bay, Essex County. Shrub thicket.

The following were donated by Agriculture Canada, Research Branch, Research  
Station, Unit 100-101 Route 100, Morden, Manitoba R6M 1Y5, Canada. Received  
02/17/1984.

**PI 618692. *Cornus sericea* L. subsp. *sericea***  
Cultivated. Ames 2812.

The following were donated by University de Neuchatel, Jardin Botanique, 22  
Chemin di Chantemrie, Neuchatel, Neuchatel CH-2000, Switzerland. Received  
08/04/1992.

**PI 618693. *Dianthus armeria*** L.  
Wild. No. 11; Ames 19297. Collected in Switzerland. Elevation 500 m.  
Foot of Jura Mountains.

The following were collected by O. Arndt. Donated by Botanischer Garten,  
Universitat Leipzig, Linnestrasse 1, Leipzig, Saxony D-04103, Germany.  
Received 06/17/1991.

**PI 618694. *Dianthus carthusianorum*** L.  
Wild. 314; Ames 15713. Collected in Saxony-Anhalt, Germany. Latitude 51  
deg. 4' 0'' N. Longitude 12 deg. 9' 0'' E. Zangenberg.

The following were donated by Botanical Garden, Institute of Ecology and  
Botany, of the Hungarian Academy of Sciences, Vacratot, Pest H-2163, Hungary.  
Received 06/03/1992.

**PI 618695. *Dianthus carthusianorum*** L.  
Cultivated. No. 934; Ames 19129.

The following were donated by University de Neuchatel, Jardin Botanique, 22  
Chemin di Chantemrie, Neuchatel, Neuchatel CH-2000, Switzerland. Received  
08/04/1992.

**PI 618696. *Dianthus carthusianorum*** L.  
Wild. No. 12; Ames 19298. Collected in Valais, Switzerland. Latitude 46  
deg. 10' 0'' N. Longitude 7 deg. 30' 0'' E. Alps Mountains of Valais.

The following were donated by P. Kupfer, Jardin Botanique de l'Universite, Pertuis-du Sault 58, Neuchatel, Neuchatel CH-2000, Switzerland. Received 05/20/1993.

**PI 618697. *Dianthus deltoides* L.**

Wild. No. 36; Ames 21071. Collected in Spain. Near L'Ebro River. Valley.

The following were collected by Jaana Moilanen. Donated by Botanical Garden, University of Joensuu, Box 111, Joensuu, Pohjois-Karjala SF 80101, Finland. Received 09/08/1993.

**PI 618698. *Dianthus deltoides* L.**

Wild. 157; Ames 21464. Collected 09/14/1992 in Pohjois-Karjala, Finland. Latitude 62 deg. 35' N. Longitude 29 deg. 49' E. Repokallio, Joensuu. Dry meadow.

The following were donated by Botanical Garden, Institute of Ecology and Botany, of the Hungarian Academy of Sciences, Vacratot, Pest H-2163, Hungary. Received 06/03/1992.

**PI 618699. *Dianthus giganteus* d'Urv.**

Cultivated. No. 922; Ames 19122.

**PI 618700. *Dianthus* hybrid**

Cultivated. No. 915; Ames 19119. Pedigree - OP garden hybrid, complex of species including *D. plumarius* and *caryophyllus*.

**PI 618701. *Dianthus* hybrid**

Cultivated. No. 919; Ames 19120. Pedigree - OP garden hybrid, a complex of species including *D. plumarius* and *caryophyllus*.

**PI 618702. *Dianthus* hybrid**

Cultivated. No. 923; Ames 19123. Pedigree - OP garden hybrid, a complex of species including *D. plumarius* and *caryophyllus*.

**PI 618703. *Dianthus* hybrid**

Cultivated. No. 926; Ames 19124. Pedigree - OP garden hybrid, a complex of species including *E. plumarius* and *caryophyllus*.

**PI 618704. *Dianthus* hybrid**

Cultivated. No. 932; Ames 19127. Pedigree - OP garden hybrid, a complex of species including *D. plumarius* and *caryophyllus*.

The following were donated by Montreal Botanic Garden, 4101 Rue Sherbrooke Est., Montreal, Quebec HIX 2B2, Canada. Received 03/16/1990.

**PI 618705. *Dianthus lumnitzeri* Wiesb.**

Cultivated. 106; Ames 13126.

**PI 618706. *Dianthus petraeus* Waldst. & Kit.**

Cultivated. 107; Ames 13127.

The following were collected by Geza Kosa, A Magyar Tudomanyos Akademia,

Okologiai es Botanikai Kutatointezetek, Botanikus Kertje, Vacratot, Pest H-2163, Hungary. Donated by Botanical Garden, Institute of Ecology and Botany, of the Hungarian Academy of Sciences, Vacratot, Pest H-2163, Hungary. Received 06/03/1992.

**PI 618707. *Dianthus serotinus* Waldst. & Kit.**

Wild. No. 212; Ames 19128. Collected in Pest, Hungary. Latitude 47 deg. 4' 0'' N. Longitude 19 deg. 23' 0'' E. Festucetum vaginatae-danubiale, near Tatar-Szentgyorgy, Kiskunsag. Part of Great Hungarian Plain between Duna, Danube, and Tisza rivers. Sand steppes.

The following were collected by N.B. Alexeeva; A.V. Cholopova; G.A. Firsov; V.M. Reinwald. Donated by V.L. Komarov Botanical Institute, Russian Academy of Sciences, 2, Prof. Popov Street, St. Petersburg, Leningrad 197376, Russian Federation. Received 09/29/1992.

**PI 618708. *Dianthus superbus* L.**

Wild. 3306; Ames 20026. Collected 1989 in Sakhalin, Russian Federation. Latitude 44 deg. 10' 0'' N. Longitude 146 deg. E. Kunashir Island in the Kuril Islands.

The following were donated by Botanical Garden, Institute of Ecology and Botany, of the Hungarian Academy of Sciences, Vacratot, Pest H-2163, Hungary. Received 06/03/1992.

**PI 618709. *Dianthus tristis* Velen.**

Cultivated. No. 935; Ames 19130.

The following were collected by Peter Bristol, The Holden Arboretum, 9500 Sperry Road, Kirtland, Ohio 44060-5172, United States; Paul Meyer, The University of Pennsylvania, Morris Arboretum, 9414 Meadowlark Avenue, Philadelphia, Pennsylvania 19118, United States; Tae Shan Jin, Heilongjiang Academy of Forestry, Harbin, China; Jun Liu, Heilongjiang Academy of Forestry, Haping Road, Harbin, Heilongjiang, China; Kris Bachtell, The Morton Arboretum, 4100 Illinois Route 53, Lisle, Illinois 60532-1293, United States. Donated by Edward J. Garvey, USDA, ARS, National Germplasm Repository, U.S. National Arboretum, Washington, District of Columbia 20002, United States. Received 12/29/1993.

**PI 618710. *Flueggea suffruticosa* (Pall.) Baill.**

Wild. HLJ-088; 348-93; Ames 21775. Collected 09/13/1993 in Heilongjiang, China. Latitude 43 deg. 51' 49'' N. Longitude 128 deg. 54' 48'' E. Elevation 340 m. Jiang Po Lake, Jian Shan Jiao. Scrub community on rocky cliff above Jiang Po Lake. In association with *Quercus mongolica* and *Prunus mandshurica*. Subshrub. Plant height 1 meter. Fruit green, round.

The following were collected by Geza Kosa, A Magyar Tudományok Akadémia, Okologiai es Botanikai Kutatointezetek, Botanikus Kertje, Vacratot, Pest H-2163, Hungary. Donated by Botanical Garden, Institute of Ecology and Botany, of the Hungarian Academy of Sciences, Vacratot, Pest H-2163, Hungary. Received 05/27/1997.

**PI 618711. *Gypsophila fastigiata* L.**

Wild. Index Seminum 148; Ames 23758. Collected 1997 in Pest, Hungary. Latitude 47 deg. 4' 0'' N. Longitude 19 deg. 23' 0'' E. Near Tatarszentgyorgy, Kiskunsag. Part of the Great Hungarian Plain between the rivers Duna (Danube) and Tisza. Sand-steppes.

The following were donated by Arboretum Kostelec, University of Agriculture - Prague, Kostelec nad Cernymi Lesy, Prague, Central Bohemia, Czech Republic. Received 04/20/1984.

**PI 618712. *Hypericum androsaemum* L.**

Cultivated. 196; Ames 2929.

The following were collected by A. S. Barclay, USDA, ARS, Crops Research Division, Plant Industry Station, Beltsville, Maryland 20705-2350, United States. Donated by USDA, ARS-Midwest Area, National Center for Agricultural Utilization Research, 1815 North University Street, Peoria, Illinois 61604, United States. Received 01/29/1998.

**PI 618713. *Lavatera triloba* L. subsp. *triloba***

Wild. 21; NU 42575; Ames 24400. Collected 01/1998 in Spain.

The following were collected by Jardin Botanique de l'Universite, Pertuis-du-Sault 58, Neuchatel, Neuchatel CH 2000, Switzerland. Donated by P. Kupfer, Jardin Botanique de l'Universite, Pertuis-du Sault 58, Neuchatel, Neuchatel CH-2000, Switzerland. Received 05/20/1993.

**PI 618714. *Ligustrum vulgare* L.**

Wild. No. 60; Ames 21075. Collected 1992 in Switzerland. Elevation 500 m. Foot of Jura Mountains.

The following were donated by John Orlowsky, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333, United States; Hortus Botanicus Academie Scientiarum, Taschkent, Karamurtakaja, Uzbekistan. Received 04/30/1990.

**PI 618715. *Potentilla recta* L.**

Uncertain. 2298; Ames 13504.

The following were donated by Smith Nursery Co., Box 515, Charles City, Iowa 50616, United States. Received 10/21/1986.

**PI 618716. *Rhus copallinum* L.**

Cultivated. Ames 7467. Large shrub or small tree, deciduous. 10 plants purchased from Smith Nursery for regional testing program. These were the only plants with good fall color in a large planting.

The following were collected by Paul Meyer, The University of Pennsylvania, Morris Arboretum, 9414 Meadowlark Avenue, Philadelphia, Pennsylvania 19118, United States; William Thomas, Longwood Gardens, P.O. Box 501, Kennett Square, Pennsylvania 19348, United States; Kevin Conrad, U.S. National

Arboretum, USDA, ARS, 3501 New York Avenue, N.E., Washington, District of Columbia 20002, United States; Peter del Tredici, The Arnold Arboretum, Harvard University, 125 Arbor Way, Jamaica Plain, Massachusetts 02130-3159, United States. Donated by Shawn Belt, USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Glenn Dale, Maryland 20769-9157, United States ; Edward J. Garvey, USDA, ARS, National Germplasm Repository, U.S. National Arboretum, Washington, District of Columbia 20002, United States. Received 01/12/1995.

**PI 618717. *Spiraea blumei* G. Don**

Wild. WD147; NA 64914; Ames 22276. Collected 09/28/1994 in Hubei, China. Latitude 32 deg. 22' 44'' N. Longitude 111 deg. 9' 46'' E. East of Bai Yang Ping. Cut over slope. Shrub, 1.5 meters tall.

The following were donated by University of Guelph, Arboretum, Guelph, Ontario N1G 2W1, Canada. Received 03/02/1988.

**PI 618718. *Staphylea trifolia* f. *pyriformis* Dore**

Wild. 860013; Ames 8078. Collected in Ontario, Canada. Latitude 45 deg. 16' 0'' N. Longitude 75 deg. 45' 0'' W. Ottawa, Nepean Township, Carleton Region.

The following were collected by Robert E. Schutzki, Michigan State University, Department of Horticulture, 218 Plant & Soil Sciences Building, East Lansing, Michigan 48824-1325, United States; Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States; Vasily Yukhnovsky, National Agricultural University of Ukraine, Forestry Department, Str. 15 G. Oborony, Kiev, Kiev 252041, Ukraine; Victor Sviatetsky, National Agricultural University of Ukraine, Forestry Department, Str. 15 G. Oborony, Kiev, Kiev 252041, Ukraine. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 09/29/1999.

**PI 618719. *Tanacetum parthenium* (L.) Sch. Bip.**

Wild. WSYUS 71; Ames 25551. . Collected 09/17/1999 in Cherkasy, Ukraine. Latitude 48 deg. 43' 40'' N. Longitude 30 deg. 17' 25'' E. Elevation 225 m. 3 km southwest of Gerezhenovka. Edge of road in front of forest. Open site, 0-2% slope with a northwestern exposure. Clay loam soil with good drainage. Low herbaceous plant.

The following were developed by HZPC Holland B.V., Netherlands. Received 05/09/2001.

**PI 618720 PVPO. *Solanum tuberosum* L.**

Cultivar. "DIVINA". PVP 9800156.

The following were developed by A. Doug Brede, J.R. Simplot Co., 5300 West Riverbend Avenue, Post Falls, Idaho 83854-9499, United States. Received 04/30/2001.

**PI 618721. *Poa pratensis* L.**

Cultivar. "CHICAGO". CV-63. Pedigree - Originated as a highly apomictic,

single-plant selection from hybrid cross number 89-1075, made in the field in July 1989. Plants of Huntsville Kentucky bluegrass (PI 531526) were open-pollinated with plants of 20 commercial varieties. In turf quality testing, ranked twenty-ninth in the 1995 National Turfgrass Evaluation Program (NTEP) trials for Kentucky bluegrass, out of 103 entries (Morris 2000). Ranked first at two locations using a mowing height of 40-50 mm. Showed improved resistance to leaf rust (*Puccinia coronata*), stem rust (*P. graminis*), dollar spot (*Lanzia* or *Moellerodiscus*), and billbug (*Sphenophorus* spp.).

The following were developed by B.V. Conger, Tennessee Agr. Exp. Sta., University of Tennessee, Dept. of Plant and Soil Sciences, Knoxville, Tennessee 37901-1071, United States. Received 04/16/2001.

**PI 618722. *Dactylis glomerata* L.**

Cultivar. "PERSIST". PVP 200200147. Pedigree - Originates from seed collected from 6 year or older stands of orchardgrass throughout Tennessee. Single solid-seeded rows were established at Knoxville, Crossville and Jackson. Resulting plants were subjected to clipping or grazing to a height of 2.5 cm 4 times per year for 4 years. Seventy two individual plant selections were made from the population at Jackson. These were cloned and established at Knoxville. Six clones were selected based on vigor, progeny tests, disease ratings and synchrony. Produced high dry matter yields in both Tennessee and Kentucky and exceeded Potomac (the standard for seed production) in seed yield trials at Halsey, Oregon. Similar in maturity date to currently grown cultivars. Easily and readily established and has excellent seedling vigor. In a grazing trial in southwest Tennessee, performance of early-weaned steers was equal to that of those grazing Benchmark and produced more available forage, both with and without clover. Equal to currently grown cultivars in crude protein, acid detergent fiber and neutral detergent fiber. A strong characteristic is persistence, In the mentioned grazing trial, a greater than 80% stand remained after 4 years of grazing and drought stress in the pastures seeded without clover. There was a 10% or less stand of Benchmark. Expected to have good adaptation throughout all regions of the U.S. where orchardgrass is grown, but will be especially productive and persistent in the southern portion of the.

The following were developed by Victor Maddox, Mississippi State University, Plant and Soil Sciences, 117 Dorman Hall, Mississippi State, Mississippi 39759, United States; H. Wayne Philley, Mississippi State University, Dept. of Plant & Soil Sciences, Box 9555, Mississippi State, Mississippi 39762, United States; M. Tomaso-Peterson, Mississippi State University, Dept. of Plant and Soil Sciences, Mississippi State, Mississippi 39762, United States; J.M. Goatley, Jr., Mississippi State University, Dept. of Plant and Soil Sciences, Mississippi State, Mississippi 39762, United States; B.A. Stewart, Dryland Agricultural Institute, West Texas A&M University, Post Office Box 278, Canyon, Texas 70016-0001, United States; Jeff V. Krans, Mississippi State University, Department of Plant & Soil Sciences, Box 9555, Mississippi State, Mississippi 39762, United States; D.W. Wells, Mississippi State University, Dept. of Plant and Soil Sciences, Mississippi State, Mississippi 39762, United States. Received 04/10/2001.

**PI 618723. *Agrostis stolonifera* L.**

Breeding. MSRS-328. GP-80. Pedigree - Originated from in vitro cell

selection involving callus induction from Penncross creeping bentgrass seed and co-culture with *Rhizoctonia solani* in the host pathogen interaction system. Released 09/19/2000. Creeping bentgrass with enhanced resistance to brown patch disease (*Rhizoctonia solani*). In growth chamber and golf green evaluation displayed less symptoms of brown patch than other genotypes. In a greenhouse study, displayed less infection than Penncross creeping bentgrass. Should be useful in developing brown patch resistant cultivars.

**PI 618724. *Agrostis stolonifera* L.**

Breeding. MSRS-330. GP-81. Pedigree - Originated from in vitro cell selection involving callus induction from Penncross creeping bentgrass seed and co-culture with *Rhizoctonia solani* in the host pathogen interaction system. Released 09/19/2000. Creeping bentgrass with enhanced resistance to brown patch (*Rhizoctonia solani*). In growth chamber and golf green evaluations displayed less symptoms of brown patch than other genotypes. In a greenhouse study, polycross progeny displayed less infection than Penncross creeping bentgrass. Should be useful in developing brown patch resistant cultivars.

The following were developed by Jerry F. Miller, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States; Brady A. Vick, USDA-ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105-5677, United States. Donated by Jerry F. Miller, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States. Received 04/12/2001.

**PI 618725. *Helianthus annuus* L.**

Genetic. Pureline. HA 421. GS-22. Pedigree - Bulked F10 maintainer genetic stock selected from the cross HA 341 / HA 821. Maintainer sunflower genetic stock possessing a mid-range oleic fatty acid composition. Available for use by the sunflower industry and public researchers to create sunflower hybrids with a mid-range oleic acid composition (NuSun) for utilization by the snack food industry of the U.S. Oleic acid concentration ranges from 54.9 to 71.3% and averaged 63.7% in the 1995 to 1998 in USDA breeding nurseries at Fargo, ND.

**PI 618726. *Helianthus annuus* L.**

Genetic. Pureline. HA 422. GS-23. Pedigree - Bulked F10 maintainer genetic stock selected from the cross HA 341 / HA 821. Maintainer sunflower genetic stock possessing a mid-range oleic fatty acid composition. Available for use by the sunflower industry and public researchers to create sunflower hybrids with a mid-range oleic acid composition (NuSun) for utilization by the snack food industry of the U.S. Oleic acid concentration ranges from 60.9 to 72.7% and averaged 66.9% in the 1995 to 1998 USDA breeding nurseries at Fargo, ND.

**PI 618727. *Helianthus annuus* L.**

Genetic. Pureline. HA 423. GS-24. Pedigree - Bulked F10 maintainer genetic stock selected from the cross HA 341 / HA 821. Maintainer sunflower genetic stock possessing a mid-range oleic fatty acid composition. Available for use by the sunflower industry and public researchers to create sunflower hybrids with a mid-range oleic acid composition (NuSun) for utilization by the snack food industry of the U.S. The oleic acid concentration ranged from 58.0 to 72.4% and averaged 67.0% in the 1995 to 1998 USDA breeding nurseries at Fargo, ND.

**PI 618728. *Helianthus annuus* L.**

Genetic. Pureline. HA 424. GS-25. Pedigree - Bulked F10 maintainer genetic stock selected from the cross HA 383 / HA 341. Maintainer sunflower genetic stock possessing a mid-range oleic fatty acid composition. Available for use by the sunflower industry and public researchers to create sunflower hybrids with a mid-range oleic acid composition (NuSun) for utilization by the snack food industry of the U.S. The oleic acid concentration ranged from 60.3 to 69.2% and averaged 64.1% in the 1995 to 1998 USDA breeding nurseries at Fargo, ND.

The following were developed by Mark A. Brick, Colorado State University, Department of Soil and Crop Sciences, Fort Collins, Colorado 80521, United States; H.F. Schwartz, Colorado State University, Dept. of Plant Pathology and Weed Science, Fort Collins, Colorado 80523, United States; J.B. Ogg, Colorado State University, Dept. of Soil and Crop Sciences, Fort Collins, Colorado 80523, United States; Phillip Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350-9687, United States; F. Judson, Fruita Research Station, 1910 L Road, Fruita, Colorado 81521, United States. Received 04/26/2001.

**PI 618729. *Phaseolus vulgaris* L.**

Breeding. Inbred. CO-32948. GP-217. Pedigree - GH196 / Anasazi. Advanced inbred line that combines mid-season maturity, high yield potential and resistance to BCM. This line and the Anasazi parent were tested for 3 yrs. at Fort Collins, CO. Mean days to harvest maturity 93 and 112 d, mean seed yields 1774 and 1830 kg ha<sup>-1</sup>, and mean seed weights were 35.7 and 26.7 g 100 seed<sup>-1</sup>, for this line and Anasazi, respectively. The germplasm is homozygous for the bc2(2) allele which confers resistance to pathogroups I, II, III, IV, V and VI of BCMV. Semi-vine, prostrate, Type III growth habit.

**PI 618730. *Phaseolus vulgaris* L.**

Breeding. Inbred. CO-32977. GP-218. Pedigree - GH-196 / Anasazi. Advanced inbred line that combines mid-season maturity, high yield potential and resistance to BCM. This line and the Anasazi parent were tested for 3 yrs. at Fort Collins, CO. Mean days to harvest maturity were 93 and 112 d, mean seed yields were 1830 and 1830 kg ha<sup>-1</sup>, and mean seed weights were 35.2 and 26.7 g 100<sup>-1</sup>, for this line and Anasazi, respectively. The germplasm is segregating for the bc2(2) allele which confers resistance to pathogroups I, II, III, IV, V, and VI of BCMV. Semi-vine, prostrate, Type III growth habit.

**PI 618731. *Phaseolus vulgaris* L.**

Breeding. Inbred. CO-40696. GP-219. Pedigree - Othello / Anasazi. Advanced inbred line that combines mid-season maturity, and high yield potential. This line and the Anasazi parent were tested for 3 yrs. at Fort Collins, CO. Mean days to harvest maturity were 94 and 112 d, mean seed yields were 1613 and 1830 kg ha<sup>-1</sup>, and mean seed weights were 36.2 and 26.7 g 100 seed<sup>-1</sup>, for this line and Anasazi, respectively. Semi-vine, prostrate, Type III growth habit.

The following were collected by Hortus Botanicus Pekinensis, Instituti Botanici Academiae Sinicae, Beijing, Beijing 100092, China. Donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530,

United States. Received 02/20/1981.

**PI 618732. *Amaranthus retroflexus* L.**

Wild. RRC 38; RRC 78S-38; Ames 1989. Collected 1977 in Taiwan. Seeds black. Flowers and leaves green, although the leaves are red on the undersides. The RRC class type is weed (pigweed).

The following were donated by Asian Vegetable Research and Development Center, P.O. Box 42, Shanhua, Tainan, Taiwan; Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 618733. *Amaranthus hypochondriacus* L.**

Landrace. A74-62; RRC 101C; RRC 78S-101C; Ames 2030. Collected 09/01/1977 in China. Pedigree - Since this *A. hypochondriacus* was segregated from an accession of *A. tricolor* at the RRC, it might be from a seed mixing error rather than from the same source as the parent accession RRC 101. Seed color brown and white. Flower color mixed. Leaf color mixed. RRC class type is Nepal.

The following were developed by Edward J. Souza, University of Idaho, Aberdeen Research & Extension Center, P.O. Box 870, Aberdeen, Idaho 83210, United States; Katherine O'Brien, University of Idaho, Aberdeen Research & Extension Center, P.O. Box AA, Aberdeen, Idaho 83210, United States; Mary Guttieri, University of Idaho, PO Box AA, Aberdeen, Idaho 83210-0530, United States. Received 05/10/2001.

**PI 618734. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "IONA"; A89232S; IDO492; NSGC 8746. CV-918. Pedigree - Idaho 367/Klasic. Hard red spring wheat. Based on field evaluations in Washington and Idaho, has adult plant resistance to stripe rust and moderate susceptibility to leaf rust. Most similar in appearance to Probrand 751. High flour protein content and high milling yield.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 1995.

**PI 618735. *Pseudoroegneria spicata* (Pursh) A. Love**

Wild. T-21; W6 16733. Collected in Oregon, United States. Latitude 44 deg. 33' 0'' N. Longitude 117 deg. 26' 0'' W. Elevation 744 m. Plano Rd off I-84, Baker Co., near mile marker 330 at first fenced driveway over hillside (back side).

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States. Donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 1995.

**PI 618736. *Pseudoroegneria spicata* (Pursh) A. Love**

Wild. no. K33; Acc:213; W6 16734. Collected in Idaho, United States. Latitude 46 deg. 2' 0'' N. Longitude 116 deg. 58' 0'' W. 4 miles north Lewiston on Pullman road, Nez Perce County.

The following were collected by Dave Stout, Washington State University, Regional Plant Introduction Station, Seed Storage, Pullman, Washington 99164-6402, United States; A. M. Davis, USDA, ARS, Regional Plant Introduction Station, 59 Johnson Hall, Pullman, Washington 99164-6402, United States. Donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 1995.

**PI 618737. *Pseudoroegneria spicata* (Pursh) A. Love**

Wild. no. DS101; Acc:254; W6 16737. Collected in Washington, United States. Latitude 46 deg. 34' 0'' N. Longitude 117 deg. 8' 0'' W. Elevation 268 m. Colton, Whitman County, between mile markers 6 and 7 on Steptoe Canyon road.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 05/1995.

**PI 618738. *Stipa sibirica* (L.) Lam.**

Wild. E94070; W6 18028. Collected 09/1994 in Mongolia. Latitude 45 deg. 47' 17'' N. Longitude 111 deg. 24' 17'' E. Elevation 976 m. Northern edge of desert steppe. Desert steppe. Soils light brown, sandy loam texture.

**PI 618739. *Leymus chinensis* (Trin.) Tzvelev**

Wild. E94169; W6 18105. Collected 09/1994 in Mongolia. Latitude 47 deg. 59' 49'' N. Longitude 118 deg. 6' 26'' E. Elevation 466 m. Research station established to test shrub and tree species adaptation to steppe environment. Extreme northeast corner of Mongolia, approximately 30 km from border with Inner Mongolia. Grass steppe. Disturbed agricultural area.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 08/24/1992.

**PI 618740. *Lolium* sp.**

Wild. B92-224; W6 10911. Collected 07/02/1992 in Varna, Bulgaria. Latitude 43 deg. 12' 0'' N. Longitude 27 deg. 57' 0'' E. In vacant lot, across from entrance to the Faculty of Medicine.

The following were collected by David S. Marshall, Texas A&M University, Research & Extension Center, 17360 Coit Road, Dallas, Texas 75252-6599, United States; Lloyd R. Nelson, Texas Agricultural Experiment Station, The Texas A&M University System, Agricultural Research and Extension Center, Overton, Texas 75684-0290, United States. Donated by Lloyd R. Nelson, Texas Agricultural Experiment Station, The Texas A&M University System, Agricultural Research and Extension Center, Overton, Texas 75684-0290, United States. Received 01/22/1993.

**PI 618741. *Lolium* sp.**

Wild. 316; W6 11214. Collected 07/08/1992 in Turkey. Latitude 35 deg. 5' 0'' N. Longitude 30 deg. 9' 0'' E. Elevation 1090 m. Mountain hillside, Dinar, Afyon.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Lufter Xhuveli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Received 09/1996.

**PI 618742. *Elytrigia* sp.**

Wild. A1 029; W6 18621. Collected 08/25/1996 in Albania. Latitude 40 deg. 23' 56'' N. Longitude 19 deg. 28' 38'' E. Elevation 50 m. Jonufer, S of Vlore, off the Adriatic Bay of Vlore. West facing slope in terraced orchard. Height 50-60cm.

**PI 618743. *Lolium* sp.**

Wild. A1 049; W6 18628. Collected 08/26/1996 in Albania. Latitude 40 deg. 11' 54'' N. Longitude 20 deg. 10' 35'' E. Elevation 1290 m. Pastures of Cajup and surrounding hillside. Abundant. With other grasses on rocky hillside. Area grazed by sheep and goats. Height 50-60cm. Panicle length 6-8cm.

The following were collected by Scott Lambert, USDA-NRCS, Plant Materials Center, Room 127, Johnson Hall, Pullman, Washington 99164-6410, United States. Donated by Mark Edwin Stannard, National Resources Conservation Service, Washington State University, Hulbert 105 C, Pullman, Washington 99164-6211, United States. Received 12/10/1996.

**PI 618744. *Deschampsia* sp.**

Wild. W6 18930. Collected 09/10/1996 in Alma-Ata, Kazakhstan. Latitude 43 deg. 0' 0'' N. Longitude 76 deg. 30' 0'' E. 15 kilometers south of town of Almaty in the foothills of the Tianshun Mountains.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 07/28/1996.

**PI 618745. *Poa* sp.**

Wild. B96-189; W6 19372. Collected 07/1996 in Bulgaria. Latitude 41 deg. 39' 59'' N. Longitude 24 deg. 24' 37'' E. Elevation 882 m. Rocky area on side of road near village of village, Gela. north.

The following were collected by Douglas R. Dewey, USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah 84322, United States; Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research

Laboratory, Logan, Utah 84322-6300, United States. Received 01/16/1992.

**PI 618746. *Elymus mutabilis*** (Drobow) Tzvelev

Wild. DJ-3981; W6 10291. Collected 08/15/1989 in Russian Federation. Elevation 1240 m. Between 660 and 661km markers. South side of Cheketeman Pass, Gorno Altay A.O. from summit (660km marker on Highway 52 at 1250m) to Cheketeman camp (666km marker at 960m). Siberia. Spikes long, arched, lightly-pigmented.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 618747. *Bromus inermis*** Leyss. **subsp. inermis**

Wild. VIR D46; W6 17810. Collected 07/21/1995 in Russian Federation. Latitude 44 deg. 12' 20'' N. Longitude 40 deg. 37' 12'' E. Elevation 750 m. pH 7.2-7.7.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 05/1995.

**PI 618748. *Stipa capillata*** L.

Wild. E94205; W6 18123. Collected 09/1994 in Mongolia. Latitude 47 deg. 53' 58'' N. Longitude 113 deg. 44' 25'' E. Elevation 680 m. Range of low mountains along Herlen River 100 km west of Choibalsan. Mountain-grass steppe. Soils thin, many rock cobbles present. Aspect southwest, slope 5%.

**PI 618749. *Koeleria macrantha*** (Ledeb.) Schult.

Wild. W94077; W6 18226. Collected 09/1994 in Mongolia. Latitude 48 deg. 39' 23'' N. Longitude 102 deg. 7' 23'' E. Elevation 1574 m. About 15 km NW of Hayrhan. Open hillside. Mountain steppe. SE slope 3%.

Unknown source. Received 11/19/1990.

**PI 618750. *Bromus catharticus*** Vahl **var. catharticus**

Cultivated. "Primabel"; W6 6222. Developed in France.

The following were collected by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 11/02/1993.

**PI 618751. *Poa pratensis*** L.

Wild. X93205; W6 13110. Collected 08/21/1993 in Xinjiang, China. Latitude 43 deg. 41' N. Longitude 89 deg. 18' E. Elevation 1870 m. Loam soil, middle pasture, 44km south of Jimsar, east sloping steep hillside

pasture near Chuan Zi Jie Village, Xinjiang. Diversity immense.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 1995.

- PI 618752. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-33; W6 16723. Collected in Nevada, United States. Latitude 40 deg. 52' 0'' N. Longitude 115 deg. 52' 0'' W. Elevation 1737 m. 5 miles north of Elko, Elko County, on Highway 225.
- PI 618753. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-55; W6 16724. Collected in Nevada, United States. Latitude 40 deg. 49' 0'' N. Longitude 115 deg. 12' 0'' W. Elevation 1658 m. 5 m N of Secret Pass, Elko Co., NV.

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States. Donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 1995.

- PI 618754. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. A23; Acc:329; W6 16726. Collected in Nevada, United States. Latitude 40 deg. 41' 0'' N. Longitude 118 deg. 4' 0'' W. 2 miles south of Mill City, road to tungsten mine, Pershing County. Lat/lon accurate to Mill City.
- PI 618755. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no. K75; Acc:379; W6 16727. Collected in Utah, United States. Latitude 41 deg. 44' 0'' N. Longitude 112 deg. 10' 0'' W. Garland, Box Elder County.
- PI 618756. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no. K160; Acc:380; W6 16728. Collected in Wyoming, United States. Latitude 41 deg. 48' 0'' N. Longitude 110 deg. 32' 0'' W. Kemmerer, Lincoln County.
- PI 618757. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no. K72; Acc:390; W6 16729. Collected in Idaho, United States. Latitude 43 deg. 37' 0'' N. Longitude 116 deg. 13' 0'' W. 20 miles south of Boise, 1 mile east I-184, Ada County.
- PI 618758. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no K174; Acc:394; W6 16730. Collected in Idaho, United States. Latitude 42 deg. 39' 0'' N. Longitude 111 deg. 36' 0'' W. Soda Springs, Caribou County.
- PI 618759. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no. K70; Acc:401; W6 16731. Collected in Idaho, United States. Latitude 43 deg. 37' 0'' N. Longitude 116 deg. 12' 0'' W. Boise, Ada County.
- PI 618760. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. no. A85; Acc:405; W6 16732. Collected in Utah, United States. Highway 89-91 near summit, Box Elder County.

The following were collected by Luigi Guarino, IBPGR, c/o Agric. Research Institute, P.O. Box 2016, Nicosia, Cyprus. Donated by Paul Quek, International Plant Genetics Resources Institute, Regional Office for Asia, the Pacific and Oceania, c/o IDRC, 7th Storey, RELC Building, Singapore. Received 11/21/1994.

**PI 618761. *Eragrostis tef* (Zuccagni) Trotter**  
Uncertain. 12007; W6 19137. Collected 1989 in Socotra, Yemen.

The following were collected by Jerrold I. Davis, Cornell University, L. H. Bailey Hortorium, 462 Mann Library, Ithaca, New York 14853-4301, United States; Robert J. Soreng, Cornell University, L. H. Bailey Hortorium, 462 Mann Library, Ithaca, New York 14853-4301, United States; K. Guney, Ankara University, Ankara, Ankara, Turkey; U. Bingol, Ankara University, Ankara, Ankara, Turkey; L. Kurt, Ankara University, Ankara, Ankara, Turkey. Received 02/10/1997.

**PI 618762. *Poa pratensis* L.**  
Wild. 4060; W6 19188. Collected 07/13/1993 in Tokat, Turkey. Latitude 40 deg. 5' N. Longitude 35 deg. 56' E. Elevation 1067 m. Deveci Daglari, 26 km south of Zile. Shallow valley above creek.

The following were collected by Jerrold I. Davis, Cornell University, L. H. Bailey Hortorium, 462 Mann Library, Ithaca, New York 14853-4301, United States; Robert J. Soreng, Cornell University, L. H. Bailey Hortorium, 462 Mann Library, Ithaca, New York 14853-4301, United States; K. Guney, Ankara University, Ankara, Ankara, Turkey; U. Bingol, Ankara University, Ankara, Ankara, Turkey. Received 02/10/1997.

**PI 618763. *Poa pratensis* L.**  
Wild. 4114; W6 19210. Collected 07/18/1993 in Antalya, Turkey. Latitude 37 deg. 7' N. Longitude 31 deg. 51' E. Elevation 1220 m. Toros Mountains, south of Beysehir on Route 07-11 towards Mediterranean Sea, 11 km south of Cevizli. Low ground in flat area in open *Pinus nigra* forest. Grey organic loamy clay soils. Occasional, rhizomatous, forming very sparse clones.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 07/28/1996.

**PI 618764. *Poa pratensis* L.**  
Wild. B96-231; W6 19402. Collected 07/1996 in Bulgaria. Latitude 41 deg. 34' 10'' N. Longitude 24 deg. 51' 48'' E. Elevation 714 m. 15km southeast of Smolyan, along Cherna River. Near village of Ravnishte. south.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States;

Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 618765. *Poa attenuata* subsp. *argunensis* (Roshev.) Tzvelev**

Wild. 96N-282; W6 19767. Collected 08/1996 in Mongolia. Latitude 49 deg. 58' 52'' N. Longitude 93 deg. 45' 28'' E. Elevation 1201 m. Uvs Aimag, dry draw and ridge tops in the sand hills 9 km north of Dzel and 57 km south of Tooromi. Slope varied from 0-25%. soils are sand. DOMINANT VEG: *Agropyron desertorum*, *Hedysarum fruiticosum*, *Cleistogenes squarrosa*, *Caragana bungei*, *Caragana pygmaea*, *Stipa capillata*  
ECOLOGICAL ZONE: Steppe.

**PI 618766. *Poa pratensis* L.**

Wild. 96N-198; W6 19691. Collected 08/1996 in Mongolia. Latitude 48 deg. 32' 54'' N. Longitude 98 deg. 29' 59'' E. Elevation 2002 m. Site is 28 km southeast of town of Tosontsengel in Zuvhan Aimag. 3% east slope. Located in the wooded creek bottom with understory of shrub. Creek is running east. North slope is *Larix* while south is grass covered. Soils appear to be sandy/sandy loam. DOMINANT VEG: *Larix sibiricum*, *Dasiphora fruiticosa*, *Salix ledebouriana*, *Carex korshinsky*, *Carex caespitosa*, *Poa pratense*, *Allium spinosa* ECOLOGICAL ZONE: Forest steppe - mountain meadow.

**PI 618767. *Poa attenuata* Trin.**

Wild. 96N-230; W6 19721. Collected 08/1996 in Mongolia. Latitude 48 deg. 54' 25'' N. Longitude 95 deg. 40' 56'' E. Elevation 1971 m. Site 14 km west of Songino. 15% slope. Site is an east aspect mountain side. Ground is grass covered with no tree or shrubs. Soils are tan and appear to have significant gravel. Winter grazing areas. DOMINANT VEG: *Poa attenuata*, *Festuca lenensis*, *Thermopsis dahurica*, *Artemisia commutata*, *Artemisia frigida* ECOLOGICAL ZONE: Mountain steppe.

**PI 618768. *Poa pratensis* L.**

Wild. 96S-149; W6 19657. Collected 09/1996 in Mongolia. Latitude 49 deg. 30' 19'' N. Longitude 96 deg. 38' 6'' E. Elevation 1710 m. Zavhan Aimag, Tes Sum, about 80 km east of sum center. 3% east slope. Rolling hills with rock outcrops along the hill crest. Soils are very gravelly brown sands and loamy soils. Conifers occur in protected areas. DOMINANT VEG: *Elymus secalinus* + *Poa pratensis*, *Artemisia sp.*, *Carex sp.*

**PI 618769. *Poa attenuata* Trin.**

Wild. 96N-215; W6 19707. Collected 08/1996 in Mongolia. Latitude 48 deg. 56' 34'' N. Longitude 97 deg. 16' 33'' E. Elevation 2002 m. Site is a northeast face on a draw running south toward Telmen Nuur. Site is 8 km northwest of Telmen Nuur and 10 km southeast of Holboo Nuur. 5% slope. Soils are sandy loam with gravel. DOMINANT VEG: *Poa attenuata*, *Kochia prostrata*, *Festuca lenensis*, *Artemisia commutata*, *Leontopodium leontopodoides*, *Potentilla bifurca* ECOLOGICAL ZONE: Forest Steppe.

**PI 618770. *Poa attenuata* Trin.**

Wild. 96N-239; W6 19729. Collected 08/1996 in Mongolia. Latitude 49 deg. 13' 37'' N. Longitude 94 deg. 55' 52'' E. Elevation 1878 m. 7 km southeast of Tsetserleg. 2% to 3% slope. On a very rocky, stony exposed hillside site with southwest aspect. Soil is gravelly. DOMINANT VEG: *Festuca lenensis*, *Stipa capillata*, *Agropyron cristatum*, *Poa attenuata*, *Heteropappus hispidus*, *Artemisia commutata* ECOLOGICAL ZONE: Steppe.

**PI 618771. *Poa pratensis* L.**

Wild. 96N-256; W6 19746. Collected 08/1996 in Mongolia. Latitude 49 deg. 25' 50'' N. Longitude 94 deg. 29' 34'' E. Elevation 2172 m. Uvs Aimag, located 26 km south on Beruuturuun and 18 km west of Mondaahoo. Site is a woodland opening with 10% slope and a south aspect with some logging and considerable scattered wood scraps about. DOMINANT VEG: Collected species plus *Geranium pratense*, *Carex pediformis*, *Thalictrum simplex*, *Delphinium grandifolium*, *Dianthus versicolor* ECOLOGICAL ZONE: Forest steppe.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 618772. *Phleum pratense* L.**

Wild. VIR 291; W6 17749. Collected 09/18/1995 in Russian Federation. Latitude 44 deg. 22' 15'' N. Longitude 40 deg. 22' 52'' E. Elevation 550 m. pH 3.7-4.1.

**PI 618773. *Phleum pratense* L.**

Wild. VIR 312; W6 17756. Collected 09/21/1995 in Russian Federation. Latitude 44 deg. 10' 12'' N. Longitude 39 deg. 56' 12'' E. Elevation 1320 m. Krasnodarskiy kray. Nearest village Mezmay. Area cut/grazed. Slope 0-6(10)%, aspect NE. Open. Moist, ridgetop. pH 5.1. Vegetation closed, seasonal tall grass. Dominant herb/grass species *Dactylis glomerata*, *Calamagrostis epigeios*, *Brachipodium sylvaticum*, *Elytrigia r.*, *Galega orien.*

. Population distribution uniform, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618774. *Phleum pratense* L.**

Wild. VIR D122; W6 17775. Collected 08/17/1995 in Russian Federation. Latitude 44 deg. 48' 57'' N. Longitude 38 deg. 16' 59'' E. Elevation 60 m. pH 5.9-6.7.

**PI 618775. *Phleum pratense* L.**

Wild. VIR D125A; W6 17776. Collected 08/17/1995 in Russian Federation. Latitude 44 deg. 54' 39'' N. Longitude 37 deg. 57' 45'' E. Elevation 70 m. pH 7.6-7.9.

**PI 618776. *Phleum pratense* L.**

Wild. VIR D126; W6 17777. Collected 08/17/1995 in Russian Federation. Latitude 45 deg. 16' 26'' N. Longitude 37 deg. 23' 19'' E. Elevation 50 m. pH 5.3-6.1.

**PI 618777. *Phleum pratense* L.**

Wild. VIR D129; W6 17779. Collected 08/20/1995 in Russian Federation. Latitude 44 deg. 40' 57'' N. Longitude 37 deg. 57' 8'' E. Elevation 380 m. pH 6.8-7.0.

**PI 618778. *Phleum pratense* L.**

Wild. VIR D130; W6 17780. Collected 08/21/1995 in Russian Federation. Latitude 44 deg. 33' 30'' N. Longitude 38 deg. 21' 48'' E. Elevation 700 m. pH 6-7.

**PI 618779. *Phleum pratense* L.**

Wild. VIR D135; W6 17783. Collected 08/23/1995 in Russian Federation. Latitude 43 deg. 33' 5'' N. Longitude 39 deg. 54' 30'' E. Elevation 200 m. pH 7.5.

**PI 618780. *Dactylis glomerata* L.**

Wild. VIR D36; W6 17807. Collected 07/20/1995 in Russian Federation. Latitude 44 deg. 21' 24'' N. Longitude 40 deg. 43' 30'' E. Elevation 450 m. pH 5.8.

**PI 618781. *Dactylis glomerata* L.**

Wild. VIR D47X; W6 17812. Collected 07/26/1995 in Russian Federation. Latitude 44 deg. 4' 25'' N. Longitude 42 deg. 21' 24'' E. Elevation 800 m. pH 7.8.

**PI 618782. *Agrostis* sp.**

Wild. VIR D7A; W6 17818. Collected 07/08/1995 in Russian Federation. Latitude 44 deg. 48' 30'' N. Longitude 38 deg. 21' E. Elevation 80 m. pH 5.4-5.6.

The following were collected by Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States; Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Melvin Rumbaugh, R.R. 3, Box 125, Humboldt, Nebraska 68376, United States; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Jay Hart, 20 Bush Lane, Ithaca, New York 14850, United States; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 618783. *Phleum pratense* L.**

Wild. 0049; VIR 215; US 49; W6 17836. Collected 09/03/1995 in Russian Federation. Latitude 44 deg. 12' 30'' N. Longitude 40 deg. 15' 10'' E. Elevation 550 m. Province Maykop, 5 km. southeast of Dakhovskaya. Past logged, now roadway. Slope 0-5%, aspect SE. Light open. Soil clay-loam upper-25 cm., clay >25 cm., pH 5.5-6.5. Seasonally dry, mid slope. Vegetation closed, evergreen tall grass and broad-leafed herb vegetation. Surrounding vegetation evergreen open forest with closed lower layers. Dominant tree species *Quercus* sp. Dominant shrub species *Rosa* sp. Dominant herb/grass species *Daucus* c., *Trifolium* sp., *Achellia* sp., *Geranium* sp., *Brachypodium* p., *Festuca* sp., *Calamagrostis* sp., *Agrostis* sp., *Phleum* sp. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618784. *Phleum pratense* L.**

Wild. 0060; VIR 217; US 60; W6 17840. Collected 09/04/1995 in Russian Federation. Latitude 44 deg. 37' 7'' N. Longitude 40 deg. 29' 24'' E.

Elevation 350 m. 1 km. east of Yeroslavskaya, and 30+ km. east of Maykop. Area grazed. Slope 11-40%, aspect S. Light open. Soil clay, cracking, pH 6.3-6.8, large rocks in profile. Seasonally dry, lower slope. Vegetation closed, seasonal tall grass. Surrounding veg. open deciduous forest with closed lower layers. Dominant tree species *Crataegus* sp., *Quercus* sp., *Monogyna*, *Pentagyna*. Dominant shrub species *Rosa* sp., *Prunus* sp. Dominant herb/grass species *Achillea* sp., *Daucus* c., thistle, bindweed, chicory, *Bothriochloa* i., *Cynodon* d. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618785. *Phleum pratense* L.**

Wild. 0077; VIR 234; US 77; W6 17843. Collected 09/05/1995 in Russian Federation. Latitude 44 deg. 5' 4'' N. Longitude 40 deg. 50' 38'' E. Elevation 620 m. Province Maykop/Labrinsk, 10 km southeast of Psebay. Area grazed. Slope 6-10%, aspect SW. Light open. Soil clay, pH 5.1-5.6. Moist to seasonally dry, lower slope, stream terrace. Vegetation closed, evergreen broad-leafed herb vegetation. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Quercus robur*, *Quercus* sp., *Fagus* o., *Carpinus* c. Dominant shrub species *Laurocerosus* sp., *Crataegus* sp., *Rosa* sp., *Ribes* sp. Dominant herb/grass species *Lotus* c., *Achillia* sp., *Trifolium* sp., wild strawberry, *Geranium* sp., *Phleum* p., other grasses. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618786. *Phleum pratense* L.**

Wild. 0083; VIR 240; US 83; W6 17845. Collected 09/05/1995 in Russian Federation. Latitude 43 deg. 55' 0'' N. Longitude 41 deg. 13' 59'' E. Elevation 850 m. Cherkessk-Karachayeyesk Republic, 2 km. east of Pregradnaysc. Past logged, now grazed/hayed. Slope 0-5%, aspect S. Light open. Soil loam, pH 5.6-5.7. Moist to seasonally dry, stream terrace. Vegetation closed, evergreen broad-leafed herb vegetation. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Quercus* sp., *Fagus* o., *Betula* p. Dominant shrub species *Laurocerasus* o., *Ribes* sp., *Rosa* sp. Dominant herb/grass species *Achillea* sp., *Trifolium* sp., *Medicago* sp., *Geranium* sp., *Ambrosia* sp., *Daucus*, *Dactylis* g., *Phleum* p., *Lolium* p. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618787. *Phleum pratense* L.**

Wild. 0089; VIR 246; US 89; W6 17846. Collected 09/06/1995 in Russian Federation. Latitude 43 deg. 43' 9'' N. Longitude 41 deg. 35' 45'' E. Elevation 1200 m. Cherkessk-Karachayeyesk Republic, 8 km. south of Marvkha. Area grazed/hayed. Slope 6-10%, aspect SW. Light open. Soil clay, pH 5.0-5.3. Moist to seasonally dry, ridgetop, upper slope. Vegetation closed, evergreen broad-leafed herb vegetation. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Alnus* i., *Corealus* a. Dominant shrub species *Rhododendron* sp., *Rosa* sp., *Ribes* sp. Dominant herb/grass species *Trifolium* sp., *Lotus* c., *Achillea* sp., Dandelion, *Deschampsia* c., *Phleum* p., *Dactylis* g.,

Agrostis sp., Calamagrostis sp. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618788. Phleum pratense L.**

Wild. 0115; VIR 270B; US 115; W6 17854. Collected 09/09/1995 in Russian Federation. Latitude 43 deg. 15' 15'' N. Longitude 41 deg. 49' 43'' E. Elevation 2050 m. Karachayevo-Cherkesskaya Republic, 30 km. southeast of Teberda near Klukhor Pass to Georgia. Past grazed, now roadway. Slope 6-10%, aspect SW. Light 1/4 shade. Soil loam, pH 5.7-6.1. Seasonally dry, upper slope, rock outcrop. Vegetation closed, evergreen and deciduous open forest with closed lower layers. Surrounding vegetation evergreen tall grass and broad-leafed herb vegetation. Dominant tree species Pinus sp., Abies sp., Picea sp., Betula sp. Dominant shrub species Juniperus sp., Rhododendron sp. Dominant herb/grass species Achillea sp., Achimilla sp., Trifolium sp., Vicia sp., Lotus c., Hedysarum h., Agrostis sp., Calamagrostis sp., Phleum p., Dactylis g., Festuca sp., Deschampsia c. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618789. Phleum pratense L.**

Wild. 0129; VIR 261; US 129; W6 17859. Collected 09/07/1995 in Russian Federation. Latitude 43 deg. 28' 27'' N. Longitude 41 deg. 40' 54'' E. Elevation 1800 m. Karachayevo-Cherkesskaya Republic, 8 km. west of Teberda. Past logged, now grazed. Slope 41-60%, aspect S. Light 3/4 to shaded. Soil loam, pH 6.1. Seasonally dry, lower-mid slope. Vegetation closed, evergreen open forest with closed lower layers. Surrounding vegetation same. Dominant tree species Pinus s., Hamata on S. slope, Abies n., Picea o. on N. slope. Dominant shrub species Juniperus oblonga, Rosa sp., Ribes sp. Dominant herb/grass species Achillea sp., Trifolium sp., Coronilla sp., Lotus c., Deschampsia c., Festuca sp., Agrostis sp., Calamagrostis. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618790. Phleum pratense L.**

Wild. 0255; VIR 098; US 255; W6 17876. Collected 08/18/1995 in Russian Federation. Latitude 45 deg. 16' N. Longitude 36 deg. 57' E. Elevation 60 m. Mt. Blevaka, 2 km. west of site #8. Area grazed. Slope 6-10%, aspect N. Light open. Soil loam, clay, pH 7.2. Seasonally dry, mid slope, mud volcano. Vegetation open, evergreen dwarf shrub steppe savanna. Dominant tree species Russian Olive, Hornbeam-Oak. Dominant shrub species Artemisia austriaca. Dominant herb/grass species Festuca sp., Phleum sp., occasional annual Medicagos. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618791. Dactylis glomerata L.**

Wild. 0081; VIR 238; US 81; W6 17844. Collected 09/05/1995 in Russian Federation. Latitude 43 deg. 55' 0'' N. Longitude 41 deg. 13' 59'' E. Elevation 850 m. Cherkessk-Karachayeysk Republic, 2 km. east of Pregradnaysc. Past logged, now grazed/hayed. Slope 0-5%, aspect S. Light open. Soil loam, pH 5.6-5.7. Moist to seasonally dry, stream terrace. Vegetation closed, evergreen broad-leafed herb vegetation. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Quercus* sp., *Fagus* o., *Betula* p. Dominant shrub species *Laurocerasus* o., *Ribes* sp., *Rosa* sp. Dominant herb/grass species *Achillea* sp., *Trifolium* sp., *Medicago* sp., *Geranium* sp., *Ambrosia* sp., *Daucus*, chicory, *Dactylis* g., *Phleum* p., *Lolium* p. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618792. *Phleum pratense* L.**

Wild. 0001; VIR 198; US 1; W6 17819. Collected 09/01/1995 in Russian Federation. Latitude 44 deg. 9' 28'' N. Longitude 40 deg. 1' 50'' E. Elevation 1250 m. Province Maykop, 15 km. southwest of Dakhovskaya. Past logged, now grazed/hayed. Slope 0-5%, aspect N. Light 1/4 shade. Soil loam, pH neutral. Moist to seasonally dry, lower slope. Vegetation closed, evergreen broad-leafed herb vegetation. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Acer* sp. Dominant shrub species *Laurocerasus* o., *Rosa* sp. Dominant herb/grass species *Geranium sanguineum*, *Clinopodium vulgare*, *Betonica macrantia*, *Brachypodium pinnatum*, *Calamagrostis* a., *Phleum montanum*. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 618793. *Phleum pratense* L.**

Wild. VIR D147; W6 17788. Collected 09/05/1995 in Russian Federation. Latitude 44 deg. 10' 2'' N. Longitude 40 deg. 50' 56'' E. Elevation 550 m. Province Maykop, 1.5 km. north of Psebay. Past and current grazing. Slope 0-5%, aspect SW. Light 1/2 shade. Soil loam/sand with gravel, pH 6.7. Site moist, stream terrace. Vegetation closed, open deciduous forest with closed lower layers. Surrounding vegetation evergreen tall grass and seasonal broad-leafed herb vegetation. Dominant tree species Hornbeam-Oak, *Carpinus* sp. Dominant shrub species *Carpinus* c., *Q. petraea*, willows, *Ribes*. Dominant herb/grass species *Asperula* sp., *Festuca* d., *Erytregia* sp., *Calamagrostis* sp., *Lolium* p. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 618794. *Poa subfastigiata* Trin.**

Wild. 96S-37; W6 19579. Collected 08/1996 in Mongolia. Latitude 44 deg. 49' 50'' N. Longitude 96 deg. 48' 50'' E. Elevation 1215 m. Gobi-Altai Aimag, Tsogt Sum, Bayantoorai Bag, experimental farm area 10 km north of the Bag. 3% south slope. Desert steppe. Low piedmont site with brown fine sandy soils. Crops are being grown under irrigation. DOMINANT VEG: Agricultural crops including corn, tomatoes, potatoes, cucumbers, watermelon. Associated Native Species: *Setaria viridula*, *Zygophyllum*, *Artemisia*, *Tribulus terrestris*.

**PI 618795. *Bromus squarrosus* L.**

Wild. 96S-103; W6 19622. Collected 09/1996 in Mongolia. Latitude 48 deg. 3' 59'' N. Longitude 91 deg. 42' 12'' E. Elevation 1425 m. Khovd Aimag, Buyant Sum, close to an experimental area about 2 km from the aimag center. 1% southeast slope. Wide valley bottom that is currently being used for growing vegetables and making hay. Soils are alluvial. Soils are coarse brown sandy loams. DOMINANT VEG: Vegetables and annual grasses.

The following were collected by Douglas R. Dewey, USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah 84322, United States; Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 01/16/1992.

**PI 618796. *Elymus macrochaetus* (Nevski) Tzvelev**

Wild. DJ-4123A; Agafonov #34; W6 10284. Collected 08/09/1985 in Kazakhstan. Latitude 43 deg. 15' 0'' N. Longitude 76 deg. 57' 0'' E. In mountains near Alma Ata, Siberia.

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/17/1993.

**PI 618797. *Elytrigia intermedia* (Host) Nevski**

Wild. JA-134; VIR U-0134984; W6 13899. Collected 1992 in Russian Federation. Latitude 48 deg. 8' N. Longitude 60 deg. 16' E. Elevation 230 m. Clay soil in low area 60km east northeast of Chelkar. Annual precipitation 150mm. Dominated by stands of *Thinopyrum intermedium* and *Artemisia terrae-albae*.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil

Institute, Pygevsy, per., 7., Moscow, Moscow 109017, Russian Federation.  
Received 01/1996.

**PI 618798. *Elytrigia intermedia*** (Host) Nevski

Wild. VIR 103; W6 17737. Collected 08/18/1995 in Russian Federation. Latitude 45 deg. 16' 43'' N. Longitude 36 deg. 57' 57'' E. Elevation 10 m. Province Temrjuk-Novorossiysk, village Senah/Fanagaria, Greek ruins, southwest of Temrjuk. Past settlement, now grazed. Slope 0-5%, aspect NE. Light open. Soil sand, pH 7.0-7.6. Seasonally dry, beach terrace. Vegetation open, evergreen dwarf shrub steppe savanna. Surrounding vegetation seasonal tall grass. Dominant tree species Hornbeam-Oak, Russian Olive. Dominant shrub species *Artemisia austriaca*. Dominant herb/grass species *Elytrigia elongatum*, *Agropyron cristatum*, Bermuda grass, Puncture Vine, Forbs, wild mustard. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

**PI 618799. *Phleum phleoides*** (L.) H. Karst.

Wild. VIR D27; W6 17803. Collected 07/19/1995 in Russian Federation. Latitude 44 deg. 24' 13'' N. Longitude 40 deg. 33' 3'' E. Elevation 650 m. pH 5.6-5.8.

The following were collected by Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States; Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Melvin Rumbaugh, R.R. 3, Box 125, Humboldt, Nebraska 68376, United States; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Jay Hart, 20 Bush Lane, Ithaca, New York 14850, United States; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsy, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 618800. *Deschampsia cespitosa*** (L.) P. Beauv.

Wild. 0021; VIR 186; US 21; W6 17825. Collected 08/31/1995 in Russian Federation. Latitude 44 deg. 3' 49'' N. Longitude 40 deg. 1' 5'' E. Elevation 1850 m. Province Maykop, 30 km. southwest of Dakhovskaya. Past logged, now grazed and roadway. Slope 6-10%, aspect S. Light 1/4 shade. Soil loam. Moist to seasonally dry, ridgetop, rock outcrop. Vegetation closed, evergreen and some deciduous forest with closed lower layers. Surrounding vegetation evergreen broad-leafed herb vegetation. Dominant tree species Caucasus Beech, Spruce-Fir, Pinus. Dominant shrub species Juniperus o. Dominant herb/grass species *Calamagrostis* c., *Lolium* p., *Plantago* sp., *Trifolium*, *Cirsium* and other Thistle sp., *Rumex* sp., *Cephalaris* sp. Population distribution uniform, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 05/1995.

**PI 618801. *Melica turczaninowiana*** Ohwi

Wild. E94023; W6 17996. Collected 09/1994 in Mongolia. Latitude 47 deg. 4' 6'' N. Longitude 109 deg. 17' 0'' E. Elevation 1463 m. Near herder winter camp at toe-slope of small range of mountains adjacent to Herlen River. Mountain-grass steppe. Soils shallow, even on toe-slope. Position near camp indicates heavy winter grazing occurs.

**PI 618802. *Phleum phleoides*** (L.) H. Karst.

Wild. W94053; W6 18203. Collected 09/1994 in Mongolia. Latitude 49 deg. 43' 5'' N. Longitude 105 deg. 17' 24'' E. Elevation 835 m. On Toibiin River about 60 km SW of Dzuunburen by air. Mountain steppe.

The following were collected by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States; Edward J. Garvey, USDA, ARS, Natl. Germplasm Resources Laboratory, Room 409, Building 003, BARC-West, Beltsville, Maryland 20705-2350, United States; Lufter Xhuveli, Agricultural University of Tirana, Dept. of Agronomy, Rr."Myslym Shyri", Tirana, Albania. Received 09/1996.

**PI 618803. *Phleum* sp.**

Wild. A1 051; W6 18630. Collected 08/26/1996 in Albania. Latitude 40 deg. 11' 54'' N. Longitude 20 deg. 10' 35'' E. Elevation 1290 m. Pastures of Cajup and surrounding hillside. With other grasses on rocky hillside. Height 30-40cm tall. Panicles large.

The following were collected by Daniel Taub, State University of New York, Dept. of Ecology & Evolution, Stony Brook, New York 11794, United States. Received 12/09/1996.

**PI 618804. *Poa compressa*** L.

Wild. 95-29; W6 19123. Collected 07/13/1995 in New York, United States. Latitude 40 deg. 50' 30'' N. Longitude 73 deg. 13' 30'' W. Blydenburgh County Park, Smithtown, NY. In very sandy soil along a horse trail.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 618805. *Phleum phleoides*** (L.) H. Karst.

Wild. 96S-158; W6 19663. Collected 09/1996 in Mongolia. Latitude 49 deg. 28' 58'' N. Longitude 97 deg. 21' 35'' E. Elevation 1815 m. Khovsgol Aimag, Tsetserleg Sum, located 20 km west of sum center. 6% north slope. Low mountain slope with open grasslands mixed with dense stands of Larch. Soils are very gravelly brown loamy soils with a darker surface horizon darker under the forest canopy. DOMINANT VEG: *Larix*\ *Potentilla tanacetifolia*\ *Elymus dahuricus*, *Carex* spp., *Bromus inermis*, *Caragana* spp.

The following were donated by Leopoldo Montes, E.E.A. - I.N.T.A., Santa Cruz, CC. 332 - (9400) Rio Gallegos, Santa Cruz, Santa Cruz, Argentina. Received

03/1995.

**PI 618806. *Poa duseunii* Hack.**

Uncertain. RGA 251; W6 19129. Collected 1991 in Santa Cruz, Argentina. Latitude 49 deg. 18' 0'' S. Longitude 67 deg. 43' 0'' W. San Julian.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 05/1995.

**PI 618807. *Elytrigia repens* (L.) Desv. ex Nevski**

Wild. W94029; W6 18184. Collected 09/1994 in Mongolia. Latitude 50 deg. 2' 23'' N. Longitude 105 deg. 50' 27'' E. Elevation 875 m. About 4 km SW of Dzuunburen, in floor of Selenge River Valley. Relatively wet meadow.

The following were developed by L.H. Edwards, Oklahoma State University, Department of Agronomy, Stillwater, Oklahoma 74078, United States. Received 04/20/2001.

**PI 618808. *Glycine max* (L.) Merr.**

Cultivar. "Catoosa"; OK92650. Pedigree - Miles X Lee 74. Mid-Group V, averaging 76 cm tall with good shattering and lodging resistance. Flowers purple, tan pods, gray pubescences, and exhibits determinate growth habit. Seeds yellow with dull seedcoat luster. Average seed weight 20.0 g 100 seed-1 and averages 1207 seeds kg-1. Seed protein and oil contents average 41.9 and 20.0%, respectively. Tolerant of soybean cyst nematode (*Heterodera glycines*) race 3 and southern root knot nematode (*Meloidogyne incognita*), but susceptible to stem canker (*Diaporthe phaseolorum*) and races 2 and 14 (former r.4) of soybean cyst nematode.

**PI 618809. *Glycine max* (L.) Merr.**

Cultivar. "Washita"; OK896001. Pedigree - Essex X Gail. Mid-Group V averaging 73 cm tall with good shattering and lodging resistance. Flowers purple, gray pubescences, tan pod walls, and exhibits determinate growth habits. Average seed weight 15.4 g per 100 seeds and averages 1112 seeds per kilogram. Seed protein and oil content averages 43.7 and 19.8%, respectively. Resistant to soybean cyst nematode (*Heterodera glycines*) races 2, 3, and 4 and southern root knot nematode (*Meloidogyne incognita*). Susceptible to stem canker (*Diaporthe phaseolorum*).

The following were developed by Maurice Snook, USDA-ARS, Tobacco Quality and Safety Lab, P.O. Box 5677, Richard Russell Research Cntr, Athens, Georgia 30605, United States; Bill R. Wiseman, USDA-ARS, Georgia Coastal Plains Experiment Station, Insect Biology Lab, Tifton, Georgia 31793-0748, United States; Brian T. Scully, University of Florida, Everglades Experiment Center, P.O. Box 8003, Belle Glade, Florida 33430, United States; Greg Nuessly, University of Florida, Everglades REC, 3200 E. Palm Beach Rd., Belle Glade, Florida 33430, United States. Donated by Brian T. Scully, University of Florida, Everglades Experiment Center, P.O. Box 8003, Belle Glade, Florida 33430, United States. Received 04/20/2001.

**PI 618810. *Zea mays* L. subsp. *mays***

Cultivar. "Zapalote Chico 2451F"; AC-2451F; Zap. Chico 2451F; Capalote Chico 2451#(P)C3; ZC-2451#(P)C3. GP-370. Pedigree - Derived from three cycles of recurrent mass selection from a population developed in Tifton, GA and coded as ZC 2451#(P)C3, which is a selected purple phenotype of the land race Zapalote Chico, originally from Oaxaca, Mexico and held at CIMMYT as Oaxaca Gpo.35. White kernel floury corn with a purple plant. Improved silk resistance to the fall armyworm (FAW) (*Spodoptera frugiperda*) and the corn earworm (CEW) (*Heliothis zea*), and the corn silk fly (CSF) (*Euxesta stigmatias*). Resistance is based on chemical antibiosis and conferred by the flavone glycoside, maysin and its chemical analogues. Maysin is present in the emerging silk at levels of 0.52% of fresh silk weight, above the 0.20% considered toxic to ear feeding lepidopterans. Early population often maturing in less than 75 days in tropical and subtropical climates. Does not appear to be photoperiod sensitive.

The following were developed by Jim D. Kelly, Michigan State University, Department of Crop & Soil Science, 370 Plant & Soil Sci. Bldg. MSU, East Lansing, Michigan 48824-1325, United States; Phillip Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350-9687, United States. Received 05/03/2001.

**PI 618811. *Phaseolus vulgaris* L.**

Breeding. USCR-7. GP-220. Pedigree - C92158/6/T.HORT\*3/3/Montcalm//BRB-33/Montcalm. Upright bush cranberry bean with complete resistance to BCMV and BCMNV potyviruses. Also has Co-1 gene for resistance to *Colletotrichum lindemuthianum*.

**PI 618812. *Phaseolus vulgaris* L.**

Breeding. USCR-9. GP-221. Pedigree - C92161/6/C92158/5/T.Hort.\*2/3/Montcalm//BRB-33/Montcalm. Upright bush cranberry bean with complete resistance to BCMV and BCMNV potyviruses. Susceptible to *Colletotrichum lindemuthianum*.

The following were developed by Phillip Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350-9687, United States. Received 05/03/2001.

**PI 618813. *Phaseolus vulgaris* L.**

Breeding. "USLK-2". Pedigree - CELEK\*2/5/Montcalm/4/BRB-33//CELRK/Chinook-2000/3/K88401/CELRK. Light red kidney with complete resistance to BCMV and BCMNV except strain NL-3K. Upright bush growth habit and the Co-1 gene for resistance to *Colletotrichum lindemuthianum*.

The following were developed by An Hang, USDA, ARS, National Small Grains Germplasm, Research Facility, Aberdeen, Idaho 83210, United States; Jim D. Kelly, Michigan State University, Department of Crop & Soil Science, 370 Plant & Soil Sci. Bldg. MSU, East Lansing, Michigan 48824-1325, United States; Phillip Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350-9687, United States; Carl Strausbaugh, University of Idaho, Research & Extension Center, 3793 North, 3600 East, Kimberly, Idaho 83341, United States; R. Forster, University of

Idaho, 3793 North 3600 East, Kimberly, Idaho 83341, United States. Received 05/03/2001.

**PI 618814. *Phaseolus vulgaris* L.**

Breeding. USDK-4. GP-223. Pedigree - Montcalm\*2/Red Hawk/5/BRB-33//CELRK/Chinook-200/3/K88401/CELRK/4/Montcalm. Dark red kidney with complete resistance to BCMV and BCMNV except strain NL-3K. Upright bush growth habit and the Co-1 gene for resistance to *Collectotrichum lindemuthianum*.

**PI 618815. *Phaseolus vulgaris* L.**

Breeding. USWK-6. GP-224. Pedigree - 94T1661/6/Red Hawk/5/BRB-33//CELRK/Chinook-2000/3/K88401/CELRK/4/Montcalm. White kidney with complete resistance to BCMV and BCMNV. Upright bush growth habit and the Co-1 gene for resistance to *Collectotrichum lindemuthianum*.

The following were developed by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States; N. Jerry Chatterton, USDA-ARS, Forage & Range Research, Utah State University, Logan, Utah 84322-6300, United States; Douglas R. Dewey, USDA-ARS, Forage and Range Research Laboratory, Utah State University, UMC-63, Logan, Utah 84322, United States; Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 04/30/2001.

**PI 618816. *Leymus hybrid***

Breeding. *Leymus hybrid*-1. GP-82. Pedigree - Developed from eight cycles of recurrent selection within a segmental autoallopolyploid population that originated from intercrossing three hybrids. Population I was a cross between *L. racemosus* (PI 313965) x *L. angustus* (PI 314682) which produced a 70 chromosome hybrid that resulted from an unreduced *L. racemosus* egg, n=28, fertilized by a reduced *L. angustus* gamete, n=42. Population II was a 98 chromosome hybrid that originated from a cross that involved an unreduced *L. cinereus* (PI 286809) gamete. Three way cross combining genetic material from Altai wildrye (*Leymus angustus*), Great Basin wildrye (*L. cinereus*), and mammoth wildrye (*L. racemosus*). Cross pollinating and behaves meiotically as a segmental autoallopolyploid with multiple copies of the Ns and Xsm genomes from *Psathyrostachys* and an unknown diploid progenitor. In environments where annual precipitation ranges from 400-500 mm, dry matter production exceeded the current Altai wildrye cultivars at mid August by 36% and at late November by 42%. Forage quality lower than the check cultivars throughout the year. However, increased dry matter yields more than compensated in available nutrient levels. Should be utilized as a standing forage for winter grazing.

The following were donated by Matt Erasmus, ARC, Range and Forage Institute, Private Bag X05, Lynn East, South Africa. Received 02/23/1996.

**PI 618817. *Acanthosicyos naudinianus* (Sond.) C. Jeffrey**

Wild. 010102; Prime No. 02EW; Grif 14017. Fruits oval shaped, green, with green spines. Fruit 6 to 8 centimeters in length by 4 to 5 centimeters in diameter. High yield of fruits per plant with many seed, greater than 200 seed/fruit. Plants small and not overly spreading, not

climbing.

The following were donated by Royal Botanic Gardens, Kew, Surrey, England TW9 3AB, United Kingdom. Received 02/22/1999.

**PI 618818. *Diplocyclos palmatus* (L.) C. Jeffrey**

Uncertain. 1987-2609; Grif 14231. Fruits round and berry-like, green with white longitudinal stripes turning to bright red with white longitudinal stripes at maturity. Fruit averages 1 to 2 centimeters in diameter. Moderate yield of fruit with relatively few (< 10) seed/fruit. Fruborne singly. Plant is relatively small and not aggressive, spreading and not climbing.

The following were donated by Bill Murray, Iowa State University, Econ., 183 Heady Hall, Ames, Iowa 50010, United States. Received 06/27/1990.

**PI 618819. *Cucumis melo* L. subsp. *melo***

Landrace. Ames 13855; White Lanzhou. Collected in China. Seed of the 'Wallace Melon' was given to China by Henry Wallace of Iowa during his visit to Gansu province in 1963. Seed was returned to USA as 'White Lanzhou'.

The following were donated by Joe Norton, Auburn University, Department of Horticulture, Auburn, Alabama 36849, United States; Wu Guang Xu, Hubei Agricultural College, Department of Horticulture, Jiangling, Jiangsu, China. Received 12/15/1993.

**PI 618820. *Cucumis melo* L. subsp. *melo***

Uncertain. W8 x C9; Ames 21762; Cai Melon.

**PI 618821. *Cucumis melo* L. subsp. *melo***

Uncertain. W9 x C1; Ames 21763; Xiao Qi Xue.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Weihong Gu, Shanghai Horticultural Institute, Shanghai Academy of Agricultural Sciences, Shanghai, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618822. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-005; Huang Jing Gua; Ames 22339. Small fruit with white flesh. Small cream colored seed. Thin skin, sweet, no storage life. Local variety reportedly cultivated for more than 400 years.

The following were collected by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural

Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618823. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-015; Sweet Melon; Ames 22340. Collected 07/15/1994 in Shanghai, China. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai. Vegetable market. Vegetable melon type fruit, 14 cm long, 3 cm in diameter, dark green, waxy skin with 10 yellow-green stripes.

**PI 618824. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-016; Sweet Melon; Ames 22341. Collected 07/15/1994 in Shanghai, China. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai. Vegetable market. Pyriforme fruit shape, 4 cm long, 2.5 cm in diameter, dark yellow skin with 10 dark green stripes.

**PI 618825. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-017; Sweet Melon; Ames 22342. Collected 07/15/1994 in Shanghai, China. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai. Vegetable market. Oval fruit shape, small, 5 cm long, 3 cm in diameter, light yellow skin with 10 pale green stripes, and green flesh.

**PI 618826. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-018; Sweet Melon; Ames 22343. Collected 07/15/1994 in Shanghai, China. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai. Vegetable market. Pyriforme fruit shape, 4 cm long, 4.5 cm in diameter, dark green, waxy skin with 10 dark yellow-green stripes.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Dewei Zhu, Vegetable and Floral Research Institute, Chinese Academy of Agricultural Sciences, Beijing, Beijing, China; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618827. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-030; Snow Phoenix Melon F1; Ames 22344. Sweet melon type fruit, white skin color, and white flesh. Early, vigorous, resistant to disease and humid condition with stable, good yield, soluble solids can reach 16%, 75 days, 18-25 C. Lit Cheong Agricultural Ltd., Unit B, 16/F, United Centre, .

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Ming Wang, Northwestern Agricultural Universtiy, Department of Horticulture, Yangling, Shaanxi, China; Xingping Zhang, Clemson University,

Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618828. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-038; "Yellow River Honeydew No. 2"; Ames 22345. Sweet melon type fruit, yellow skin color, and green flesh. Envelope indicates F1, but is actually an OP cultivar.

**PI 618829. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-039; "Yellow River Honeydew No. 3"; Ames 22346. Heavy netting, yellow skin color, and green flesh. Envelope indicates F1, but is actually an OP cultivar.

**PI 618830. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-040; "Xi Nong Honeydew"; Ames 22347. Thick skin, green flesh, and white seed. F1 cultivar.

**PI 618831. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-041; "Golden thin skinned melon"; Ames 22348. Sweet melon type fruit, small with white flesh. Small seed. Thin skin, very sweet. Cultivar.

**PI 618832. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-042; Xian thin skin melon; Ames 22349. Sweet melon type fruit, small with white flesh. Small seed. Thin skin. Landrace.

**PI 618833. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-043; "81301-1"; Ames 22350. True F1 cultivar. Japanese type?.

The following were collected by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618834. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-068; Sesame Seed melon; Ames 22351. Collected 07/21/1994 in Shaanxi, China. Latitude 34 deg. 17' 0'' N. Longitude 108 deg. 4' 0'' E. Yangling. Vegetable market. Sweet melon type fruit, 5.5 cm long, 4 cm in diameter, dark green skin with a dark green spot. Small seed. Uneven surface, full-slip, depressed blossom scar, buttery color around seed cavity. Landrace.

**PI 618835. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-069; Ames 22352. Collected 07/22/1994 in Xinjiang, China. DeBanChen. Vegetable market. Sweet melon type fruit, oval shape, 6.75 cm long, 6 cm in diameter, light netting, dark green striped skin. Large seed. Abscission, but fruit harvested at quarter-slip, nice aroma. Landrace.

**PI 618836. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-070; Ames 22353. Collected 07/22/1994 in Xinjiang, China. DeBanChen. Vegetable market. Sweet melon type fruit, oblate shape, 5 cm long, 5.75 cm in diameter, scant netting, narrow dark green stripes at blossom end and speckled at stem end of skin, green flesh. Large seed. Landrace.

**PI 618837. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-071; Ames 22354. Collected 07/22/1994 in Xinjiang, China. DeBanChen. Vegetable market. Sweet melon type fruit, oblate shape, 4.25 cm long, 5 cm in diameter, trace netting, yellow skin. Landrace.

**PI 618838. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-072; Ames 22355. Collected 07/22/1994 in Xinjiang, China. DeBanChen. Vegetable market. Hami type fruit, elongate shape, 12 cm long, 5.5 cm in diameter, heavy netting at stem, yellow skin with green spots (piel de sapo). Landrace.

**PI 618839. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-073; Beijing Li; Ames 22356. Collected 07/21/1994 in Shaanxi, China. Latitude 34 deg. 17' 0'' N. Longitude 108 deg. 4' 0'' E. Yangling. Vegetable market. Sweet melon type fruit, small, 3.5 cm long, 3.5 cm in diameter, wide striped skin, white flesh. Small seed. Landrace.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Uygur Village Committee, Turpan, Xinjiang, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618840. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-074; Li Chi Gan (Early); Ames 22357. Sweet melon type fruit. Reportedly has small oblate fruit, vein tracts, yellow skin at maturity, white flesh, and large seed. Landrace.

**PI 618841. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-075; "Hong Xin Cui (local Hami melon)"; Ames 22358. Hami type fruit, 12 cm long, 6 cm in diameter. Cultivar.

**PI 618842. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-076; Li Chi Gan (Early); Ames 22359. Sweet melon type fruit, oblate shape, small, 3 cm long, 3.5 cm in diameter, dark green skin, white flesh. Large seed. Landrace.

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

Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618843. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-106; "Changji Hong Xin Cui"; Ames 22360. Hami type fruit, oblong shape, light netting, yellow skin, salmon flesh. Self-pollinated fruit. Cultivar.

**PI 618844. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-107; "Pao Tai Hong"; Ames 22361. Hami type fruit, oblong shape, light netting, yellow skin, salmon flesh. Self-pollinated fruit. Cultivar.

**PI 618845. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-108; Xi Yu No. 1; Ames 22362. Oval fruit shape, light netting, grey-green skin, salmon flesh. F1 (some combination of Japanese x Hami x Perlita FR).

**PI 618846. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-109; Xi Yu No. 3; Ames 22363. Oval fruit shape, light netting, grey-green skin, salmon flesh. F1 (some combination of Japanese x Hami x Perlita FR).

**PI 618847. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-110; "#8303"; Ames 22364. Hami type fruit, oblong shape, light netting, yellow skin, salmon flesh. Cultivar.

**PI 618848. *Cucumis melo* L. subsp. *melo***

Uncertain. ZWRM-112; An Noon; Ames 22365. Oval fruit shape, light netting, grey-green skin, salmon flesh. Originally from Japan. Resistant to Fusarium wilt, gummy stem blight, alternaria, and CMV.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Meizhu Wu, Xinjiang Academy of Agricultural Science, Horticultural Institute, Urumqi, Xinjiang, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618849. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-113; Huan Dan Zi; Ames 22366. Oval fruit shape, ivory skin color, white flesh color. Landrace.

**PI 618850. *Cucumis melo* L. subsp. *melo***

Landrace. ZWRM-114; Mi Tang Guan; Ames 22367. Sweet melon type fruit, oval shape, ivory skin, white flesh. Resistant to virus and foliage disease. Landrace.

**PI 618851. *Cucumis melo* L. subsp. *melo***

Cultivar. ZWRM-115; "Fu Rong"; Ames 22368. Hami type fruit, oval shape, light netting, yellow skin, salmon flesh. Cross of Hami with Golden

Beauty Casaba. Cultivar.

The following were donated by Bruno Defay, Rue de la Croze, PEBELLIT, St. Germain Laprade, Haute-Loire 43700, France. Received 04/10/1996.

- PI 618852. *Cucumis melo* L.**  
Cultivated. Ames 22808; Baishami.
- PI 618853. *Cucumis melo* L.**  
Cultivated. Ames 22809; Baishami R..
- PI 618854. *Cucumis melo* L.**  
Cultivated. Ames 22810; Longtian #1.
- PI 618855. *Cucumis melo* L.**  
Cultivated. Ames 22811; Shengkaihua.
- PI 618856. *Cucumis melo* L.**  
Cultivated. Ames 22812; Shengkaihua.
- PI 618857. *Cucumis melo* L.**  
Cultivated. Ames 22813; Xiaobia #1.

The following were collected by Roshan Klein, Richland, Washington, United States. Donated by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 1996.

- PI 618858. *Cucumis melo* L.**  
Cultivated. Ames 23832; W6 17438. Collected 09/1995 in Xinjiang, China. Latitude 39 deg. 29' 0'' N. Longitude 75 deg. 58' 0'' E. Kashgar (also known as Kashi). Large seeded. Possibly Hami melon.
- PI 618859. *Cucumis melo* L.**  
Uncertain. W6 17734; Ames 24046. Collected 05/1990 in Xinjiang, China. Latitude 43 deg. 48' 0'' N. Longitude 87 deg. 35' 0'' E. Urumqi. Melon ~2-3 kg, with a smooth dark green skin. Flesh orange colored, firm, and sweet.

The following were developed by Institute of Vegetables, Agric. & Forest, Academy of Hebei, Wuhan, Hubei, China. Donated by David W. Davis, University of Minnesota, Department of Horticultural Sciences, 334 Alderman Hall, St. Paul, Minnesota 55108, United States. Received 09/18/1986.

- PI 618860. *Cucumis sativus* L. var. *sativus***  
Cultivar. Ames 7117; JI Cucumber 2. 30 cm in length, 3.5 cm in diameter. Short leading end and dark green peel. The fruit surface gives glazing light, with little tumors. Rich in white thorn and few in branching. Primary vine is the producer. Often the first female flower locates between 4-6 node, and the following fruits can be found at each distance of approximately 2.3 to 1.7 node. Highly resistant to Cucumber Downy Mildew (*Pseudoperonospora cubensis*) and Powdery Mildew of Cucumber (*Erysiphe cichoracea* rum or *Sphaerotheca fuliginea*). Intermediately tolerant to Fusarium wilt of cucumber (*F. oxysporum* f. sp. *cucumerinum*).

**PI 618861. *Cucumis sativus* L. var. *sativus***

Cultivar. Ames 7118; Ji Cai 3. 34 cm in length and about 100-200 grams in weight. Dark green peel, numerous in white spines, and good in quality. Time from sowing to maturity: 120 days (approx.). Resistant to: *Pseudoperonospora cubensis*, *Pseudomonas lachrymans*, *Phytophthora infestans*. Tolerant to: *Erysiphe cichoracearum* (or *Sphaerotheca fuliginea*) and *Fusarium oxysporum* f. sp. *cuckmerinum*.

The following were donated by Zhenhua Guo, Dept. of Germplasm Resources, Vegetable Res. Institute, CAAS, 30 Baishigiao Road, Beijing, Beijing, China. Received 09/07/1988.

**PI 618862. *Cucumis sativus* L. var. *sativus***

Cultivar. "Zhong Nong No. 3"; Ames 10088. Hybrid; all female, CMV tolerant, downy mildew resistant.

**PI 618863. *Cucumis sativus* L. var. *sativus***

Cultivar. "Zhong Nong No. 4"; Ames 10089. Hybrid; all female, CMV tolerant, downy mildew resistant.

**PI 618864. *Cucumis sativus* L. var. *sativus***

Cultivar. "Zhong Nong No. 5"; Ames 10090. Hybrid; all female, CMV resistant, downy mildew resistant.

The following were donated by Shu De Lee, Chinese Academy of Agricultural Sciences, 30 Baishigiao Rd., Beijing, Beijing 100094, China. Received 05/09/1991.

**PI 618865. *Cucumis sativus* L. var. *sativus***

Uncertain. Ames 15676.

The following were developed by Tianjin Cucumber Research Institute, Tianjin Academy of Agricultural Science, No. 295, Baaidi Road, Tianjin, Tianjin, China. Donated by Richard W. Robinson, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456, United States. Received 11/15/1991.

**PI 618866. *Cucumis sativus* L. var. *sativus***

Cultivar. "Jinyan No. 4"; 19; Ames 18059.

**PI 618867. *Cucumis sativus* L. var. *sativus***

Cultivar. "Jinza No. 2"; 20; Ames 18060.

The following were developed by Northwest Agricultural University, Yangling, Shaanxi, China. Donated by Richard W. Robinson, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456, United States. Received 11/15/1991.

**PI 618868. *Cucumis sativus* L. var. *sativus***

Cultivar. "Nong Chen No. 3"; 30; Ames 18061.

**PI 618869. *Cucumis sativus* L. var. *sativus***

Cultivar. "Nong Chen No. 4"; 32; Ames 18062.

**PI 618870. Cucumis sativus L. var. sativus**

Cultivar. "Nong Chen No. 12"; 31; Ames 18063.

The following were donated by Tong Daxiang, Institute of Crop Germplasm Resources, Chinese Academy of Agricultural Sciences, 30 Bai Shi Qiao Road, Beijing, Beijing, China. Received 02/02/1993.

**PI 618871. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 10; Ames 20146; Hei you tiao.

**PI 618872. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 14; Ames 20147; Ji cai 3 hao huang gua.

**PI 618873. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 19; Ames 20148; Kai lu di huang gua.

**PI 618874. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 21; Ames 20149; Lu chun 26.

**PI 618875. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 22; Ames 20150; Lu chun 32.

**PI 618876. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 24; Ames 20151; Lu huang gua 1 hao.

**PI 618877. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 36; Ames 20152; Min zhu she huang gua (bai).

**PI 618878. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 37; Ames 20153; Xi an da ci huang gua.

**PI 618879. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 38; Ames 20154; Bian peng qing huang gua.

**PI 618880. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 39; Ames 20155; Mu xu yuan huang gua.

**PI 618881. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 40; Ames 20156; Gong zai tou huang gua.

**PI 618882. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 41; Ames 20157; Zao shou xiao hei ci.

**PI 618883. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 42; Ames 20158; Fu jian huang gua.

**PI 618884. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 42; Ames 20159; Qing pi huang gua.

**PI 618885. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 44; Ames 20160; Min zhu she huang gua (hei).

**PI 618886. Cucumis sativus L. var. sativus**

Uncertain. Ex. No. 46; Ames 20161; Huang pi hei ci.

Unknown source. Received 11/25/1988.

**PI 618887. *Cucumis sativus* L.**

Uncertain. Chinese cucumber; Ames 21701. Collected in China.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Weihong Gu, Shanghai Horticultural Institute, Shanghai Academy of Agricultural Sciences, Shanghai, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618888. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-001; Yang Hang Huang Gua; Ames 22289. Small fruit. White seeds. Open-pollinated.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Zhougou Qi, Shanghai, Shanghai, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618889. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-008; Ames 22290. Cream seeds. Local cucumber grown in Shanghai area. Received in foil laminated envelope labeled "Shuang Wei".

The following were collected by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618890. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-013; Ames 22291. Collected 07/15/1994 in Shanghai, China. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai. Vegetable market. Slicer type fruit, knobby shape, 12 cm long, 3 cm in diameter, orange mature skin, warty, black spines.

**PI 618891. *Cucumis sativus* L. var. *sativus***

Uncertain. ZWRM-014; Ames 22292. Collected 07/15/1994 in Shanghai, China

. Latitude 31 deg. 6' 0'' N. Longitude 121 deg. 22' 0'' E. Shanghai.  
Vegetable market. Slicer type fruit, 8 cm long, 2 cm in diameter,  
orange mature skin.

**PI 618892. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-020; "Summer Producer"; Ames 22293. Collected 07/17/1994  
in Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0''  
E. Tianjin Dongjiao Seed Company, Zhengzhou. Vegetable market. Oriental  
trellis type fruit. Marketed by Tianjin Dong Jiao Seed Company.

**PI 618893. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-031; "3511"; Ames 22294. Collected 07/19/1994 in Henan,  
China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit. Cultivar.

**PI 618894. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-032; "Jin Za No.2"; Ames 22295. Collected 07/19/1994 in  
Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit. Early, high  
yield, high percentage of female flowers, can be grown under low  
temperatures, reportedly resistant to three diseases: Fusarium wilt,  
downy mildew, and powdery mildew. Huanongpai commercial brand.  
Cultivar.

**PI 618895. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-033; "Jin Yang No.4"; Ames 22296. Collected 07/19/1994 in  
Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit, 35 cm long,  
240 grams, dark green skin. First fruit sets at fifth or seventh node.  
Outdoor cultivation. Resistant to Fusarium wilt, downy mildew, and  
powdery mildew. Cultivar.

**PI 618896. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-034; "Jin Chun No.4"; Ames 22297. Collected 07/19/1994 in  
Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit. Resistant to  
Fusarium wilt, downy mildew, and powdery mildew. Best for early spring  
and late fall cultivation under plastic tunnel or field. Cultivar.

**PI 618897. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-035; "Non Cheng F1"; Ames 22298. Collected 07/19/1994 in  
Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit. Early.  
Cultivar.

**PI 618898. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-036; Xiao Ba Ca; Ames 22299. Collected 07/19/1994 in  
Henan, China. Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E.  
Zhengzhou. Vegetable market. Oriental trellis type fruit, 35 cm long.  
Resistant to low temperature, fruit will set at temperature below 10 C,  
early, first fruit will set from second to fourth node, very good yield,  
one of the most popular Chinese cucumbers for breeding, receive.

**PI 618899. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-037; Ames 22300. Collected 07/19/1994 in Henan, China.  
Latitude 34 deg. 45' 0'' N. Longitude 113 deg. 40' 0'' E. Zhengzhou.  
Vegetable market. Oriental trellis type fruit. Huanongpai Brand.

Cultivar.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Hongwen Cui, Northwestern Agricultural Universtiy, Department of Horticulture, Yangling, Shaanxi, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618900. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-052; "Nong Chen No. 5"; Ames 22301. Oriental trellis type fruit. Cultivar.

**PI 618901. Cucumis sativus L. var. sativus**

Landrace. ZWRM-053; Alfalfa Field; Ames 22302. Oriental trellis type fruit. Landrace.

**PI 618902. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-054; "Jin Yang No. 4"; Ames 22303. Oriental trellis type fruit. Cultivar.

**PI 618903. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-055; Nong Chen No. 5; Ames 22304. Oriental trellis type fruit. F1.

**PI 618904. Cucumis sativus L. var. sativus**

Landrace. ZWRM-056; Heishui (Black Fruit cucumber); Ames 22305. Oriental trellis type fruit. Landrace.

**PI 618905. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-057; Nong Chen No.1; Ames 22306. Oriental trellis type fruit. F1.

**PI 618906. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-058; Nong Chen No. 3; Ames 22307. Oriental trellis type fruit. F1.

**PI 618907. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-059; "Jin Yang No. 2"; Ames 22308. Oriental trellis type fruit. Cultivar.

**PI 618908. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-060; Nong Chen No. 2; Ames 22309. Oriental trellis type fruit. F1.

**PI 618909. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-061; Nong Chen No. 4; Ames 22310. Oriental trellis type fruit. F1.

**PI 618910. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-062; "Chang Chun Mi Ci"; Ames 22311. Oriental trellis type fruit. Meici (warty). Cultivar.

**PI 618911. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-063; "Hei Dan No. 1"; Ames 22312. Oriental trellis type fruit. Cultivar.

**PI 618912. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-064; "Jin Yang No. 1"; Ames 22313. Oriental trellis type fruit. Cultivar.

**PI 618913. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-065; "Jin Chun No. 2"; Ames 22314. Oriental trellis type fruit. Cultivar.

**PI 618914. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-066; "An Li Zao"; Ames 22315. Oriental trellis type fruit. Cultivar.

**PI 618915. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-067; Jin Za No. 2; Ames 22316. Oriental trellis type fruit. F1.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Dewei Zhu, Vegetable and Floral Research Institute, Chinese Academy of Agricultural Sciences, Beijing, Beijing, China; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618916. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-116; "Chang Chun Mi Ci"; Ames 22317. Oriental trellis type fruit. Cultivar.

**PI 618917. Cucumis sativus L. var. sativus**

Landrace. ZWRM-117; Xin Tai Mi Ci; Ames 22318. Landrace.

**PI 618918. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-118; Ames 22319. Commercial cultivar. Received in foil laminated package.

**PI 618919. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-119; "Zhong Nong No. 3"; Ames 22320. Cultivar.

**PI 618920. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-120; "Zhong Nong No. 4 F1"; Ames 22321. Cultivar.

**PI 618921. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-121; "Zhong Nong No. 5 F1"; Ames 22322. Cultivar.

**PI 618922. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-122; "Zhong Nong No. 1101 F1"; Ames 22323. Cultivar.

**PI 618923. Cucumis sativus L. var. sativus**

Cultivar. ZWRM-123; "Jin Chun No. 4"; Ames 22324. Cultivar. Same as ZWRM-034?.

**PI 618924. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-124; Er Qing; Ames 22325. Landrace.

**PI 618925. *Cucumis sativus* L. var. *sativus***

Uncertain. ZWRM-125; Ames 22326.

**PI 618926. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-126; Cun Jin; Ames 22327. Landrace.

**PI 618927. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-127; Da Ba Cha; Ames 22328. Landrace.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Chinese Academy of Agricultural Science, Vegetable and Floral Research Institute, Beijing, Beijing, China; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618928. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-128; Jin Er; Ames 22329. Landrace.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Dewei Zhu, Vegetable and Floral Research Institute, Chinese Academy of Agricultural Sciences, Beijing, Beijing, China; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618929. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-129; Bai Huang Gua; Ames 22330. White skin on fruit. Landrace.

**PI 618930. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-130; Yang Hang; Ames 22331. Landrace.

**PI 618931. *Cucumis sativus* var. *xishuangbannanensis* ined.**

Landrace. ZWRM-131; Qi Er Yuan; Ames 22332. Landrace.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United

States; Tianjin Cucumber Research Institute, Tianjin Academy of Agricultural Science, No. 295, Baaidi Road, Tianjin, Tianjin, China; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618932. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-143; Apple cucumber; Ames 22333. Light green skin on fruit when immature, white when mature. Landrace.

The following were donated by Todd Wehner, North Carolina State University, Department of Horticultural Science, P.O. Box 7609, Raleigh, North Carolina 27695-7609, United States; James D. McCreight, USDA, ARS, Agricultural Research Station, 1636 E. Alisal Street, Salinas, California 93905, United States; Xingping Zhang, Clemson University, Department of Horticulture, E-1417 & AS Building, Clemson, South Carolina 29634-0375, United States; Feng Hou, Tianjin Cucumber Research Institute, Tianjin Academy of Agricultural Science, No. 295, Baaidi Road, Tianjin, Tianjin, China; Bill Rhodes, Clemson University, Horticulture Department, E147 Poole Center, Clemson, South Carolina 29634-0375, United States. Received 02/21/1995.

**PI 618933. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-144; Guan Huan Gua; Ames 22334. Dark green skin on fruit, 15 cm long, spineless. Landrace.

**PI 618934. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-145; "South Korean Cucumber"; Ames 22335. Fruit 35-40 cm long, warty. Downy mildew, powdery mildew, and PG. Cultivar.

**PI 618935. *Cucumis sativus* L. var. *sativus***

Landrace. ZWRM-146; Short Hammer; Ames 22336. Slicer type fruit, 20-25 cm long, green skin. Guang Dong Province. Landrace.

**PI 618936. *Cucumis sativus* L. var. *sativus***

Breeding. ZWRM-147; Chi Xin Huan Gua; Ames 22337. Fruit 30 cm long. Gynococious, greenhouse, low light, low temperature. Breeding line.

**PI 618937. *Cucumis sativus* L. var. *sativus***

Cultivar. ZWRM-148; "Jin Chun No. 4"; Ames 22338. Cultivar.

The following were donated by Jack E. Staub, USDA, ARS, University of Wisconsin, Department of Horticulture, Madison, Wisconsin 53706, United States; Jim Feng Chen, Southwest Agricultural University, Beibei, Chongqing, Sichuan, China. Received 11/05/1996.

**PI 618938. *Cucumis sativus* L.**

Wild. Ames 23722; Anyang Ci. Collected 1996 in Hunan, China. North Chinese type. White spine.

**PI 618939. *Cucumis sativus* L.**

Wild. Ames 23723; Qingpi Huanggua. Collected 1996 in Jiangxi, China. South Chinese type. Black spine, 25 cm X 6 cm, yellow brown.

**PI 618940. *Cucumis sativus* L.**

Wild. Ames 23724; Daqing Huanggua. Collected 1996 in Guangdong, China. Latitude 23 deg. 7' 0'' N. Longitude 113 deg. 15' 0'' E. Guangzhou. South Chinese type. White spine, light green, 24 cm X 6 cm, column.

**PI 618941. *Cucumis sativus* L.**

Wild. Ames 23725; Langli Zhao. Collected 1996 in Hunan, China. South Chinese type.

**PI 618942. *Cucumis sativus* L.**

Wild. Ames 23726; Sigua Qing. Collected 1996 in Beijing, China. North Chinese type. Black spine, 25 cm X 5 cm, yellow brown.

**PI 618943. *Cucumis sativus* L.**

Wild. Ames 23727; Jin Yan No. 4. Collected 1996 in Tianjin, China. North Chinese type.

**PI 618944. *Cucumis sativus* L.**

Wild. Ames 23728; Yangzhou Ruhuanggu. Collected 1996 in Jiangsu, China. South Chinese type. Black spine, 23 cm X 5 cm, yellow brown.

**PI 618945. *Cucumis sativus* L.**

Wild. Ames 23729; Wenshang Cigua. Collected 1996 in Shandong, China. North Chinese type. White spine, 26 cm X 6 cm, yellow brown.

**PI 618946. *Cucumis sativus* L.**

Landrace. Ames 23730; Linyang Daci. Collected 1996 in China. North Chinese type. White spine, 40 cm X 6 cm, light green.

**PI 618947. *Cucumis sativus* L.**

Wild. Ames 23731; Qingyu Dan. Collected 1996 in Hubei, China. North Chinese type. Black spine, 18 cm X 6 cm, yellow brown.

**PI 618948. *Cucumis sativus* L.**

Landrace. Ames 23732; Lingqing Huanggua. Collected 1996 in China. South Chinese type. 28 cm X 6 cm, light yellow, column.

**PI 618949. *Cucumis sativus* L.**

Wild. Ames 23733; Baipi Huanggua. Collected 1996 in Jiangsu, China. South Chinese type. Light green.

**PI 618950. *Cucumis sativus* L.**

Wild. Ames 23734; Nanging Chating. Collected 1996 in Jiangsu, China. South Chinese type. Black spine, 26 cm X 5 cm, yellow brown.

**PI 618951. *Cucumis sativus* L.**

Wild. Ames 23735; Yiupi Huanggua. Collected 1996 in Anhui, China. South Chinese type. Black spine, 36 cm X 5 cm, yellow brown.

**PI 618952. *Cucumis sativus* L.**

Wild. Ames 23736; Baise Zhao. Collected 1996 in Guangxi, China. North Chinese type. White spine, 24 cm X 6 cm, light green, column.

**PI 618953. *Cucumis sativus* L.**

Wild. Ames 23737; Tanshan Qiugua. Collected 1996 in Tianjin, China. North Chinese type. White spine, 45 cm X 6 cm, yellow.

**PI 618954. *Cucumis sativus* L.**

Wild. Ames 23738; Hetao Dihuanggua. Collected 1996 in Hebei, China. South Chinese type. Black spine, 22 cm X 6 cm, brown.

**PI 618955. *Cucumis sativus* L.**

Wild. Ames 23739; Fuan Zhao. Collected 1996 in Hunan, China. North Chinese type.

**PI 618956. *Cucumis sativus* L.**

Wild. Ames 23740; Er Zhaozi. Collected 1996 in Sichuan, China. South Chinese type.

**PI 618957. *Cucumis sativus* L.**

Wild. Ames 23741; Chun Jinzi. Collected 1996 in Sichuan, China. South Chinese type.

**PI 618958. *Cucumis sativus* L.**

Wild. Ames 23742; Baisi Tiao. Collected 1996 in Sichuan, China. South Chinese type.

**PI 618959. *Cucumis sativus* L.**

Wild. Ames 23743; Jin Yan No. 7. Collected 1996 in Tianjin, China. North Chinese type.

**PI 618960. *Cucumis sativus* L.**

Cultivar. Ames 23744; Lu Di No. 2. Collected 1996 in Beijing, China. North Chinese type.

**PI 618961. *Cucumis sativus* L.**

Wild. Ames 23745; Xingtai Mici. Collected 1996 in Beijing, China. North Chinese type.

The following were donated by Asian Vegetable Research and Development Center, P.O. Box 42, Shanhua, Tainan, Taiwan; Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 618962. *Amaranthus cruentus* L.**

Breeding. "R 123"; CR004; A73-17; RRC 78S-67; RRC 67; Ames 2015. Collected 09/01/1977 in Benin. Pedigree - RRC 1034 was selected from this accession. Seeds brown. Foliage and inflorescence green. The RRC type is African Vegetable.

The following were donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States; R.R. Harwood, Winrock International, Petit Jean Mt., Morrilton, Arkansas 72110, Morrilton, Arkansas, United States. Received 02/20/1981.

**PI 618963. *Amaranthus caudatus* L.**

Landrace. RRC 125; RRC 78S-125; Ames 2062. Collected 09/01/1977 in Nepal. Tata Village. Seeds light tan. Inflorescences orange. Leaf color green. The RRC class type is edulis.

The following were donated by International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 12/07/1993.

**PI 618964. *Ipomoea triloba* L.**

Wild. Mex-32; DLP 4361; Grif 6175. Collected in Mexico.

**PI 618965. *Ipomoea triloba* L.**

Wild. DLP 4374; Mex-45; Grif 6176. Collected 11/1990 in Michoacan, Mexico. Latitude 18 deg. 11' 59'' N. Longitude 102 deg. 9' 36'' W. Elevation 720 m. Five kilometers NE of Arteaga-uruapan, East Michoacan, Mexico.

**PI 618966. *Ipomoea trifida* (Kunth) G. Don**

Wild. DLP 4379; Mex-50; Grif 6177. Collected 11/1990 in Michoacan, Mexico. Latitude 19 deg. 21' 0'' N. Longitude 102 deg. 15' 36'' W. Elevation 1250 m. Los Reyes D Salgado, East Michoacan, Mexico.

**PI 618967. *Ipomoea triloba* L.**

Wild. DLP 4380; Mex-51; Grif 6178. Collected 11/1990 in Michoacan, Mexico. Latitude 19 deg. 46' 12'' N. Longitude 102 deg. 13' 48'' W. Elevation 1250 m. Los Reyes D Salgado (sta Clara), East Michoacan, Mexico.

**PI 618968. *Ipomoea triloba* L.**

Wild. DLP 4385; Mex-56; Grif 6179. Collected 11/1990 in Michoacan, Mexico. Latitude 21 deg. 27' 36'' N. Longitude 99 deg. W. Elevation 5 m. Five kilometers south Cd Valles-tamazunchale, East San Luis Potosi, Mexico.

**PI 618969. *Ipomoea hederacea* Jacq.**

Wild. Mex-20; DLP 4349; Grif 6216. Collected in Mexico.

The following were donated by Al Jones, USDA/ARS, U.S. Vegetable Laboratory, 2875 Savannah Highway, Charleston, South Carolina 29414, United States. Received 1991.

**PI 618970. *Ipomoea hederacea* Jacq.**

Wild. 76.21; Grif 6219. Collected in Hong Kong.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 618971. *Festuca arundinacea* Schreb.**

Wild. X97-077; W6 20250. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 1' 46'' N. Longitude 81 deg. 28' 36'' E. Elevation 1020 m. 5 km east of Akedala Farm, 40 km east of Zhaosu County, Xinjiang. Ungrazed meadow, rough furrows, will not be cut for hay. Lush vegetation; may be subirrigated. No slope.

**PI 618972. *Festuca ovina* L.**

Wild. X97-083; W6 20254. Collected 08/1997 in Xinjiang, China. Latitude

43 deg. 1' 42'' N. Longitude 81 deg. 18' 23'' E. Elevation 1880 m. 30 km east of Zhaosu County, Xinjiang. Ungrazed hillside, rocky soil underlain with shale, very xeric site. Slope is 40% with south aspect.

**PI 618973. *Festuca arundinacea* Schreb.**

Wild. X97-086; W6 20256. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 2' 30'' N. Longitude 80 deg. 58' 58'' E. Elevation 1560 m. 20 km west of Zhaosu County, Xinjiang. Ungrazed meadow, will be cut for hay. Silt loam soil, low area surrounded by hills that would catch snow and spring runoff. No slope.

**PI 618974. *Bromus inermis* Leyss. subsp. *inermis***

Wild. X97-100; W6 20265. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 9' 52'' N. Longitude 81 deg. 37' 12'' E. Elevation 1320 m. 40 km east Zhaosu County, Xinjiang. Ungrazed meadow that will be cut for hay. Lush vegetation, silt loam soil. Slope is 2% with southwest aspect. Near Suasu River.

**PI 618975. *Festuca ovina* L.**

Wild. X97-129; W6 20286. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 29' 26'' N. Longitude 81 deg. 7' 24'' E. Elevation 1960 m. 50 km south of Yili City, Xinjiang. Moderately grazed hillside. Clay loam topsoil with stones 1-3 cm diameter. Moderately xeric site. Slope is 25% with southeast aspect.

The following were collected by Charles West, University of Arkansas, Altheimer Laboratory-Agronomy, 276 Altheimer Drive, Fayetteville, Arkansas 72703, United States; David A. Sleper, University of Missouri, Department of Agronomy, 201 Waters Hall, Columbia, Missouri 65211, United States; Jose Alberto Oliveira, Centro de Investigaciones Agrarias de Mabegondo, Apdo 10, La Coruqa, Spain. Received 12/1997.

**PI 618976. *Festuca arundinacea* Schreb.**

Wild. 93063; W6 20550. Collected 07/1993 in Spain. Latitude 37 deg. 9' 0'' N. Longitude 3 deg. 4' 0'' W. Elevation 1280 m. S side of Aldeire along stream in the province of Granada.

Unknown source. Received 11/19/1990.

**PI 618977. *Dactylis glomerata* L.**

Cultivar. "Arly"; W6 6225. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618978. *Dactylis glomerata* L.**

Cultivar. "Furly"; W6 6227. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618979. *Dactylis glomerata* L.**

Wild. 363 RAGT; W6 6228. Collected 11/19/1990 in France. Latitude 46 deg. 37' 0'' N. Longitude 0 deg. 4' 0'' E. Latille, West France.

Unknown source. Received 11/19/1990.

**PI 618980. *Dactylis glomerata* L.**

Wild. 378 RAGT; W6 6231. Collected 11/19/1990 in France. Latitude 46 deg. 52' 0'' N. Longitude 1 deg. 1' 0'' W. Les Herbiers, West France.

Unknown source. Received 11/19/1990.

**PI 618981. *Dactylis glomerata* L.**

Wild. 386 RAGT; W6 6232. Collected 11/19/1990 in France. Latitude 45 deg. 57' 0'' N. Longitude 0 deg. 58' 0'' W. Rochefort, West France.

Unknown source. Received 11/19/1990.

**PI 618982. *Dactylis glomerata* L.**

Wild. 399 RAGT; W6 6233. Collected 11/19/1990 in France. Latitude 44 deg. 43' 0'' N. Longitude 3 deg. 51' 0'' E. Langogne, Central France.

Unknown source. Received 11/19/1990.

**PI 618983. *Dactylis glomerata* L.**

Wild. 505 RAGT; W6 6234. Collected 11/19/1990 in France. Latitude 42 deg. 59' 0'' N. Longitude 1 deg. 8' 0'' E. St. Girons, Pyrenees, South France.

Unknown source. Received 11/19/1990.

**PI 618984. *Dactylis glomerata* L.**

Wild. 508 RAGT; W6 6235. Collected 11/19/1990 in France. Latitude 42 deg. 35' 0'' N. Longitude 1 deg. 48' 0'' E. L'Hospitalet, Pyrenees, South France.

Unknown source. Received 11/19/1990.

**PI 618985. *Festuca arundinacea* Schreb.**

Cultivar. "Raba"; W6 6240. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618986. *Festuca arundinacea* Schreb.**

Cultivar. "Donia"; W6 6243. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618987. *Festuca arundinacea* Schreb.**

Cultivar. "Adora"; W6 6244. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618988. *Festuca arundinacea* Schreb.**

Cultivar. "Sinfonia"; W6 6245. Developed in France.

Unknown source. Received 11/19/1990.

**PI 618989. *Festuca arundinacea* Schreb.**

Cultivar. 444 RAGT; W6 6246. Collected 11/19/1990 in France. Latitude 43 deg. 42' 0'' N. Longitude 1 deg. 49' 0'' E. Lavaur, near Toulouse, South France.

Unknown source. Received 11/19/1990.

**PI 618990. *Festuca arundinacea* Schreb.**

Wild. 446 RAGT; W6 6247. Collected 11/19/1990 in France. Latitude 43 deg. 18' 0'' N. Longitude 1 deg. 14' 0'' E. Carbonne, near Toulouse, South France.

The following were collected by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 11/02/1993.

**PI 618991. *Bromus inermis* Leyss. subsp. *inermis***

Wild. X93231; W6 13135. Collected 08/24/1993 in Xinjiang, China. Latitude 43 deg. 48' N. Longitude 87 deg. 51' E. Elevation 1600 m. High winter pasture at Tu Juan south of Xiejago Stud Farm, 90km S & E of Urumqi, lowland seepage, upper sites very dry. Bottom lands clay loam, side hills gravelly. Dominant species include *Artemisa boralensis*, *Stipa capillata*, *Festuca ovina*.

The following were collected by Peter Cunningham, Dept. of Agriculture & Rural Affairs, Pastoral Research Institute, P.O. Box 180, Hamilton, Victoria 3300, Australia; Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States; Saddik Saidi, Morocco; Mohammed Tazi, Morocco; Nezha Saidi, Morocco. Received 08/19/1994.

**PI 618992. *Dactylis glomerata* L.**

Wild. M226.CPG94; W6 15955. Collected 07/28/1994 in Morocco. Latitude 31 deg. 33' 4'' N. Longitude 7 deg. 35' 30'' W. Elevation 894 m. Near Taferiate/Ait-Ouir, 9 k east of Ait-Ouir on road P31, Marakech-Ouarzazate. Past grazed, now cultivated/protected. Slope 0-5%, aspect NE. 1/4 shade. Soil red sandy loam on calcareous schist/limestone, pH 9.5-10.0. Rainfall 350 mm. Seasonally dry, stream terrace. Vegetation closed, seasonal tall grass. Population abundance frequent, distribution patchy. Growth habit erect.

Unknown source. Received 11/19/1990.

**PI 618993. *Dactylis glomerata* L.**

Wild. 697 RAGT; W6 6238. Collected 11/19/1990 in Italy. Latitude 45 deg. 5' 0'' N. Longitude 10 deg. 32' 0'' E. Lodrone, Italy.

Unknown source. Received 11/19/1990.

**PI 618994. Festuca arundinacea Schreb.**

Wild. 956 RAGT; W6 6250. Collected 11/19/1990 in France. Latitude 48 deg. 27' 0'' N. Longitude 1 deg. 30' 0'' E. Chartres, Brittany, West France.

Unknown source. Received 11/19/1990.

**PI 618995. Festuca arundinacea Schreb.**

Wild. 964 RAGT; W6 6252. Collected 11/19/1990 in France. Latitude 48 deg. 24' 0'' N. Longitude 3 deg. 26' 0'' W. Callac, Brittany, West France.

Unknown source. Received 11/19/1990.

**PI 618996. Festuca arundinacea Schreb.**

Wild. 972 RAGT; W6 6254. Collected 11/19/1990 in Italy. Ragoli, Italy.

Unknown source. Received 11/19/1990.

**PI 618997. Festuca arundinacea Schreb.**

Wild. 977 RAGT; W6 6255. Collected 11/19/1990 in Italy. Latitude 45 deg. 45' 0'' N. Longitude 11 deg. 39' 0'' E. Marostica, Italy.

Unknown source. Received 11/19/1990.

**PI 618998. Festuca arundinacea Schreb.**

Wild. 978 RAGT; W6 6256. Collected 11/19/1990 in Italy. Latitude 45 deg. 49' 0'' N. Longitude 10 deg. 4' 0'' E. Lovere, Italy.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 618999. Lolium perenne L.**

Wild. ABY-BA 9821.80; W6 9329. Collected in Wales, United Kingdom. Latitude 52 deg. 2' N. Longitude 4 deg. 19' W. Elevation 220 m. Llandysul.

**PI 619000. Lolium perenne L.**

Wild. ABY-BA 9829.80; W6 9334. Collected in Wales, United Kingdom. Latitude 52 deg. 11' N. Longitude 2 deg. 51' W. Elevation 50 m. Dilwyn.

**PI 619001. Lolium perenne L.**

Wild. ABY-BA 9835.80; W6 9338. Collected in Wales, United Kingdom. Latitude 51 deg. 57' N. Longitude 3 deg. 3' W. Elevation 200 m. Llanthony.

**PI 619002. *Lolium perenne* L.**

Wild. ABY-BA 9838.81; W6 9341. Collected in Wales, United Kingdom. Latitude 52 deg. 25' N. Longitude 3 deg. 50' W. Elevation 330 m. Ponterwyd.

**PI 619003. *Lolium perenne* L.**

Wild. ABY-BA 10106.82; W6 9362. Collected in Norway. Latitude 58 deg. 53' N. Longitude 5 deg. 36' E. Elevation 25 m. Sola.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619004. *Bromus inermis* Leyss. subsp. *inermis***

Wild. 96S-132; W6 19644. Collected 09/1996 in Mongolia. Latitude 49 deg. 50' 31'' N. Longitude 94 deg. 1' 5'' E. Elevation 1085 m. Ubs Aimag, Zuun-gobi Sum, located in an experimental alfalfa seeding area about 100 km east of Ubs Noer. 2% slope. Experimental farm planted to alfalfa five years previously. Soils are brown sandy soils with very little gravel. DOMINANT VEG: *Medicago varia* + ragweed/ *Elymus* + *Bromus inermis*

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619005. *Festuca arundinacea* Schreb.**

Wild. X97-011; W6 20211. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 37' 7'' N. Longitude 81 deg. 49' 50'' E. Elevation 720 m. 5 km east of Yemadu Bridge, Xinjiang. Hillside going down into a drainage area and near edge of drainage area. Sandy loam soil. Slope is 30% going down into drainage area.

**PI 619006. *Festuca rubra* L.**

Wild. X97-022; W6 20215. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 14' 9'' N. Longitude 81 deg. 11' 25'' E. Elevation 2370 m. 8 km north Zhaosu Horse Breeding Farm, Xinjiang. High mountain meadow, silt loam, gently rolling landscape, native grassland, will be cut for winter hay, field road running through site. Slope is 2% with northwest aspect.

The following were collected by Warren M. Williams, Agriculture Research, Grasslands Research Centre, Fritzherbert West, Private Bags 11008, Palmerston North, North Island, New Zealand; Alan V. Stewart, Pyne Gould Guinness Ltd., P.O. Box 3100, 411 Blenheim Road, Christchurch, South Island 8015, New Zealand. Received 01/1998.

**PI 619007. *Festuca rubra* L.**

Uncertain. OR16; W6 20382. Collected 08/1997 in Oregon, United States. Latitude 43 deg. 29' 0'' N. Longitude 124 deg. 13' 0'' W. Elevation 0 m. 1/2 mile south of Hauser just inland of Highway 101. Lat/lon accurate to Hauser. Lagoon behind coastal dunes. Sand, 0-5% slope, 1/4 shade, seasonally inundated. Natural wetland bisected by highway.

**PI 619008. *Festuca rubra* L.**

Uncertain. OR98; W6 20439. Collected 08/1997 in Oregon, United States. Latitude 43 deg. 45' 0'' N. Longitude 122 deg. 34' 0'' W. Elevation 0 m. 2 miles west of town of Hemlock at West Beaver. Stream terrace, rough grazed field. Loam, 0-5% slope, open, moist/seasonally dry.

**PI 619009. *Festuca rubra* L.**

Uncertain. W12; W6 20467. Collected 08/1997 in Washington, United States. Latitude 46 deg. 59' 0'' N. Longitude 123 deg. 56' 0'' W. Elevation 0 m. 5 miles west of Aberdeen on Highway 109. Roadside, 6-10% slope, moist.

**PI 619010. *Festuca rubra* L.**

Wild. W44; W6 20486. Collected 08/1997 in Washington, United States. Latitude 48 deg. 10' 59'' N. Longitude 124 deg. 13' 2'' W. Elevation 50 m. Highway 113, 8 miles north of Sappho. Grassy clearing in logged forest. Loam, 0-5%, open, moist.

**PI 619011. *Festuca rubra* L.**

Wild. W81; W6 20503. Collected 08/1997 in Washington, United States. Latitude 48 deg. 7' 50'' N. Longitude 123 deg. 11' 50'' W. Elevation 3 m. Near town of Dungeness, sand dune area adjacent to wildlife reserve. Sand, 0-5% slope, open, seasonally dry.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 619012. *Lolium perenne* L.**

Wild. ABY-BA 10100.83; W6 9359. Collected in England, United Kingdom. Latitude 53 deg. 9' N. Longitude 1 deg. 38' W. Elevation 300 m. Winster.

Unknown source. Received 11/19/1990.

**PI 619013. *Dactylis glomerata* L.**

Wild. 375 RAGT; W6 6230. Collected 11/19/1990 in France. Latitude 46 deg. 45' 0'' N. Longitude 1 deg. 45' 0'' W. Apremont, West France.

The following were collected by Warren M. Williams, Agriculture Research, Grasslands Research Centre, Fritzerherbert West, Private Bags 11008, Palmerston North, North Island, New Zealand; Alan V. Stewart, Pyne Gould Guinness Ltd., P.O. Box 3100, 411 Blenheim Road, Christchurch, South Island 8015, New Zealand. Received 01/1998.

**PI 619014. *Festuca rubra* L.**

Uncertain. W72; W6 20500. Collected 08/1997 in Washington, United States. Latitude 48 deg. 7' 53'' N. Longitude 123 deg. 43' 24'' W. Elevation 20 m. East of Joyce in abandoned paddock, once grazed. Loam, 0-5% slope, open, seasonally dry.

The following were collected by Charles West, University of Arkansas, Altheimer Laboratory-Agronomy, 276 Altheimer Drive, Fayetteville, Arkansas 72703, United States; David A. Sleper, University of Missouri, Department of Agronomy, 201 Waters Hall, Columbia, Missouri 65211, United States; Jose Alberto Oliveira, Centro de Investigaciones Agrarias de Mabegondo, Apdo 10, La Coruqa, Spain. Received 12/1997.

**PI 619015. *Festuca arundinacea* Schreb.**

Wild. 93061; W6 20549. Collected 07/1993 in Spain. Latitude 37 deg. 10' 0'' N. Longitude 3 deg. 2' 0'' W. Elevation 1270 m. SW side of Ferreira along Rio Hondo in the province of Granada.

Unknown source. Received 11/19/1990.

**PI 619016. *Festuca arundinacea* Schreb.**

Wild. 963 RAGT; W6 6251. Collected 11/19/1990 in France. Latitude 48 deg. 17' 0'' N. Longitude 4 deg. 36' 0'' W. Camaret, Brittany, West France.

The following were collected by Warren M. Williams, Agriculture Research, Grasslands Research Centre, Fritzherbert West, Private Bags 11008, Palmerston North, North Island, New Zealand; Alan V. Stewart, Pyne Gould Guinness Ltd., P.O. Box 3100, 411 Blenheim Road, Christchurch, South Island 8015, New Zealand. Received 01/1998.

**PI 619017. *Festuca rubra* L.**

Uncertain. OR76; W6 20423. Collected 08/1997 in Oregon, United States. Latitude 46 deg. 14' 0'' N. Longitude 124 deg. 1' 0'' W. Elevation 0 m. Trestle Bay, Clatsop Spit. Sand dune, 6-10% slope, open, seasonally dry.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 619018. *Lolium perenne* L.**

Wild. ABY-BA 9820.80; W6 9328. Collected in Wales, United Kingdom. Latitude 52 deg. 2' N. Longitude 4 deg. 19' W. Elevation 220 m. Llandysul.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619019. *Bromus inermis* Leyss. subsp. *inermis***

Wild. 96N-217; W6 19709. Collected 08/1996 in Mongolia. Latitude 48 deg. 59' 45'' N. Longitude 97 deg. 14' 16'' E. Elevation 2048 m. Site is located on a small stream running into Holboo Nuur. It is 6 km southeast of the lake. 10% slope. Mountain meadow. It has a north aspect and is at the edge of the Larel forest and uphill 100 yards from the creek. DOMINANT VEG: *Carex pediformis*, *Poa pratensis*, *Dasiphora fruticosa*, *Sanguisorba officinalis*, *Geranium pratense* ECOLOGICAL ZONE:

Forest steppe.

Unknown source. Received 11/19/1990.

**PI 619020. *Dactylis glomerata* L.**

Cultivar. "Amplly"; W6 6226. Developed in France.

Unknown source. Received 11/19/1990.

**PI 619021. *Dactylis glomerata* L.**

Wild. 690 RAGT; W6 6237. Collected 11/19/1990 in Italy. Trucchi, Italy.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619022. *Bromus inermis* Leyss. subsp. *inermis***

Wild. 96N-371; W6 19835. Collected 09/1996 in Mongolia. Latitude 47 deg. 1' 59'' N. Longitude 93 deg. 18' 18'' E. Elevation 1355 m. Hovd Aimag, an abandoned wheat farm south of the highway from Hovd to Altai city. Less than 1% north slope. Site is directly south of the fence in the area previously under a circle irrigation. Soils are small gravel/sandy/ silt. DOMINANT VEG: *Crepis tectorum*, *Sausurea amara*, *Salsola salina*, *Medicago falcata*, *Corispermum chinganicum*, *Corispermum declinatum* ECOLOGICAL ZONE: Desert steppe.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619023. *Festuca rubra* L.**

Wild. X97-028; W6 20220. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 15' 4'' N. Longitude 81 deg. 8' 7'' E. Elevation 2170 m. Hongnahai Village, 8 km north of Zhaosu County, Xinjiang. Mountain meadow, flat area near a stream, moderately grazed, wet flood plain, not saline, loam soil, dense vegetation cover. No slope.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 619024. *Lolium perenne* L.**

Wild. ABY-BA 10101.83; W6 9360. Collected in England, United Kingdom. Latitude 53 deg. 17' N. Longitude 1 deg. 46' W. Elevation 246 m. Tideswell.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619025. *Festuca arundinacea* Schreb.**

Wild. X97-003; W6 20209. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 54' 1'' N. Longitude 80 deg. 58' 27'' E. Elevation 540 m. 10 km west of No. 68 Farm, 30 km southwest of Yili City, Xinjiang. Alluvial flood plain, sand and coarse stone with no slope. Near bank of Yili River.

Unknown source. Received 11/19/1990.

**PI 619026. *Festuca arundinacea* Schreb.**

Cultivar. "Pastelle"; W6 6241. Developed in France.

Unknown source. Received 11/19/1990.

**PI 619027. *Festuca arundinacea* Schreb.**

Wild. 451 RAGT; W6 6249. Collected 11/19/1990 in France. Latitude 42 deg. 38' 0'' N. Longitude 2 deg. 25' 0'' E. Prades, Pyrenees, South France.

Unknown source. Received 11/19/1990.

**PI 619028. *Dactylis glomerata* L.**

Wild. 509 RAGT; W6 6236. Collected 11/19/1990 in France. Latitude 42 deg. 33' 0'' N. Longitude 1 deg. 50' 0'' E. Porte-Puymorens, Pyrenees, South France.

Unknown source. Received 11/19/1990.

**PI 619029. *Festuca arundinacea* Schreb.**

Wild. 966 RAGT; W6 6253. Collected 11/19/1990 in France. Latitude 48 deg. 38' 0'' N. Longitude 2 deg. 4' 0'' W. Dinard, Brittany, West France

The following were collected by Warren M. Williams, Agriculture Research, Grasslands Research Centre, Fritzerherbert West, Private Bags 11008, Palmerston North, North Island, New Zealand; Alan V. Stewart, Pyne Gould Guinness Ltd., P.O. Box 3100, 411 Blenheim Road, Christchurch, South Island 8015, New Zealand. Received 01/1998.

**PI 619030. *Festuca rubra* L.**

Uncertain. W23; W6 20476. Collected 08/1997 in Washington, United States . Latitude 47 deg. 3' 29'' N. Longitude 124 deg. 0' 9'' W. Elevation 20 m. Town of Copalis Crossing. Seward Nursery. Ungrazed grassland (old

orchard). Loam, 0-5% slope, open, moist.

Unknown source. Received 11/19/1990.

**PI 619031. *Dactylis glomerata* L.**

Wild. 368 RAGT; W6 6229. Collected 11/19/1990 in France. Latitude 47 deg. 9' 0'' N. Longitude 0 deg. 32' 0'' W. Vihiers, West France.

Unknown source. Received 11/19/1990.

**PI 619032. *Festuca arundinacea* Schreb.**

Cultivar. "Sopline"; W6 6242. Developed in France.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 619033. *Lolium perenne* L.**

Wild. ABY-BA 9984.A81; W6 9352. Collected in Romania. Latitude 46 deg. 59' N. Longitude 21 deg. 49' E. Elevation 100 m. Les.

Unknown source. Received 11/19/1990.

**PI 619034. *Festuca arundinacea* Schreb.**

Wild. 449 RAGT; W6 6248. Collected 11/19/1990 in France. Latitude 43 deg. 1' 0'' N. Longitude 1 deg. 37' 0'' E. St. Jean De Verges, Pyrenees, South France.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 07/30/1994.

**PI 619035. *Astragalus canadensis* var. *mortonii* (Nutt.) S. Watson**

Wild. W6 16296. Collected 07/30/1994 in Idaho, United States. Latitude 43 deg. 47' 0'' N. Longitude 114 deg. 36' 0'' W. Elevation 2075 m. Easley Campground in the Sawtooth National Recreation Area near the Easley Hot Springs off Highway 75 about 15 miles northwest of Ketchum. Growing in a dry site near the restroom of the Easley Campground. Long stems (6-10 inches) on which were borne a raceme of pods.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619036. *Astragalus glycyphyllos* L.**

Wild. VIR D133; W6 17781. Collected 08/23/1995 in Russian Federation. Latitude 43 deg. 44' 59'' N. Longitude 39 deg. 41' 1'' E. Province Souchi, 12 km. north of Dagomys, to west of site 78. Past logged, now grazed. Slope 11-40%, aspect SE. Light open. Soil clay, pH 5.9-6.0,

moist, ridgetop-upper slope. Vegetation closed, open deciduous forest with closed lower layers. Surrounding vegetation evergreen tall grass. Dominant tree species *Carpinus* sp, *Quercus robur*, *Quercus* sp. Dominant shrub species *Laurocerasus* sp., *Ribes* sp. Dominant herb/grass species *Calamagrostis* sp., grass dominant, ferns, blackberry. Population abundance frequent. Growth habit semi-erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States; Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Melvin Rumbaugh, R.R. 3, Box 125, Humboldt, Nebraska 68376, United States; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Jay Hart, 20 Bush Lane, Ithaca, New York 14850, United States; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619037. *Astragalus galegiformis* L.**

Wild. 0191; VIR 045; US 191; W6 17868. Collected 07/26/1995 in Russian Federation. Latitude 44 deg. 4' 25'' N. Longitude 42 deg. 21' 24'' E. Elevation 800 m. 5 km. south of Bereshevskaya, Karacajevo-Cerkesskaja Avtonomnaja Oblast (K-C Republic). Previously logged/cleared, now grazed. Slope 11-40%, aspect E. Light open. Soil colluvial loams with gravel, pH 7.8-8.0. Vegetation closed, seasonal tall grass and seasonal short grass. Surrounding vegetation open deciduous forest with closed lower layers. Dominant shrub species *Carpinus* c., *Q. petraea*. Dominant herb/grass species *Carix* sp., *Bothriochloa* i., *Festuca* sp., *Koeleria* sp. Stem 1-1.3 m. thick. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 05/1995.

**PI 619038. *Astragalus adsurgens* Pall.**

Wild. E94146; W6 18090. Collected 09/1994 in Mongolia. Latitude 47 deg. 6' 32'' N. Longitude 117 deg. 11' 58'' E. Elevation 600 m. Dornod Aimag, eastern Mongolia. Near WWII battlefield with bunkers and destroyed vehicles. Approximately 200 km from Inner Mongolian border to the north, south, and east. Grass steppe.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 07/28/1996.

**PI 619039. Astragalus monspessulanus L.**

Wild. B96-168; W6 19356. Collected 07/1996 in Bulgaria. Latitude 41 deg. 50' 43'' N. Longitude 24 deg. 40' 41'' E. Elevation 760 m. 2km south of town, Chvoyna. Collected at base of steep rocky cliff. Pine, Juglans, Trifolium, Medicago.

The following were developed by Associated Farmers Delinting, Inc., United States. Received 05/30/2001.

**PI 619040 PVPO. Gossypium hirsutum L.**

Cultivar. "AFD 2050". PVP 200100148.

**PI 619041 PVPO. Gossypium hirsutum L.**

Cultivar. "AFD 2051". PVP 200100149.

The following were developed by Pure Seed Testing, Inc., P.O. Box 449, Hubbard, Oregon 97032, United States. Received 05/30/2001.

**PI 619042 PVPO. Poa pratensis L.**

Cultivar. "PST-B9-35". PVP 200100166.

The following were developed by Svalof Weibull AB, Svalow, Malmohus, Sweden. Received 05/30/2001.

**PI 619043 PVPO. Pisum sativum L.**

Cultivar. "SW Salute". PVP 200100168.

**PI 619044 PVPO. Pisum sativum L.**

Cultivar. "SW Midas". PVP 200100169.

The following were developed by Stoneville Pedigreed Seed Company, Stoneville, Mississippi, United States. Received 05/30/2001.

**PI 619045 PVPO. Gossypium hirsutum L.**

Cultivar. "AP 9257". PVP 200100170.

**PI 619046 PVPO. Gossypium hirsutum L.**

Cultivar. "AP 7126". PVP 200100171.

The following were developed by Seed Source, Inc., United States. Received 05/30/2001.

**PI 619047 PVPO. Gossypium hirsutum L.**

Cultivar. "SS 9815". PVP 200100172.

**PI 619048 PVPO. Gossypium hirsutum L.**

Cultivar. "SS 9901". PVP 200100173.

The following were developed by Minnesota Agricultural Experiment Station, St. Anthony Park, Minnesota, United States. Received 05/30/2001.

**PI 619049 PVPO. Glycine max** (L.) Merr.  
Cultivar. "BM-7". PVP 200100174.

**PI 619050 PVPO. Glycine max** (L.) Merr.  
Cultivar. "M-S2". PVP 200100175.

The following were developed by Virginia Tech Intellectual Properties, Inc.,  
Virginia, United States. Received 05/30/2001.

**PI 619051 PVPO. Triticum aestivum** L.  
Cultivar. "38247". PVP 200100176.

**PI 619052 PVPO. Triticum aestivum** L.  
Cultivar. "38158". PVP 200100177.

The following were developed by DEKALB Genetics Corporation, United States.  
Received 05/30/2001.

**PI 619053 PVPO. Zea mays** L.  
Cultivar. "I889291". PVP 200100178.

**PI 619054 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I181664". PVP 200100179.

**PI 619055 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I026458". PVP 200100180.

The following were developed by Asgrow Seed Company LLC, United States.  
Received 05/30/2001.

**PI 619056 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I389972". PVP 200100181.

**PI 619057 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "7180". PVP 200100182.

The following were developed by DEKALB Genetics Corporation, United States.  
Received 05/30/2001.

**PI 619058 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I161473". PVP 200100183.

**PI 619059 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I465837". PVP 200100184.

**PI 619060 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I015011". PVP 200100185.

**PI 619061 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "I015036". PVP 200100186.

**PI 619062 PVPO. Zea mays** L. **subsp. mays**

Cultivar. "I014738". PVP 200100187.

**PI 619063 PVPO. Zea mays L. subsp. mays**  
Cultivar. "I362697". PVP 200100188.

**PI 619064 PVPO. Zea mays L. subsp. mays**  
Cultivar. "WQDS7". PVP 200100189.

**PI 619065 PVPO. Zea mays L. subsp. mays**  
Cultivar. "GF6151". PVP 200100190.

**PI 619066 PVPO. Zea mays L. subsp. mays**  
Cultivar. "89AHD12". PVP 200100191.

**PI 619067 PVPO. Zea mays L. subsp. mays**  
Cultivar. "16IUL6". PVP 200100192.

**PI 619068 PVPO. Zea mays L. subsp. mays**  
Cultivar. "18DHZ5". PVP 200100193.

**PI 619069 PVPO. Zea mays L. subsp. mays**  
Cultivar. "3327". PVP 200100194.

**PI 619070 PVPO. Zea mays L. subsp. mays**  
Cultivar. "94INK1B". PVP 200100195.

The following were developed by Abbott & Cobb, Inc., United States. Received 05/30/2001.

**PI 619071 PVPO. Cucumis melo L.**  
Cultivar. "PM24". PVP 200100196.

The following were developed by Peter Franck, Germany. Received 05/30/2001.

**PI 619072 PVPO. Triticum aestivum L.**  
Cultivar. "GRANITE". PVP 200100197.

The following were developed by Plant Breeders 1, Inc., United States. Received 05/30/2001.

**PI 619073 PVPO. Hordeum vulgare L.**  
Cultivar. "PB1-95-2R-A629". PVP 200100198.

The following were developed by President Colorado Certified Potato Growers' Assn., Inc., Colorado, United States. Received 06/01/2001.

**PI 619074 PVPO. Solanum tuberosum L.**  
Cultivar. "RUSSET NORKOTAH SELECTION 8". PVP 9800255.

**PI 619075 PVPO. Solanum tuberosum L.**  
Cultivar. "RUSSET NORKOTAH SELECTION 3". PVP 9800256.

The following were developed by HZPC Holland B.V., Netherlands. Received 06/01/2001.

**PI 619076 PVPO. Solanum tuberosum L.**

Cultivar. "FLORISSANT". PVP 9800339.

The following were developed by C. Meijer, B.V., Netherlands. Received 06/01/2001.

**PI 619077 PVPO. Solanum tuberosum L.**

Cultivar. "LADY CHRISTL". PVP 9900054.

The following were developed by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 06/01/2001.

**PI 619078. Pisum sativum L.**

Cultivar. "FALLON"; PS210387. CV-16. Pedigree - PS210713 / Flavanda. Released based on higher seed yields, larger seed size, and improved dry pea quality compared to Latah and Umatilla. The upright plant habit and resistance to lodging is especially beneficial for the production of high quality dry peas because pods are held above the soil surface during crop development and maturity which aids in keeping the peas clean and free of pathogens that can cause discoloration and rotting. Resistant to powdery mildew and fusarium wilt race 1. Dwarf growth habit and indeterminate and generally non-branching. Stipules large and medium green. Flowers white and appear on the 15th node and are borne on the peduncles in doubles. Pods straight and blunt ended and contain 6-7 seeds. Seeds weigh an average 25.1 grams per 100 seeds. Seeds smooth and round have yellow cotyledons. Water uptake and cooking time comparable to Latah and color is good after cooking.

**PI 619079. Pisum sativum L.**

Cultivar. "SHAWNEE"; PS010603. CV-17. Pedigree - X78127//WV341F/WA110-42. Plants have tall growth habit and flowering is indeterminate. Vines generally non-branching with straight internodes. Leaflets light green and slightly marbled. Flowers white and appear on the 15th node and are borne as singles and often as doubles. Pods straight and blunt ended and contain 6-7 seeds that are larger than Latah or Umatilla. When compared to Latah, averages 12 cm shorter, flowers an average of 2 d later and matured in 104 d, which was a similar maturity date as Latah and Umatilla. Uniform large round seeds (100 seeds weigh an average of 22.3 g). Seeds have yellow cotyledons and the seed coats are clear. Large seed size is desired by markets in U.S. and internationally. Cooking quality indicated cooking time is 22.0 minutes.

**PI 619080. Pisum sativum L.**

Cultivar. "JOEL"; PS110028. CV-18. Pedigree - Alaska 81 / MX1974. Green dry pea intended for use as a split dry edible pea. Plants single stemmed but sometimes branched at the base. Averages 5 cm tall, flowers 5 days later and matures one day later when compared to Columbian. Two flowers per peduncle compared to single flowers for Columbian. Pods contain 6-7 seeds that average 22.0 grams per 100 seeds. Seeds have dark green cotyledons and good color retention qualities. Resistance to seed bleaching is an advantage for production of high-quality smooth green

dry peas. Cooking quality tests indicate an average cooking time of 22.3 minutes compared to 19.5 minutes for Columbian. Slower cooking time may be related to larger seed size. Resistant to powdery mildew and fusarium wilt (*Fusarium oxysporum* race 1) and had lower root rot scores in the aphanomyces root rot (*Aphanomyces eutiches*) nursery at Pullman, WA, in 1996. This cultivar is intended to replace Columbian and Alaska 81.

The following were developed by Milton C. Engelke, Texas A&M University, Research and Extension Center, 17360 Coit Road, Dallas, Texas 75252, United States; J.A. Reinert, Texas A&M University, Dept. of Soil and Crop Sciences, College Station, Texas 77843-6599, United States; B.A. Ruenmele, University of Rhode Island, Turfgrass Research and Extension, Kingston, Rhode Island 02881, United States; P.F. Colbaugh, Texas A&M University, Texas Agric. Exp. Sta., 17360 Coit Road, Dallas, Texas 75252, United States; K. B. Marcum, University of Arizona, Turfgrass Physiology, Tucson, Arizona, United States; R. H. White, Texas A&M University, Turfgrass Physiology, College Station, Texas, United States; S.J. Anderson, Texas A&M University, Dept. of Soil & Crop Sciences, College Station, Texas 77843-2474, United States. Received 06/01/2001.

**PI 619081. *Zoysia japonica* Steud.**

Cultivar. "CROWNE"; DALZ8512. CV-213. Pedigree - Chance hybrid from maternal clone 220, an accession obtained from Beltsville, MD in 1981. Seed was harvested from an open pollinated maternal clone in a space plant nursery of 179 other *Zoysia* accessions. Coarse-textured, vegetatively propagated clone noted specifically for tolerance to drought conditions and low water use, excellent cold hardiness, and rapid recuperative ability. Intermediate in salt tolerance. Aggressive recovery growth from rhizomes and stolons, medium-coarse texture, good winter hardiness, good to excellent shade tolerance, and low water use requirement. Highly competitive to weed invasion under low management conditions. Harvest cycle can approach 8-12 months, in contrast to the industry standard Meyer that averages 15-24 months. Uniform in growth expression, genetically stable ( $2n=40$ ), flowers prolifically, but has low self-fertility. Adapted to the Southern U.S. northward to central Kansas, based on National Turfgrass Evaluation Program trials conducted from 1991 through 1994. Suitable for use on golf course roughs, as well as home lawns, sports fields, industrial parks, and highway rights-of-way. Adapted to moderately shaded to full sun turf.

The following were developed by C. Meijer, B.V., Netherlands. Received 06/01/2001.

**PI 619082 PVPO. *Solanum tuberosum* L.**

Cultivar. "LADY CLAIRE". PVP 9900055.

The following were donated by H. Roger Boerma, University of Georgia, Department of Crop & Soil Science, 3111 Plant Sciences Building, Athens, Georgia 30602-7272, United States. Received 06/04/2001.

**PI 619083. *Glycine max* (L.) Merr.**

Cultivated. Danbaekkong; SY0115001. Collected in Korea, South.

The following were donated by Oregon State University, Oregon Agriculture Experiment Station, Corvallis, Oregon 97331, United States. Received 1971.

**PI 619084. *Pisum sativum* L.**

Cultivated. OREGON SUGAR POD. Pedigree - Derived from cross O.S.U. 102 x Dwarf Gray Sugar. 55 - 60 days to maturity. Plant short. Plant height 14 - less than 30". Sturdy. Stem zigzag. Leaves and stipules large. Node 1st first bloom 13 - 16. Pods borne singly or doubly. Pods 4" long x 7/8" wide. Smooth. High quality. Seeds medium large (approx. 1,400 per lb.). Slightly wrinkled or dimpled. Highly resistant to enation mosaic virus. Moderate resistance to pea streak virus complex. Resistant to common Fusarium pea wilt. Susceptible to Fusarium near-wilt. Susceptible to powdery mildew. Edible pod variety. Cultivated.

The following were developed by An Hang, USDA, ARS, National Small Grains Germplasm, Research Facility, Aberdeen, Idaho 83210, United States; George L. Hosfield, USDA, ARS, Michigan State University, Department of Crop & Soil Science, East Lansing, Michigan 48824-1325, United States; Matt Silbernagel, USDA, ARS, Vegetable Crop Production, IAREC, P.O. Box 30, Prosser, Washington 99350, United States; Phillip Miklas, USDA, ARS, Irrigated Agric. Research & Extension Ctr., 24106 North Bunn Road, Prosser, Washington 99350-9687, United States. Received 05/11/2001.

**PI 619085. *Phaseolus vulgaris* L.**

Cultivar. "ROJO CHIQUITO". CV-197. Pedigree - From a single F7 plant from the cross 'K-42/'Pompadour'. Closer to a small red seed type than any commercial dry bean class but very different in several respects. More upright plant habit (IIA) than typical commercial small reds. Pods are borne high enough to be directly harvested. This smaller size is characteristic of the 'Central American' small red market class. It will be the first small red cultivar release to possess dominant I gene resistance to seed borne bean common mosaic virus and has moderate resistance to curley top virus. Matures at 100 days after planting and 5 and 11 days later than NW-63 and LeBaron, respectively. Yield comparable to LeBaron in some years/locations but much lower than NW-63, UI-259 and Rufus. Seed size about 20 g per 100 seeds compared to 30 and 38 g for NW-63 and LeBaron, respectively. Seeds small and shiny and exhibits excellent quality in canning tests as it retains firmness and a very attractive bright red color after cooking.

The following were developed by Luther Talbert, Montana State University, Plant Sciences & Plant Pathology, Bozeman, Montana 59717, United States; Greg D. Kushnak, Montana State University, Western Triangle Agric. Research Center, P.O. Box 1474, Conrad, Montana 59425, United States; G.R. Carlson, Montana State University, Northern Agric. Research Center, Star Rt. 36, Havre, Montana 59501, United States; Joyce L. Eckhoff, Montana State University, Eastern Agric. Research Center, Sidney, Montana 59270, United States; D.W. Wichman, Montana State University, Central Agric. Research Center, Moccasin, Montana 59462, United States; Susan P. Lanning, Montana State University, Dept. of Plant, Soil, & Env. Sciences, Bozeman, Montana 59717, United States; R.N. Stougaard, Northwestern Agric. Res. Ctr., Kalispell, Montana 59901, United States; Michael Giroux, Montana State University, Dept of Plant, Soil and Env. Sci., PO Box 173120, Bozeman, Montana 59717-3120, United States; Ken Kephart, Montana State University, MSU Southern Ag. Research Center, 748 Railroad Highway, Huntley, Montana 59037,

United States; D. Habernicht, Montana State University, Plant Sciences Dept., Bozeman, Montana 59717, United States; W.E. Grey, Montana State University, Bozeman, Montana 59717, United States. Received 05/29/2001.

**PI 619086. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "EXPLORER"; MTHW9710. CV-915. Pedigree - MT8182/Fortuna//Pondera/MT8182. Released 2001. Awne hard white spring wheat with tan-white straw and chaff. Kernels ovate, mid-long, with a mid-sized germ. Kernels have medium V-shaped crease with angular cheeks and a mid-sized brush with collar. Intermediate levels of stem-solidness over five locations, with an average score of 14.5 compared to hollow-stemmed Hi-Line with a score of 6.5. Not resistant to the wheat stem sawfly (*Cephus cinctus*). Resistant to stem rust (*Puccinia graminis*) and stripe rust (*Puccinia striiformis*). Susceptible to damage caused by the Russian wheat aphid (*Diuraphis noxia*). Early maturity with average heading date of June 21, about 2 days earlier than Hi-Line and MTHW9420. Semi-dwarf, with average height of 73 cm, similar to MTHW9420 and Hi-Line. Yield averaged 4475 kg ha<sup>-1</sup> versus 4501 kg ha<sup>-1</sup> and 4556 kg ha<sup>-1</sup> for Hi-Line and MTHW9420, respectively. Grain volume weight average 799 kg m<sup>-3</sup>, identical to Hi-Line and 5 kg m<sup>-3</sup> higher than MTHW9420. Grain protein percentage average 144 g kg<sup>-1</sup> versus 145.

The following were developed by Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167, United States. Received 06/07/2001.

**PI 619087 PVPO. *Solanum tuberosum* L.**

Cultivar. "NL10-ATL". PVP 9700231.

**PI 619088 PVPO. *Solanum tuberosum* L.**

Cultivar. "NL10-SUP". PVP 9700232.

The following were developed by Agripro Wheat, Unit of Advanta USA, United States. Received 06/07/2001.

**PI 619089 PVPO. *Triticum aestivum* L.**

Cultivar. "NuFrontier". PVP 200100199.

The following were developed by Syngenta Seeds, Inc., United States. Received 06/07/2001.

**PI 619090 PVPO. *Pisum sativum* L.**

Cultivar. "SUGAR BOWL". PVP 200100200.

**PI 619091 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "S00-A6". PVP 200100202.

**PI 619092 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "S10-F2". PVP 200100203.

**PI 619093 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "S16-Y6". PVP 200100204.

**PI 619094 PVPO. *Glycine max* (L.) Merr.**

Cultivar. "S30-Y8". PVP 200100205.

**PI 619095 PVPO. *Glycine max* (L.) Merr.**  
Cultivar. "S38-E9". PVP 200100206.

The following were developed by CSIRO, Division of Plant Industry, General Post Office Box 1600, Canberra, Austr. Capital Terr. 2601, Australia. Received 06/07/2001.

**PI 619096 PVPO. *Gossypium hirsutum* L.**  
Cultivar. "FM958". PVP 200100208.

**PI 619097 PVPO. *Gossypium hirsutum* L.**  
Cultivar. "FM966". PVP 200100209.

The following were developed by Jimmie H. Hatchett, USDA-ARS, Dept of Entomology, Waters Hall, Manhattan, Kansas 66506-4004, United States; Robert A. Graybosch, USDA-ARS, University of Nebraska, Dept. of Agronomy, 344 Keim Hall, Lincoln, Nebraska 68583, United States; P. Stephen Baenziger, University of Nebraska, Department of Agronomy, 330 Keim Hall, Lincoln, Nebraska 68583-0915, United States; David D. Baltensperger, University of Nebraska, Panhandle Res. & Ext. Center, 4502 Avenue I, Scottsbluff, Nebraska 69361-4939, United States; Don V. McVey, USDA, ARS, University of Minnesota, Cereal Rust Laboratory, St. Paul, Minnesota 55105, United States; B. Moreno-Sevilla, University of Nebraska, Department of Agronomy, Lincoln, Nebraska 68583, United States; John E. Watkins, University of Nebraska, Dept. of Plant Pathology, Lincoln, Nebraska 68583, United States; J. Krall, University of Wyoming, Research & Extension Center, R.1, Box 374, Torrington, Wyoming 88420, United States; Lenis A. Nelson, University of Nebraska, Department of Agronomy, 342 Keim Hall - E. Campus, Lincoln, Nebraska 68583, United States; R.W. Elmore, University of Nebraska, Dept. of Agronomy, Lincoln, Nebraska 68583, United States; R.N. Klein, University of Nebraska, Dept. of Agronomy, USDA-ARS, Lincoln, Nebraska 68583, United States; M.J. Shipman, USDA-ARS, University of Nebraska, Dept. of Agronomy and Horticulture, Lincoln, Nebraska 68583, United States. Received 06/08/2001.

**PI 619098. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "WAHOO"; NE94654; NSGC 8747. CV-920; PVP 200100237. Pedigree - Arapahoe\*2/Abilene. Released 2001. Hard red winter wheat. Awne, white-glumed. Medium maturity, about 0.5 d earlier flowering than Arapahoe. Moderate straw strength, similar to Arapahoe. Winter hardiness good to very good, similar to Abilene. Moderately resistant to stem rust (*Puccinia graminis*, most likely containing Sr6 and Sr24), leaf rust (*P. triticina*, most likely contains Lr16, Lr24, and possibly other leaf rust resistance genes), and Hessian fly (*Mayetiola Destructor* Say, similar to Arapahoe, and most likely contains the Marquillo-Kawvale genes for resistance), and susceptible to wheat soilborne mosaic virus, wheat streak mosaic virus, and barley yellow dwarf virus. Genetically lower in grain volume weight (57.2 lbs/bu, 73.8 kg/hl) similar to Arapahoe and Wesley, but lower than Culver, Millennium, Alliance, and Pronghorn.

The following were developed by Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 06/14/2001.

**PI 619099. *Lens culinaris* Medik. subsp. *culinaris***

Cultivar. "MASON"; LC960254. CV-12. Pedigree - Laird/Precoz. Averages 1 cm taller, flowers an average of one day later and matures one day earlier when compared to the Brewer check. Plants are strongly branched at the base which imparts a bushy structure that enables the canopy to remain somewhat erect during the growing season. Uniform large seeds (100 seeds weight an average of 7.0 g vs. 6.0 g for Brewer). Seeds large with yellow cotyledons and seed coats light green and lack mottling. Large seed size and lack of seedcoat mottling are features that should appeal to markets in the U.S. and internationally. In cooking time tests from 1994-1996, required 22.0 minutes compared to 21.6 minutes for Brewer.

The following were developed by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 07/07/1993.

**PI 619100. *Cicer arietinum* L.**

Cultivar. "EVANS"; CA188163; W6 12523. CV-194. Pedigree - Flip 85-58/Surutato-77. Large seeded ascochyta blight resistant kabuli line. Unifoliate leaf structure, similar to Sanford and Dwelley, that differs from the fern leaf structure that is typical of UC-5, UC-27 and Spanish White. Plants are branched at the base and have an indeterminate flowering habit. Pods are rhomboid-illipsoid and have glandular trichomes, which give them a pubescent appearance. Pods have one and often two seeds. Seeds average 46.1 g/100 seeds, which compares to 42.4 grams for Sanford and 49.1 grams for Dwelley. Flowers and matures 2-3 days earlier than Surutato-77 and Tammany and 5-7 days earlier than Sanford and Dwelley. Early flowering and early maturing are primary reasons for release. The medium-large light-cream-colored seeds are suited to the domestic canning industry and are readily accepted in international markets.

The following were developed by Daryl T. Bowman, North Carolina State University, Department of Crop Science, Box 8604, Raleigh, North Carolina 27695-8604, United States; Steven Leath, USDA, ARS, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695, United States; R.A. Navarro, North Carolina State University, North Carolina Agric. Exp. Station, Dept. of Crop Science, Raleigh, North Carolina 27695-7629, United States; Paul Murphy, North Carolina State University, Dept. of Crop Science, P.O. Box 7629, Raleigh, North Carolina 27695, United States. Received 06/14/2001.

**PI 619101. *Avena sativa* L.**

Cultivar. Pureline. "NC HULLESS"; NC95-6305N. CV-367. Pedigree - Tx81Ab2041/3/OGLE/2/NC 82-172/NC 81-333/4/Coker 84-27. Released 2001. Hulless or naked, fall sown oat. Adapted primarily to coastal plain of North Carolina. Multiflorous spikelets typically produce over 92% naked groats in combine samples. Heading date in lower coastal plains of North Carolina averages April 13 and plant height averages 90cm. Groat protein percentage averages 150 g kg<sup>-1</sup>, and test weight generally falls in the 479 to 559 g m<sup>-3</sup> range.

The following were developed by Patrick F. Hensleigh, Montana State University, Plant Science Department, 119 ABS Building, Bozeman, Montana 59717, United States; Thomas K. Blake, Montana State University, Department of Plant Sciences, 109 Ag Biosciences, Bozeman, Montana 59717, United States; G.R. Carlson, Montana State University, Northern Agric. Research Center, Star Rt. 36, Havre, Montana 59501, United States; Joyce L. Eckhoff, Montana State University, Eastern Agric. Research Center, Sidney, Montana 59270, United States; Leon E. Welty, Montana State University, Northwestern Agric. Research Center, Kalispell, Montana, United States; D.W. Wichman, Montana State University, Central Agric. Research Center, Moccasin, Montana 59462, United States; Ken Kephart, Montana State University, MSU Southern Ag. Research Center, 748 Railroad Highway, Huntley, Montana 59037, United States; J.G.P. Bowman, Montana State University, Dept. of Animal and Range Sciences, Bozeman, Montana 59717, United States. Received 06/14/2001.

**PI 619102. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. Pureline. "H3860224". CV-300. Pedigree - Lewis/Apex. Released 2000. Two-rowed, white-kerneled, midseason spring barley. Spikes midlax, midlong, seminodding to erect before and after maturity, similar to Apex. Spike has rough awns, glume awns are equal to the length of the moderately hairy glume. Kernels have adhering, finely wrinkled hulls. Rachillas have short hairs, approx. 2 cm shorter than Lewis at maturity.

The following were developed by Ferry-Morse Seed Company, Inc., P.O. Box 100, Mountain View, California 94042, United States. Received 1983.

**PI 619103. *Apium graveolens* var. *dulce* (Mill.) Pers.**

Cultivar. "Summit"; NSL 180746. PVP 8300122.

The following were developed by Asgrow Seed Company, Kalamazoo, Michigan, United States. Received 1975.

**PI 619104. *Brassica oleracea* var. *botrytis* L.**

Cultivar. "Olympus"; NSL 90480. PVP 7400052.

**PI 619105. *Brassica oleracea* var. *botrytis* L.**

Cultivar. "Snowflower"; NSL 91982. PVP 7400051.

The following were developed by North American Seed Co., Inc., United States. Received 1989.

**PI 619106. *Brassica oleracea* var. *botrytis* L.**

Cultivar. "Snowtop"; NSL 242187. PVP 8900166.

The following were developed by Ferry-Morse Seed Company, Inc., P.O. Box 100, Mountain View, California 94042, United States. Received 1983.

**PI 619107. *Lycopersicon esculentum* Mill.**

Cultivar. "Apex 2000"; NSL 180750. PVP 8300120.

The following were developed by USDA, ARS, U.S. Water Conservation

Laboratory, 4331 East Broadway Road, Phoenix, Arizona 85040, United States.  
Received 05/09/1990.

**PI 619108. *Cuphea hybrid***

Cultivar. "Starfire"; No. 1070; AZ1070; Ames 22287; Ames 22430. Pedigree - *Cuphea ignea* (PI 534899) X *Cuphea angustifolia* (PI 534892). Released 1990. Intermediate in size to its two parents, 50 to 75 cm tall and 60 to 75 cm wide, with the spreading subshrub shape of the *C. ignea* parent. Leaves are dark green with a light-green lower surface as in the *C. ignea* parent, but are more narrowly lanceolate, 30 to 40 mm long and 12 to 20 mm wide. Flowers continuously once cuttings are established. Calyx tubes are striped pink on white, dorsally tipped in white, and 10 to 15 mm long, with a pronounced spur. Dorsal petals are white with a purple vein, ~5 mm long. Ventral petals are purple to almost white and are ~3 mm long.

Less dense, but more vigorous, growth habit than its *C. ignea* parent. Particularly adapted as a potted plant and possibly would be useful as a hanging plant for greenhouse or household use. May have potential as a bedding plant but has not been evaluated for this purpose.

Sterile hybrid, must be propagated vegetatively. Cuttings root readily with no chemical treatment of any kind when placed in potting.

The following were collected by David Spooner, USDA, ARS, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States ; Alberto Salas, International Potato Center, P.O. Box 5969, Lima, Lima, Peru . Received 05/01/1998.

**PI 619109. *Solanum lignicaule* Vargas**

Wild. SS 7211; Q 37659. . Collected 03/03/1998 in Cuzco, Peru. Latitude 13 deg. 24' 29'' S. Longitude 71 deg. 50' 46'' W. Elevation 3460 m. Calca: Ruins of Pisac, located about 8 km drive on windy road bearing NW of Pisac, located below cliffs bearing ancient grave sites, behind or W of Ruins of Kkanankkey, adjacent to Rjo Kkllchakamayo. Growing in loose stones on slope. Leaves with distinctive odor. Flowers not present. Fruits maturing.

**PI 619110. *Solanum brevicaulle* Bitter**

Wild. SS 7212; Q 37660. . Collected 03/03/1998 in Cuzco, Peru. Latitude 13 deg. 24' 29'' S. Longitude 71 deg. 50' 46'' W. Elevation 3460 m. Calca: Ruins of Pisac, located about 8 km drive on windy road bearing NW of Pisac, located below cliffs bearing ancient grave sites, behind or W of Ruins of Kkanankkey, adjacent to Rjo Kkllchakamayo. Growing on loose stones on slope. Purple rotate corollas and green mottled spherical fruits present.

**PI 619111. *Solanum brevicaulle* Bitter**

Wild. SS 7221; Q 37662. . Collected 03/08/1998 in Cuzco, Peru. Latitude 13 deg. 49' 28'' S. Longitude 71 deg. 49' 41'' W. Elevation 2590 m. Paruro: 13.1 km S of Paruro on road to Colcha, at a place (no homes) called Cortina. Growing among piles of calcareous stones and in abandoned cultivated field. Corollas light purple, rotate. Fruits globose.

**PI 619112. *Solanum lignicaule* Vargas**

Wild. SS 7222; Q 37663. . Collected 03/08/1998 in Cuzco, Peru. Latitude 13 deg. 49' 28'' S. Longitude 71 deg. 49' 41'' W. Elevation 2590 m.

Paruro: 13.1 km S of Paruro on road to Colcha, at a place (no homes) called Cortina. Growing among piles of calcareous stones. Flowers absent. Fruits globose.

**PI 619113. *Solanum buesii* Vargas**

Wild. SS 7232; Q 37668. . Collected 03/13/1998 in Cuzco, Peru. Latitude 13 deg. 13' 27'' S. Longitude 72 deg. 30' 41'' W. Elevation 3500 m. Urubamba: along Inca trail N and W of Machu Pichu, ca 100 m W of archaeological site of Conchamarca (in between archaeological sites of Phuyupatamarca and Sayacmarca), on both sides of trail. Growing among grasses in sunny area. Corollas purple, rotate with large acumens. Fruits conical.

**PI 619114. *Solanum velardei* Ochoa**

Wild. SS 7240; Q 37672. . Collected 03/22/1998 in Apurimac, Peru. Latitude 13 deg. 30' S. Longitude 72 deg. 48' W. Elevation 3140 m. Abancay: collected at Marchancay, ca. 5 km walk NW uphill of Cachora. Growing between rock cracks in organic soil. Corollas purple, rotate, Fruits globose, Plants to 50 cm tall.

**PI 619115. *Solanum* sp.**

Wild. SS 7248; Q 37677. . Collected 04/08/1998 in Moquegua, Peru. Latitude 16 deg. 38' 50'' S. Longitude 71 deg. 6' 1'' W. Elevation 3230 m. General Sanchez Cerro: from a point 37.5 km W of town square of Omate (by posted kilometer signs on road) walk downhill (S of road) ca 150 m. Growing in sandy soil on edges of cultivated fields. Corollas purple, rotate, Fruits maturing to mature, globose, verrucose.

**PI 619116. *Solanum acaule* Bitter**

Wild. SS 7253; Q 37681. . Collected 04/10/1998 in Arequipa, Peru. Latitude 15 deg. 39' 7'' S. Longitude 71 deg. 25' 20'' W. Elevation 4130 m. Caylloma: 5.0 km S of Pulpera on road to Arequipa. Growing along roadside in black organic soil. Plants abundant. Corollas blue. Fruits and flowers present.

**PI 619117. *Solanum megistacrolobum* Bitter f. *megistacrolobum***

Wild. SS 7254; Q 37682. . Collected 04/10/1998 in Arequipa, Peru. Latitude 15 deg. 37' 20'' S. Longitude 71 deg. 26' 48'' W. Elevation 4120 m. Caylloma: ca. 1 km up (walking W) R;ío Chacramayo, on S side of valley ca. 75 m from river, from a point ca. 1 km S of Pulpera. Growing under bushes. Flowers not present. Two globose fruits found. Leaves with spicy odor typical of this subspecies.

**PI 619118. *Solanum* sp.**

Wild. SS 7256; Q 37683. . Collected 04/16/1998 in Apurimac, Peru. Latitude 14 deg. 4' 3'' S. Longitude 72 deg. 39' 36'' W. Elevation 2940 m. Grau: located 5.6 km E of center of Vilcamabma, ca. 600 m W of bridge called Puente Wiñirca, at margin of R;ío Chuquibambilla. Growing in rocky soil on slope. Plants 50 cm tall. Flowers absent. Fruits globose.

The following were collected by David Spooner, USDA, ARS, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States ; Antonio Rivera-Pena, INIFAP, Programa Nacional de la Papa, Apdo. Postal 31, Suc. "A", Metepec, Mexico, Mexico; Ronald van den Berg, Wageningen Agricultural University, Department of Plant Taxonomy, General Foulksweg 37, Wageningen, Gelderland 6700 ED, Netherlands. Received 11/13/1997.

**PI 619119. *Solanum morelliforme*** Bitter & Munch

Wild. RSSV 946; Q 37290. Collected 10/02/1997 in Veracruz, Mexico. Latitude 19 deg. 37' 1'' N. Longitude 97 deg. 3' 29'' W. Elevation 2300 m. On road from Perote to Jalapa just E of Toxtlacoaya, 3.6 km W of Las Vigas, 20 m off S side of road. Growing in pine litter with moss covering on soil covering volcanic rocks. Flowers not present. 15 fruits collected from three fruiting plants.

The following were donated by Stepan Kiru, N.I. Vavilov Institute of Plant Industry, Department of Tuber Crops, 44 Herzen Street, St. Petersburg, Leningrad 190000, Russian Federation. Received 08/09/1999.

**PI 619120. *Solanum tuberosum* L.**

Cultivated. SKR 92/001; Q 42858. Pedigree - [(Sagitta x <Curier x S. dms> x Priekulskii) x {(Dunperl x S. dms) x Gloriosa} x Katahdin} x Nevskii) x Granata) x Palma. LB resistance. High yield, early.

**PI 619121. *Solanum tuberosum* L.**

Cultivated. SKR 92/002; Q 42859. Pedigree - {[<(S. vallis mex. x Sterkh) x Edelgrd> x Frugold] x Concordia} x Atzimba /x Delamo /x Bola /x Aralia. LB resistant; PVX; PVY resistant. High yield.

**PI 619122. *Solanum tuberosum* L.**

Cultivated. SKR 92/003; Q 42860. Pedigree - (S. andigena x S. berthaultii) x Lisera. Golden Nematode + PLRV.

**PI 619123. *Solanum tuberosum* L.**

Cultivated. SKR 92/004; Q 42861. Pedigree - [(S. vallis mex x Fungold) x Concordia] x Atzimba) x Decama.

**PI 619124. *Solanum tuberosum* L.**

Cultivated. SKR 92/007; Q 42864. Pedigree - [(Earlaine x S. vallis mex) x Detskoselsky] x Atzimba.

**PI 619125. *Solanum tuberosum* L.**

Cultivated. SKR 92/009; Q 42866. Pedigree - [(S. phureja x S. chacoense) x S. gibberullosum] x Mariella x Granola.

**PI 619126. *Solanum tuberosum* L.**

Cultivated. SKR 92/013; Q 42870. Pedigree - [Apta x (Granola x S. dms) x Atzimba/ x Lizetta. LB resistant.

**PI 619127. *Solanum tuberosum* L.**

Cultivated. SKR 92/014; Q 42871. Pedigree - [(S. vallis mex x Granola) x Atzimba] x Lizetta.

**PI 619128. *Solanum tuberosum* L.**

Cultivated. SKR 92/015; Q 42872. Pedigree - (Granola x S. dms) x Atzimba . LB resistant.

**PI 619129. *Solanum tuberosum* L.**

Cultivated. SKR 92/016; Q 42873. Pedigree - [(S. andigena x Earlaine) x Atzimba] x Antinema. x Granola.

**PI 619130. *Solanum tuberosum* L.**

Cultivated. SKR 92/017; Q 42874. Pedigree - (DH S. andigena x S. rybinii) x Atzimba/ x Willia. LB resistant. Golden Nematode. High yield.

**PI 619131. Solanum tuberosum L.**

Cultivated. SKR 92/018; Q 42875. Pedigree - [(Zarevo x (Granola x S. dms)] x Nevskii. LB resistant. High yield.

**PI 619132. Solanum tuberosum L.**

Cultivated. SKR 92/024; Q 42878. Pedigree - [(S. andigenum x Advira) x (Atzimba x MPI6170) x Zarevo.

Unknown source. Received 08/15/1995.

**PI 619133. Solanum tuberosum L.**

Cultivar. "Yema de Huevo"; CIP 704218; BE-7623; Q 35735; Q 42840. .

The following were donated by Oscar A. Hidalgo, International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 09/13/2000.

**PI 619134. Solanum tuberosum L.**

Cultivar. "Muru"; CIP 379735.1; Q 42818. .

**PI 619135. Solanum tuberosum L.**

Cultivar. "Yana"; CIP 379735.3; Q 42819. .

**PI 619136. Solanum tuberosum L.**

Cultivar. "Cruza 148"; CIP 720118; Q 42821. .

**PI 619137. Solanum tuberosum L.**

Cultivar. "SA-450"; CIP 700045; Q 42822. .

**PI 619138. Solanum x chaucha Juz. & Bukasov**

Cultivar. "EE-1966"; CIP 700739; Q 42824. .

**PI 619139. Solanum tuberosum L.**

Cultivar. "Ojo de Buey"; CIP 701127; Q 42825. .

**PI 619140. Solanum tuberosum L.**

Cultivar. "Sanatanlalla"; CIP 701171; Q 42826. .

**PI 619141. Solanum tuberosum L.**

Cultivar. "Huagalina"; CIP 701241; Q 42827. .

**PI 619142. Solanum tuberosum L.**

Cultivar. "Badulaque"; CIP 701488; Q 42828. .

**PI 619143. Solanum x chaucha Juz. & Bukasov**

Cultivar. "Huayro"; CIP 701524; Q 42829. .

**PI 619144. Solanum stenotomum Juz. & Bukasov subsp. stenotomum**

Cultivar. "Pirampo"; CIP 701633; Q 42831. .

**PI 619145. Solanum x chaucha Juz. & Bukasov**

Cultivar. "Tarmelina"; CIP 701675; Q 42832. .

**PI 619146. *Solanum x chaucha*** Juz. & Bukasov  
Cultivar. "Muru hurena"; CIP 703300; Q 42835. .

**PI 619147. *Solanum tuberosum*** L.  
Cultivar. "Wacapa Naguin"; CIP 703426; Q 42836. .

**PI 619148. *Solanum tuberosum*** L.  
Cultivar. "Unknown"; CIP 704159; Q 42838. .

The following were donated by Danuta Sekrecka, Plant Breeding & Acclimatization Inst., Gene Bank Laboratory, Branch Division Bonin, Bonin, Poland. Received 09/12/2000.

**PI 619149. *Solanum tuberosum*** L.  
Cultivar. "DG-D4-21"; Q 42810.

**PI 619150. *Solanum tuberosum*** L.  
Cultivar. "97A-28"; Q 42811.

**PI 619151. *Solanum tuberosum*** L.  
Cultivar. "97A-77"; Q 42816.

**PI 619152. *Solanum tuberosum*** L.  
Cultivar. "Meduza"; Q 43097; Q 43040.

**PI 619153. *Solanum tuberosum*** L.  
Cultivar. "Oktiabronck"; Q 43098; Q 43041.

**PI 619154. *Solanum tuberosum*** L.  
Cultivar. "Pushkinec"; Q 43099; Q 43042.

**PI 619155. *Solanum tuberosum*** L.  
Cultivar. "Rezerv"; Q 43100; Q 43043.

**PI 619156. *Solanum tuberosum*** L.  
Cultivar. "Dobro"; Q 43101; Q 43044.

**PI 619157. *Solanum tuberosum*** L.  
Cultivar. "Talovsky"; Q 43102; Q 43045.

The following were donated by Oscar A. Hidalgo, International Potato Center, Apartado 5969, Lima, Lima, Peru. Received 09/13/2000.

**PI 619158. *Solanum tuberosum*** L.  
Cultivar. "V-3"; CIP 378650.1; Q 42817. .

The following were collected by David Spooner, USDA, ARS, Department of Horticulture, 1575 Linden Drive, Madison, Wisconsin 53706-1590, United States ; Antonio Rivera-Pena, INIFAP, Programa Nacional de la Papa, Apdo. Postal 31, Suc. "A", Metepec, Mexico, Mexico; Ronald van den Berg, Wageningen Agricultural University, Department of Plant Taxonomy, General Foulksweg 37, Wageningen, Gelderland 6700 ED, Netherlands. Received 11/13/1997.

**PI 619159. *Solanum x edinense*** P. Berthault

Wild. RSSV 974; Q 37335. Collected 10/20/1997 in Mexico, Mexico. Latitude 19 deg. 4' 37'' N. Longitude 99 deg. 50' 52'' W. Elevation 3100 m. At El Capulin, a small settlement 21.3 km S of La Puerta (on Rt. 134), in Parque Nacional Nevado de Toluca, on W-facing lower slopes of volcano. Growing in rich organic soil about house and fields, in area of pine and fir woods, with *S. demissum*. Eleven tubers (red skin, white flesh) collected from one plant.

The following were developed by University of Nebraska, Nebraska Agr. Exp. Sta., Lincoln, Nebraska, United States. Received 06/22/2001.

**PI 619160 PVPO. *Bouteloua dactyloides*** (Nutt.) Columbus  
Cultivar. "BOWIE". PVP 200100201.

The following were donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 06/24/1985.

**PI 619161. *Malus domestica*** Borkh.  
Cultivar. GMAL 1027; Lyons. Pedigree - Chance seedling discovered about 1940. Fruit size too small, 65-70 mm. Skin 70-100% attractive shade of red, striped. Shape conic. Flesh semifirm, cream-colored. Flavor subacid. Eating quality fair. Harvest season mid-September, 3 wks before Delicious. Tree: productive annual cropping. Fruits hang to tree after they ripen. Small, attractive color.

The following were donated by T. Sanada, Fruit Tree Research Station, Ministry of Agric., Forestry and Fishing, Division of Fruit Breeding, Yatabe, Tsukuba, Ibaraki 305, Japan. Received 01/07/1988.

**PI 619162. *Malus x asiatica*** Nakai  
Cultivar. "RINKI"; BE-1196; GMAL 2172; Q 26755; *M. asiatica* 'Rinki'.

The following were developed by James A. LaMondia, Connecticut AES, Valley Laboratory, Cook Hill Road, Box 248, Windsor, Connecticut 06095, United States. Received 06/27/2001.

**PI 619163. *Nicotiana tabacum*** L.  
Cultivar. "SCANTIC". CV-122. Pedigree - Inbred derived from a bulk system of modified single seed descent. Three crosses between wilt-susceptible Connecticut broadleaf tobacco lines and the wilt-resistant cultivar C2 (C2 x Winn; C2 x Gogulski; and C2 x Gradowski) were selected for wilt resistance. A Connecticut broadleaf cigar wrapper tobacco developed with resistance to *Fusarium* wilt (*Fusarium oxysporum*). Wilt resistant under greenhouse and field conditions. Reduced sensitivity to weather fleck caused by ozone. Susceptible to tobacco mosaic virus. Agronomic characteristics and cured leaf quality evaluated under both experimental plots and commercial conditions. Over 20% yield increase in comparison to the current wilt-resistant standard, regardless of whether soils were infested with the pathogen or not. Yield increases over the standard wilt-susceptible cultivar approx. 5% in the absence of disease and dramatically different (up to nearly 100%) in *F. oxysporum*-infested soil.

The following were developed by Richard Berberet, Oklahoma State University, Department of Entomology & Plant Pathology, Room 127 NRC, Stillwater, Oklahoma 74078-0464, United States; John L. Caddel, Oklahoma State University, Oklahoma Cooperative Extension Service, Department of Agronomy, Stillwater, Oklahoma 74078-0507, United States; Ali A. Zarrabi, Oklahoma State University, Department of Entomology & Plant Pathology, 127 Noble Research Center, Stillwater, Oklahoma 74078-0464, United States. Received 06/27/2001.

**PI 619164. *Medicago sativa* L. subsp. *sativa***

Breeding. "OK 206". GP-344. Pedigree - Developed by 2 cycles of phenotypic recurrent selection for resistance to blue alfalfa aphid. Parents included 7 - 16% each of 5472, Aggressor, Apollo Supreme, Cimarron, Garst 630, Magnum III, WL 320, Good as Gold CUF 101, and OK 51. Broad gene base population that provides resistance to the blue alfalfa aphid (*Acyrtosiphon kondoi*), biotype BAOK90, and the spotted aphid (*Therioaphis maculata*). Demonstrates good yields in Oklahoma and is intended as source population for use in alfalfa breeding programs where multiple pest-resistance should include resistance to the biotype of blue alfalfa aphid first discovered in 1990.

**PI 619165. *Medicago sativa* L. subsp. *sativa***

Breeding. "OK 207". GP-345. Pedigree - Developed by 2 cycles of phenotypic recurrent selection for resistance to blue alfalfa aphid. Parents included 7 - 16% each of 5472, Aggressor, Apollo Supreme, Cimarron, Garst 630, Magnum III, WL 320, and Ok 51. Broad gene base population that provides resistance to the blue alfalfa aphid (*Acyrtosiphon kondoi*), biotype BAOK90, and the spotted alfalfa aphid (*Therioaphis maculata*). Demonstrates good yields in Oklahoma and is intended as source population for use in alfalfa breeding programs where multiple pest-resistance should include resistance to the biotype of the blue alfalfa aphid first discovered in 1990.

The following were developed by Phil L. Bruckner, Montana State University, Department of Plant Science, Leon Johnson Hall, Bozeman, Montana 59717-0312, United States. Received 06/27/2001.

**PI 619166. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "BigSky"; MT9432. Pedigree - NuWest / Tiber. Broadly-adapted, high-yielding HRWW wheat line with medium maturity, good foliar disease resistance, and dual purpose (bread and Asian noodles) end-use quality. Relative to leading cultivars currently in production within Montana, exhibits a superior combination of high grain yield, high test weight, and high grain protein. Higher yielding but similar to Tiber in many respects, with broad adaptation, good winter hardiness, high test weight, and stiff straw. Test weight, grain protein, and milling and baking qualities are within acceptable ranges for export or domestic high-quality bread flour-production. Exhibits relatively high transient post-harvest dormancy similar to Tiber. Resistant to stem rust but susceptible to leaf and stripe rust. Foliar disease resistance is good (*Septoria* and Tan spot).

**PI 619167. *Triticum aestivum* L. subsp. *aestivum***

Cultivar. Pureline. "NuSky"; MTW9441. Pedigree - NuWest / Tiber.

High-yielding, medium-maturity hard white winter wheat line with good winter hardiness, medium to high grain protein, and excellent dual purpose (bread and Asian noodles) end-use quality. Appearance, field performance, and end-use quality characteristics are similar to NuWest in most regards with exception that head approx. 1 day later than NuWest. Excellent milling wheat with bread baking and Asian noodle characteristics similar to NuWest. Like both parents, is resistant to preharvest sprouting with relatively high transient post-harvest dormancy. Coleoptile length is short. Resistant to stem rust but susceptible to leaf and stripe rust. Foliar disease resistance is good (Tan spot).

The following were donated by Toma Dimitrovski, Faculty of Agriculture and Forestry, University of Skopje, Skopje, Macedonia. Received 07/09/2001.

**PI 619168. *Malus sylvestris* Mill.**  
Wild. GMAL 2524.a.

The following were developed by H. Thomas Stalker, North Carolina State University, Department of Crop Science, P. O. Box 7629, Raleigh, North Carolina 27695-7629, United States; M.K. Beute, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629, United States; B.B. Shew, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629, United States; K.R. Barker, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629, United States. Received 06/08/2001.

**PI 619169. *Arachis hypogaea* L.**

Breeding. GP-NC WS 5. GP-103. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically belongs to the subsp. *hypogaea* var. *hypogaea*. Growth habit semi-erect. Main stem apparent at maturity. Pods deeply constricted and mostly two-seeded, but may be one-seeded. Testa smooth and uniform tan color. Seeds average 42.9 g 100-1. Low yielding. Maturity 8-10 d later than Florigiant. Fewer galls, egg masses, and eggs g-1 root than the moderately resistant *A. hypogaea* lines PI 259572 and PI 259639, and expresses the Z3 RAPD marker band. Moderate to high levels of resistance to *Cercospora arachidicola*, but is highly susceptible to southern stem rot (*Sclerotium rolfsii*) and *Cylindrocladium* black rot (*Cylindrocladium crotalariae*).

**PI 619170. *Arachis hypogaea* L.**

Breeding. GP-NC WS 6. GP-104. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically intermediate between subsp. *hypogaea* and *fastigiata* and has decumbent growth habit. Flowers on main stem, and vegetative nodes on lateral branches are mixed with short runs of reproductive and alternating reproductive vegetative nodes. Main stem averages 28 cm long and apparent at maturity. Pods deeply constricted, averaging 196 cm long and 0.96 cm wide. Testa tan. Seeds average 25.9 g 100-1. Low yielding and matures 4-5 d later than Florigiant. Few galls, egg masses, and eggs g-1 root, and formed few nematodes in roots 1-10 d following soil inoculation with *M. arenaria* juveniles. Plants have a characteristic band of molecular weight 265 when analyzed with the Z3 RAPD primer. Highly resistant to southern corn rootworm, moderately high resistance to potato leafhopper, corn earworm, and early leaf spot, but is highly susceptible to southern stem rot.

The following were developed by H. Thomas Stalker, North Carolina State University, Department of Crop Science, P. O. Box 7629, Raleigh, North Carolina 27695-7629, United States; Robert E. Lynch, USDA, ARS, Insect Biology & Population Management, Research Laboratory, Tifton, Georgia 31793-0748, United States. Received 06/08/2001.

**PI 619171. *Arachis hypogaea* L.**

Breeding. GP-NC WS 7. GP-105. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically belongs to the subsp. *fastigiata*. Growth habit prostrate. Vegetative reproductive nodes on lateral branches are in a sequential pattern. Main stem approx. 22 cm long and apparent at maturity. Maturity about 5 d later than Florigiant. Most pods one-seeded, but some are two-seeded with a deep constriction. All have pronounced beaks, many trichomes, and average 13.9 mm long and 9.8 mm wide. Seeds short and broad, have pink testa, and average 24.1 g 100-1. Yield potential low but has very high levels of resistance to southern corn rootworm, corn earworm, and potato leafhopper. Resistance to corn earworm is antibiosis. Susceptible to thrips, fall armyworms, velvetbean caterpillar, root knot nematodes (*M. arenaria* and *M. hapla*), and southern stem rot (*Sclerotium rolfsii*).

**PI 619172. *Arachis hypogaea* L.**

Breeding. GP-NC WS 8. GP-106. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically intermediate between subsp. *hypogaea* and *fastigiata*. Flowers not produced on the main stem, but vegetative reproductive nodes on lateral branches are in a sequential pattern. Growth habit prostrate. Maturity similar to Florigiant. Main stem apparent at maturity. Pods two-seeded, deeply constricted, glabrous, and beaked. yield potential low. Seeds small, averaging 30 g 100-1, short and broad and have tan testa. Very high levels of resistance to southern corn rootworm, high levels of resistance to corn earworm, and resistance to fall armyworm and velvetbean caterpillar. Susceptible to thrips and to early leaf spot (*C. arachidicola*).

**PI 619173. *Arachis hypogaea* L.**

Breeding. GP-NC WS 9. GP-107. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically belongs to the subsp. *fastigiata*. Vegetative reproductive nodes on lateral branches sequential. Growth habit decumbent. Plants do not completely cover the soil surface between 91 cm rows during the growing season, but main stem apparent at maturity. Maturity about 5 d later than Florigiant. Pods deeply constricted, have inconspicuous beaks, and average 16.3 mm long and 10.4 mm wide. Seeds average 33.3 g 100-1, short and broad, and have pink testa. Yield potential low. Very high levels of resistance to southern corn rootworm, corn earworm, and potato leafhopper. Resistance to corn earworm is antibiosis. Moderate levels of resistance to *C. arachidicola* and to fall armyworm, but is susceptible to thrips and *M. arenaria*.

**PI 619174. *Arachis hypogaea* L.**

Breeding. GP-NC WS 10. GP-108. Pedigree - *A. hypogaea* (PI 261942) x *A. cardenasii* (GKP 10017, PI 262141). Botanically intermediate between subsp. *hypogaea* and *fastigiata*. Flowers not produced on the main stem, but vegetative reproductive nodes on lateral branches are sequential.

Growth habit decumbent. Main stem, approx. 20 cm high, apparent at maturity. Medium size plants nearly cover the soil surface between 91 cm rows by maturity. Stems hairy and have some red pigmentation. Maturity approx. 10 d later than Florigiant. About half of the pods one-seeded and the others two-seeded. Pods deeply constricted with inconspicuous beaks and average 18.1 mm long and 10.9 mm wide. Seeds short and broad, have pink testa, and average 26.5 mm 100-1. Yield potential low. Very high levels of resistance to potato leafhopper, southern corn rootworm, and corn earworm. Resistant to the fall armyworm, but susceptible to thrips and southern stem rot.

The following were developed by H. Thomas Stalker, North Carolina State University, Department of Crop Science, P. O. Box 7629, Raleigh, North Carolina 27695-7629, United States; Thomas G. Isleib, North Carolina State University, Department of Crop Science, Box 5155, Raleigh, North Carolina 27695-7629, United States; M.K. Beute, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629, United States; B.B. Shew, North Carolina State University, Dept. of Plant Pathology, Raleigh, North Carolina 27695-7629, United States. Received 06/08/2001.

**PI 619175. *Arachis hypogaea* L.**

Breeding. GP-NC WS 11. GP-109. Pedigree - *A. hypogaea* (NC 6//NC Ac 3033) x GP-NC WS 1. Botanically belongs to the *A. hypogaea* subsp. *hypogaea* var. *hypogaea*. Medium size plants do not completely fill 91 cm rows by maturity. Main stem about 27 cm high. Plants require about 150 d to maturity. Most pods graded to fancy size, averaging 36.3 mm long and 16.3 mm wide. Pods two-seeded and deeply constricted with pronounced beaks. Testa tan and smooth, and average 86.6 100-1. Seed size significantly greater than previously released early leaf spot resistant interspecific hybrid lines. Yield averages 2645 kg ha<sup>-1</sup> compared to 3531 for NC7. Higher levels of resistance to *C. arachidicola* than previously released interspecific hybrid derivatives and *A. hypogaea* leaf spot-resistant lines.

**PI 619176. *Arachis hypogaea* L.**

Breeding. GP-NC WS 12. GP-110. Pedigree - *A. hypogaea* (NC 6//NC Ac 3033) x GP-NC WS 1. Botanically belongs to the *A. hypogaea* subsp. *hypogaea* var. *hypogaea*. Medium to small plants do not completely fill 91 cm rows by maturity. Main stem about 24 cm long and is not apparent at maturity. Plants require about 150 d to maturity. Most pods graded to fancy size, and average 36.1 mm long and 15.0 mm wide. Pods two-seeded and moderately constricted with inconspicuous beaks. Testa tan and smooth. Yield averages 2688 kg ha<sup>-1</sup> as compared to 3531 kg ha<sup>-1</sup> for NC7 and seeds average 83.10 g 100-1. Significantly higher levels of resistance to *C. arachidicola* than resistant *A. hypogaea* lines or previously released interspecific hybrid derivatives. Moderate levels of resistant to *C. personatum*.

**PI 619177. *Arachis hypogaea* L.**

Breeding. GP-NC WS 13. GP-111. Pedigree - *A. hypogaea* (NC 5 //PI 270806) x GP-NC WS 4. Botanically is intermediate between subsp. *hypogaea* and *fastigiata*. No flowers produced on the main stem, but vegetative reproductive nodes on lateral branches have a sequential pattern. Growth habit semi-erect, bunchy-type. Medium to large plants do not completely fill 91 cm rows by maturity. Main stem, about 28 cm long, is not apparent at maturity. Plants require about 150 d to mature. Pods average

35.1 mm long, 15.1 mm wide, and are two-seeded, deeply constricted with pronounced beaks. Pod yield averages 2675 kg ha as compared to 3531 kg ha<sup>-1</sup> for NC7. Testa tan and may split at or before maturity. High levels of early leaf spot resistance and few sporulating lesions. Moderate to high levels of resistance to *C. personatum*, which is not significantly different from the resistant cultivar Southern Runner.

**PI 619178. *Arachis hypogaea* L.**

Breeding. GP-NC WS 14. GP-112. Pedigree - *A. hypogaea* (NC 6//PI 270806) x *A. cardenasii* GP-NC WS 4. Botanically belongs to the *A. hypogaea* subsp. *hypogaea* var. *hypogaea*. Plant size medium to large. Main stem, about 30 cm high, is not apparent at maturity. Requires 152+ d to mature. Pods, averaging 37.8 mm long and 15.5 mm wide, are two-seeded and deeply constricted with pronounced beaks. Testa tan and smooth, and commonly split by maturity. Seeds average 72.3 g 100<sup>-1</sup>. Pod yield averages 3013 kg ha<sup>-1</sup> compared to 3531 kg ha<sup>-1</sup> for NC7. Highly resistant to early (*C. arachidicola*) and late leaf spot (*C. personatum*). Based on subjective ratings for early leaf spot resistance, significantly more resistant than *A. hypogaea* lines and previously released interspecific hybrid derivatives, and expresses moderate levels of resistance to late leaf spot.

**PI 619179. *Arachis hypogaea* L.**

Breeding. GP-NC WS 15. GP-113. Pedigree - *A. hypogaea* (NC 6//PI 270806) x *A. cardenasii* GP-NC WS 4. Botanically belongs to the *A. hypogaea* subsp. *hypogaea* var. *hypogaea*. Medium to large plants do not completely fill 91 cm rows by maturity. Main stem, about 37 cm high, is not apparent at maturity. Plants require about 150 d to mature. Pods average 39.2 mm long and 16.9 mm wide, are two-seeded and deeply constricted with pronounced beaks. Most grade to fancy size. Seeds average 71 g 100<sup>-1</sup>. Yields average 2700 kg ha<sup>-1</sup> as compared to 3531 kg ha<sup>-1</sup> for NC7. Testa tan and smooth. Very high levels of resistance to *C. arachidicola* in the field, expressed as small lesions. Based on subjective ratings and numbers of lesions, significantly more resistant than *A. hypogaea* lines are previously released interspecific hybrids.

The following were developed by M.A. Afzal, Bangladesh Agricultural Research Institute, Pulses Research Centre, Joydebpur, Gazipur, Bangladesh; Md. Abu Bakr, Bangladesh Agricultural Research Institute, Pulses Research Centre, Gazipur, Bangladesh; M. Motior Rahman, Bangladesh Agricultural Research Institute, Pulses Research Center, Gazipur, Bangladesh; Nusrat Karim Luna, Bangladesh Agricultural Research Institute, Pulses Research Centre, Gazipur, Bangladesh. Received 06/06/2001.

**PI 619180. *Vigna mungo* (L.) Hepper**

Cultivar. "BARIMASH-2". CV-196. Pedigree - Advance lines BMA-2141 x BMA-2140 (collected from India). Growth habit erect and attains height of 33-35 cm. Flowers 35-40 days after emergence and reaches physiological maturity 70-75 days after emergence. Leaves trifoliate, alternate, and green. Leaf pubescence present. Petioles short and purple-green. Corolla yellowish-green. Raceme position above the canopy. Mature pods black and heaving hair. Seeds drum-shaped and blackish. 100 seed weight of about 4.2 g. Resistance to yellow mosaic virus (YMV) and cercospora leaf spot (CLS). Rates 0 on 0 to 5 rating scale for both YMV and CLS. Seeds have 86.2% kernel content, and produce 71.8% head dhal (intact cotyledon after splitting) using traditional method of

dehulling. Approx. 33 min. to cook and shows solid dispersion of 27.4%. Contains 22.9% protein and 47.0% carbohydrate.

The following were developed by M.A. Afzal, Bangladesh Agricultural Research Institute, Pulses Research Centre, Joydebpur, Gazipur, Bangladesh. Received 06/06/2001.

**PI 619181. *Vigna mungo* (L.) Hepper**

Cultivar. "BARIMASH-3". Pedigree - Two advance lines BMA 2140 x BMA-2038 (collected from India). Growth habit erect and attains a height of 35-38 cm. Flowers 34-45 days after emergence and reaches physiological maturity 70-75 days after emergence. Leaves trifoliate, alternate, and green. Leaf pubescence present. Petioles short and purple-green. Corolla yellowish-green. Raceme position above the canopy. Mature pods black and heaving hair. Seeds drum-shaped and blackish. 100 seed weight of about 4.2 g. Resistance to yellow mosaic virus (YMV) and cercospora leaf spot (CLS). Rated 0 on 0 to 5 rating scale for both diseases. Seed have 86.1% kernel content, but produce 72.66% head dhal (intact kernel after splitting) using traditional method of dehulling. Approx. 34 min. to cook and shows solid dispersion of 31%. Contains 23% protein and 47.0% carbohydrate.

The following were developed by Dale L. Reeves, South Dakota State University, Dept. of Plant Science, Plant Sci. Bldg., Box 2140C, NPB 247, Brookings, South Dakota 57007, United States. Received 07/10/2001.

**PI 619182. *Avena sativa* L.**

Breeding. Pureline. SD 89210; NSGC 8748. Pedigree - MN//Coker/Cayuse/3/Dal/Nodaway 70/4/Spear/Kelsey//Nodaway 70/MN. MN = Otter//Garland/PI267989. Spring oat. Early maturity, good test weight high groat %, high beta glucan, moderately high oil. Susceptible to lodging, resistant to loose smut, susceptible to BYDV, good crown rust resistance.

**PI 619183. *Avena sativa* L.**

Breeding. Pureline. SD 94004; NSGC 8749. Pedigree - Don/4/ND75043-22/Moore//Steele/3/Don/PI502958. Spring oat. Midseason maturity, white hulls, very high test weight, medium height. Resistant to loose smut, moderately resistant to crown rust, moderately susceptible to BYDV, susceptible to stem rust.

**PI 619184. *Secale cereale* L. subsp. *cereale***

Breeding. Population. SD 83-3; NSGC 8750. Pedigree - Musketeer/dwarfs obtained from Grant McLeod, Swift Current, Saskatchewan. Dwarf selections were 8093A, 8093B4, 8093C, 8094F4, 8093G4. Crosses were bulked. Winter rye. The progeny were grown under isolation for 15 years. Plots were thinly planted every year with the identified tall plants rogued before pollination. The goal was to develop a semi-dwarf, winter-hardy rye for South Dakota. Selected a minimum of 200 plants each year.

The following were donated by Mark Roh, USDA, ARS, U.S. National Arboretum, Building 010A, Room 238, BARC-W, Beltsville, Maryland 20705, United States. Received 04/24/2000.

**PI 619185. *Zea mays* L. subsp. *mays***  
Cultivar. "Black"; Q 42636.

**PI 619186. *Zea mays* L. subsp. *mays***  
Cultivar. "Coffee"; Q 42637.

**PI 619187. *Zea mays* L. subsp. *mays***  
Cultivar. "Red"; Q 42638.

**PI 619188. *Zea mays* L. subsp. *mays***  
Cultivar. "White"; Q 42639.

**PI 619189. *Zea mays* L. subsp. *mays***  
Cultivar. "Yellow"; Q 42640.

The following were donated by Norman F. Weeden, Cornell University, New York State Agric. Exp. Station, Department of Horticultural Sciences, Geneva, New York 14456-0462, United States; Cheng Suozhan, Chinese Academy of Agric. Sciences, Institute of Pomology, Zhengzhou, Henan, China. Received 07/19/2001.

**PI 619190. *Malus micromalus* Makino**  
Uncertain. GMAL 1882.a.

The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 07/24/2001.

**PI 619191 PVPO. *Lactuca sativa* L.**  
Cultivar. "HERITAGE". PVP 200100210.

The following were developed by Seed Research of Oregon, Inc., Corvallis, Oregon, United States. Received 07/24/2001.

**PI 619192 PVPO. *Lolium perenne* L.**  
Cultivar. "SR 4500". PVP 200100211.

The following were developed by Holden's Foundation Seeds, Inc., United States. Received 07/24/2001.

**PI 619193 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "LH239". PVP 200100212.

The following were developed by Stoneville Pedigreed Seed Company, Stoneville, Mississippi, United States. Received 07/24/2001.

**PI 619194 PVPO. *Gossypium hirsutum* L.**  
Cultivar. "ST 4793R". PVP 200100213.

The following were developed by Syngenta Seeds, Inc., United States. Received 07/24/2001.

**PI 619195 PVPO. Phaseolus vulgaris L.**  
Cultivar. "PALATI". PVP 200100214.

**PI 619196 PVPO. Phaseolus vulgaris L.**  
Cultivar. "SB 4247". PVP 200100215.

The following were developed by Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167, United States. Received 07/24/2001.

**PI 619197 PVPO. Triticum aestivum L.**  
Cultivar. "MITCHELL". PVP 200100216.

**PI 619198 PVPO. Triticum aestivum L.**  
Cultivar. "NuHorizon". PVP 200100217.

**PI 619199 PVPO. Triticum aestivum L.**  
Cultivar. "DUMAS". PVP 200100218.

**PI 619200 PVPO. Triticum aestivum L.**  
Cultivar. "CHARTER". PVP 200100219.

The following were developed by Delta and Pine Land Company, Scott, Mississippi, United States. Received 07/24/2001.

**PI 619201 PVPO. Gossypium hirsutum L.**  
Cultivar. "PM 1199 RR". PVP 200100222.

The following were developed by Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167, United States. Received 07/24/2001.

**PI 619202 PVPO. Solanum tuberosum L.**  
Cultivar. "NL20-SHE". PVP 9800106.

The following were developed by Richard Berberet, Oklahoma State University, Department of Entomology & Plant Pathology, Room 127 NRC, Stillwater, Oklahoma 74078-0464, United States; John L. Caddel, Oklahoma State University, Oklahoma Cooperative Extension Service, Department of Agronomy, Stillwater, Oklahoma 74078-0507, United States; Ali A. Zarrabi, Oklahoma State University, Department of Entomology & Plant Pathology, 127 Noble Research Center, Stillwater, Oklahoma 74078-0464, United States. Received 06/23/2001.

**PI 619203. Medicago sativa L. subsp. sativa**  
Breeding. OK 190. GP-346. Pedigree - Source material screened for resistance to: blue alfalfa aphids, included Aggressor, Apollo Supreme, Arrow, Cimarron, Cimarron VR, CUF 101, Garst 630, OK 169, WL 317, WL 320, WL 322 HQ, and 555; phytophthora root rot included Cimarron, WL 320, and WAPH-1(2) germplasm. 579 plants were transplanted to an isolated field and interpollinated. Parents traced to 25% 555, 18% unreleased populations, 8% each Cimarron and WL 320, 7% CUF 101, and 5% each Arrow and OK 169. Provides a combination of a broad genetic base, pest resistance and production potential needed in alfalfa for the

southern Great Plains. Result of the interpollination of 579 plants derived from the convergence of three lines of pest resistance breeding: 1) resistance to the blue alfalfa aphid, spotted alfalfa aphid, and phytophthora root rot. The percentages of seedlings exhibiting resistance after infestation with aphids collected in Oklahoma were: blue alfalfa aphid-OK 190=13, CUF 101(R) (12)=25, and Arc(S)=6; spotted alfalfa aphid-OK 190=55, Baker(R)=50, and Caliverde(S)=2. Based on parental sources, should provide resistance to bacterial wilt, verticillium wilt, fusarium wilt, anthracnose, phytophthora root rot, and pea aphid, and a low or moderate level of resistance to alfalfa stem nematode and aphanomyces root rot. Flower color predominately purple (>95%) with some variegated flowers and a trace of white and yellow flowers. Fall dormancy similar to Legend, .

The following were developed by Thomas Gulya, USDA, ARS, North Dakota State University, Northern Crop Science Laboratory, Fargo, North Dakota 58105, United States; Jerry F. Miller, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, Fargo, North Dakota 58105, United States; Gerald Seiler, USDA, ARS, Northern Crop Science Laboratory, P.O. Box 5677, University Station, Fargo, North Dakota 58105, United States. Received 07/09/2001.

**PI 619204. *Helianthus annuus* L.**

Breeding. Pureline. RHA 419. GP-259. Pedigree - F4-derived F6 fertility restorer germplasm selected from the cross RHA 373/ARG 1575-2. RHA 373 is a restorer line released by USDA and the North Dakota Agric. Exp. Sta. in 1990. ARG 1575-2 is a bulk of 41 self-pollinated F5 plants derived from the cross cms HA 89/accession *Helianthus argophyllus* Raf.-1575 (PI 468651) and was released by USDA and the North Dakota Agric. Exp. Sta. in 1989. Fertility restorer line. Homozygous for resistance to races Pla 300, Pla 700, Pla 730, and Pla 770 of downy mildew, and thus would provide protection against metalxyl resistant strains of these races. Upper stem branching conditioned by a recessive gene and are homozygous for fertility restoration of the PET1 cytoplasmic male sterility. Approx. 137 cm in height.

**PI 619205. *Helianthus annuus* L.**

Breeding. Pureline. RHA 420. GP-260. Pedigree - F4-derived F6 fertility restorer germplasm selected from the cross RHA 373/ARG 1575-2. RHA 373 is a restorer line released by USDA and the North Dakota Agric. Exp. Sta. in 1990. ARG 1575-2 is a bulk of 41 self-pollinated F5 plants derived from the cross cms HA 89/accession *Helianthus argophyllus* Raf.-1575 (PI 468651) and was released by USDA and the North Dakota Agric. Exp. Sta. in 1989. Plants comprising PI 468651 were collected along a sandy beach near Daytona, FL, in 1980. Fertility restorer line. Homozygous for resistance to races Pla 300, Pla 700, Pla 730, and Pla 770 of downy mildew, and thus would provide protection against metalxyl resistant strains of these races. Upper stem branching conditioned by a recessive gene and are homozygous for fertility restoration of the PET1 cytoplasmic male sterility. Approx. 137 cm in height.

**PI 619206. *Helianthus annuus* L.**

Breeding. Pureline. RHA 428. GP-261. Pedigree - F7 derived F8 fertility restorer germplasm selected from the cross RHA 801//RHA 365/PI 413157. PI 413157 is a wild *Helianthus annuus* L. accession collected in New Mexico with approx. 65% of plants resistant to race Pla 730 of downy mildew. Pollen from resistant plants of PI 413157 was collected and

crossed to RHA 365. RHA 365 is a single-headed restorer line released by USDA-ARS in 1988. F1 plants of the cross RHA 365/PI 413157 were tested for resistance to race Pla 730 of downy mildew and resis. Fertility restorer line. Resistant to races PLA 300, Pla 700, Pla 730, and Pla 770 of downy mildew and provide protection against metalxyl resistant strains of these races. Resistant plants were increased by self-pollination and bulked.

The following were developed by HZPC Holland B.V., Netherlands. Received 07/26/2001.

**PI 619207 PVPO. Solanum tuberosum L.**  
Cultivar. "CARLITA". PVP 9700113.

The following were donated by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 09/21/1995.

**PI 619208. Prunus cerasus L.**  
Cultivar. GPRU 61. Collected in Kazakhstan.

The following were collected by Philip L. Forsline, USDA, ARS, Cornell University, Plant Genetic Resources Unit, Geneva, New York 14456-0462, United States. Received 10/31/1996.

**PI 619209. Prunus mahaleb L.**  
Wild. KAZ 96 09-03; GPRU 62. Collected 09/15/1996 in Kazakhstan. Latitude 42 deg. 19' 0'' N. Longitude 70 deg. 22' 0'' E. Elevation 1010 m. Talasky Alatan Province. Located in "Reserve" Aksu Jabagli. Collected on North Slope of deep canyon, near a river bed. Soil: fine, stoney. Incline 5%, North, open area. Rainfall 320 mm. Dominant tree sp: Malus; Assoc. -Prunus mahaleb. Very clean of insect and disease.

The following were donated by USDA, ARS, Fruit Laboratory, Plant Germplasm Quarantine Office, Beltsville, Maryland 20705-2350, United States. Received 02/13/1997.

**PI 619210. Prunus cerasus L.**  
Cultivar. "Pandy 35"; Q 22897A; GPRU 66.

The following were donated by Dan Thompson, Agriculture Canada, Center for Plant Health, Saanichton Plant Quarantine Station, Sidney, British Columbia V8L 1H3, Canada. Received 09/11/1997.

**PI 619211. Prunus cerasus L.**  
Cultivar. SCH 11-44-4; Q1180-13; GPRU 67; Pandy 279.

**PI 619212. Prunus cerasus L.**  
Cultivar. SCH 12-27-2; Q1227-01; GPRU 68; Pandy 48.

**PI 619213. Prunus cerasus L.**  
Cultivar. SCH 11-26-3; Q1227-02; GPRU 69; Pandy BB119.

The following were donated by Pam Waterworth, USDA, APHIS, Plant Germplasm Quarantine Center, Building 580, Barc-East, Beltsville, Maryland 20705-2350, United States. Received 03/02/1998.

- PI 619214. Prunus cerasus L.**  
Cultivar. Q22549A1; GPRU 70; M-209. Collected in Hungary.
- PI 619215. Prunus cerasus L.**  
Cultivar. Q24350D1; GPRU 71; Nana. Collected in Romania.
- PI 619216. Prunus cerasus L.**  
Cultivar. Q24420B; GPRU 72; Kelleris 14. Collected in Yugoslavia.

The following were donated by Amy F. Iezzoni, Michigan State University, Department of Horticulture, Horticulture Building, East Lansing, Michigan 48823, United States. Received 02/16/1999.

- PI 619217. Prunus cerasus L.**  
Cultivar. GPRU 73; Pitic de Iasi.
- PI 619218. Prunus cerasus L.**  
Cultivar. GPRU 74; I 24 (63).
- PI 619219. Prunus cerasus L.**  
Cultivar. GPRU 75; I 13 (61).
- PI 619220. Prunus cerasus L.**  
Cultivar. GPRU 76; Erdi Nagygyumolesu.
- PI 619221. Prunus cerasus L.**  
Cultivar. GPRU 77; Lebedyanskaya o.p. 26e-2-51.
- PI 619222. Prunus cerasus L.**  
Cultivar. GPRU 78; Mari Timpurii.
- PI 619223. Prunus cerasus L.**  
Cultivar. GPRU 79; Rexelle.
- PI 619224. Prunus cerasus L.**  
Cultivar. GPRU 80; HY 38/13 o.p. IIII-18-12; Itt 18 (12).
- PI 619225. Prunus cerasus L.**  
Cultivar. GPRU 81; Crisana.

The following were donated by Raymond Mock, USDA, ARS, Plant Germplasm Quarantine Office, Building 580, BARC-East, Beltsville, Maryland 20705-2350, United States. Received 03/24/2001.

- PI 619226. Prunus cerasus L.**  
Cultivar. Q 37420B; GPRU 85.
- PI 619227. Prunus cerasus L.**  
Cultivar. 37421a1; GPRU 96; Pamjet Vavilova.

**PI 619228. *Prunus canescens* Bois**

Wild. GPRU 97; 39515b.

**PI 619229. *Prunus* sp.**

Rootstock. 39520b; GPRU 98; VSL 1. Cherry type.

**PI 619230. *Prunus maximowiczii* Rupr.**

Wild. GPRU 99; 39652a.

The following were developed by Robert A. Graybosch, USDA-ARS, University of Nebraska, Dept. of Agronomy, 344 Keim Hall, Lincoln, Nebraska 68583, United States. Received 08/01/2001.

**PI 619231. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. N96L9970; NSGC 8751. Pedigree - GRS 1201/TAM 202. Hard red winter wheat. Carries 1AL.1RS translocation. Resistance (derived from GRS1201) to greenbug biotypes B, C, E, G, and I.

The following were developed by Clay Sneller, University of Arkansas, Department of Agronomy, Fayetteville, Arkansas 72701, United States. Received 01/21/2000.

**PI 619232. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "UARK-5896"; SY0002003.

The following were developed by C.E. Caviness, Arkansas Agr. Exp. Sta., University of Arkansas, 115 Plant Science Building, Fayetteville, Arkansas 72701, United States. Donated by Clay Sneller, University of Arkansas, Department of Agronomy, Fayetteville, Arkansas 72701, United States. Received 08/01/2001.

**PI 619233. *Glycine max* (L.) Merr.**

Cultivar. Pureline. "Narrow-M"; SY0117001. Metribuzin tolerant selection from Narrow.

The following were donated by Asian Vegetable Research and Development Center, P.O. Box 42, Shanhua, Tainan, Taiwan; Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 619234. *Amaranthus spinosus* L.**

Wild. A75-78; RRC 114; RRC 78S-114; Ames 2052. Collected 09/01/1977 in Indonesia. Latitude 6 deg. 55' 0'' S. Longitude 109 deg. 45' 0'' E. Batang. Seed color is dark brown (looks black). The leaf and flower is green. RRC class type is weed. General observations: spiny and shatters; potential weed problem.

**PI 619235. *Amaranthus spinosus* L.**

Wild. A75-79; RRC 115; RRC 78S-115; Ames 2053. Collected 09/01/1977 in Thailand. Latitude 18 deg. 47' 0'' N. Longitude 98 deg. 59' 0'' E. Chiang Mai. Seed color is black. The leaves and flowers are green. Leaf color is green. RRC class type is weed. General observations: spiny and

shatters; potential weed problem.

**PI 619236. *Amaranthus caudatus* L.**

Cultivated. A75-86; RRC 122; RRC 78S-122; Ames 2059; A-90. Collected 09/01/1977 in India. Seed color is white (RRC: black). Flower color is green. Leaf color is green. RRC class type is South American. General observations: Some 'edulis' segregates (RRC: unable to increase).

The following were donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States; R.R. Harwood, Winrock International, Petit Jean Mt., Morrilton, Arkansas 72110, Morrilton, Arkansas, United States. Received 02/20/1981.

**PI 619237. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 124; RRC 78S-124; matia; Ames 2061. Collected 09/01/1977 in Nepal. Elevation 975 m. Charijari (Charyari). Planted in June and July, harvested in December. Seed color is light tan (RRC: white). Flower color is red and green. Leaf color is green. RRC class type is Nepal grain. General observations: Very late maturing.

**PI 619238. *Amaranthus dubius* Mart. ex Thell.**

Cultivated. RRC 131; RRC 78S-131; lalte; Ames 2068. Collected 09/01/1977 in Nepal. Rampuj. The seeds are black. The stem has some red. The flowers and leaves are green. The RRC class type is vegetable. General observations: Very large leaves.

**PI 619239. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 138; RRC 78S-138; Ames 2071. Collected 09/01/1977 in Nepal. Latitude 27 deg. 43' 0'' N. Longitude 85 deg. 19' 0'' E. Kathmandu. Seed color is brown, white, and gold. Flower color is red. Leaf color is green and rufescent-green with red overtones. RRC class type is Nepal grain.

**PI 619240. *Amaranthus hypochondriacus* L.**

Breeding. RRC 142; RRC 78S-142; Ames 2076. Collected 09/01/1977 in Nepal. Latitude 27 deg. 43' 0'' N. Longitude 85 deg. 19' 0'' E. Kathmandu. Seed color is brown (RRC: black, brown). Flower color is red. Leaf color is green. RRC class type is Nepal spike. General observations: Nepal--some short segregates.

The following were collected by R.R. Harwood, Winrock International, Petit Jean Mt., Morrilton, Arkansas 72110, Morrilton, Arkansas, United States. Donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 619241. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 145; RRC 78S-145; Ames 2082; ICAR 21962. Collected 09/01/1977 in Unknown. Seed color is tan (RRC: white). Flower color is green. Leaf color is green. RRC class type is Nepal grain. General observations: Very late maturing.

**PI 619242. *Amaranthus hypochondriacus* L.**

Breeding. RRC 146; RRC 78S-146; Ames 2083; ICAR 21937. Collected 09/01/1977 in Unknown. Seed color is white. Flower color is green. Leaf color is green. RRC class type is Nepal. General observations: Low seed

yield and some interesting short segregates.

**PI 619243. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 149; RRC 78S-149; Ames 2086. Collected 09/01/1977 in Nepal. Latitude 29 deg. 50' 0'' N. Longitude 80 deg. 42' 0'' E. Elevation 1219 m. Mankot, Chauri, Jahari. Seed color is white and gold. Flower color is red (RRC: green). Leaf color is green. RRC class type is Nepal. General observations: Late maturing and predominantly white-seeded.

**PI 619244. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 151; RRC 78S-151; Ames 2087; ICAR 21790. Collected 09/01/1977 in Unknown. Seed color is white. Flower color is red and green (RRC: green). Leaf color is green. RRC class type is Nepal.

**PI 619245. *Amaranthus hypochondriacus* L.**

Breeding. RRC 153; RRC 78S-153; Ames 2088; ICAR 21919. Collected 09/01/1977 in Nepal. Seed color is white. Flower color is red. Leaf color is green. RRC class types: both Nepal and spike. General observations: The spike type is excellent, and there are white seeded dwarf plants.

**PI 619246. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 156; RRC 78S-156; Ames 2090; ICAR 21948. Collected 09/01/1977 in Nepal. Seed color is white. Flower color is green. Leaf color is green. RRC class type is Nepal. General observations: Very late-maturing.

The following were donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 619247. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 173A; RRC 78S-173A; Ames 2095; A-881. Collected 10/1977 in Mexico. Pedigree - Segregated from RRC 173 at the RRC. The seeds are mostly white, with translucent perisperm. Flower color is green and red (RRC: green). The stem is red. Leaf color is green and rufescent-green with red overtones (RRC: green). RRC class type is Nepal.

**PI 619248. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 173B; RRC 78S-173B; Ames 2096; A-881. Collected 10/1977 in Mexico. Pedigree - Segregated from RRC 173 at the RRC. The seeds are mostly white, with opaque perisperm. The stems are red or green, the leaves are green with faint red underneath. The RRC CLASS TYPE: Nepal.

**PI 619249. *Amaranthus hypochondriacus* L.**

Cultivated. RRC 173C; RRC 78S-173C; Ames 2097; A-881. Collected 10/1977 in Mexico. Pedigree - Segregated at the RRC from RRC 173. This is from the brown seeds that were sent to the NPGS in 1981. The yellow and white seeds were segregated at the RRC as other accessions. The seed color is mostly brown. Flower color is green and red (RRC: green). Leaf color is green and rufescent-green with red overtones, and dark red undersides (RRC: green). RRC class type is Nepal.

**PI 619250. *Amaranthus hypochondriacus* L.**

Breeding. "K 116"; RRC K116; RRC 80S-K116; Ames 2265. Pedigree - The original seed packet has "F5: late bushy X African grain type". In RRC

terms this would be a cross between a bushy Mexican *A. hypochondriacus* and a black seeded African vegetable *A. cruentus*. The seeds are gold, the leaves green, the flowers are red, green and pink. It matures late but dries down. The plants are approximately 1/3 all green, and 2/3 with red coloring, as observed in a greenhouse 1981 Ames, Iowa.

The following were developed by HZPC Holland B.V., Netherlands. Received 08/09/2001.

**PI 619251 PVPO. *Solanum tuberosum* L.**

Cultivar. "PLATINA". PVP 9800157.

The following were donated by Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States; Tamil Nadu Agricultural University, Horticulture Department, Coimbatore, Tamil Nadu 641 003, India. Received 02/20/1981.

**PI 619252. *Amaranthus tricolor* L.**

Cultivated. A14; RRC 198; RRC 78S-198; Ames 2111. Seed color is black. Flower color is mixed. Leaf color is mixed. RRC class type is weedy. Not uniform.

The following were donated by S.N. Lohani, Department of Agronomy, Kathmandu, Nepal; Rodale Research Center, Rodale Press, Box 323, RD 1, Kutztown, Pennsylvania 19530, United States. Received 02/20/1981.

**PI 619253. *Amaranthus hypochondriacus* L.**

Landrace. S. No. 1; NA6001/77; RRC 243; RRC 78S-243; Ames 2155. Collected 1977 in Nepal. Elevation 2286 m. Dansago. Seed color is white and brown (RRC: white). Flower color is red. Leaf color is variegated (RRC: green). RRC class type is Nepal. General observations: Very late-maturing with some dark-seeded segregates.

**PI 619254. *Amaranthus hypochondriacus* L.**

Landrace. S. No. 2; NA6002/77; RRC 244; RRC 78S-244; Ames 2156. Collected 1977 in Nepal. Latitude 27 deg. 57' 0'' N. Longitude 85 deg. 56' 0'' E. Elevation 2072 m. Tatopani, Jumla District. Seed color is white and brown (RRC: white). Flower color is red. Leaf color is variegated (RRC: green). RRC class type is Nepal. General observations: Late-maturing and similar to RRC NUM 243 (Ames 2155).

**PI 619255. *Amaranthus hypochondriacus* L.**

Landrace. S.No.4; NA6004/77; RRC 246; RRC 78S-246; Ames 2158. Collected 1977 in Nepal. Latitude 29 deg. 16' 0'' N. Longitude 82 deg. 13' 0'' E. Elevation 2438 m. Dita, Jumla District. Seed color is white. Flower color is red. Leaf color is variegated (RRC: green). RRC class type is Nepal. General observations: Similar to RRC NUM 243 (Ames 2155).

**PI 619256. *Amaranthus hypochondriacus* L.**

Landrace. S.No.5; NA6005/77; RRC 247; RRC 78S-247; Ames 2159. Collected 1977 in Nepal. Latitude 29 deg. 2' 0'' N. Longitude 82 deg. 47' 0'' E. Elevation 2438 m. Tibrikot, Jumla District. Seed color is white and brown (RRC: white). Flower color is red. Leaf color is green and variegated (RRC: green). RRC class type is Nepal. General observations:

Similar to RRC NUM 243 (Ames 2155).

**PI 619257. *Amaranthus hypochondriacus* L.**

Landrace. NA6006/77; RRC 248; RRC 78S-248; Ames 2160. Collected 1977 in Nepal. Bonaguan. Seed color is white and brown (RRC: white). Flower color is red. Leaf color is green and variegated (RRC: green). RRC class type is Nepal.

**PI 619258. *Amaranthus hypochondriacus* L.**

Landrace. S.No.12; NA6012/77; RRC 254; RRC 78S-254; Ames 2166. Collected 1977 in Nepal. Latitude 29 deg. 12' 0'' N. Longitude 81 deg. 53' 0'' E. Elevation 1645 m. Nagma, Jumla District. Seed color is white and brown. Flower color is green. Leaf color is green. RRC class type is Nepal. General observations: Late-maturing and fairly uniform except for seed color.

**PI 619259. *Amaranthus hypochondriacus* L.**

Breeding. S.No.24; NA6306/77; RRC 266; RRC 78S-266; Ames 2178. Collected 1977 in Nepal. Latitude 28 deg. 2' 0'' N. Longitude 84 deg. 37' 0'' E. Elevation 914 m. Sandu, Dailakh District. Seed color is white. Flower color is red. Leaf color is green. RRC class type is spike. General observations: May have *Lygus* resistance and shows some dry-down.

**PI 619260. *Amaranthus hypochondriacus* L.**

Landrace. S.No.27; NA5002/77; RRC 269; RRC 78S-269; Ames 2181. Collected 1977 in Nepal. Elevation 2438 m. Jufal, Dolpa District. Seed color is white and brown (RRC: white). Flower color is red. Leaf color is green. RRC class type is Nepal, spike. General observations: Nepal--very late; spike--high seed yield.

**PI 619261. *Amaranthus hypochondriacus* L.**

Landrace. S.No.29; NA2301/77; RRC 271; RRC 78S-271; Ames 2183. Collected 1977 in Nepal. Elevation 1584 m. Santu Market, Rasua District. Seed color is white and brown (RRC: white). Flower color is green. Leaf color is green. RRC class type is Nepal, spike.

**PI 619262. *Amaranthus hypochondriacus* L.**

Landrace. S.No.32; NA5801/77; RRC 274; RRC 78S-274; Ames 2185. Collected 1977 in Nepal. Elevation 2133 m. Humla District. Seed color is white and brown (RRC: white). Flower color is green. Leaf color is green. RRC class type is Nepal, spike. General observations: Nepal--low yield; spike--low yield.

**PI 619263. *Amaranthus hypochondriacus* L.**

Landrace. S.No.35; NA5804/77; RRC 277; RRC 78S-277; Ames 2188. Collected 1977 in Nepal. Elevation 2133 m. Humla District. Seed color is white and brown (RRC: white and gold). Flower color is red. Leaf color is green. RRC class type is Nepal, spike. General observations: Spike--high yield.

**PI 619264. *Amaranthus caudatus* L.**

Landrace. NA4902/77; RRC 279; RRC 78S-279; Ames 2190. Collected 1977 in Nepal. Mustang District. Seed color is pink. Flower color is red. Leaf color is green. RRC class type is South American (grain).

**PI 619265. *Amaranthus hypochondriacus* L.**

Landrace. NA6014/77; RRC 282; RRC 78S-282; Ames 2193. Collected 1977 in

Nepal. Dungeswai. Seed color is brown and white. Flower color is red. Leaf color is green. RRC class type is Nepal. General observations: Segregates for bushiness.

**PI 619266. *Amaranthus hypochondriacus* L.**

Landrace. S.No.41; NA3401/77; RRC 283; RRC 78S-283; Ames 2194. Collected 1977 in Nepal. Latitude 26 deg. 58' 0'' N. Longitude 85 deg. 9' 0'' E. Elevation 914 m. Batra, Bara district. Seed color is white. Flower color is red. Leaf color is green. RRC class type is Nepal.

The following were developed by R.J. Kratochvil, University of Maryland, Maryland Agric. Exp. Station, College Park, Maryland 20742, United States; Arvydas Grybauskas, University of Maryland, Dept Natural Resource Sciences, 2102 Plant Science Bldg., College Park, Maryland 20742-4452, United States; D.J. Sammons, Purdue University, Administration Bldg., Rm 26, West Lafayette, Indiana 47907-1168, United States; Jose Costa, University of Maryland, Natural Resource Sciences Dept., Plant Sciences Bldg. Room 2102, College Park, Maryland 20742-4452, United States; A. Cooper, University of Maryland, Dept. of Natural Resource Sciences and Landscape, Architecture, College Park, Maryland 20742-4452, United States; E. Shirley, University of Maryland, Dept. of Natural Resource Sciences and Landscape, Architecture, College Park, Maryland 20742-4452, United States. Received 08/16/2001.

**PI 619267. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. Pureline. "CATCHPENNY". CV-298. Pedigree - Post/4/Jotun/3/Hudson//VA67-42-47/Rapidan/5/Sussex/Nomini. Six rowed, feed winter barley. Coleoptile green, juvenile plants have prostrate habit, leaves glabrous, auricles translucent, collar closed and anthocyanin absent. Nodes green, flag leaf short, narrow and erect at boot stage. Spikes awnless and compact of medium length. Kernels white, semiwrinkled, covered, of medium size and short haired rachilla present. Adapted to mid-Atlantic region.

The following were collected by K.L. Chambers. Developed by Yale University, New Haven, Connecticut, United States. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619268. *Pycnanthemum beadleii* (Small) Fernald**

Breeding. P-78-1. Collected 08/23/1963 in North Carolina, United States. Latitude 35 deg. 9' 0'' N. Longitude 83 deg. 27' 0'' W. Roadsides in Macon County. Pedigree - Selected from the wild.

The following were collected by K.L. Chambers. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/05/1989.

**PI 619269. *Pycnanthemum californicum* Torr. ex Durand**

Breeding. P-80. Collected in California, United States. Latitude 40 deg. 59' 44'' N. Longitude 122 deg. 25' 5'' W. North of LaMoine, CA at Pollard Flat. Developed in United States. Pedigree - Selected from the wild.

The following were collected by R.B. Channell. Developed by Yale University, New Haven, Connecticut, United States. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619270. *Pycnanthemum muticum* (Michx.) Pers.**

Breeding. P-91a. Collected 04/09/1967 in Tennessee, United States. Latitude 36 deg. 30' 31'' N. Longitude 85 deg. 16' 59'' W. Ozone, Cumberland County, Tennessee. Pedigree - Selected from the wild.

The following were collected by R. Keith Carr. Developed by Yale University, New Haven, Connecticut, United States. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619271. *Pycnanthemum torrei* Benth.**

Breeding. P-99-1. Collected 08/20/1969 in Tennessee, United States. Latitude 36 deg. 9' 47'' N. Longitude 85 deg. 30' 7'' W. Cookeville, low roadside. Pedigree - Selected from the wild.

The following were collected by Carr; Hunter; Wooden. Developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619272. *Pycnanthemum curvipes* (Greene) E. Grant & Epling**

Breeding. P-102-8. Collected in Georgia, United States. Pedigree - OP seed from seedling selection from wild Georgian seedlot. Original clone collected by Hunter, Wooden and Carr, selected by H.L. Chambers at Stone Mtn, DeKalb Co.

The following were collected by M.J. Murray, Unknown. Developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619273. *Pycnanthemum muticum* (Michx.) Pers.**

Breeding. P-113-1. Collected 10/17/1976 in North Carolina, United States. Roadside ditch, Blue Ridge Parkway. Pedigree - Seedling selection from seedlot collected from the wild.

**PI 619274. *Pycnanthemum muticum* (Michx.) Pers.**

Breeding. P-113-2. Collected 10/17/1976 in North Carolina, United States. Roadside ditch, Blue Ridge Parkway. Pedigree - Seedling selection from seedlot collected from the wild.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619275. *Pycnanthemum pycnanthemoides* (Leavenw.) Fernald**

Breeding. P-115-1. Collected in United States. Pedigree - Selected from the wild.

The following were collected by M.J. Murray, Unknown. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619276. *Pycnanthemum beadlei*** (Small) Fernald

Breeding. P-116-4. Developed in United States. Collected 10/17/1976 in North Carolina, United States. Latitude 36 deg. 26' 0'' N. Longitude 81 deg. 30' 0'' W. Ashe County, North Carolina. Pedigree - Seedling selection from seedlot originally collected wild.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619277. *Pycnanthemum beadlei*** (Small) Fernald

Breeding. P-116-5. Collected 10/17/1976 in North Carolina, United States. Latitude 36 deg. 26' 0'' N. Longitude 81 deg. 30' 0'' W. Ashe County, North Carolina. Pedigree - Seedling selection from seedlot originally collected wild.

**PI 619278. *Pycnanthemum setosum*** Nutt.

Breeding. 1598. Collected 09/13/1958 in New Jersey, United States. Latitude 39 deg. 41' 0'' N. Longitude 74 deg. 15' 0'' W. Manahawkin, in weedy field adjacent to Pine-Oak woods. Pedigree - Selected from the wild.

**PI 619279. *Pycnanthemum beadlei*** (Small) Fernald

Breeding. 1657-2. Collected 06/22/1968 in South Carolina, United States. Ceasar's Head, off private road just south of rock outcrop. Pedigree - Selected from the wild.

**PI 619280. *Pycnanthemum loomisii*** Nutt.

Breeding. 1662-3. Collected in Tennessee, United States. Pedigree - Selected from the wild.

**PI 619281. *Pycnanthemum floridanum*** E. Grant & Epling

Breeding. 1676. Collected 07/03/1978 in Florida, United States. Latitude 29 deg. 39' 6'' N. Longitude 82 deg. 19' 20'' W. Gainseville. Pedigree - Selected from the wild.

The following were collected by M.J. Murray, Unknown. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619282. *Pycnanthemum muticum*** (Michx.) Pers.

Breeding. P-117-3. Developed in United States. Collected 03/12/1976 in Florida, United States. Latitude 29 deg. 42' 0'' N. Longitude 82 deg. 20' 0'' W. Alachua County, Florida. Pedigree - Seedling selection from seedlot originally collected wild.

**PI 619283. *Pycnanthemum muticum*** (Michx.) Pers.

Breeding. P-117-4. Developed in United States. Collected 03/12/1976 in Florida, United States. Latitude 29 deg. 39' 6'' N. Longitude 82 deg.

19' 20'' W. Gainesville, Alachua County, Florida. Pedigree - Seedling selection from seedlot originally collected wild.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/03/1988.

**PI 619284. *Pycnanthemum tenuifolium* Schrad.**

Breeding. P 79. Collected 08/03/1963 in Connecticut, United States. Roadside, Baldwin Parkway. Pedigree - Selected from the wild.

**PI 619285. *Pycnanthemum muticum* (Michx.) Pers.**

Breeding. 1560. Collected 07/29/1958 in Connecticut, United States. Roadsides, Baldwin Parkway, Connecticut. Pedigree - Selected from the wild.

**PI 619286. *Pycnanthemum muticum* (Michx.) Pers.**

Breeding. 1607. Collected 10/08/1958 in Connecticut, United States. Roadsides, Baldwin Parkway, Connecticut. Pedigree - Selected from the wild.

**PI 619287. *Pycnanthemum tenuifolium* Schrad.**

Breeding. 1586. Collected 08/22/1958 in Connecticut, United States. Old Lime, CT in weedy field at highway junction. Pedigree - Selected from the wild.

**PI 619288. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Breeding. 1600. Collected 09/21/1958 in Connecticut, United States. Latitude 41 deg. 21' 9'' N. Longitude 73 deg. 0' 28'' W. Woodbridge, CT in marshy field at highway junction. Pedigree - Selected from the wild.

**PI 619289. *Pycnanthemum tenuifolium* Schrad.**

Breeding. 1663. Collected 08/18/1968 in Tennessee, United States. Latitude 36 deg. 3' 43'' N. Longitude 88 deg. 5' 30'' W. Camden, TN, in upland woods along I40. Pedigree - Selected from the wild.

The following were collected by K.L. Chambers. Developed by Yale University, New Haven, Connecticut, United States. Donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/03/1988.

**PI 619290. *Pycnanthemum hybrid***

Breeding. Hybrid 2423A; 2423A. Collected 08/19/1965 in Illinois, United States. Latitude 39 deg. 52' 0'' N. Longitude 88 deg. 51' 14'' W. Along fence lines in Sangamon River valley, Illinois. Lat/lon accurate to Sangamon, IL near Sangamon River. Pedigree - Natural *P. pilosum* x *P. virginianum* hybrid.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/03/1988.

**PI 619291. *Pycnanthemum beadlei* (Small) Fernald**

Breeding. 1657. Collected 06/21/1968 in South Carolina, United States. Ceasar's Head, roadside and trail borders near rock outcrop. Pedigree - Selected from the wild.

**PI 619292. *Pycnanthemum hybrid***

Breeding. Hybrid 86-10. Collected 07/13/1976. Pedigree - 2x *P. muticum* x *P. montanum* (Parents 1666-1 x 1649-1).

**PI 619293. *Pycnanthemum hybrid***

Breeding. Hybrid 91-1. Collected 07/13/1976. Pedigree - *P. montanum* x 2x *P. muticum* (Parents 1649-1 x P-85).

The following were collected by Jon J. Hamer, Ohio State University, Dept. Botany, Athens, Ohio 45701, United States. Received 01/11/1990.

**PI 619294. *Pycnanthemum verticillatum* (Michx.) Pers.**

Wild. Collected 09/05/1986 in Ohio, United States. Latitude 39 deg. 15' N. Longitude 82 deg. 10' W. Athens Co., OH along roadside of Co.Rd. 79. Pedigree - Collected from the wild in Ohio.

**PI 619295. *Pycnanthemum flexuosum* (Walter) Britton et al.**

Wild. Collected 08/18/1988 in Georgia, United States. Latitude 31 deg. 30' N. Longitude 82 deg. 50' W. Coffee Co. in meadow adjacent to the Satilla River. Pedigree - Collected from the wild in Georgia.

**PI 619296. *Pycnanthemum loomisii* Nutt.**

Wild. Collected 12/28/1987 in Tennessee, United States. Latitude 35 deg. 5' N. Longitude 87 deg. W. Giles Co. on embankment along edge of wooded area. Pedigree - Collected from the wild in Tennessee.

**PI 619297. *Pycnanthemum curvipes* (Greene) E. Grant & Epling**

Wild. Collected 09/03/1989 in Tennessee, United States. Latitude 36 deg. 10' N. Longitude 87 deg. 5' W. Cheatham Co. near 'Narrows of the Harpeth Historic Site'. Pedigree - Collected from the wild in Tennessee.

**PI 619298. *Pycnanthemum curvipes* (Greene) E. Grant & Epling**

Wild. Collected 08/29/1989 in Tennessee, United States. Latitude 35 deg. 10' N. Longitude 84 deg. 30' W. Polk Co. along embankment at Lake Ocoee. Pedigree - Collected from the wild in Tennessee.

**PI 619299. *Pycnanthemum montanum* Michx.**

Wild. Collected 08/29/1989 in North Carolina, United States. Latitude 36 deg. 5' N. Longitude 81 deg. 55' W. Avery Co. along Blue Ridge Pkwy at Chestoa View. Pedigree - Collected from the wild in North Carolina.

**PI 619300. *Pycnanthemum muticum* (Michx.) Pers.**

Wild. Collected 08/29/1989 in North Carolina, United States. Latitude 36 deg. 25' N. Longitude 81 deg. 10' W. Alleghany Co. along Blue Ridge Pkwy at edge of a woods. Pedigree - Collected from the wild in North Carolina.

**PI 619301. *Pycnanthemum pycnanthemoides* (Leavenw.) Fernald**

Wild. Collected 08/29/1989 in North Carolina, United States. Latitude 36 deg. 25' N. Longitude 81 deg. 10' W. Alleghany Co. along Blue Ridge Pkwy at edge of a woods. Pedigree - Collected from the wild in North Carolina.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/16/1990.

**PI 619302. *Pycnanthemum californicum* Torr. ex Durand**  
Breeding. Collected 05/14/1990. Pedigree - Open pollinated seed of CPYC 2.

**PI 619303. *Pycnanthemum hybrid***  
Breeding. Hybrid 64-3; 64-3. Pedigree - P-91a x P-80 (2x muticum x californicum).

**PI 619304. *Pycnanthemum hybrid***  
Breeding. Hybrid 64-5; 64-5. Pedigree - P-91a x P-80 (2x muticum x californicum).

The following were collected by W.J. Crins, 3370 S. Service Rd., Burlington, Ontario L7N 3M6, Canada. Received 11/26/1990.

**PI 619305. *Pycnanthemum incanum* Michx.**  
Wild. Collected 1990 in Ontario, Canada. Latitude 43 deg. 18' N. Longitude 79 deg. 45' W. Burlington Bay Bluffs, in woods of Quercus, Sumac, Pinus. Pedigree - Collected from the wild in Ontario. Endangered in Canada. From the only extant population.

The following were collected by L. Scott Ranger, 1963 Ferry Dr. NE, Marietta, Georgia 30066, United States. Received 02/24/1992.

**PI 619306. *Pycnanthemum curvipes* (Greene) E. Grant & Epling**  
Wild. Collected 02/05/1992 in Georgia, United States. Latitude 33 deg. 59' 1'' N. Longitude 84 deg. 34' 31'' W. Cobb Co., Kennesaw Mtn. Nat'l Battlefield Park. Pedigree - Collected from the wild in Georgia.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/26/1988.

**PI 619307. *Pycnanthemum beadleii* (Small) Fernald**  
Breeding. Pedigree - Increased seed of CPYC 1. (This accession was part of the PL,SD 'breakout' - 1992).

**PI 619308. *Pycnanthemum muticum* (Michx.) Pers.**  
Breeding. Pedigree - Increased seed of CPYC 6. (This accession was part of the PL,SD 'breakout' - 1992).

**PI 619309. *Pycnanthemum torrei* Benth.**  
Breeding. Pedigree - Increased seed of CPYC 8. (This accession was part of the PL,SD 'breakout' - 1992).

**PI 619310. *Pycnanthemum muticum* (Michx.) Pers.**  
Breeding. Pedigree - Increased seed of CPYC 13. (This accession was part of the PL,SD 'breakout' - 1992).

- PI 619311. *Pycnanthemum muticum*** (Michx.) Pers.  
Breeding. Pedigree - Increased seed of CPYC 14. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619312. *Pycnanthemum pycnanthemoides*** (Leavenw.) Fernald  
Breeding. Pedigree - Increased seed of CPYC 15. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619313. *Pycnanthemum beadleii*** (Small) Fernald  
Breeding. Pedigree - Increased seed of CPYC 22. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619314. *Pycnanthemum beadleii*** (Small) Fernald  
Breeding. Pedigree - Increased seed of CPYC 23. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619315. *Pycnanthemum setosum*** Nutt.  
Breeding. Pedigree - Increased seed of CPYC 24. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619316. *Pycnanthemum beadleii*** (Small) Fernald  
Breeding. Pedigree - Increased seed of CPYC 26. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619317. *Pycnanthemum floridanum*** E. Grant & Epling  
Breeding. Pedigree - Increased seed of CPYC 30. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619318. *Pycnanthemum muticum*** (Michx.) Pers.  
Breeding. Pedigree - Increased seed of CPYC 31. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619319. *Pycnanthemum muticum*** (Michx.) Pers.  
Breeding. Pedigree - Increased seed of CPYC 32. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619320. *Pycnanthemum muticum*** (Michx.) Pers.  
Breeding. Pedigree - Increased seed of CPYC 35. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619321. *Pycnanthemum muticum*** (Michx.) Pers.  
Breeding. Pedigree - Increased seed of CPYC 36. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619322. *Pycnanthemum tenuifolium*** Schrad.  
Breeding. Pedigree - Increased seed of CPYC 37. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619323. *Pycnanthemum virginianum*** (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald  
Breeding. Pedigree - Increased seed of CPYC 38. (This accession was part of the PL,SD 'breakout' - 1992).
- PI 619324. *Pycnanthemum tenuifolium*** Schrad.  
Breeding. Pedigree - Increased seed of CPYC 39. (This accession was part of the PL,SD 'breakout' - 1992).

**PI 619325. *Pycnanthemum beadlei* (Small) Fernald**

Breeding. Pedigree - Increased seed of CPYC 41. (This accession was part of the PL,SD 'breakout' - 1992).

The following were donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 03/23/1992.

**PI 619326. *Pycnanthemum tenuifolium* Schrad.**

Uncertain. Sample No. 77; Ames 4373. Collected 1991 in Ontario, Canada. Latitude 43 deg. 6' 0'' N. Longitude 79 deg. 3' 0'' W. Niagara Falls, Ontario, Canada. Pedigree - Unknown. For bee pasture test. From 1985 Seed Exchange of the Niagara Parks Commission School of Horticulture.

**PI 619327. *Pycnanthemum tenuifolium* Schrad.**

Wild. Sample No. 1; Ames 4557. Collected 1991 in Missouri, United States. Latitude 39 deg. 39' 44'' N. Longitude 94 deg. 14' 11'' W. Elevation 294 m. Growing on edge of prairie at Wallace State Park Clinton Co., Cameron East Quad, T56N R30W, SE1/4 of NW1/4 of Sec 24. Growing with Aster, Rhus glabra, and Solidago canadensis. Pedigree - Collected from the wild in Missouri. For bee pasture testing.

**PI 619328. *Pycnanthemum tenuifolium* Schrad.**

Wild. Sample No. 6; Ames 4562. Collected 1991 in Kansas, United States. Latitude 38 deg. 52' 0'' N. Longitude 94 deg. 52' 0'' W. Elevation 305 m. Growing in virgin prairie at The Prairie Center, Johnson Co. De Soto Quad, T13S R23E, NE1/4 of NE1/4 of Sec. 31. Growing with big bluestem, Sorghastrum and Solidago. Pedigree - Collected from the wild in Kansas. For bee pasture testing.

**PI 619329. *Pycnanthemum tenuifolium* Schrad.**

Wild. Sample No. 10; Ames 4566. Collected 1991 in Kansas, United States. Latitude 37 deg. 53' 0'' N. Longitude 95 deg. 17' 0'' W. Elevation 330 m. Growing in roadside ditch. Allen Co., Bronson Quad E edge of NE1/4 of NE1/4 of Sec 32, T24S R21E. Growing with Salvia azurea, Baptisia leuchantha, Morus alba, and Helianthus. Pedigree - Collected from the wild in Kansas. For bee pasture testing.

**PI 619330. *Pycnanthemum tenuifolium* Schrad.**

Wild. Ames 4577. Collected 1991 in Minnesota, United States. Latitude 44 deg. 51' 32'' N. Longitude 93 deg. 36' 4'' W. Growing in prairie. Minnesota Landscape Arboretum Chanhassen. Pedigree - Collected from the wild in Minnesota. For bee pasture testing.

**PI 619331. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Wild. Ames 4579. Collected 1991 in Michigan, United States. Latitude 42 deg. 18' 3'' N. Longitude 83 deg. 40' 5'' W. Growing on shore of Willow Pond. Matthaei Botanical Gardens Ann Arbor, Washtenaw Co. Pedigree - Collected from the wild in Michigan. For bee pasture testing.

The following were collected by Dorothy Barringer, Wildflowers from Nature's Way, RR 1, Woodburn, Iowa 50276, United States. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction

Station, Ames, Iowa 50011-1170, United States. Received 03/23/1992.

**PI 619332. *Pycnanthemum tenuifolium* Schrad.**

Wild. Ames 4717. Collected 1991 in Iowa, United States. Pedigree -  
Collected from the wild in Iowa. For bee pasture testing.

The following were collected by Paul Sorensen, Northern Illinois University, Dept. of Biological Sciences, Dekalb, Illinois 60115-2861, United States. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 03/23/1992.

**PI 619333. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Wild. Ames 4991. Collected 1991 in Illinois, United States. Pedigree -  
Collected from the wild in Illinois. For bee pasture testing. From type plant of forma *citriodora*, see *Rhodora* 83:145-146 1981.

The following were donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 03/23/1992.

**PI 619334. *Pycnanthemum pilosum* Nutt.**

Cultivated. No. 339; Ames 5021. Collected 1991 in Michigan, United States. Latitude 42 deg. 43' 52'' N. Longitude 84 deg. 28' 42'' W. Beal Garden, Michigan State University, East Lansing. Pedigree - Uncertain. For bee pasture testing.

The following were collected by William W. Roath, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States; Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Donated by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 03/23/1992.

**PI 619335. *Pycnanthemum pilosum* Nutt.**

Uncertain. R-W 37; Ames 7909. Collected 1991 in Illinois, United States. Latitude 38 deg. 17' N. Longitude 87 deg. 59' W. Elevation 125 m. Growing in brushy vine patch along railroad right-of-way 2.3 miles NNE of center of Grayville, Grayville Quad, Edwards Co. T3S R14W NE1/4 of NE1/4 of Sec 9. Area dominated by *Lonicera japonica*, *Campsis radicans* & *Rubus flagellaris*. Pedigree - Unknown.

The following were developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 07/29/1992.

**PI 619336. *Pycnanthemum curvipes* (Greene) E. Grant & Epling**

Breeding. Collected 10/30/1991. Pedigree - Increased seed from CPYC 51.

**PI 619337. *Pycnanthemum floridanum* E. Grant & Epling**

Breeding. Collected 10/30/1991. Pedigree - Increased seed from CPYC 30.

**PI 619338. *Pycnanthemum muticum*** (Michx.) Pers.

Breeding. Collected 10/02/1989. Pedigree - Increased seed from CPYC 35.

**PI 619339. *Pycnanthemum hybrid***

Breeding. Hybrid 5-3. Collected 1969. Pedigree - 4x muticum x beadlei.

Grown in Corvallis garden.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Developed by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 09/23/1992.

**PI 619340. *Pycnanthemum incanum*** Michx.

Cultivated. Collected 09/18/1992. Latitude 44 deg. 33' 53'' N. Longitude 123 deg. 15' 37'' W. H. L. Chambers' garden - Corvallis, Oregon.

Pedigree - Original material collected from the wild - CPYC 61. Open pollinated, but probably not crossed due to distance from other *Pycnanthemum* spp.

The following were donated by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 04/11/1994.

**PI 619341. *Pycnanthemum pycnanthemoides*** (Leavenw.) Fernald

Cultivated. Collected 1993 in Virginia, United States. Latitude 37 deg. 17' N. Longitude 76 deg. 44' W. Elevation 0 m. Original seek collected in Russell County, Virginia. Off Hwy 65 near US 58, about 4 miles on Brick Church Rd; near cemetery. Calcareous roadside. Garden in Williamsburg, Virginia. Other/collector number: Rexford H. Talbert #5.

The following were collected by Henrietta Chambers, National Clonal Germplasm Repository, 33447 Peoria Road, Corvallis, Oregon 97333-2521, United States. Received 05/31/1995.

**PI 619342. *Pycnanthemum beadlei*** (Small) Fernald

Wild. Collected 05/18/1995 in North Carolina, United States.

**PI 619343. *Pycnanthemum loomisii*** Nutt.

Cultivated. Collected 05/18/1995 in Tennessee, United States.

**PI 619344. *Pycnanthemum tenuifolium*** Schrad.

Wild. Collected 10/09/1995 in Connecticut, United States.

**PI 619345. *Pycnanthemum incanum*** Michx.

Wild. Collected 10/09/1995 in Connecticut, United States.

The following were donated by Boleslaw Jablonski, Instytut Sadownictwa i Kwiaciarnictwa, ul. Kazimierska nr 2, Pulawy, Lublin 24-100, Poland. Received 03/21/1989.

**PI 619346. *Pycnanthemum californicum*** Torr. ex Durand

Ames 10214. Pedigree - Collected from the wild in Poland.

The following were collected by Mark P. Widrlechner, USDA, ARS, Iowa State University, Regional Plant Introduction Station, Ames, Iowa 50011-1170, United States. Received 01/08/1991.

**PI 619347. *Pycnanthemum pilosum* Nutt.**

Wild. Ames 14437. Collected 10/14/1991 in Missouri, United States. Latitude 37 deg. 32' N. Longitude 90 deg. 11' W. Elevation 820 m. Spiva Azalea Park, Madison County, Missouri T33N R8E N1/2 SE1/4 Sec.20. Pedigree - collected from the wild.

The following were donated by Boleslaw Jablonski, Instytut Sadownictwa i Kwiaciarnstwa, ul. Kazimierska nr 2, Pulawy, Lublin 24-100, Poland. Received 01/12/1992.

**PI 619348. *Pycnanthemum californicum* Torr. ex Durand**

Ames 20122. Pedigree - collected from the wild.

Unknown source. Received 09/11/1985.

**PI 619349. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Ames 4554. Collected in North Dakota, United States. Pedigree - collected from the wild.

Unknown source. Received 09/25/1985.

**PI 619350. *Pycnanthemum tenuifolium* Schrad.**

Ames 4578. Collected in Missouri, United States. Pedigree - collected from the wild.

Unknown source. Received 09/28/1987.

**PI 619351. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Ames 7894. Collected in Missouri, United States. Pedigree - collected from the wild.

Unknown source. Received 10/20/1987.

**PI 619352. *Pycnanthemum virginianum* (L.) T. Durand & B. D. Jacks. ex B. L. Rob. & Fernald**

Ames 7989. Collected in Iowa, United States. Pedigree - collected from the wild.

The following were developed by Lynn W. Gallagher, University of California, Dept of Agronomy & Range Science, One Shields Ave., Davis, California 95616, United States. Received 08/24/2001.

**PI 619353. *Hordeum vulgare* L. subsp. *vulgare***

Cultivar. Pureline. "UC 969"; NSGC 8752. Pedigree - Sma 1/Sunbar 401//UC 337. Six-row spring feed barley. Early maturity and intermediate in height. UC 969 is moderately resistant to BYDV, leaf rust, scald, and net blotch. It is moderately susceptible to existing races of stripe rust, but crop loss is avoided because of its early maturity. UC 969 is intended for marginal areas, primarily those environments having low soil moisture.

The following were developed by Robert A. Graybosch, USDA-ARS, University of Nebraska, Dept. of Agronomy, 344 Keim Hall, Lincoln, Nebraska 68583, United States. Received 08/24/2001.

**PI 619354. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID388; NSGC 8753. Pedigree - Bai Huo/AC Majestic//Kanto 107/MN2540. Spring habit waxy wheat (amylose-free).

**PI 619355. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID389; NSGC 8754. Pedigree - KY87C-42-8-5/Collin//AC Majestic/3/Kanto 107/Bai Huo. Spring habit waxy wheat (amylose-free).

**PI 619356. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID435; NSGC 8755. Pedigree - Bai Huo/L910097//Kanto 107/3/Kanto 107/Yanshi 9. Spring habit waxy wheat (amylose-free).

**PI 619357. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID450; NSGC 8756. Pedigree - Kanto 107/MN2540/3/Bai Huo 5/K94H115//IDO469. Spring habit waxy wheat (amylose-free).

**PI 619358. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID454; NSGC 8757. Pedigree - Bai Huo 3/Cimarron//MN91227/3/Kanto 107. Spring habit waxy wheat (amylose-free).

**PI 619359. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID477; NSGC 8758. Pedigree - Bai Huo/Chris//Kanto 107. Spring habit waxy wheat (amylose-free).

**PI 619360. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID484; NSGC 8759. Pedigree - Bai Huo/L910097//Kanto 107/3/Bai Huo 3/Cimarron//MN91227. Spring habit waxy wheat (amylose-free).

**PI 619361. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID490; NSGC 8760. Pedigree - Bai Huo/Kanto 107, F3//Express. Spring habit waxy wheat (amylose-free).

**PI 619362. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID496; NSGC 8761. Pedigree - Bai Huo/Gunnar//Kanto 107/Penawawa. Spring habit waxy wheat (amylose-free).

**PI 619363. *Triticum aestivum* L. subsp. *aestivum***

Breeding. Pureline. 99ID498; NSGC 8762. Pedigree - Bai Huo/Kanto 107, F3//Express. Spring habit waxy wheat (amylose-free).

- PI 619364. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID510; NSGC 8763. Pedigree - Bai Huo/Kanto 107, F3//Express. Spring habit waxy wheat (amylose-free).
- PI 619365. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID516; NSGC 8764. Pedigree - Bai Huo 3/Cimarron//MN91227/3/Kanto 107. Spring habit waxy wheat (amylose-free).
- PI 619366. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID520; NSGC 8765. Pedigree - KY87C-42-8-5/Collin//AC Majestic/3/Kanto 107/Bai Huo. Spring habit waxy wheat (amylose-free).
- PI 619367. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID524; NSGC 8766. Pedigree - KY87C-42-8-5/Collin//AC Majestic/3/Kanto 107/Bai Huo. Spring habit waxy wheat (amylose-free).
- PI 619368. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID529; NSGC 8767. Pedigree - KY87C-42-8-5/Collin//AC Majestic/3/Kanto 107/Bai Huo. Spring habit waxy wheat (amylose-free).
- PI 619369. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID536; NSGC 8768. Pedigree - KY87C-42-8-5/Collin//AC Majestic/3/Kanto 107/Bai Huo. Spring habit waxy wheat (amylose-free).
- PI 619370. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID546; NSGC 8769. Pedigree - Penawawa/NE92608//Bai Huo/3/Bai Huo 4/Kanto 107//A92-3327/Kanto 107. Spring habit waxy wheat (amylose-free).
- PI 619371. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID548; NSGC 8770. Pedigree - Penawawa/NE92608//Bai Huo/3/Bai Huo 4/Kanto 107//A92-3327/Kanto 107. Spring habit waxy wheat (amylose-free).
- PI 619372. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID554; NSGC 8771. Pedigree - Penawawa/NE92608//Bai Huo/3/Bai Huo 4/Kanto 107//A92-3327/Kanto 107. Spring habit waxy wheat (amylose-free).
- PI 619373. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID569; NSGC 8772. Pedigree - Bai Huo/Kanto 107, F3//AC Majestic. Spring habit waxy wheat (amylose-free).
- PI 619374. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID590; NSGC 8773. Pedigree - Bai Huo/Kanto 107, F3//Express. Spring habit waxy wheat (amylose-free).
- PI 619375. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. 99ID594; NSGC 8774. Pedigree - Kanto 107/MN2540/3/Bai Huo 5/K94H115//IDO469. Spring habit waxy wheat (amylose-free).

- PI 619376. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008068; NSGC 8775. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).
- PI 619377. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008069; NSGC 8776. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).
- PI 619378. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008070; NSGC 8777. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).
- PI 619379. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008075; NSGC 8778. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).
- PI 619380. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008093; NSGC 8779. Pedigree - Bai Huo Mai/Ike.  
Winter habit waxy wheat (amylose-free).
- PI 619381. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008094; NSGC 8780. Pedigree - Bai Huo Mai/Ike.  
Winter habit waxy wheat (amylose-free).
- PI 619382. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008106; NSGC 8781. Pedigree - Bai Huo Mai/Ike.  
Winter habit waxy wheat (amylose-free).
- PI 619383. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008109; NSGC 8782. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).
- PI 619384. *Triticum aestivum* L. subsp. *aestivum***  
Breeding. Pureline. NWX008118; NSGC 8783. Pedigree - Bai Huo/Kanto  
107//Ike. Winter habit waxy wheat (amylose-free).

The following were developed by Marcial A. Pastor-Corrales, International Center for Tropical Agriculture, Apartado Aereo 6713, Cali, Valle, Colombia. Donated by Jim D. Kelly, Michigan State University, Department of Crop & Soil Science, 370 Plant & Soil Sci. Bldg. MSU, East Lansing, Michigan 48824-1325, United States. Received 1999.

- PI 619385. *Phaseolus vulgaris* L.**  
Cultivated. AB 136 (differential); W6 21630. Anthracnose differentials.
- PI 619386. *Phaseolus vulgaris* L.**  
Cultivated. Cornell 49242 (differential); W6 21631. Anthracnose differentials.
- PI 619387. *Phaseolus vulgaris* L.**  
Cultivated. G 2333 (differential); W6 21632. Anthracnose differentials.
- PI 619388. *Phaseolus vulgaris* L.**  
Cultivated. Kaboon (differential); W6 21633. Anthracnose differentials.
- PI 619389. *Phaseolus vulgaris* L.**

Cultivated. MDRK (differential); W6 21634. Anthracnose differentials.

**PI 619390. Phaseolus vulgaris L.**

Cultivated. MEX 222 (differential); W6 21635. Anthracnose differentials.

**PI 619391. Phaseolus vulgaris L.**

Cultivated. Michilite (differential); W6 21636. Anthracnose differentials.

**PI 619392. Phaseolus vulgaris L.**

Cultivated. PI 207262 (differential); W6 21637. Anthracnose differentials.

**PI 619393. Phaseolus vulgaris L.**

Cultivated. PM Perry Marrow (differential); W6 21638. Anthracnose differentials.

**PI 619394. Phaseolus vulgaris L.**

Cultivated. TO (differential); W6 21639. Anthracnose differentials.

**PI 619395. Phaseolus vulgaris L.**

Cultivated. TU (differential); W6 21640. Anthracnose differentials.

**PI 619396. Phaseolus vulgaris L.**

Cultivated. Widusa (differential); W6 21641. Anthracnose differentials.

The following were developed by Buck Semillas S.A., Buenos Aires, Argentina. Received 09/07/2001.

**PI 619397 PVPO. Triticum aestivum L.**

Cultivar. "BUCK PRONTO". PVP 200100067.

The following were developed by Stoneville Pedigreed Seed Company, Stoneville, Mississippi, United States. Received 09/07/2001.

**PI 619398 PVPO. Gossypium hirsutum L.**

Cultivar. "ST 2454R". PVP 200100223.

The following were developed by S&W Seed Company, United States. Received 09/07/2001.

**PI 619399 PVPO. Medicago sativa L.**

Cultivar. "SW9720". PVP 200100224.

The following were developed by Pure Line Seeds, Inc., P.O. Box 8866, Moscow, Idaho 83843, United States. Received 09/07/2001.

**PI 619400 PVPO. Phaseolus vulgaris L.**

Cultivar. "KEEPER". PVP 200100225.

The following were developed by Enza Zaden De Enkhuizer Zaadhandel B.V., Enkhuizen, North Holland, Netherlands. Received 09/07/2001.

**PI 619401 PVPO. *Lactuca sativa* L.**  
Cultivar. "COASTAL STAR". PVP 200100226.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 09/07/2001.

**PI 619402 PVPO. *Sorghum bicolor* (L.) Moench**  
Cultivar. "PHBR76JJIE". PVP 200100228.

**PI 619403 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH6WR". PVP 200100229.

**PI 619404 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH4V6". PVP 200100230.

**PI 619405 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH7CH". PVP 200100231.

**PI 619406 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH5TG". PVP 200100232.

**PI 619407 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH4GP". PVP 200100233.

The following were developed by Oklahoma Agricultural Experiment Station, Stillwater, Oklahoma, United States. Received 09/07/2001.

**PI 619408 PVPO. *Cynodon dactylon* (L.) Pers. var. *dactylon***  
Cultivar. "YUKON". PVP 200100234.

The following were developed by Pickseed West, Inc., P.O. Box 888, 33149 Highway 99E, Tangent, Oregon 97389, United States. Received 09/07/2001.

**PI 619409 PVPO. *Festuca arundinacea* Schreb.**  
Cultivar. "MUSTANG 3". PVP 200100235.

The following were developed by Asgrow Seed Company, Kalamazoo, Michigan, United States. Received 09/07/2001.

**PI 619410 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "6077". PVP 200100240.

The following were developed by Ag Biotech of Oregon, Inc., Oregon, United States. Received 09/07/2001.

**PI 619411 PVPO. *Lolium perenne* L.**  
Cultivar. "DANDY II". PVP 200100241.

**PI 619412 PVPO. *Lolium perenne* L.**  
Cultivar. "STELLAR". PVP 200100242.

The following were developed by Ted P. Wallace, Mississippi State University, Mississippi Agric. & Forestry Exp. Stn., P.O. Box 9555, Mississippi State, Mississippi 39762, United States; B.W. White, Mississippi State University, Mississippi Agric. & Forestry Exp. Sta. Variety Evaluations, P.O. Box 9811, Mississippi State, Mississippi 39762, United States; J.E. Hollowell, Pioneer Hi-Bred International, Inc., Crop Genetics Research & Development, West Memphis, Arkansas 72303, United States. Received 09/07/2001.

**PI 619413. *Gossypium hirsutum* L.**

Cultivar. "MISCOT 8806". CV-118; PVP 200100243. Pedigree - DES 119/Tamcot CDP37HPIH-1-1-86. Combines high lint yield with desirable fiber characteristics. Primary advantage is combination of high lint yield with reduced fiber micronaire values.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 09/07/2001.

**PI 619414 PVPO. *Zea mays* L. subsp. *mays***

Cultivar. "PH5W4". PVP 200100244.

**PI 619415 PVPO. *Zea mays* L. subsp. *mays***

Cultivar. "PH6WG". PVP 200100245.

**PI 619416 PVPO. *Zea mays* L. subsp. *mays***

Cultivar. "PH726". PVP 200100246.

The following were developed by Pioneer Hi-Bred International, Department of Corn Breeding, Union City, Tennessee, United States. Received 09/07/2001.

**PI 619417 PVPO. *Zea mays* L. subsp. *mays***

Cultivar. "PH7CP". PVP 200100247.

The following were collected by Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Alicia Massa, USDA, ARS, FRRL, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Raul Lira, INIA Kampenaike, Angamos 1056, Casilla 277, Punta Arenas, Magallanes, Chile; Mercedes Masco, INTA, E.E.A. Santa Cruz, CC 332, Rio Gallegos, Santa Cruz 9400, Argentina; Gabriel Oliva, INTA, E.E.A. Santa Cruz, CC 332, Rio Gallegos, Santa Cruz 9400, Argentina; Ivette Sequel, CRI Carillanca, General Lopez, IX Region, Temuco, La Araucania, Chile. Received 10/23/2001.

**PI 619418. *Anthoxanthum odoratum* L.**

Wild. PRO 96-93. Collected 02/29/1996 in Chile. Latitude 54 deg. 48' 30'' S. Longitude 67 deg. 32' 20'' W. Tierra del Fuego, Cantera beginning of Rio Lasifashaj, 15 km northwest from Bahia Brown. Mountain slopes 10% N-NW, clay soil, very stony with moderate drainage. Wildland seed, 100% seed maturity, plants common at site, 0.45 m tall. Wide leaves, similar to *Bromus*. Could be good forage.

The following were developed by Sunderman Breeding, Inc., United States.

Received 09/07/2001.

**PI 619419 PVPO. *Triticum aestivum* L.**  
Cultivar. "DECLO". PVP 200100249.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 09/07/2001.

**PI 619420 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH581". PVP 200100250.

**PI 619421 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH3PV". PVP 200100251.

**PI 619422 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH77V". PVP 200100252.

**PI 619423 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH6KW". PVP 200100253.

**PI 619424 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH5WB". PVP 200100254.

**PI 619425 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH6ME". PVP 200100255.

The following were developed by Western Plant Breeders, Inc., Phoenix, Arizona, United States. Received 09/07/2001.

**PI 619426 PVPO. *Triticum aestivum* L.**  
Cultivar. "KEYSTONE". PVP 200100256.

The following were developed by Progeny Advanced Genetics, Inc., Salinas, California, United States. Received 09/07/2001.

**PI 619427 PVPO. *Lactuca sativa* L.**  
Cultivar. "PACER". PVP 200100259.

The following were developed by Resource Seeds, Inc., United States. Received 09/07/2001.

**PI 619428 PVPO. *Triticum aestivum* L.**  
Cultivar. "BONUS". PVP 9900402.

The following were developed by Javier Betran, Texas A&M University, Corn Breeding and Genetics, Department of Soil and Crop Sciences, College Station, Texas 77843-2474, United States. Received 08/20/2001.

**PI 619429. *Zea mays* L. subsp. *mays***  
Breeding. Inbred. Tx802. Pedigree - Pob65-2-1-2-1-1-B-#-B-B. Maize parental line with yellow grained vitreous grain texture and high lysine endosperm. Carries the opaque-2 mutation and has a hard flinty

endosperm. Adapted to Southern U.S. areas. Intermediate maturity ~ 1 to 2 days later than B73 in College Station, TX conditions. Flowers earlier than tropical and subtropical QPM inbreds. Ears thin with few kernel rows and white cobs (pp). Kernels yellow with a flint to semiflint endosperm texture. Plants small to medium size with low ear placement and nice aspect and green color. Stands very well with low incidence of root and stalk lodging. Tassels small with relatively few numbers of branches in comparison with other QPM germplasm. An intermediate pollen shedder. Lysine contents of 0.45 grams over 100 grams of sample that constitutes at 50% more lysine content than standard non-QPM inbreds. Susceptible to common smut and Fusarium stalk rots.

**PI 619430. *Zea mays* L. subsp. *mays***

Breeding. Inbred. Tx807. Pedigree - Pob63-17-1-1-1-1-1-1-#-#-B-B. Maize parental line with white grain, high lysine and hard endosperm. Carries the opaque-2 mutation and has a hard flinty endosperm. Adapted to Southern U.S. areas. Intermediate maturity~2days later than B73 in the College Station, TX conditions. Flowers earlier than tropical and subtropical QPM inbreds. Ears thin and short with few kernel rows. Cobs white (pp), and thin. Kernels flint with bright white color (yyy). Plants short with nice aspect and green color. Ear placement is low. An intermediate pollen shedder and has poor grain yield. Lysine contents of 0.48 grams over 100 grams of sample. Constitutes at 60% more lysine content than standard non-QPM inbreds. (0.30 g/1000 g sample). Inbred line per se appears to be resistant to *Aspergillus flavus* infection and aflatoxin. Hybrids have desirable agronomic traits showing shorter plants, lower ear placement, earlier maturity, lower moisture content at harvest, less root and stalk lodging, easier pericarp removal, greater test.

**PI 619431. *Zea mays* L. subsp. *mays***

Breeding. Inbred. Tx811. Pedigree - (Mo17/Pob67)-2-2-2-1-1-#-#-B-B. Maize parental line with white grain and high lysine. Carries the opaque-2 mutation and has a semiflint endosperm. Adapted to Southern U.S. areas. Intermediate/late maturity~3 days later than B73 in College Station, TX conditions. Flowers earlier than tropical and subtropical QPM inbreds. Ears thick with 10 kernel rows. Cobs white (pp), thick and fragile. Kernels semiflint with soft tips and bright white color (yyy). Plants medium size, with nice aspect and green color, which is maintained during the grain drying down. Ear placement low. Tassals open with relatively high number of branches. Good pollen shedder. Lysine contents of 0.46 grams over 100 grams of sample. Constitutes 53% more lysine content than standard non-QPM inbreds. Inbred line per se appears to be susceptible to *Aspergillus flavus* infection and aflatoxin production.

The following were developed by A. E. Hall, University of California, Department of Botany & Plant Sciences, Riverside, California 92521, United States; H.O.A. Elawad, Agricultural Research Corporation, El Obeid Research Station, P.O. Box 429 El Obeid, Sudan. Received 08/23/2001.

**PI 619432. *Vigna unguiculata* (L.) Walp.**

Cultivar. "Ein El Gazal"; UCR 1-12-3. CV-199. Pedigree - Selected from a population produced from a cross in 1977 between a California cultivar, CB5, as the female parent and a breeding line from Senegal, Bambey 23, as the male parent. Erect, indeterminate cowpea with synchronous

flowering. At El Obeid in the Sudan, begins flowering 41 to 48 days after sowing and plants reach physiological maturity 60 to 71 days after sowing. Cream seed with a blackeye and a rough seed coat. Average seed weight of 186 mg/seed when grown in northern Kordofan in the Sudan.

The following were developed by Edwin T. Bingham, University of Wisconsin, Dept. of Agronomy, 453 Moore Hall, Madison, Wisconsin 53706, United States. Received 08/07/2001.

**PI 619433. *Medicago sativa* L. subsp. *sativa***

Genetic. WI-Mutable 2; c2-m2. GS-1. Pedigree - Contains about 50% Vernal, 25% Saranac, and 25% unknown germplasm. Segregating for a mutable allele (c2-m2) at the C2 locus that behaves as a transposable element. About 70% of the plants are white flowered, 20% are mutable with streaks and sectors of purple pigment in otherwise white flower petals, and 5% are purple where reversion to purple took place in gametogenesis. Fertility and adaptation are similar to Vernal and Saranac.

**PI 619434. *Medicago sativa* L. subsp. *sativa***

Genetic. WI-Mutable 3; c2-m3. GS-2. Pedigree - Contains about 50% Vernal, 25% Saranac, and 25% unknown germplasm. Segregating for a mutable allele (c2-m3) at the C2 locus that behaves as a transposable element. About 70% of the plants are white flowered, 20% are mutable with streaks and sectors of purple pigment in otherwise white flower petals, and 5% are purple where reversion to purple took place in gametogenesis. Fertility and adaptation are similar to Vernal and Saranac.

The following were developed by James L. Brewbaker, University of Hawaii, Dept. of Horticulture, 3190 Maile Way, Honolulu, Hawaii 96822, United States. Received 08/09/2001.

**PI 619435. *Zea mays* L. subsp. *mays***

Cultivar. NE-EDR<sub>sul</sub>; Hawaii 01-401. Pedigree - This sugary population was bred in Hawaii thru 13 cycles of recurrent full-sib selection from crosses in 1975 of 12 tropical *sul* composites bred in Hawaii with 10 elite SX *sul* temperate hybrids. Broad based sugary-1 population bred in Hawaii and released after 13 cycles of full-sib selection from crosses of 10 elite temperate SX hybrids with 12 tropical U. Hawaii populations chosen largely for their high tolerance to diseases, insects and stresses. Major diseases for which resistance was selected in Hawaii include Maize Mosaic Virus, *Fusarium moniliforme*, *Physoderma maidis* and *Puccinia polysora* and *P. sorghi*.

**PI 619436. *Zea mays* L. subsp. *mays***

Cultivar. NE-EDR<sub>bt1</sub>; Hawaii 01-361. Pedigree - This brittle 1 population was bred in Hawaii from crosses of NE-EDR<sub>sul</sub> with Hi bt COMP 3 followed by 5 backcrosses and 8 sibs to homozygosity (bt1/bt1<sub>Sul</sub>/Sul). Five backcross conversion to brittle 1 of the population NE-EDR<sub>sul</sub>, released after 14 breeding cycles including inbreeding to achieve homozygosity (bt1/bt1<sub>Sul</sub>/Sul). Resembles the parental population in agronomic traits and broad spectrum of disease tolerance, but with reduced field germination (avg. 75%) of untreated seeds. In Hawaii the plants are tall (2.5 to 3m), rarely tillered, and reach mid-silk in ~55 days. Ears have

high husk cover, are ~18 cm long and rank from good to excellent in table qualities.

The following were developed by Juan C. Rosas, Escuela Agricola Panamericana, El Zamorano, P.O. Box 93, Tegucigalpa, Francisco Morazan, Honduras; R. Araya, Estacion Experimental Fabio Baudrit, Universidad de Costa Rica, A. Postal 183-4050, Alajuela, Costa Rica; J.C. Hernandez, Direccion de Investigaciones Agricolas, Ministerio de Agricultura y Ganaderia, San Jose, Costa Rica. Received 08/22/2001.

**PI 619437. Phaseolus vulgaris L.**

Cultivar. "BRIBRI"; MD 23-24. CV-201. Pedigree - F1 (RAB 310 x XAN 155) x F1 (DOR 391 x POMPADOUR G). Small red bean (race Mesoamerica), midseason, bean golden yellow mosaic virus resistant and heat tolerant variety. Indeterminate bush, short vine type II growth habit. Well adapted to low-intermediate (<1200m) altitude bean production regions of Costa Rica and Honduras, including to low fertility soils. Dry seeds shiny red, ovoid shaped and 20 grams per 100 seeds.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619438. Agropyron cristatum (L.) Gaertn.**

Wild. X97-150; W6 20298. Collected 08/1997 in Xinjiang, China. Latitude 44 deg. 37' 8'' N. Longitude 81 deg. 31' 51'' E. Elevation 1950 m. 10 km east of Salimu Lake, Xinjiang. Very xeric site in rain shadow of Tian Shan Mountains. In depression that would collect snow and runoff. Sandy soil with rocks 2-30 cm diameter. Slope is 5% with east to northeast aspect.

**PI 619439. Poa pratensis subsp. angustifolia (L.) Dumort.**

Wild. X97-108; W6 20271. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 20' 31'' N. Longitude 81 deg. 49' 1'' E. Elevation 1710 m. 20 km north of Tekes County, Xinjiang. Ungrazed hillside with failed evergreen tree planting on pass through mountains. Silt loam soil. Moderately dense vegetation with a high proportion of forbs. Slope is 20% with north to northwest aspect.

**PI 619440. Agropyron cristatum (L.) Gaertn.**

Wild. X97-074; W6 20248. Collected 08/1997 in Xinjiang, China. Latitude 42 deg. 52' 39'' N. Longitude 80 deg. 52' 48'' E. Elevation 1620 m. 30 km southwest of Zhaosu County, Xinjiang. Ungrazed dryland meadow. Very dry site in rain shadow of Tian Shan Mountains. Clay loam soil. Slope is 1% with southwest aspect.

**PI 619441. Agrostis gigantea Roth**

Wild. X97-045; W6 20229. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 9' 24'' N. Longitude 80 deg. 51' 8'' E. Elevation 1830 m. 20 km north of Farm No. 77, 38 km west of Zhaosu County, Xinjiang. Wet

floodplain across stream. No slope.

**PI 619442. *Agrostis gigantea* Roth**

Wild. X97-099; W6 20264. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 9' 52'' N. Longitude 81 deg. 37' 12'' E. Elevation 1320 m. 40 km east Zhaosu County, Xinjiang. Ungrazed meadow that will be cut for hay. Lush vegetation, silt loam soil. Slope is 2% with southwest aspect. Near Suasu River.

**PI 619443. *Agrostis gigantea* Roth**

Wild. X97-031; W6 20222. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 11' 19'' N. Longitude 81 deg. 7' 52'' E. Elevation 1980 m. 3 km north of Zhaosu County, Xinjiang. In tree rows consisting of *Populus* spp. about 6 m tall and Siberian elm about 2-3 m tall along main road to Zhaosu County. Not grazed, no slope.

**PI 619444. *Agrostis gigantea* Roth**

Wild. X97-116; W6 20275. Collected 08/1997 in Xinjiang, China. Latitude 44 deg. 13' 10'' N. Longitude 81 deg. 9' 30'' E. Elevation 990 m. 45 km northeast of Huocheng County, Xinjiang. Hay meadow next to mountain-fed stream. Ungrazed, will be cut for hay. Clay loam soil. No slope.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619445. *Pseudoroegneria spicata* (Pursh) A. Love**

Wild. Acc:158; 9040451; W6 20906. Collected in Nevada, United States. Latitude 40 deg. 0' 0'' N. Longitude 116 deg. 7' 0'' W. Eureka County.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619446. *Phleum phleoides* (L.) H. Karst.**

Wild. X97-135; W6 20290. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 28' 4'' N. Longitude 81 deg. 6' 38'' E. Elevation 2040 m. 55 km south of Yili City, Xinjiang. Dry hillside, stoney soil, grazed moderately. Slope is 30% with south to southeast aspect.

**PI 619447. *Melica transsilvanica* Schur**

Wild. X97-085; W6 20255. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 2' 42'' N. Longitude 81 deg. 18' 23'' E. Elevation 1880 m. 30 km east of Zhaosu County, Xinjiang. Ungrazed hillside, rocky soil underlain with shale, very xeric site. Slope is 40% with south aspect.

**PI 619448. *Phleum pratense* L.**

Wild. X97-081; W6 20252. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 1' 42'' N. Longitude 81 deg. 18' 23'' E. Elevation 1880 m. 30 km east of Zhaosu County. Ungrazed hillside, silt loam about 30 inches deep

underlain with clay. Slope is 40% with north aspect.

**PI 619449. *Phleum phleoides* (L.) H. Karst.**

Wild. X97-121; W6 20280. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 29' 16'' N. Longitude 81 deg. 7' 4'' E. Elevation 1800 m. 50 km south of Yili City, Xinjiang. Hillside with sandy loam soil and shale fragments measuring 2 to 15 cm length. Moderately grazed. Slope is 45% with west aspect.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619450. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-933; W6 20917. Collected in Colorado, United States. Latitude 38 deg. 26' 0'' N. Longitude 106 deg. 46' 0'' W. Between mile markers 6 and 7 on Highway 114 (Kreuger Ranch entrance), Gunnison County. riparian site (Tomichi Creek).

**PI 619451. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-938; W6 20918. Collected in Colorado, United States. Latitude 39 deg. 41' 0'' N. Longitude 107 deg. 55' 0'' W. 2 miles southeast of Rio Blanco County line on Highway 13 in Garfield County.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619452. *Phleum phleoides* (L.) H. Karst.**

Wild. VIR D37; W6 17808. Collected 07/20/1995 in Russian Federation. Latitude 44 deg. 21' 24'' N. Longitude 40 deg. 43' 30'' E. Elevation 450 m. pH 5.8.

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States; Michael D. Casler, University of Wisconsin, Department of Agronomy, 1575 Linden Drive, Madison, Wisconsin 53706-1597, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 12/14/1993.

**PI 619453. *Psathyrostachys juncea* (Fisch.) Nevski**

Uncertain. AJC-599; W6 14628. Collected 05/16/1989 in Russian Federation. Latitude 43 deg. 15' 0'' N. Longitude 75 deg. 57' 0'' E. Kazakhstan Inst. of Fodder Crops, Alma Ata. Origin: Induced tetraploid "No. 11-30". 1988 seed.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States.

Received 09/1998.

- PI 619454. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1268; W6 20981. Collected in Idaho, United States. Latitude 43 deg. 51' 0'' N. Longitude 116 deg. 36' 0'' W. Above A-line canal off Freeze-Out Road in Gem County.
- PI 619455. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-970; W6 20919. Collected in Idaho, United States. Latitude 46 deg. 31' 0'' N. Longitude 116 deg. 37' 0'' W. Highway 12 at approximately mile marker 25 (Nez Perce County). West bank of Clearwater River. Dense monoculture.
- PI 619456. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1218; W6 20978. Collected in Idaho, United States. Latitude 43 deg. 42' 0'' N. Longitude 116 deg. 13' 0'' W. Junction of Cartwright Road and Pierce Park Road in Ada County.
- PI 619457. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1177; W6 20965. Collected in Idaho, United States. Latitude 43 deg. 47' 0'' N. Longitude 116 deg. 32' 0'' W. Little Land and Livestock Ranch "Upper Sheep Trail" in Canyon County.
- PI 619458. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1213; W6 20975. Collected in Idaho, United States. Latitude 43 deg. 27' 0'' N. Longitude 115 deg. 56' 0'' W. 1.4 miles northwest of junction of Mayfield Road and Slater Creek Road in Elmore County.
- PI 619459. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1182; W6 20968. Collected in Idaho, United States. Latitude 43 deg. 30' 0'' N. Longitude 116 deg. 8' 0'' W. East of Boise at I-84 mile marker 60 in Ada County.
- PI 619460. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1216; W6 20977. Collected in Idaho, United States. Latitude 43 deg. 40' 0'' N. Longitude 116 deg. 11' 0'' W. Boise. 1.2 miles above Simplot Lane on Bogus Basin Road in Ada County.
- PI 619461. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1220; W6 20980. Collected in Idaho, United States. Latitude 43 deg. 33' 0'' N. Longitude 116 deg. 6' 0'' W. Highland Valley Road 0.2 miles northeast of junction with Highway 21 in Ada County.
- PI 619462. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1211; W6 20974. Collected in Idaho, United States. Latitude 43 deg. 24' 0'' N. Longitude 115 deg. 52' 0'' W. 3 miles southeast of Mayfield in Elmore County.
- PI 619463. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1209; W6 20972. Collected in Idaho, United States. Latitude 43 deg. 17' 0'' N. Longitude 115 deg. 50' 0'' W. Ditto Creek Road in Elmore County.
- PI 619464. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1179; W6 20967. Collected in Idaho, United States. Latitude 43 deg. 48' 0'' N. Longitude 116 deg. 37' 0'' W. Little Land and Livestock Ranch "Lower Hatley" in Canyon County.

**PI 619465. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1219; W6 20979. Collected in Idaho, United States. Latitude 43 deg. 42' 0'' N. Longitude 116 deg. 16' 0'' W. Hill Road 2.3 miles north of the junction of Hill Road and Seaman's Gulch Road in Ada County.

**PI 619466. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1165; W6 20964. Collected in Idaho, United States. Latitude 42 deg. 59' 0'' N. Longitude 115 deg. 16' 0'' W. Southwest of King Hill 2.2 miles off I-84 exit in Elmore County.

**PI 619467. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1178; W6 20966. Collected in Idaho, United States. Latitude 43 deg. 49' 0'' N. Longitude 116 deg. 35' 0'' W. Little Land and Livestock Ranch "Middle Hatley" in Gem County.

Unknown source. Received 11/19/1990.

**PI 619468. *Lolium multiflorum*** Lam.  
Cultivar. "Ansyl"; W6 6257. Is a tetraploid.

Unknown source. Received 11/19/1990.

**PI 619469. *Lolium multiflorum*** Lam.  
Cultivar. "Idyl"; W6 6259. Developed in France. Is a tetraploid.

Unknown source. Received 11/19/1990.

**PI 619470. *Lolium multiflorum*** Lam.  
Cultivar. "Ruten"; W6 6260. Developed in France. Is a diploid.

Unknown source. Received 11/19/1990.

**PI 619471. *Lolium multiflorum*** Lam.  
Cultivar. "Fastyl"; W6 6263. Developed in France. Is a diploid.

Unknown source. Received 11/19/1990.

**PI 619472. *Lolium multiflorum*** Lam.  
Cultivar. "Energyl"; W6 6262. Developed in France. Is a diploid.

Unknown source. Received 11/19/1990.

**PI 619473. *Lolium multiflorum*** Lam.  
Cultivar. "Vertyl"; W6 6261. Developed in France. Is a diploid.

The following were donated by I.C.C.P.T., Research Institute for Cereals, & Industrial Crops, Fundulea, Calarasi, Romania. Received 02/18/1992.

**PI 619474. *Lolium perenne*** L.

Cultivated. W6 10031; RAIAR.

The following were donated by Doina Silistru, Statinua de Cercetare si Productie, Pentru Cultura Pajistilor Vaslui, Str. Stefan cel Mare nr. 256, Vaslui, Vaslui 6510, Romania. Received 1995.

**PI 619475. *Agropyron cristatum* var. *pectinatum*** (M. Bieb.) Tzvelev  
Uncertain. "I.C.A. 104"; W6 19159.

The following were collected by Peter Cunningham, Dept. of Agriculture & Rural Affairs, Pastoral Research Institute, P.O. Box 180, Hamilton, Victoria 3300, Australia; Mohamed Chakroun, INRAT, Forage Improvement Laboratory, Rue Hadi Karray, Ariana, Tunisia; Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States. Received 08/19/1994.

**PI 619476. *Festuca arundinacea*** Schreb.

Wild. T070.CPG94; 136309; W6 16044. Collected 06/25/1994 in Tunisia. Latitude 37 deg. 13' 58'' N. Longitude 9 deg. 42' 27'' E. Elevation 14 m. Near Bizerte, 13 k west of Bizerte on C51, 1 k from site 26. Grazed. Slope 0-5%, aspect S. Area open. Soil heavy clay, pH 9.5+. Rainfall 600 mm. Moist, alluvial fan, edge of salt lake zone. Vegetation closed, seasonal tall grass. Surrounding veg. dryland wheat. Population abundance frequent, distribution patchy. Growth habit erect.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619477. *Poa pratensis*** L.

Wild. 96N-327; W6 19802. Collected 09/1996 in Mongolia. Latitude 49 deg. 33' 14'' N. Longitude 90 deg. 22' 24'' E. Elevation 1478 m. Bayan-Olgii Aimag, hay meadow in a wide open valley. Soils are deep. Valley is basically flat and drawing toward Aichit Nuur to the southeast. DOMINANT VEG: *Carex melanantha*, *Hordeum bogdani*, *Agrostis clavata*, *Elymus sibiricus*, *Potentilla anserina* ECOLOGICAL ZONE: Mountain steppe.

**PI 619478. *Agropyron cristatum*** (L.) Gaertn.

Wild. 96N-204; W6 19696. Collected 08/1996 in Mongolia. Latitude 48 deg. 46' 35'' N. Longitude 97 deg. 42' 18'' E. Elevation 1841 m. Undisturbed steppe with slight south aspect. Sandy soils with some gravel. South aspect with 1% slope, sandy soil. DOMINANT VEG: *Stipa capillata*, *Agropyron cristatum*, *Thermopsis dahurica*, *Carex duriscula*, *Poa attenuata*, *Artemisia commutata* ECOLOGICAL ZONE: Steppe.

**PI 619479. *Agropyron michnoi*** Roshev.

Wild. 96N-349; W6 19823. Collected 09/1996 in Mongolia. Latitude 48 deg. 27' 56'' N. Longitude 91 deg. 23' 43'' E. Elevation 1355 m. Hovd Aimag, 6 km to the southwest of Har-Us beside the road to Bayan Hongor on a flat plain. 1% northeast slope. Site has a rock strewn surface with gravel/sand soil. DOMINANT VEG: *Caragana pygmae*, *Caragana stenophylla*, *Cleistogenes squarrosa*, *Ceratoides papposa*, *Allium anisopodium*, *Agropyron michnoi* ECOLOGICAL ZONE: Desert steppe.

The following were collected by Peter Cunningham, Dept. of Agriculture & Rural Affairs, Pastoral Research Institute, P.O. Box 180, Hamilton, Victoria 3300, Australia; Mohamed Chakroun, INRAT, Forage Improvement Laboratory, Rue Hadi Karray, Ariana, Tunisia; Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States. Received 08/19/1994.

**PI 619480. *Festuca arundinacea* Schreb.**

Wild. T004.CPG94; 136243; W6 15978. Collected 06/21/1994 in Tunisia. Latitude 36 deg. 49' 29'' N. Longitude 10 deg. 58' 47'' E. Elevation 18 m. Near Skalba, 5 k west of Menzer Temine on C45. Grazed. Slope 0-5%, aspect NE. Area open. Soil clay, vertisol, pH 8.5+. Rainfall 425 mm. Moist, floodplain. Vegetation closed, seasonal tall grass. Surrounding veg. agriculture, orchard. Dominant herb/grass sp. couch, bermuda grass. Population abundance frequent, distribution patchy. Growth habit erect.

**PI 619481. *Festuca arundinacea* Schreb.**

Wild. T010.CPG94; 136249; W6 15984. Collected 06/21/1994 in Tunisia. Latitude 36 deg. 48' 59'' N. Longitude 10 deg. 59' 23'' E. Elevation 6 m. Near skalba, 4 k west of Menzer Temine on C45. Grazed. Slope 6-10%, aspect NE. Open. Soil clay, vertisol, hydromorphic, pH 8.5. Rainfall 425 mm. Moist, ravine. Vegetation closed, seasonal tall grass. Surrounding veg. agricultural, dryland wheat. Dominant herb/grass sp. couch, bermuda. Population abundance frequent, distribution patchy. Growth habit erect.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619482. *Leymus chinensis* (Trin.) Tzvelev**

Wild. 96S-107; W6 19626. Collected 09/1996 in Mongolia. Latitude 48 deg. 10' 0'' N. Longitude 91 deg. 45' 21'' E. Elevation 1335 m. Khovd Aimag, Buyant Sum, experimental area about 10 km north of the aimag center. 0% slope. Wide valley bottom that is currently being used for growing vegetables and making hay. Soils are alluvial and are coarse brown sandy loams. DOMINANT VEG: Vegetables and annual grasses.

**PI 619483. *Psathyrostachys juncea* (Fisch.) Nevski**

Wild. 96N-331; W6 19806. Collected 09/1996 in Mongolia. Latitude 49 deg. 29' 14'' N. Longitude 90 deg. 7' 58'' E. Elevation 2002 m. Bayan-Olgii Aimag, very gravelly hillside 16 km southwest of Noguunnuur and 21 km west of Achit Nuur. 10% to 15% east slope. Site is about 0.5 km from the base of the mountain and to the east of the road and receives about 150 mm annual precipitation. Soil is gravel overlaying a thin layer of tan soil. DOMINANT VEG: *Poa attenuata*, *Agropyron cristatum*, *Stipa glareosa*, *Caragans leucophloea*, *Heteropappus hispidus*. ECOLOGICAL ZONE: Mountain steppe.

**PI 619484. *Psathyrostachys juncea* (Fisch.) Nevski**

Wild. 96N-312; W6 19789. Collected 09/1996 in Mongolia. Latitude 50 deg. 40' 15'' N. Longitude 91 deg. 11' 12'' E. Elevation 1878 m. Uvs Aimag, 14 km east of south end of Uureg Nuur and 97 km northeast of Hovd.

Northeast-southwest canyon along the Ulaangom-Hovd road. Canyon sides are steep (30-50% slope), rocky outcrops. Soils are rock, gravel, and sand. Collection made on both sides of canyon. DOMINANT VEG: *Achnatherum splendens*, *Stipa capillata*, *Agropyron cristatum*, *Artemisia frigida*, *Caragana bungei*, *Caragana stenophylla*, *Heteropappus hispidus*  
ECOLOGICAL ZONE: Mountain steppe.

**PI 619485. *Leymus chinensis* (Trin.) Tzvelev**

Wild. 96S-181; W6 19678. Collected 08/1996 in Mongolia. Latitude 44 deg. 52' 43'' N. Longitude 98 deg. 27' 51'' E. Elevation 2150 m. Bayanhongor Aimag, Bayantsagaan Sum, 30 km east of the aimag center. 1% west slope. High desert pediment slope. Soils are fluvents with alluvia materials consisting of meta-sediments. Surface soils are gray silts and coarse, gravelly stabilized dune sands. DOMINANT VEG: *Reaumuria soongarica*/*Achnatherum splendens*, *Elymus chinensis*, *Artemisia* spp.

**PI 619486. *Leymus chinensis* (Trin.) Tzvelev**

Wild. 96N-274; W6 19760. Collected 08/1996 in Mongolia. Latitude 49 deg. 45' 11'' N. Longitude 94 deg. 11' 44'' E. Elevation 1201 m. Uvs Aimag, 17 km northwest of Beruunturuun and 28 km southeast of Bay An Nuur. Large flat area of abandoned wheat fields along the road. Soils are tan and appear well drained. Aspect is essentially flat. DOMINANT VEG: *Leymus chinensis*, *Elymus dahuricus*, *Setaria*, *Chenopodium*  
ECOLOGICAL ZONE: Steppe.

**PI 619487. *Psathyrostachys juncea* (Fisch.) Nevski**

Wild. 96N-300; W6 19780. Collected 08/1996 in Mongolia. Latitude 49 deg. 51' 50'' N. Longitude 92 deg. 4' 35'' E. Elevation 1078 m. Uvs Aimag, immediately west of Ulaangom airport runway and between runway and perimeter fence. Aspect is flat and soils are sand and gravel. DOMINANT VEG: *Achnatherum splendens*, *Heteropappus hispidus*, *Potentilla biforca*  
ECOLOGICAL ZONE: Steppe.

The following were collected by Richard M. Hannan, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States. Received 07/28/1996.

**PI 619488. *Agropyron cristatum* subsp. *brandzae* (Pantu & Solacolu) Melderis**

Wild. B96-82; W6 19290. Collected 07/1996 in Bulgaria. Latitude 42 deg. 5' 52'' N. Longitude 24 deg. 27' 25'' E. Elevation 304 m. 2 km southwest of Nobusevo, 1km east of Isperishovo. Rocky, grassy hillside. Very arid. 6-7% slope. Alkaline soil (pH 9.5). northwest. Sample.3. different. populations at same site. Combine all Samples?.

The following were donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619489. *Elymus elymoides* (Raf.) Swezey subsp. *elymoides***

Wild. 9019224; Acc:1126; W6 20982. Collected in Montana, United States. Latitude 45 deg. 52' 13'' N. Longitude 112 deg. 5' 44'' W. Elevation 1520 m. Northeast of Whitehall in Jefferson County. T4N R3W Section 4. Received as: *Elymus elymoides* var. *hystrix*.

The following were collected by Kay H. Asay, USDA, ARS, Forage & Range Research Unit, Utah State University, Logan, Utah 84322-6300, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 10/25/1993.

**PI 619490. *Bromus erectus* Huds.**

Uncertain. JA-332; VIR U-0134719; K-41882; W6 13190. Collected 01/1993 in Hungary.

The following were donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619491. *Elymus elymoides* (Raf.) Swezey subsp. *elymoides***

Wild. 9019222; Acc:1131; W6 20985. Collected in Wyoming, United States. Latitude 42 deg. 32' 16'' N. Longitude 110 deg. 6' 50'' W. Elevation 2097 m. 4 miles south of Big Piney. T29N 111W Section 20. Received as: *Elymus elymoides* var. *hystrix*.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619492. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-975; W6 20924. Collected in Washington, United States. Latitude 47 deg. 20' 0'' N. Longitude 118 deg. W. 3 miles northwest of town of Sprague on Highway 23 in Lincoln County.

**PI 619493. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-990; W6 20939. Collected in Washington, United States. Latitude 47 deg. 17' 0'' N. Longitude 119 deg. 35' 0'' W. 1 miles southwest of Ephrata on Highway 283 at railroad trestle in Grant County.

**PI 619494. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-982; W6 20931. Collected in Washington, United States. Latitude 47 deg. 22' 48'' N. Longitude 118 deg. 31' 12'' W. 13.5 miles southwest of Harrington on Highway 28 in Lincoln County.

**PI 619495. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-974; W6 20923. Collected in Washington, United States. Latitude 47 deg. 11' 0'' N. Longitude 117 deg. 52' 0'' W. Highway 23 between mile markers 33 and 34 in Whitman County.

**PI 619496. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-1003; W6 20952. Collected in Washington, United States. Latitude 46 deg. 18' 0'' N. Longitude 118 deg. 17' 0'' W. 2.5 miles east of Prescott on Highway 124 in Walla Walla County.

**PI 619497. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-997; W6 20946. Collected in Washington, United States. Latitude 46 deg. 42' 0'' N. Longitude 118 deg. 26' 0'' W. 0.5 miles west of

junction of Highway 260 and Highway 261 on Highway 260 in Franklin County.

- PI 619498. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-988; W6 20937. Collected in Washington, United States. Latitude 47 deg. 46' 0'' N. Longitude 118 deg. 43' 0'' W. North edge of Wilbur on Highway 174 (golf course) in Lincoln County.
- PI 619499. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-977; W6 20926. Collected in Washington, United States. Latitude 47 deg. 33' 0'' N. Longitude 118 deg. 11' 0'' W. 6 miles northeast of Harrington on Highway 28 in Lincoln County.
- PI 619500. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-994; W6 20943. Collected in Washington, United States. Latitude 46 deg. 46' 0'' N. Longitude 117 deg. 42' 0'' W. 4 miles southwest of town of Dusty on Highway 127 in Whitman County.
- PI 619501. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-987; W6 20936. Collected in Washington, United States. Latitude 47 deg. 51' 0'' N. Longitude 119 deg. 7' 0'' W. 7 miles south of Electric City opposite Banks Lake in Grant County.
- PI 619502. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-984; W6 20933. Collected in Washington, United States. Latitude 47 deg. 25' 0'' N. Longitude 119 deg. 18' 0'' W. 10 miles east of Highway 28 and Highway 17 junction on Highway 28 in Grant County.
- PI 619503. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-978; W6 20927. Collected in Washington, United States. Latitude 47 deg. 47' 0'' N. Longitude 118 deg. 10' 0'' W. 10 miles north of town of Davenport on Highway 25 in Lincoln County.
- PI 619504. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-993; W6 20942. Collected in Washington, United States. Latitude 46 deg. 46' 0'' N. Longitude 118 deg. 2' 0'' W. 0.5 miles east of Highway 26 bridge over Palouse River in Whitman County.
- PI 619505. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-986; W6 20935. Collected in Washington, United States. Latitude 47 deg. 36' 0'' N. Longitude 119 deg. 23' 0'' W. 20 miles north of Soap Lake on Highway 17 in Grant County.
- PI 619506. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-991; W6 20940. Collected in Washington, United States. Latitude 46 deg. 46' 0'' N. Longitude 118 deg. 20' 0'' W. 1.5 miles west of town of Washtucna on Highway 26 in Adams County.
- PI 619507. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-999; W6 20948. Collected in Washington, United States. Latitude 46 deg. 14' 0'' N. Longitude 120 deg. 25' 0'' W. 13 miles south of town of Toppenish on Highway 97 in Yakima County.
- PI 619508. *Leymus cinereus*** (Scribn. & Merr.) A. Love  
Wild. T-998; W6 20947. Collected in Washington, United States. Latitude 46 deg. 29' 0'' N. Longitude 119 deg. 1' 0'' W. 16 miles south of town of Connell on Highway 395 in Franklin County.

**PI 619509. *Leymus cinereus*** (Scribn. & Merr.) A. Love

Wild. T-972; W6 20921. Collected in Washington, United States. Latitude 47 deg. 2' 0'' N. Longitude 117 deg. 30' 0'' W. Between towns of Steptoe and St. John on Highway 23 in Whitman County.

**PI 619510. *Leymus cinereus*** (Scribn. & Merr.) A. Love

Wild. T-976; W6 20925. Collected in Washington, United States. Latitude 47 deg. 24' 0'' N. Longitude 118 deg. 10' 0'' W. 14 miles northwest of town of Sprague in Lincoln County.

The following were collected by Walter J. Kaiser, USDA, ARS, Washington State University, Regional Plant Introduction Station, Pullman, Washington 99164-6402, United States; Fred J. Muehlbauer, USDA, ARS, Washington State University, Grain Legume Genetics & Phys. Res. Unit, Pullman, Washington 99164-6434, United States. Received 1994.

**PI 619511. *Poa* sp.**

Wild. WJK94-T12; W6 16221. Collected 05/28/1994 in Turkey. Latitude 38 deg. 38' 0'' N. Longitude 34 deg. 48' 0'' E. Elevation 1300 m. Around caves at Uchisar in Nevisehir Province.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619512. *Leymus cinereus*** (Scribn. & Merr.) A. Love

Wild. T-1006; W6 20954. Collected in Oregon, United States. Latitude 45 deg. 27' 0'' N. Longitude 117 deg. 21' 0'' W. 4 miles west of town of Enterprise on Highway 3 in Wallowa County.

**PI 619513. *Leymus cinereus*** (Scribn. & Merr.) A. Love

Wild. T-1009; W6 20956. Collected in Oregon, United States. Latitude 45 deg. 2' 0'' N. Longitude 117 deg. 39' 0'' W. 2 miles north of Medical Springs on Highway 203.

The following were collected by N. Jacobsen. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619514. *Elymus stenachyris*** (Keng) A. Love

Wild. H9146; W6 22128. Collected 08/17/1990 in Gansu, China. Latitude 35 deg. 18' 0'' N. Longitude 102 deg. 30' 0'' E. Elevation 3000 m. water reservoir at Xiahe.

Unknown source. Received 11/20/1999.

**PI 619515. *Elymus rigidulus*** (Keng) A. Love

H9159A; W6 22132.

Unknown source. Received 11/20/1999.

**PI 619516. *Elymus nutans* Griseb.**  
H8916; W6 22108.

Unknown source. Received 11/20/1999.

**PI 619517. *Elymus rigidulus* (Keng) A. Love**  
H9159B; W6 22133.

The following were collected by R. von Bothmer. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619518. *Elymus dahuricus* subsp. *excelsus* (Turcz. ex Griseb.) Tzvelev**  
Wild. H7343; W6 22071. Collected 08/21/1986 in Sichuan, China. Latitude 33 deg. 14' 0'' N. Longitude 104 deg. 6' 0'' E. Elevation 2100 m.  
Nanping co, Yu Wa village, NW Nanping, edge of field, along stream.  
Lat/lon accurate to Nanping.

The following were collected by C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619519. *Elymus nutans* Griseb.**  
Wild. H8772; W6 22105. Collected 08/26/1989 in Xinjiang, China. Latitude 47 deg. 43' 0'' N. Longitude 86 deg. 53' 0'' E. Elevation 450 m. Burqin co, just outside Burqin near Ertix He river, river bank w. P.

The following were collected by R. von Bothmer; Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619520. *Elymus nutans* Griseb.**  
Wild. H8061; W6 22084. Collected 08/31/1988 in Sichuan, China. Latitude 32 deg. 0' 0'' N. Longitude 102 deg. 40' 0'' E. Elevation 3300 m. Barkam co, Shuajingsi, km stone 749. Ploidy: 6x.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619521. *Elymus nutans* Griseb.**  
Wild. H8930; W6 22114. Collected 1989 in Sichuan, China. Latitude 31 deg. 49' 48'' N. Longitude 100 deg. 30' 36'' E. Elevation 3740 m. Lu Huo co., 47 km from Lu Huo to Seda co.

**PI 619522. *Elymus nutans* Griseb.**  
Wild. H8985; W6 22124. Collected 1989 in Xizang, China. Elevation 4100 m. Gongjue co., Xiang bei qu.

**PI 619523. *Elymus strictus* (Keng) A. Love**

Wild. H8982; W6 22123. Collected 1989 in Xizang, China. Elevation 3400 m. Changdu co., near Changdu bridge, west river bank.

The following were collected by N. Jacobsen. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619524. *Elymus dahuricus* subsp. *excelsus* (Turcz. ex Griseb.) Tzvelev**

Wild. H9218; W6 22134. Collected 08/30/1990 in Xinjiang, China. Elevation 1750 m. Bagdas, E Hami, apricot plantation.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619525. *Elymus nutans* Griseb.**

Wild. H9015; W6 22126. Collected 1989 in Xizang, China. Elevation 3100 m. Tianxiu co., Chuan-Tibet road, 28th Daoban.

The following were collected by R. von Bothmer. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619526. *Elymus nutans* Griseb.**

Wild. H8370; W6 22101. Collected 09/21/1988 in Xizang, China. Latitude 29 deg. 57' 36'' N. Longitude 93 deg. 5' 24'' E. Elevation 3600 m. 27 km W Gongbogyamda.

**PI 619527. *Elymus nutans* Griseb.**

Wild. H8275; W6 22098. Collected 09/15/1988 in Xizang, China. Latitude 29 deg. 39' 0'' N. Longitude 91 deg. 6' 0'' E. Elevation 4460 m. 112 km from Lhasa, Gangbala Mtn., S side.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619528. *Elymus antiquus* (Nevski) Tzvelev**

Wild. H8928; W6 22113. Collected 1989 in Sichuan, China. Latitude 31 deg. 25' 48'' N. Longitude 100 deg. 24' 0'' E. Elevation 3190 m. Lu Huo co., Chuan-chang road, 20 km W of Lu Huo.

**PI 619529. *Elymus nutans* Griseb.**

Wild. H8969; W6 22119. Collected 1989 in Xizang, China. Elevation 3400 m. Jiangda co., 72 km from Dege to Jiangda, Ailalashan mtn.

The following were collected by R. von Bothmer; Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden. Donated by Kevin B. Jensen, USDA, ARS, Utah

State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619530. *Elymus nutans* Griseb.**

Wild. H8232; W6 22096. Collected 09/12/1988 in Xizang, China. Elevation 4020 m. 78 km NW Lhasa, km stone 1853.

**PI 619531. *Elymus nutans* Griseb.**

Wild. H8218; W6 22095. Collected 09/12/1988 in Xizang, China. Latitude 29 deg. 56' 0'' N. Longitude 90 deg. 47' 0'' E. Elevation 3700 m. 44 km NW Lhasa towards Yangbajain, km stone 1890.

**PI 619532. *Elymus nutans* Griseb.**

Wild. H8243; W6 22097. Collected 09/12/1988 in Xizang, China. Elevation 4150 m. Yangbajain.

**PI 619533. *Elymus nutans* Griseb.**

Wild. H8144; W6 22090. Collected 09/09/1988 in Xizang, China. Latitude 29 deg. 14' 0'' N. Longitude 91 deg. 48' 0'' E. Elevation 3470 m. Nedong (=Zedong), at Zedong Hotel.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619534. *Elymus pseudonutans* A. Love**

Wild. H8977; W6 22121. Collected 1989 in Xizang, China. Elevation 4100 m. Gongjue co., Xiang bei qu.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619535. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-1007; W6 20955. Collected in Oregon, United States. Latitude 45 deg. 17' 0'' N. Longitude 118 deg. 2' 0'' W. 0.5 miles off I-84 on Highway 203 towards Union in Union County.

**PI 619536. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-1001; W6 20950. Collected in Oregon, United States. Latitude 45 deg. 57' 0'' N. Longitude 119 deg. 2' 0'' W. 4.5 miles southwest of Oregon/Washington border on Highway 730 in Umatilla County.

**PI 619537. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-1005; W6 20953. Collected in Oregon, United States. Latitude 45 deg. 30' 0'' N. Longitude 117 deg. 17' 0'' W. 5 miles north of town of Enterprise on Highway 3 in Wallowa County.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State

University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619538. *Agrostis gigantea* Roth**

Wild. X97-060; W6 20241. Collected 08/1997 in Xinjiang, China. Latitude 42 deg. 59' 58'' N. Longitude 81 deg. 6' 39'' E. Elevation 1650 m. 10 km south of Zhaosu County, Xinjiang. Meadow on valley floor. Silt loam soil. Grazed very lightly. Cut for hay. Slope is 1% with north aspect.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619539. *Phleum alpinum* L.**

Wild. VIR D140B; W6 17785. Collected 08/30/1995 in Russian Federation. Latitude 43 deg. 56' N. Longitude 40 deg. 14' 6'' E. Elevation 1820 m. Maykop. 140 km SE of Goozeripl. Previously grazed, now deferred. Slope 0-5% to 6-10%, aspect W. Soil loam with gravel, pH 3.9-4.2, black schists, metamorphic crystal rock in layers. Site moist, lower slope. Vegetation closed, evergreen tall grass. Meadow, mostly grasses. Surrounding vegetation open deciduous forest with closed lower layers. Dominant tree species *Betula* sp., *Abies* sp., *Acer* sp., *Fagus* sp. Dominant shrub species *Laurocerasus* sp., *Rhododendron* sp. Dominant herb/grass species mainly grass meadow, *Calamagrostis* sp., *Agrostis* sp. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619540. *Poa attenuata* Trin.**

Wild. 96N-332; W6 19807. Collected 09/1996 in Mongolia. Latitude 49 deg. 27' 28'' N. Longitude 90 deg. 6' 5'' E. Elevation 2248 m. Bayan-Olgii Aimag, 23 km west from Achit Nuur and 20 km southwest of Nogoonnuur. Steep rocky canyon with the road in the bottom. 15% to 20% east slope. Sides of the canyon are very steep more than 50% and very rocky. Soils are gravel overlying a light tan soil. Drought tolerant turf. DOMINANT VEG: *Poa altaica*, *Koeleria gracilis*, *Agropyron cristatum*, *Artemisia pectinata* ECOLOGICAL ZONE: Mountain steppe.

**PI 619541. *Agropyron cristatum* (L.) Gaertn.**

Wild. 96N-237; W6 19727. Collected 08/1996 in Mongolia. Latitude 49 deg. 13' 37'' N. Longitude 94 deg. 55' 52'' E. Elevation 1878 m. 7 km southeast of Tsetserleg. 2% to 3% slope. On a very rocky, stony exposed

hillside site with southwest aspect. Soil is gravelly. DOMINANT VEG: *Festuca lenensis*, *Stipa capillata*, *Agropyron cristatum*, *Poa attenuata*, *Heteropappus hispidus*, *Artemisia commutata* ECOLOGICAL ZONE: Steppe.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619542. *Agrostis gigantea* Roth**

Wild. X97-088; W6 20258. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 2' 30'' N. Longitude 80 deg. 58' 58'' E. Elevation 1560 m. 20 km west of Zhaosu County, Xinjiang. Ungrazed meadow, will be cut for hay. Silt loam soil, low area surrounded by hills that would catch snow and spring runoff. No slope.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619543. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-985; W6 20934. Collected in Washington, United States. Latitude 47 deg. 29' 0'' N. Longitude 119 deg. 31' 0'' W. 8 miles north of Highway 28 and Highway 17 junction (opposite Lenore Lake) in Grant County.

**PI 619544. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-992; W6 20941. Collected in Washington, United States. Latitude 46 deg. 44' 0'' N. Longitude 118 deg. 16' 0'' W. 2 miles east of town of Washtucna on Highway 26 in Adams County.

**PI 619545. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-995; W6 20944. Collected in Washington, United States. Latitude 46 deg. 32' 0'' N. Longitude 117 deg. 50' 0'' W. 0.5 m west of town of Dodge on Highway 12 in Garfield County.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619546. *Koeleria macrantha* (Ledeb.) Schult.**

Wild. 96N-333; W6 19808. Collected 09/1996 in Mongolia. Latitude 49 deg. 27' 28'' N. Longitude 90 deg. 6' 5'' E. Elevation 2248 m. Bayan-Olgii Aimag, 23 km west from Achit Nuur and 20 km southwest of Nogoonuur Steep rocky canyon with the road in the bottom. 15% to 20% east slope. Sides of the canyon are very steep more than 50% and very rocky. Soils are gravel overlying a light tan soil. DOMINANT VEG: *Poa altaica*, *Koeleria gracilis*, *Agropyron cristatum*, *Artemisia pectinata* ECOLOGICAL ZONE: Mountain steppe.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619547. *Agropyron cristatum* (L.) Gaertn.**

Wild. X97-076; W6 20249. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 2' 15'' N. Longitude 81 deg. 26' 12'' E. Elevation 1380 m. 5 km east of Akedala Farm, 40 km east of Zhaosu County, Xinjiang. Dry meadow lightly grazed. Very dry, clay soil. Slope is 1% with southwest aspect.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619548. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-1000; W6 20949. Collected in Washington, United States. Latitude 46 deg. 5' 0'' N. Longitude 120 deg. 33' 0'' W. 27 miles southwest of town of Toppenish on Highway 97 in Yakima County.

**PI 619549. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-996; W6 20945. Collected in Washington, United States. Latitude 46 deg. 31' 0'' N. Longitude 118 deg. W. 1 miles west of junction of Highway 12 and Highway 261 on Highway 261 in Columbia County.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619550. *Phleum pratense* L.**

Cultivated. X97-048; W6 20232. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 6' 33'' N. Longitude 80 deg. 52' 1'' E. Elevation 1950 m. 12 km north of Farm No. 77, 38 km west of Zhaosu County, Xinjiang. Seeded hay field, established in 1989. Silt loam soil. Silt loam soil with a sandy ridge. Slope is 2% with south aspect.

**PI 619551. *Agrostis gigantea* Roth**

Wild. X97-005; W6 20210. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 54' 1'' N. Longitude 80 deg. 58' 27'' E. Elevation 540 m. 10 km west of No. 68 Farm, 30 km southwest of Yili City, Xinjiang. Alluvial flood plain, sand and coarse stone with no slope. Near bank of Yili River.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619552. *Elymus multisetus*** (J. G. Sm.) Burt Davy  
Wild. T-1207; W6 20971. Collected in Idaho, United States. Latitude 43 deg. 19' 0'' N. Longitude 115 deg. 26' 0'' W. Highway 20 at Anderson Reservoir turnoff in Elmore County.

**PI 619553. *Elymus elymoides*** (Raf.) Swezey **subsp. *elymoides***  
Wild. T-1171; W6 20986. Collected in Idaho, United States. Latitude 42 deg. 58' 0'' N. Longitude 114 deg. 18' 0'' W. 7 miles northeast of Shoshone on Highway 93 in Lincoln County.

The following were donated by Welsh Plant Breeding Station, Genetic Resources Unit, Aberystwyth, Wales, United Kingdom. Received 09/03/1991.

**PI 619554. *Lolium perenne*** L.  
Wild. ABY-BA 10189.81; W6 9366. Collected in Wales, United Kingdom. Latitude 52 deg. 1' N. Longitude 4 deg. 44' W. Eglwysrwr.

The following were donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619555. *Elymus elymoides*** (Raf.) Swezey **subsp. *elymoides***  
Wild. 9005549; Acc:1127; W6 20983. Collected in Montana, United States. Latitude 44 deg. 59' 0'' N. Longitude 108 deg. 40' 0'' W. Elevation 1368 m. 5 miles south of Warren in Carbon County. T9S R25E Section 35.  
Received as: *Elymus elymoides* var. *hystrix*.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619556. *Agropyron cristatum*** (L.) Gaertn.  
Wild. 96N-335; W6 19810. Collected 09/1996 in Mongolia. Latitude 49 deg. 27' 28'' N. Longitude 90 deg. 6' 5'' E. Elevation 2248 m. Bayan-Olgii Aimag, 23 km west from Achit Nuur and 20 km southwest of Nogoonnuur. Steep rocky canyon with the road in the bottom. 15% to 20% east slope. Sides of the canyon are very steep more than 50% and very rocky. Soils are gravel overlying a light tan soil. DOMINANT VEG: *Poa altaica*, *Koeleria gracilis*, *Agropyron cristatum*, *Artemisia pectinata* ECOLOGICAL ZONE: Mountain steppe.

The following were collected by Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619557. *Phleum phleoides* (L.) H. Karst.**

Wild. VIR D141; W6 17786. Collected 08/31/1995 in Russian Federation. Latitude 43 deg. 55' 1'' N. Longitude 40 deg. 15' 39'' E. Elevation 2000 m. pH 3.9-4.0. Population distribution patchy, abundance occasional. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619558. *Agrostis gigantea* Roth**

Wild. X97-014; W6 20212. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 37' 7'' N. Longitude 81 deg. 49' 50'' E. Elevation 720 m. 5 km east of Yemadu Bridge, Xinjiang. Hillside going down into a drainage area and near edge of drainage area. Sandy loam soil. Slope is 30% going down into drainage area.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619559. *Agropyron cristatum* (L.) Gaertn.**

Wild. 96N-233; W6 19724. Collected 08/1996 in Mongolia. Latitude 48 deg. 56' 2'' N. Longitude 95 deg. 33' 18'' E. Elevation 1694 m. Wide valley floor that has a uniform southwest slope of less than 1%. Soils are sandy, gravelly. Changing from forest steppe to dry steppe. DOMINANT VEG: *Cleistogenes squarrosa*, *Stipa capillata*, *Artemisia adamsii*, *Agropyron cristatum*, *Caragana stenophylla*, *Potentilla acaulis*  
ECOLOGICAL ZONE: Steppe.

**PI 619560. *Poa attenuata* Trin.**

Wild. 96N-342; W6 19817. Collected 09/1996 in Mongolia. Latitude 48 deg. 50' 52'' N. Longitude 89 deg. 20' 48'' E. Elevation 2648 m. Bayan-Olgii Aimag, 33 km northwest of Buyant and 23 km southwest of Uujin hillside about 1 km below summit. 5% to 15% southwest slope. Collection site is and open draw. Rocky/gravelly soils with several major rock outcrops on the edge of the collection area. DOMINANT VEG: *Artemisia frigida*, *Festuca lenensis*, *Poa attenuata*, *Potentilla multifida*, *Artemisia dracunculis* ECOLOGICAL ZONE: Mountain steppe.

The following were donated by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619561. *Elymus elymoides* (Raf.) Swezey *subsp. elymoides***

Wild. 9019218; Acc:1128; W6 20984. Collected in Wyoming, United States. Latitude 42 deg. 50' 0'' N. Longitude 110 deg. 25' 0'' W. Elevation 2432 m. 25 miles northwest of Big Piney. T33N R114W Section 25. Received as: *Elymus elymoides* var. *hystrix*.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619562. *Leymus cinereus* (Scribn. & Merr.) A. Love**

Wild. T-989; W6 20938. Collected in Washington, United States. Latitude 47 deg. 32' 0'' N. Longitude 118 deg. 47' 0'' W. Highway 21 at mile marker 48 in Lincoln County.

The following were collected by T.A. Campbell, USDA-ARS, Germplasm Quality and Enhancement Lab, Building 001, Room 339, Beltsville, Maryland 20705, United States; John D. Berdahl, USDA-ARS, Northern Great Plains Research Lab., P.O. Box 459, Mandan, North Dakota 58554, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States; Larry K. Holzworth, USDA-NRCS State Office, Federal Bldg., Room 443, 10 E. Babcock, Bozeman, Montana 59715-4704, United States. Received 12/1997.

**PI 619563. *Poa pratensis* subsp. *angustifolia* (L.) Dumort.**

Wild. X97-058; W6 20239. Collected 08/1997 in Xinjiang, China. Latitude 43 deg. 1' 26'' N. Longitude 80 deg. 56' 27'' E. Elevation 1590 m. 1 km north of Farm No. 77, 38 km west of Zhaosu County, Xinjiang. In *Populus* tree rows ( 10-12 m tall ) along main road going through Farm No. 77. Disturbed silt loam/clay loam soil with some stones; irrigated. No slope.

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619564. *Elymus multisetus* (J. G. Sm.) Burt Davy**

Wild. T-1210; W6 20973. Collected in Idaho, United States. Latitude 43 deg. 21' 30'' N. Longitude 115 deg. 49' 30'' W. Junction of Ditto Creek Road and Foothill Road in Elmore County.

The following were collected by D.P. Sheehy, Eastern Oregon Agricultural Research Center, Post Office Box E, Union, Oregon 97833, United States; Douglas A. Johnson, USDA, ARS, Forage and Range Research Laboratory, Utah State University, Logan, Utah 84322-6300, United States. Received 03/06/1997.

**PI 619565. *Psathyrostachys juncea* (Fisch.) Nevski**

Wild. 96N-238; W6 19728. Collected 08/1996 in Mongolia. Latitude 49 deg. 13' 37'' N. Longitude 94 deg. 55' 52'' E. Elevation 1878 m. 7 km southeast of Tsetserleg. 2% to 3% slope. On a very rocky, stony exposed hillside site with southwest aspect. Soil is gravelly. DOMINANT VEG: *Festuca lenensis*, *Stipa capillata*, *Agropyron cristatum*, *Poa attenuata*, *Heteropappus hispidus*, *Artemisia commutata* ECOLOGICAL ZONE: Steppe.

**PI 619566. *Leymus chinensis*** (Trin.) Tzvelev

Wild. 96S-25; W6 19570. Collected 08/1996 in Mongolia. Latitude 44 deg. 48' 47'' N. Longitude 97 deg. 20' 58'' E. Elevation 1320 m. Gobi-Altai Aimag, Zakhuin Gobi about 100 km from farm experimental area near the headquarters of the Gobi A Ecological Reserve Area. 5% south slope. Small oasis. Soils are sandy, coarse, gravelly alluvial soils. Surface armor of rocks and gravel on the desert surrounding the oasis while wet soils appear to be mostly coarse sandy soil high in salts. DOMINANT VEG: Wet areas: dominated by *Phragmites communis*; desert areas dominated by shrubs including *Tamarix* and *Reaumuria*. Associated vegetation includes *Haloxylon*, *Achnatherum splendens*.

The following were collected by Walter Graves, University of California Cooperative Ext. Service (retired), 7665 Volclay Drive, San Diego, California 92119-1219, United States; Alexander Afonin, Vavilov Institute of Plant Industry, 42 Bolshaya Morskaya Street, St. Petersburg, Leningrad 190000, Russian Federation; Melvin Rumbaugh, R.R. 3, Box 125, Humboldt, Nebraska 68376, United States; Nicolay Portinier, Kamorov Institute of Botany, St. Petersburg, Leningrad, Russian Federation; Jay Hart, 20 Bush Lane, Ithaca, New York 14850, United States; Nicolay Khitrov, Dokvchaev Soil Institute, Pygevsky, per., 7., Moscow, Moscow 109017, Russian Federation. Received 01/1996.

**PI 619567. *Phleum alpinum*** L.

Wild. 0014; VIR 179; US 14; W6 17823. Collected 08/31/1995 in Russian Federation. Latitude 44 deg. 3' 30'' N. Longitude 40 deg. 1' 14'' E. Elevation 1800 m. Thirty two kilometers southwest of Dakhovskaya in the vicinity of Maykop. Previously logged/cleared, now grazed. Slope 6-10%, aspect S. Light open. Soil loam to clay, limestone derived, pH 4.4-4.7. Moist to seasonally dry, upper-mid slope. Vegetation closed, evergreen broad-leaved herb vegetation. Surrounding vegetation evergreen open forest with closed lower layers. Dominant tree species Birch, *Betula* sp., *Pinus* sp., *Acer* sp., *Fagus* sp. Dominant shrub species *Juniperus* sp. Dominant herb/grass species *Achemilla* sp., *Plantago* sp., *Festuca* v., *Descampsia* c., *Phleum* a. Population distribution patchy, abundance frequent. Growth habit erect. Extensive regional climate data available in spreadsheet format or image maps in raster format suitable for GIS analysis. Contact Dr. Stephanie L. Greene (sgreene@ars-grin.gov).

The following were collected by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States. Received 09/1998.

**PI 619568. *Leymus cinereus*** (Scribn. & Merr.) A. Love

Wild. T-1002; W6 20951. Collected in Washington, United States. Latitude 46 deg. 3' 0'' N. Longitude 118 deg. 36' 0'' W. West edge of Lowden on Highway 12 in Walla Walla County.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619569. *Elymus nutans*** Griseb.

Wild. H8945; W6 22117. Collected 1989 in Sichuan, China. Elevation 4110 m. Dege co., 28 km from Manigange to Dege, Que-er-shan mtn.

**PI 619570. *Elymus dahuricus* subsp. *excelsus*** (Turcz. ex Griseb.) Tzvelev  
Wild. H8917; W6 22109. Collected 1989 in Sichuan, China. Elevation 3500 m. Qian Ling co., Zeduo mtn. to Qianling.

The following were collected by R. von Bothmer. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619571. *Elymus dahuricus* subsp. *excelsus*** (Turcz. ex Griseb.) Tzvelev  
Wild. H7320; W6 22070. Collected 08/21/1986 in Sichuan, China. Elevation 2480 m. Nanping co, in Da Lun, 90 km NW Nanping, edge of field.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619572. *Elymus dahuricus* subsp. *excelsus*** (Turcz. ex Griseb.) Tzvelev  
Wild. H8937; W6 22116. Collected 1989 in Sichuan, China. Latitude 31 deg. 10' 0'' N. Longitude 100 deg. 53' 0'' E. Elevation 3520 m. Lu Huo co., 33 km from Lu Huo to Ganzi co.

**PI 619573. *Elymus strictus*** (Keng) A. Love  
Wild. H8936; W6 22115. Collected 1989 in Sichuan, China. Latitude 31 deg. 10' 0'' N. Longitude 100 deg. 53' 0'' E. Elevation 3520 m. Lu Huo co., 33 km from Lu Huo to Ganzi co.

The following were collected by Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden; C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619574. *Elymus nutans*** Griseb.  
Wild. H7818; W6 22080. Collected 09/07/1987 in Xinjiang, China. Latitude 36 deg. 31' 12'' N. Longitude 76 deg. 59' 24'' E. Elevation 3800 m. E slopes of Karakorum, 4 km W Mazar, S facing ravine. Ploidy: 6x.

The following were collected by C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619575. *Elymus nutans*** Griseb.  
Wild. H8747; W6 22104. Collected 08/23/1989 in Xinjiang, China. Latitude 47 deg. 53' 0'' N. Longitude 86 deg. 12' 0'' E. Elevation 1200 m. Habahe co, just outside Teleki village, along river.

The following were collected by Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp,

Malmohus S-23053, Sweden; C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619576. *Elymus nutans* Griseb.**

Wild. H7846; W6 22081. Collected 09/08/1987 in Xinjiang, China. Latitude 37 deg. 5' 0'' N. Longitude 76 deg. 55' 0'' E. Elevation 2150 m. Lower E slopes of Karakorum, Buzar, N Akmeqit, along a stream. Lat/lon accurate to Akmeqit. Ploidy: 6x.

The following were collected by N. Jacobsen. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619577. *Elymus sibiricus* L.**

Wild. H9262; W6 22135. Collected 09/12/1990 in Xinjiang, China. Latitude 43 deg. 4' 12'' N. Longitude 87 deg. 35' 24'' E. ca 80 km S Urumqi, Lan Tai Zei, mountain slope by stream, pasture.

The following were collected by Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden; C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619578. *Elymus nutans* Griseb.**

Wild. H7811; W6 22079. Collected 09/06/1987 in Xinjiang, China. Latitude 36 deg. 50' 24'' N. Longitude 76 deg. 57' 36'' E. Elevation 2800 m. E slopes of Karakorum, Kudi, between Akmeqit & Mazar, among trees. Ploidy: 6x.

The following were collected by C. Baden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619579. *Elymus sibiricus* L.**

Wild. H8800; W6 22106. Collected 08/31/1989 in Xinjiang, China. Latitude 43 deg. 48' 0'' N. Longitude 87 deg. 35' 0'' E. Elevation 1850 m. Urumqi co, lower slopes Nan Shan, N part Tian Shan, SW Urumqi, gras.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China; Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619580. *Elymus praeruptus* Tzvelev**

Wild. H10285; W6 22146. Collected 09/07/1991 in Russian Federation. Latitude 39 deg. 33' 0'' N. Longitude 68 deg. 33' 0'' E. Elevation 3400 m. Turkestan mtns., M 34, Sachristan pass. Ploidy: 4x.

**PI 619581. *Elytrigia intermedia* (Host) Nevski**

Wild. H10247; W6 22145. Collected 09/02/1991 in Russian Federation. Gissar mtns., SW of Iskander-kul, Mura Valley.

**PI 619582. *Elymus dahuricus* Turcz. ex Griseb.**  
Wild. H10237; W6 22143. Collected 09/01/1991 in Russian Federation. Elevation 2400 m. Gissar mtns., Iskander-kul, SW side of the lake.

**PI 619583. *Elymus sibiricus* L.**  
Wild. H10238; W6 22144. Collected 09/01/1991 in Russian Federation. Elevation 2400 m. Gissar mtns., Iskander-kul, SW side of the lake. Ploidy: 4x.

**PI 619584. *Elymus dahuricus* Turcz. ex Griseb.**  
Wild. H10226; W6 22142. Collected 08/30/1991 in Russian Federation. Latitude 39 deg. 1' 1'' N. Longitude 58 deg. 52' 0'' E. Elevation 2150 m. Gissar mtns., Jagnob river, 2 km E of Anzob village.

The following were collected by R. von Bothmer. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619585. *Elymus dahuricus* Turcz. ex Griseb. *subsp. dahuricus***  
Wild. H7066; W6 22068. Collected 08/02/1986 in Qinghai, China. Latitude 36 deg. 10' 0'' N. Longitude 98 deg. 16' 0'' E. Elevation 2700 m. Dulan co, Nomhon farm. Ploidy: 6x.

**PI 619586. *Elymus nutans* Griseb.**  
Wild. H7053; W6 22067. Collected 08/02/1986 in Qinghai, China. Latitude 35 deg. 49' 0'' N. Longitude 97 deg. 37' 0'' E. Elevation 2950 m. Dulan co, 75 km SW Dulan, water canals.

**PI 619587. *Elymus atratus* (Nevski) Hand.-Mazz.**  
Wild. H7045; W6 22066. Collected 08/01/1986 in Qinghai, China. Latitude 36 deg. 44' 0'' N. Longitude 99 deg. 46' 0'' E. Elevation 3250 m. Gonghe co, 1 km W Dashuiqiao bridge at Heimahe, dry riverbed. Ploidy: 6x.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619588. *Elymus dahuricus subsp. excelsus* (Turcz. ex Griseb.) Tzvelev**  
Wild. H8972; W6 22120. Collected 1989 in Xizang, China. Elevation 3600 m. Jiangda co., 81 km from Dege to Jiangda, Ailalashan mtn.

The following were collected by R. von Bothmer; Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619589. *Elymus nutans* Griseb.**  
Wild. H8155; W6 22091. Collected 09/10/1988 in Xizang, China. Latitude 29 deg. 16' 0'' N. Longitude 91 deg. 46' 0'' E. Elevation 3800 m. 34 km

SE Nedong, Chulewa, km stone 159.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619590. *Elymus nutans* Griseb.**

Wild. H9005; W6 22125. Collected 1989 in Xizang, China. Elevation 3740 m. Changdu co., Taniantawong shan mtn.

The following were collected by R. von Bothmer; Bjoern Salomon, Swedish University of Agricultural Sciences, Department of Crop Science, P.O. Box 44, Alnarp, Malmohus S-23053, Sweden. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619591. *Elymus dahuricus* Turcz. ex Griseb.**

Wild. H8217; W6 22094. Collected 09/11/1988 in Xizang, China. Latitude 29 deg. 39' 0'' N. Longitude 91 deg. 6' 0'' E. Elevation 3600 m. Lhasa, below the Potala temple.

The following were collected by Bo Lu, Shandong Provincial Department of Agriculture, Jinan, Shandong, China. Donated by Kevin B. Jensen, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States. Received 11/20/1999.

**PI 619592. *Elymus nutans* Griseb.**

Wild. H8979; W6 22122. Collected 1989 in Xizang, China. Elevation 4200 m. Changdu co., near Touba, Kaqilashan mtn.

The following were developed by Syngenta Seeds, Inc., United States. Received 10/05/2001.

**PI 619593 PVPO. *Citrullus lanatus* (Thunb.) Matsum. & Nakai**  
Cultivar. "90-4194". PVP 200100260.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 10/05/2001.

**PI 619594 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH5DR". PVP 200100261.

**PI 619595 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH6JM". PVP 200100262.

**PI 619596 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH76B". PVP 200100263.

**PI 619597 PVPO. *Zea mays* L. subsp. *mays***  
Cultivar. "PH48F". PVP 200100264.

The following were developed by Seed Research of Oregon, Inc., Corvallis, Oregon, United States. Received 10/05/2001.

**PI 619598 PVPO. Festuca arundinacea** Schreb.  
Cultivar. "SR 8600". PVP 200100265.

The following were developed by Frederick B. Ledebauer, United States. Received 10/05/2001.

**PI 619599 PVPO. Poa pratensis** L.  
Cultivar. "BLUE KNIGHT". PVP 200100267.

The following were developed by The J.C. Robinson Seed Company, Waterloo, Nebraska, United States. Received 10/05/2001.

**PI 619600 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "CI9805". PVP 200100269.

**PI 619601 PVPO. Zea mays** L. **subsp. mays**  
Cultivar. "W60028". PVP 200100270.

The following were developed by Mississippi Agr. Exp. Sta., Delta Branch Exp. Sta., Stoneville, Mississippi, United States. Received 10/05/2001.

**PI 619602 PVPO. Gossypium hirsutum** L.  
Cultivar. "MISCOT 8839". PVP 200100271.

The following were developed by Nunza B.V.. Received 10/05/2001.

**PI 619603 PVPO. Lactuca sativa** L.  
Cultivar. "COMINA". PVP 200100272.

**PI 619604 PVPO. Lactuca sativa** L.  
Cultivar. "GREEN SUN". PVP 200100273.

**PI 619605 PVPO. Lactuca sativa** L.  
Cultivar. "CALIENTE". PVP 200100274.

The following were developed by Syngenta Seeds, Inc., United States. Received 10/05/2001.

**PI 619606 PVPO. Gossypium hirsutum** L.  
Cultivar. "N2108ss". PVP 200100275.

**PI 619607 PVPO. Gossypium hirsutum** L.  
Cultivar. "N2387". PVP 200100276.

The following were developed by Advanta USA, Inc., United States. Received 10/05/2001.

**PI 619608 PVPO. *Triticum aestivum* L.**

Cultivar. "HANNA". PVP 200100277.

The following were developed by Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167, United States. Received 10/05/2001.

**PI 619609 PVPO. *Triticum aestivum* L.**

Cultivar. "KNUDSON". PVP 200100278.

The following were developed by Western Plant Breeders, Inc., Phoenix, Arizona, United States. Received 10/05/2001.

**PI 619610 PVPO. *Triticum aestivum* L.**

Cultivar. "CDC FALCON". PVP 200100279.

The following were developed by Pioneer Hi-Bred International, Inc, United States. Received 10/05/2001.

**PI 619611 PVPO. *Triticum aestivum* L.**

Cultivar. "25R78". PVP 200100280.

**PI 619612 PVPO. *Triticum aestivum* L.**

Cultivar. "25R42". PVP 200100281.

**PI 619613 PVPO. *Triticum aestivum* L.**

Cultivar. "25R23". PVP 200100282.

The following were developed by West-Gro Farms, Inc., United States. Received 10/05/2001.

**PI 619614 PVPO. *Allium cepa* L.**

Cultivar. "MAJIC EARLY YELLOW GRANO PRR". PVP 200100283.

The following were developed by N.C. Foundation Seeds Producers, Inc., Zebulon, North Carolina 27597-8773, United States. Donated by Tommy E. Carter, USDA, ARS, North Carolina State University, 3127 Ligon Street Box 7631, Raleigh, North Carolina 27695-7631, United States. Received 10/05/2001.

**PI 619615. *Glycine max* (L.) Merr.**

Cultivar. "N6201"; NTCPR92-40. PVP 200100284. Pedigree - Nakasennari x Young. Young was a widely grown variety in the southeastern U.S. in the 1980's. Nakasennari (PI 507079) is a Japanese variety. Released 05/17/2000. Potential use in the Japanese soyfoods export market. Large-seeded maturity group VI adapted to the South Atlantic Coast and Southeastern U.S. Approx. 3 days later in maturity than Brim and is adapted to similar latitudes (approx. 31 deg to 37 deg.). In ten North Carolina environments, produced 7% lower yield than Brim in wide (95 cm) row spacings when grown under full season conditions. In these same environments, the 100-seed weight averaged 23.1 g which was larger than Brim (14.0 g). In the 1995 USDA Coop. Uniform Soybean Yield Tests, the average seed protein and oil concentrations on a zero percent moisture basis were 423 and 207 g kg<sup>-1</sup> (429 and 202 g kg<sup>-1</sup> for Brim). Moderate

lodging resistant and exhibits an average lodging score of 2.3, compared with Brim's score of 2.0 (a score of 1 indicates no lodging while 5 indicates a prostrate plant). Plant height averages 17 cm shorter than Young. Very resistant to pod dehiscence after maturation. Seed yellow and clear hila, .

**PI 619616. *Glycine max* (L.) Merr.**

Cultivar. "N7101"; NTCPR92-100. PVP 200100285. Pedigree - Vance x Jizuka (PI 561386). Released 05/17/2000. Potential use in the Japanese soyfoods export market. Small-seeded maturity group VII adapted to the South Atlantic Coast and Southeastern U.S. Similar to Cook and adapted to similar latitudes (approx. 31 deg. to 37 deg.). Produces 17% lower average yields compared to Cook when grown in wide (95 cm) row spacings under full-season conditions in nine different North Carolina environments. 100-seed weight averages 7.3 g, which is smaller than Cook (16.7 g) or Pearl (8.7 g). In regional USDA Coop. Uniform Soybean Yield Trials, the average seed protein and oil concentrations on a zero percent moisture basis were 471 and 178 g kg<sup>-1</sup> (428 and 201 g kg<sup>-1</sup> for Haskell). Plant height averages 7 cm shorter than Haskell. Lodging susceptible in North Carolina, exhibiting an average lodging score of 3.9 compared with Cook's average score of 3.2 over two locations (a score of 1 indicates no lodging while 5 indicates a prostrate plant). Moderately resistant to pod dehiscence after maturation, but.

**PI 619617. *Glycine max* (L.) Merr.**

Cultivar. "N7102"; NTCPR92-115. PVP 200100286. Pedigree - Vance x Jizuka (PI 561386). Released 05/17/2000. Potential use in the Japanese soyfoods export market. Small-seeded maturity group VII adapted to the South Atlantic Coast and Southeastern U.S. Matures approx. 2 days earlier than Cook and is adapted to similar latitudes (approx. 31 deg. to 37 deg.). Produces 18% lower average yield compared to Cook when grown in wide (95 cm) row spacing under full-season conditions in nine different North Carolina environments. 100-seed weight averages 7.5 g which was smaller than Cook (16.7 g) or Pearl (8.7 g). In the regional USDA Coop. Uniform Soybean Yield Trials, the average seed protein and oil concentrations on a zero percent moisture basis were 474 and 181 g kg<sup>-1</sup> (428 and 201 g kg<sup>-1</sup> for Haskell). Plant height averages 20 cm shorter than Haskell. In North Carolina, lodging susceptible, exhibiting an average lodging score of 3.7 compared with Cook's average score of 3.1 over two locations (a score of 1 indicates no lodging while 5 indicates a prostrate plant). Resistant to pod dehiscence.

The following were developed by Robert K. Bacon, University of Arkansas, Department of Agronomy, 115 Plant Science Bldg., Fayetteville, Arkansas 72701, United States; John T. Kelly, University of Arkansas, Department of Crop, Soil & Environmental Sciences, 115 Plant Science, Fayetteville, Arkansas 72701, United States; C.E. Parsons, University of Arkansas, Dept. of Crop, Soil and Environmental Sciences, Lonoke, Arkansas 72086, United States. Donated by Robert K. Bacon, University of Arkansas, Department of Agronomy, 115 Plant Science Bldg., Fayetteville, Arkansas 72701, United States. Received 09/19/2001.

**PI 619618. *Brassica napus* L.**

Breeding. AR91017; ARC91017-44E-5. GP-8. Pedigree - CXW03/Falcon. Winter canola (erucic<1%) with low glucosinolate content. Performs well in Arkansas and is broadly-adapted to the mid-south and mid-west regions.

Blackleg resistance and high oil content.

The following were developed by Monsanto Company, 800 North Lindbergh Blvd., St. Louis, Missouri 63167, United States. Received 10/09/2001.

**PI 619619 PVPO. *Solanum tuberosum* L.**  
Cultivar. "NL30-RBK". PVP 9800103.

The following were developed by Cygnet Potato Breeders, Inc., United States. Received 10/09/2001.

**PI 619620 PVPO. *Solanum tuberosum* L.**  
Cultivar. "SAXON". PVP 9800225.

The following were developed by NORIKA Nordring-Kartoffelzucht-und, Vermehrungs-GmbH Grob Lusewitz, Germany. Received 10/09/2001.

**PI 619621 PVPO. *Solanum tuberosum* L.**  
Cultivar. "MOLLI". PVP 9900119.

The following were developed by John Mara, Irish Potato Breeders Limited, 11 James's Terrace, Malahide, Dublin, Ireland. Received 10/09/2001.

**PI 619622 PVPO. *Solanum tuberosum* L.**  
Cultivar. "CRISPIN". PVP 9900121.

**PI 619623 PVPO. *Solanum tuberosum* L.**  
Cultivar. "AVALANCHE". PVP 9900123.

The following were developed by Richard Percy, USDA, ARS, Maricopa Agricultural Research Ctr., 37860 W. Smith-Enke Rd., Maricopa, Arizona 85339, United States. Received 09/24/2001.

**PI 619624. *Gossypium barbadense* L.**  
Breeding. 93252; American Pima. GP-734. Pedigree - P62/Giza 70 (89591-9-2-1)//8006/P73 (8807-25-9-3). Extra-long staple American Pima line possessing superior fiber length and strength and has agronomically acceptable yield potential, maturity interval, and plant height. Adapted to the American Southwest and exhibits good levels of heat tolerance. Fiber averages 38.4 cN in strength (as measured on a stelometer) and 38.1 mm in length. Fiber length uniformity is 45.7% and micronaire is 4.25. In tests run across locations, the lint yield (1297 kg ha<sup>-1</sup>) and plant height (1.26 m) did not differ significantly from the commercial cv. Pima S-7.

**PI 619625. *Gossypium barbadense* L.**  
Breeding. 93260; American Pima. GP-735. Pedigree - P62/S.I. St. Vincent (89590-7-8-4)//P62/Giza 70 (89591-34-3-2). Extra-long staple American Pima line possessing superior fiber length and strength and has agronomically acceptable yield potential, maturity interval, and plant height. Adapted to American Southwest and exhibits good levels of heat tolerance, Fiber averages 35.0 cN in strength (as measured on a

stelometer) and 38.3 mm in length. Fiber length uniformity is 42.8% and micronaire is 3.67. In tests run across locations, the lint yield was 81% that of the commercial cv. Pima S-7 (1289 kg ha<sup>-1</sup>). Plant height (1.29 m) was equivalent to Pima S-7.

**PI 619626. *Gossypium barbadense* L.**

Breeding. 94217; American Pima. GP-736. Pedigree - P62/S.I. St. Vincent (89590-7-8-7)//P73 (8810-51-4-1). Extra-long staple American Pima line possessing superior fiber length and strength and has agronomically acceptable yield potential, maturity interval, and plant height. Adapted to American Southwest and exhibits good levels of heat tolerance. Fiber averages 34.9 cN in strength (as measured on a stelometer) and 38.3 mm in length. Fiber length uniformity is 45.6% and micronaire is 4.04. In tests run across locations, the lint yield (1292 kg ha<sup>-1</sup>) and plant height (1.33 m) did not differ significantly from the commercial cv. Pima S-7.

**PI 619627. *Gossypium barbadense* L.**

Breeding. 94218; American Pima. GP-737. Pedigree - P75/88-314 (8915-13-7)//P72/P73 (8810-51-4-1). Extra-long staple American Pima line possessing superior fiber length and strength and has agronomically acceptable yield potential, maturity interval, and plant height. Adapted to the American Southwest and exhibits good levels of heat tolerance. Fiber averages 34.0 cN in strength (as measured on a stelometer) and 38.3 mm in length. Fiber length uniformity is 43.7% and micronaire is 3.99. In tests run across locations, the lint yield (1370 kg ha<sup>-1</sup>) and plant height (1.30 m) did not differ significantly from the commercial cv. Pima S-7.

**PI 619628. *Gossypium barbadense* L.**

Breeding. 94220; American Pima. GP-738. Pedigree - P62/S.I. St. Vincent (89590-7-12-2)//P72/P73 (8810-51-4-1). Extra-long staple American Pima line possessing superior fiber length and strength and has agronomically acceptable yield potential, maturity interval, and plant height. Adapted to American Southwest and exhibits good levels of heat tolerance. Fiber averages 34.6 cN in strength (as measured on a stelometer) and 37.8 mm in length. Fiber length uniformity is 45.6% and micronaire is 3.78. In tests run across locations, the lint yield (1215 kg ha<sup>-1</sup>) and plant height (1.34 m) did not differ significantly from the commercial cv. Pima S-7.

The following were developed by Thomas A. Jones, USDA-ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States; N. Jerry Chatterton, USDA-ARS, Forage & Range Research, Utah State University, Logan, Utah 84322-6300, United States; D.C. Nielson, USDA, ARS, Forage and Range Research, Utah State University, Logan, Utah 84322-6300, United States; A.J. Palazzo, U.S. Army Cold Regions Res. and Engineering Lab., 72 Lyme Road, Hanover, New Hampshire 03755-1290, United States; Steve Larson, USDA, ARS, Utah State University, Forage & Range Research Laboratory, Logan, Utah 84322-6300, United States; Stanford Young, Utah State University, Utah Crop Improvement Assoc., 4855 Old Main Hill, Logan, Utah 84322-4855, United States . Received 09/24/2001.

**PI 619629. *Pseudoroegneria spicata* (Pursh) A. Love**

Breeding. P-7. GP-7. Pedigree - T-17 (4x) WA; K-36 WA; DS 134 WA; T-9 ID; K-26 ID; K-68 WA; Goldar WA; Whitmar WA; T-7 ID; DS 120 WA; P-3 OR;

T-22 OR; K-67 WA; T-655 UT; P-5 unknown origin; T-578 WA; K-48 WA; T-15 WA; PI 236670 BC; K-44 WA; K-43 WA; B101 MT; KJ-10 UT; T-36 NV; T-420 OR. Intended to provide genetic diversity within a single germplasm for semi-arid to mesic sites where bluebunch wheatgrass was an original component of the vegetation. Its broad genetic base was generated by open-pollinating 25 native-site populations from Washington, Oregon, Nevada, Utah, Idaho, Montana, and British Columbia. Twenty-four of the constituent populations are diploid ( $2n=14$ ) and one is tetraploid ( $2n=28$ ). Two of the populations are the cvs. Whitmar and Goldar. Breeder seed was bulked across the 25 populations in proportion to their seed yield. Therefore, some populations are better represented genetically than others. AFLP molecular markers have received significantly more genetic diversity within P-7 relative to Whitmar and Goldar.

The following were developed by C.M. Owsley, USDA, NRCS, Americus Plant Materials Center, Route 6, Box 417, Americus, Georgia 31709, United States; Jorge A. Mosjidis, Auburn University, Department of Agronomy & Soils, 202 Funchess Hall, Auburn, Alabama 36849-5412, United States; M.S. Kirkland, USDA, NRCS, Plant Materials Center, Americus, Georgia 31709, United States; K.M. Rogers, USDA, NRCS, Plant Materials Center, Auburn, Alabama, United States. Received 10/10/2001.

**PI 619630. *Vicia villosa* Roth**

Cultivar. "AU Merit". CV-9. Pedigree - Selection from PI 206493. Flowers earlier than common hairy fetch. Flowers (50% flowering between April 3rd and 10th, average of 3 locations, and 2 years), in the first half of April. Seeds have mostly a dull seed coat but about 5% have a shiny coat. Seedlings have more commonly reddish epicotyls but about 4% are green.

The following were developed by Ann R. Blount, University of Florida, North Florida Research and, Education Center, Quincy, Florida 32351, United States. Received 10/17/2001.

**PI 619631. *Paspalum notatum* Flugge**

Breeding. Q4188. Pedigree - Q3664/Q3853. A sexual, tetraploid bahiagrass that has short, stout, ascending rhizomes, an erect growth habit, red-purple basal leaf sheaths, purple anthers and purple stigmas. The line is maintained as a clone by rhizome propagation.

**PI 619632. *Paspalum notatum* Flugge**

Breeding. Q4205. Pedigree - Q4205(Claudina): Q3664//2. A sexual tetraploid bahiagrass that has short rhizomes, an upright growth habit, red-purple leaf sheaths, white stigmas and is 100% sexual. The line was derived from selfed progeny of plant Q3664. The line is maintained as a clone by rhizome propagation.

The following were developed by Eduardo Espitia, INIFAP, CIFAP, Experimental Valle De Mexico, Apartado Postal No. 10, KM 38.5 CARR. Mex-VER/VIA Texcoco, Chapingo, Federal District, Mexico. Received 09/25/2001.

**PI 619633 QUAR. *Triticum aestivum* L.**

Cultivar. "NAHUATL F2000". Pedigree - E7408/PAM//HORK/PF73226/3/URES/4/OPATA/5/OPATA/BOW. Hard white spring

variety with average plant height of 83 cm with 107 days to maturity. Kernels hard, midlong with a 1000 kernel weight of 36 g, test weight of 75 kg hL-1 and protein content of 135 g kg-1. Alveograph W value was 528 x10-4 J, Alveograph P/L 0.78, Mixograph mixing time 3.3 min. and Loaf volume 893 cm-3. Resistance to leaf rust (*Puccinia triticina*) is based on Lr16, 34, and resistance to stripe rust (*P. striiformis*) is based on Yr18 plus at least three slow rusting genes.

**PI 619634 QUAR. *Triticum aestivum* L.**

Cultivar. "TLAXCALA F2000". Pedigree - ZACATECAS/ROMOGA. High yielding hard red spring variety with average plant height of 83 cm with 110 days to maturity. Kernels hard, midlong with a 1000 kernel weight of 38g, test weight of 79 kg hL-1, and protein content of 125 g kg-1. Alveograph W value was 508 x10-4 J, Alveograph P/L 1.0, Mixograph mixing time 3.6 min. and Loaf volume 820 cm-3. Resistance to leaf rust (*Puccinia triticina*) is based on Lr34 and at least two slow rusting genes with additive effects and resistance to stripe rust (*P. striiformis*) is based on Yr18 plus two or three slow rusting genes.

**PI 619635 QUAR. *Triticum aestivum* L.**

Cultivar. "JUCHI F2000". Pedigree - KITE/BOBWHITE//ROMOGA. High yielding hard red spring variety with very good end-use quality. Average plant height of 85 cm with 113 days to maturity. Kernels hard, midlong with a 1000 kernel weight of 35 gt, test weight of 79 kg hL-1 and protein content of 127 g kg-1. Alveograph W value was 432 x10-4 J, Alveograph P/L 0.61, Mixograph mixing time 3.3 min. and Loaf volume 904 cm-3. Resistance to leaf rust (*Puccinia triticina*) is based on Lr1, 13, 17, 34 and at least two slow rusting genes with additive effects and resistance to stripe rust (*P. striiformis*) is based on Yr18 plus two or three slow rusting genes.

The following were developed by Texas Agricultural Experiment Station, Texas, United States. Received 10/22/2001.

**PI 619636 PVPO. *Solanum tuberosum* L.**

Cultivar. "Russet Norkotah 278". PVP 9900139.

**PI 619637 PVPO. *Solanum tuberosum* L.**

Cultivar. "Russet Norkotah 223". PVP 9900140.

The following were donated by N Kameswara Rao, ICRISAT, Genetic Resources and Enhancement Program, Patancheru, Andhra Pradesh 502 324, India. Received 10/03/2001.

**PI 619638 QUAR. *Sorghum bicolor* (L.) Moench**

Landrace. IS 29634; Xiao hong gualiang. . Collected in China.

The following were collected by V. Ramanatha Rao, Int. Crops Res. Inst. for the Semi-Arid Tropics, Genetic Resources Division, Patancheru, Andhra Pradesh, India; F.F. Mwenda, Tanzania. Donated by N Kameswara Rao, ICRISAT, Genetic Resources and Enhancement Program, Patancheru, Andhra Pradesh 502 324, India. Received 10/03/2001.

**PI 619639 QUAR. *Sorghum bicolor* (L.) Moench**

Landrace. RM 57; IS 29659. . Collected 05/03/1985 in Tanzania.

**PI 619640 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. RM 62; IS 29660. . Collected 05/03/1985 in Tanzania.

**PI 619641 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. RM 64; IS 29661. . Collected 05/03/1985 in Tanzania.

**PI 619642 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. RM 69; IS 29662. . Collected 05/04/1985 in Tanzania.

**PI 619643 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. RM 76; IS 29663. . Collected 05/05/1985 in Tanzania.

The following were donated by N Kameswara Rao, ICRISAT, Genetic Resources and Enhancement Program, Patancheru, Andhra Pradesh 502 324, India. Received 10/03/2001.

**PI 619644 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30330; Da shan dong. . Collected in China.

**PI 619645 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30337; Xiao Niu Xin. . Collected in China.

**PI 619646 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30354; Er guan dong. . Collected in China.

**PI 619647 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30365; Ba ye qi. . Collected in China.

**PI 619648 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30371; Da huang gaoliang. . Collected in China.

**PI 619649 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30374; Da hei mao. . Collected in China.

**PI 619650 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30390; Guang dong gaoliang. . Collected in China.

**PI 619651 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30392; Niu wei ba ruan gaoliang. . Collected in China.

**PI 619652 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30408; Xiao gaoliang. . Collected in China.

**PI 619653 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30413; Jin guang gaoliang. . Collected in China.

**PI 619654 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30415; Duan san chi. . Collected in China.

**PI 619655 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30417; Tie sha mao. . Collected in China.

**PI 619656 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30421; Gaoliang. . Collected in China.

PI 619657 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30426; Hong ke jiao. . Collected in China.

PI 619658 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30435; Guan dong hong. . Collected in China.

PI 619659 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30438; Hong ke gaoliang. . Collected in China.

PI 619660 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30445; Jin sui gaoliang. . Collected in China.

PI 619661 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30464; Jiao zi. . Collected in China.

PI 619662 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30470; K 38. . Collected in Russian Federation.

PI 619663 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30471; K 163 B. . Collected in Russian Federation.

PI 619664 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30472; K 258 B. . Collected in Russian Federation.

PI 619665 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30473; K 301. . Collected in Russian Federation.

PI 619666 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30474; K 395. . Collected in Russian Federation.

PI 619667 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30475; K 669. . Collected in Russian Federation.

PI 619668 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30476; K 1353. . Collected in Russian Federation.

PI 619669 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30477; K 1595. . Collected in Russian Federation.

PI 619670 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30478; K 1670. . Collected in Russian Federation.

PI 619671 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30479; K 1682. . Collected in Russian Federation.

PI 619672 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30480; K 1720/II. . Collected in Russian Federation.

PI 619673 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30481; K 1879. . Collected in Russian Federation.

PI 619674 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30482; K 2028/I. . Collected in Russian Federation.

PI 619675 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30483; K 2131. . Collected in Russian Federation.

- PI 619676 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30484; K 2515. . Collected in Russian Federation.
- PI 619677 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30485; K 3405. . Collected in Russian Federation.
- PI 619678 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30486; K 3609. . Collected in Russian Federation.
- PI 619679 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30487; K 5392. . Collected in Russian Federation.
- PI 619680 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30890; Abir; US 1. . Collected in Soroti, Uganda.
- PI 619681 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30891; Ilodir; US 2. . Collected in Soroti, Uganda.
- PI 619682 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30892; Ilodir; US 3. . Collected in Soroti, Uganda.
- PI 619683 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30893; Ecopiara; US 4. . Collected in Soroti, Uganda.
- PI 619684 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30895; Terema; US 6. . Collected in Soroti, Uganda.
- PI 619685 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30897; Emonwai; US 8. . Collected in Soroti, Uganda.
- PI 619686 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30899; Eluratoro; US 10. . Collected in Uganda.
- PI 619687 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30901; Eiris; US 12. . Collected in Uganda.
- PI 619688 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30902; US 13. . Collected in Uganda.
- PI 619689 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30903; US 16. . Collected in Uganda.
- PI 619690 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30904; Eidima; US 17. . Collected in Uganda.
- PI 619691 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30905; Asio; US 19. . Collected in Uganda.
- PI 619692 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30906; Elemureng; US 20. . Collected in Uganda.
- PI 619693 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30907; Elemureng; US 21. . Collected in Uganda.
- PI 619694 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 30909; Edgdg; US 23. . Collected in Soroti, Uganda.

PI 619695 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30910; US 24. . Collected in Soroti, Uganda.

PI 619696 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30911; US 26. . Collected in Soroti, Uganda.

PI 619697 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30912; US 27. . Collected in Soroti, Uganda.

PI 619698 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30914; US 30. . Collected in Soroti, Uganda.

PI 619699 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30916; Anyangoit; US 33. . Collected in Soroti, Uganda.

PI 619700 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30917; Emvmwai; US 34. . Collected in Soroti, Uganda.

PI 619701 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30918; US 37. . Collected in Uganda.

PI 619702 QUAR. *Sorghum bicolor* (L.) Moench  
Wild. IS 30919; US 38. . Collected in Uganda.

PI 619703 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30920; Anyakoka; US 39. . Collected in Uganda.

PI 619704 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30921; US 41. . Collected in Uganda.

PI 619705 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30922; US 42. . Collected in Uganda.

PI 619706 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30924; Ekama; US 44. . Collected in Uganda.

PI 619707 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30925; Ourien; US 45. . Collected in Uganda.

PI 619708 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30926; Eegdg; US 46. . Collected in Uganda.

PI 619709 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30927; Mutema; US 47. . Collected in Uganda.

PI 619710 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30928; Enyang; US 48. . Collected in Uganda.

PI 619711 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30929; Kasunta; US 49. . Collected in Uganda.

PI 619712 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30930; US 50. . Collected in Uganda.

PI 619713 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30931; US 51. . Collected in Uganda.

- PI 619714 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30932; Edgdg; US 52. . Collected in Uganda.
- PI 619715 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30933; Edgdg; US 53. . Collected in Uganda.
- PI 619716 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30934; US 54. . Collected in Uganda.
- PI 619717 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30935; Edgdg-dokola; US 56. . Collected in Uganda.
- PI 619718 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30936; Elugu; US 57. . Collected in Uganda.
- PI 619719 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30937; US 59. . Collected in Uganda.
- PI 619720 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30938; US 60. . Collected in Uganda.
- PI 619721 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30939; US 62. . Collected in Uganda.
- PI 619722 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30940; US 62. . Collected in Uganda.
- PI 619723 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30941; Amira; US 63. . Collected in Uganda.
- PI 619724 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30942; Belatar; US 64. . Collected in Uganda.
- PI 619725 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30943; Orygmatera; US 65. . Collected in Uganda.
- PI 619726 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30944; Awera; US 66. . Collected in Uganda.
- PI 619727 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30945; Awera; US 67. . Collected in Uganda.
- PI 619728 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30946; Awera; US 68. . Collected in Uganda.
- PI 619729 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30947; Awera; US 69. . Collected in Uganda.
- PI 619730 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30948; Nyang Bel; US 70. . Collected in Uganda.
- PI 619731 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30949; Nyang Bel; US 72. . Collected in Uganda.
- PI 619732 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30950; Nyang Bel; US 73. . Collected in Uganda.

- PI 619733 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30951; US 74. . Collected in Uganda.
- PI 619734 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30953; US 76. . Collected in Uganda.
- PI 619735 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30954; US 77. . Collected in Uganda.
- PI 619736 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30956; Awiera; US 80. . Collected in Uganda.
- PI 619737 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30957; Nyang-Awila; US 81. . Collected in Uganda.
- PI 619738 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30959; Awera-Yakyak; US 83. . Collected in Uganda.
- PI 619739 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30960; Nile-alengo; US 84. . Collected in Uganda.
- PI 619740 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30962; Awiagot; US 86. . Collected in Uganda.
- PI 619741 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30963; Awera-adyeda; US 87. . Collected in Uganda.
- PI 619742 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30964; Awera-teeboke; US 88. . Collected in Uganda.
- PI 619743 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30967; Awera-atar; US 91. . Collected in Uganda.
- PI 619744 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30968; Eluku; US 92. . Collected in Uganda.
- PI 619745 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30970; Serena; US 94. . Collected in Uganda.
- PI 619746 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30971; Abir; US 95. . Collected in Uganda.
- PI 619747 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30972; Abir; US 96. . Collected in Uganda.
- PI 619748 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30974; Awera-bar; US 98. . Collected in Uganda.
- PI 619749 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30976; Abir-omoro; US 100. . Collected in Uganda.
- PI 619750 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30977; Ayibgwok; US 101. . Collected in Uganda.
- PI 619751 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30978; Abir-atar; US 102. . Collected in Uganda.

- PI 619752 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30980; Awera-omoro; US 104. . Collected in Uganda.
- PI 619753 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30981; Awera-omoro; US 105. . Collected in Uganda.
- PI 619754 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30984; Abako; US 108. . Collected in Uganda.
- PI 619755 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30985; Abako; US 109. . Collected in Uganda.
- PI 619756 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30986; Abako; US 110. . Collected in Uganda.
- PI 619757 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30987; Iluku-bata; US 111. . Collected in Uganda.
- PI 619758 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30989; Angara-ngetta; US 113. . Collected in Uganda.
- PI 619759 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30990; Abiri; US 114. . Collected in Uganda.
- PI 619760 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30991; Awgra-apala; US 115. . Collected in Uganda.
- PI 619761 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30993; Olarkwon; US 117. . Collected in Uganda.
- PI 619762 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30994; Olarkwonny; US 118. . Collected in Uganda.
- PI 619763 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30995; Abir-odokomit; US 119. . Collected in Uganda.
- PI 619764 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30996; Ogaya; US 120. . Collected in Uganda.
- PI 619765 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30997; US 121. . Collected in Uganda.
- PI 619766 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 30998; Serena-opiello; US 123. . Collected in Uganda.
- PI 619767 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31000; Abir-palwo; US 126. . Collected in Uganda.
- PI 619768 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31001; Lawera; US 127. . Collected in Uganda.
- PI 619769 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31002; Lawera; US 128. . Collected in Uganda.
- PI 619770 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31003; Abir-patongo; US 129. . Collected in Uganda.

- PI 619771 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31004; Abir-patongo; US 129. . Collected in Uganda.
- PI 619772 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31008; Lawera-adilang; US 133. . Collected in Uganda.
- PI 619773 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31010; US 135. . Collected in Uganda.
- PI 619774 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31011; Tyang-kwa; US 136. . Collected in Uganda.
- PI 619775 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31012; Lawera; US 137. . Collected in Uganda.
- PI 619776 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31013; Kabir; US 139. . Collected in Uganda.
- PI 619777 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31014; Kabir; US 140. . Collected in Uganda.
- PI 619778 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31015; Gaya; US 141. . Collected in Uganda.
- PI 619779 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31016; Tyang; US 142. . Collected in Uganda.
- PI 619780 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31017; Lawera-ayumani; US 143. . Collected in Uganda.
- PI 619781 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31018; Lawera; US 144. . Collected in Uganda.
- PI 619782 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31019; Tyang-kitgum; US 145. . Collected in Uganda.
- PI 619783 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31020; Tyang-kitgum; US 146. . Collected in Uganda.
- PI 619784 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31021; Tyang-pachwa-kabete; US 147. . Collected in Uganda.
- PI 619785 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31022; Gaya; US 148. . Collected in Uganda.
- PI 619786 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31023; Lachua; US 149. . Collected in Uganda.
- PI 619787 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31024; Lawera-yak-yak; US 150. . Collected in Uganda.
- PI 619788 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31025; Lawera-akelle; US 151. . Collected in Uganda.
- PI 619789 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31026; Omera; US 152. . Collected in Uganda.

- PI 619790 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31027; Aleda; US 153. . Collected in Uganda.
- PI 619791 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31029; Lodoke; US 155. . Collected in Uganda.
- PI 619792 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31031; Kawera; US 157. . Collected in Uganda.
- PI 619793 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31032; Tyang-labongo; US 158. . Collected in Uganda.
- PI 619794 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31034; Geyalango; US 161. . Collected in Uganda.
- PI 619795 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31035; Tyang-labongo; US 162. . Collected in Uganda.
- PI 619796 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31036; Tyang-labongo; US 163. . Collected in Uganda.
- PI 619797 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31037; Tyang-labongo; US 164. . Collected in Uganda.
- PI 619798 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31038; Tyang-labongo; US 165. . Collected in Uganda.
- PI 619799 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31039; Lawer-otal; US 166. . Collected in Uganda.
- PI 619800 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31040; Tyang-oryane; US 167. . Collected in Uganda.
- PI 619801 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31041; Tyang-omiya; US 168. . Collected in Uganda.
- PI 619802 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31042; Tyang-omiya; US 170. . Collected in Uganda.
- PI 619803 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31043; Goda; US 171. . Collected in Uganda.
- PI 619804 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31044; Kabir-namokora; US 172. . Collected in Uganda.
- PI 619805 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31045; Kabir-namokora; US 173. . Collected in Uganda.
- PI 619806 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31046; Abwor; US 174. . Collected in Uganda.
- PI 619807 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31047; US 175. . Collected in Uganda.
- PI 619808 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31049; Latere gilwit; US 179. . Collected in Uganda.

- PI 619809 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31050; Lociri; US 180. . Collected in Uganda.
- PI 619810 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31051; Kabir-pajimu; US 181. . Collected in Uganda.
- PI 619811 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31052; Gaya; US 183. . Collected in Uganda.
- PI 619812 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31053; Kabir-pajimu; US 184. . Collected in Uganda.
- PI 619813 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31054; US 185. . Collected in Uganda.
- PI 619814 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31055; Lawera-palabek; US 188. . Collected in Uganda.
- PI 619815 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31056; Lociri; US 189. . Collected in Uganda.
- PI 619816 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31057; US 190. . Collected in Uganda.
- PI 619817 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31058; Kabir-gulu; US 191. . Collected in Uganda.
- PI 619818 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31060; Lacer; US 194. . Collected in Uganda.
- PI 619819 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31061; Lacer; US 194. . Collected in Uganda.
- PI 619820 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31064; Kabir-omoti; US 197. . Collected in Uganda.
- PI 619821 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31065; Kabir-omoti; US 198. . Collected in Uganda.
- PI 619822 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31066; Kabir-omoti; US 199. . Collected in Uganda.
- PI 619823 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31067; Kabir-pacho; US 200. . Collected in Uganda.
- PI 619824 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31068; Gaya; US 201. . Collected in Uganda.
- PI 619825 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31069; Gaya-gulu; US 202. . Collected in Uganda.
- PI 619826 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31070; Gaya-pachore; US 204. . Collected in Uganda.
- PI 619827 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31071; Lawera-pachore; US 205. . Collected in Uganda.

- PI 619828 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31072; Gome; US 206. . Collected in Uganda.
- PI 619829 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31073; US 207. . Collected in Uganda.
- PI 619830 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31074; US 208. . Collected in Uganda.
- PI 619831 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31075; Nyang-molo; US 209. . Collected in Uganda.
- PI 619832 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31076; US 210. . Collected in Uganda.
- PI 619833 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31077; Lawera-bobi; US 211. . Collected in Uganda.
- PI 619834 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31078; Lacene; US 213. . Collected in Uganda.
- PI 619835 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31079; Lawera; US 214. . Collected in Uganda.
- PI 619836 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31080; Lawuluba; US 216. . Collected in Uganda.
- PI 619837 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31082; Kabir-olwiyo; US 218. . Collected in Uganda.
- PI 619838 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31083; US 220. . Collected in Uganda.
- PI 619839 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31084; Yele-yele; US 223. . Collected in Uganda.
- PI 619840 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31085; Gaya-akaba; US 224. . Collected in Uganda.
- PI 619841 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31086; Yibjobi; US 226. . Collected in Uganda.
- PI 619842 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31087; Yibjobi; US 227. . Collected in Uganda.
- PI 619843 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31088; Katikira; US 228. . Collected in Uganda.
- PI 619844 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31089; Awulumaba; US 229. . Collected in Uganda.
- PI 619845 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31090; Aruutu; US 230. . Collected in Uganda.
- PI 619846 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31091; Nyacobo; US 231. . Collected in Uganda.

- PI 619847 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31094; Gaya-pawong; US 234. . Collected in Uganda.
- PI 619848 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31095; Yele-yele; US 235. . Collected in Uganda.
- PI 619849 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31096; Yele-yele; US 236. . Collected in Uganda.
- PI 619850 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31097; US 237. . Collected in Uganda.
- PI 619851 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31102; US 242. . Collected in Uganda.
- PI 619852 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31103; US 243. . Collected in Uganda.
- PI 619853 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31105; Awure; US 246. . Collected in Uganda.
- PI 619854 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31111; Ndumu-kabir type; US 253. . Collected in Uganda.
- PI 619855 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31112; Ejiki; US 254. . Collected in Uganda.
- PI 619856 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31114; Akidini; US 256. . Collected in Uganda.
- PI 619857 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31117; US 259. . Collected in Uganda.
- PI 619858 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31120; Akidini-lugbara; US 262. . Collected in Uganda.
- PI 619859 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31121; Akindi; US 263. . Collected in Uganda.
- PI 619860 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31123; US 264. . Collected in Uganda.
- PI 619861 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31124; Ejiki; US 265. . Collected in Uganda.
- PI 619862 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31125; Derebe; US 266. . Collected in Uganda.
- PI 619863 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31126; US 269. . Collected in Uganda.
- PI 619864 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31129; US 273. . Collected in Uganda.
- PI 619865 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31131; Trutrua; US 275. . Collected in Uganda.

PI 619866 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31132; US 276. . Collected in Uganda.

PI 619867 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31133; US 277. . Collected in Uganda.

PI 619868 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31134; US 278. . Collected in Uganda.

PI 619869 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31136; Atindia; US 280. . Collected in Uganda.

PI 619870 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31138; Charaga; US 282. . Collected in Uganda.

PI 619871 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31141; Godo; US 285. . Collected in Uganda.

PI 619872 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31142; Godo; US 286. . Collected in Uganda.

PI 619873 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31144; Godo; US 288. . Collected in Uganda.

PI 619874 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31145; Godo; US 289. . Collected in Uganda.

PI 619875 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31146; Godo; US 290. . Collected in Uganda.

PI 619876 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31147; Godo; US 291. . Collected in Uganda.

PI 619877 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31148; Godo; US 292. . Collected in Uganda.

PI 619878 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31149; Godo; US 293. . Collected in Uganda.

PI 619879 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31150; US 294. . Collected in Uganda.

PI 619880 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31152; US 296. . Collected in Uganda.

PI 619881 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31153; US 296. . Collected in Uganda.

PI 619882 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31154; Lawnluba; US 298. . Collected in Uganda.

PI 619883 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31155; Geya; US 299. . Collected in Uganda.

PI 619884 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31156; Obeja; US 300. . Collected in Uganda.

PI 619885 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31157; US 301. . Collected in Uganda.

PI 619886 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31158; US 302. . Collected in Uganda.

PI 619887 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31159; Kabir-gweng-abara; US 303. . Collected in Uganda.

PI 619888 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31160; Kabir-gweng-abara; US 304. . Collected in Uganda.

PI 619889 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31161; Elugu; US 305. . Collected in Uganda.

PI 619890 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31165; US 310. . Collected in Uganda.

PI 619891 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31167; Chuata; US 312. . Collected in Uganda.

PI 619892 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31169; Tomu; US 314. . Collected in Uganda.

PI 619893 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31170; Imomwa; US 315. . Collected in Uganda.

PI 619894 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31171; Serena; US 316. . Collected in Uganda.

PI 619895 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31172; Okwaras; US 317. . Collected in Uganda.

PI 619896 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31174; US 319. . Collected in Uganda.

PI 619897 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31175; US 320. . Collected in Uganda.

PI 619898 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31176; US 321. . Collected in Uganda.

PI 619899 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31178; US 323. . Collected in Uganda.

PI 619900 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31179; US 324. . Collected in Uganda.

PI 619901 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31180; US 325. . Collected in Uganda.

PI 619902 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31181; US 326. . Collected in Uganda.

PI 619903 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31182; US 327. . Collected in Uganda.

- PI 619904 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31184; US 329. . Collected in Uganda.
- PI 619905 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31189; Holish; US 334. . Collected in Uganda.
- PI 619906 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31190; Holish; US 335. . Collected in Uganda.
- PI 619907 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31193; US 338. . Collected in Uganda.
- PI 619908 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31194; US 339. . Collected in Uganda.
- PI 619909 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31195; US 340. . Collected in Uganda.
- PI 619910 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31196; Bel matari; US 341. . Collected in Uganda.
- PI 619911 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31197; Bel mobokere; US 342. . Collected in Uganda.
- PI 619912 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31198; Airo; US 343. . Collected in Uganda.
- PI 619913 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31200; Bel matari; US 345. . Collected in Uganda.
- PI 619914 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31201; Omubere; US 346. . Collected in Uganda.
- PI 619915 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31202; Omubere; US 347. . Collected in Uganda.
- PI 619916 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31205; Omubere; US 350. . Collected in Uganda.
- PI 619917 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31208; Nakasabi; US 353. . Collected in Uganda.
- PI 619918 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31209; Kasunta; US 354. . Collected in Uganda.
- PI 619919 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31211; US 356. . Collected in Uganda.
- PI 619920 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31212; US 357. . Collected in Uganda.
- PI 619921 QUAR. *Sorghum bicolor* (L.) Moench  
Wild. IS 31213; US 358. . Collected in Uganda.
- PI 619922 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31214; Emakasuta; US 359. . Collected in Uganda.

PI 619923 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31215; Ekomo; US 360. . Collected in Uganda.

PI 619924 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31216; Mutamatama; US 361. . Collected in Uganda.

PI 619925 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31217; Mutamatama; US 362. . Collected in Uganda.

PI 619926 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31218; Mutamatama; US 363. . Collected in Uganda.

PI 619927 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31219; Muwamba; US 364. . Collected in Uganda.

PI 619928 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31220; US 365. . Collected in Uganda.

PI 619929 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31222; US 367. . Collected in Uganda.

PI 619930 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31223; US 368. . Collected in Uganda.

PI 619931 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31224; Namata; US 369. . Collected in Uganda.

PI 619932 QUAR. *Sorghum bicolor* (L.) Moench  
Wild. IS 31225; US 370. . Collected in Uganda.

PI 619933 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31226; US 371. . Collected in Uganda.

PI 619934 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31227; Mafumo; US 372. . Collected in Uganda.

PI 619935 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31228; US 373. . Collected in Uganda.

PI 619936 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31229; Bel; US 374. . Collected in Uganda.

PI 619937 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31230; Bel; US 375. . Collected in Uganda.

PI 619938 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31231; US 376. . Collected in Soroti, Uganda.

PI 619939 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31232; US 377. . Collected in Soroti, Uganda.

PI 619940 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31233; US 378. . Collected in Soroti, Uganda.

PI 619941 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31234; US 379. . Collected in Uganda.

PI 619942 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31235; US 380. . Collected in Uganda.

PI 619943 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31236; Elodir; US 381. . Collected in Uganda.

PI 619944 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31237; Elodir; US 382. . Collected in Uganda.

PI 619945 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31238; Elodir; US 383. . Collected in Uganda.

PI 619946 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31239; US 384. . Collected in Uganda.

PI 619947 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31240; US 385. . Collected in Uganda.

PI 619948 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31241; US 386. . Collected in Uganda.

PI 619949 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31242; US 387. . Collected in Uganda.

PI 619950 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31243; US 388. . Collected in Uganda.

PI 619951 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31245; US 390. . Collected in Uganda.

PI 619952 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31246; Serena; US 391. . Collected in Uganda.

PI 619953 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31247; Enyang; US 392. . Collected in Uganda.

PI 619954 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31248; Enyang; US 393. . Collected in Uganda.

PI 619955 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31249; US 394. . Collected in Uganda.

PI 619956 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31250; US 395. . Collected in Uganda.

PI 619957 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31251; US 396. . Collected in Uganda.

PI 619958 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31252; US 397. . Collected in Uganda.

PI 619959 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31253; US 398. . Collected in Uganda.

PI 619960 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31254; US 399. . Collected in Uganda.

- PI 619961 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31255; Erepit; US 400. . Collected in Uganda.
- PI 619962 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31257; US 402. . Collected in Uganda.
- PI 619963 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31258; US 403. . Collected in Uganda.
- PI 619964 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31259; US 404. . Collected in Uganda.
- PI 619965 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31260; US 405. . Collected in Uganda.
- PI 619966 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31261; US 406. . Collected in Uganda.
- PI 619967 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31263; Kakodo; US 408. . Collected in Uganda.
- PI 619968 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31264; US 409. . Collected in Uganda.
- PI 619969 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31266; Kabete; US 411. . Collected in Uganda.
- PI 619970 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31267; US 412. . Collected in Uganda.
- PI 619971 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31268; Kashaya 1; US 413. . Collected in Uganda.
- PI 619972 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31269; US 414. . Collected in Uganda.
- PI 619973 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31270; Kata-mbindo; US 415. . Collected in Uganda.
- PI 619974 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31271; Kata-mbindo rwamukondo; US 416. . Collected in Uganda.
- PI 619975 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31272; Rwamu Kondo rwamukondo; US 417. . Collected in Uganda.
- PI 619976 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31273; Kata-mbindo nyakaembunk; US 418. . Collected in Uganda.
- PI 619977 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31274; Kanyiyerere; US 419. . Collected in Uganda.
- PI 619978 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31275; US 420. . Collected in Uganda.

- PI 619979 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31276; Kabusiba; US 421. . Collected in Uganda.
- PI 619980 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31277; Kabusiba; US 422. . Collected in Uganda.
- PI 619981 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31278; US 423. . Collected in Uganda.
- PI 619982 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31279; US 425. . Collected in Uganda.
- PI 619983 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31280; US 426. . Collected in Uganda.
- PI 619984 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31281; Kata-mbindo rubaure; US 427. . Collected in Uganda.
- PI 619985 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31282; Kanyankole; US 428. . Collected in Uganda.
- PI 619986 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31283; US 431. . Collected in Uganda.
- PI 619987 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31284; US 434. . Collected in Uganda.
- PI 619988 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31285; US 436. . Collected in Uganda.
- PI 619989 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31286; US 437. . Collected in Uganda.
- PI 619990 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31287; US 438. . Collected in Uganda.
- PI 619991 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31288; US 439. . Collected in Uganda.
- PI 619992 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31289; Amasaka; US 440. . Collected in Uganda.
- PI 619993 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31290; US 441. . Collected in Uganda.
- PI 619994 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31291; US 442. . Collected in Uganda.
- PI 619995 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31292; Enjuna; US 443. . Collected in Uganda.
- PI 619996 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31293; US 444. . Collected in Uganda.
- PI 619997 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31294; US 445. . Collected in Uganda.

PI 619998 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31296; Nyakakiga; US 447. . Collected in Uganda.

PI 619999 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31297; Rutare 1; US 448. . Collected in Uganda.

PI 620000 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31298; Rutare 2; US 449. . Collected in Uganda.

PI 620001 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31299; Ntuku; US 450. . Collected in Uganda.

PI 620002 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31300; Mabare; US 452. . Collected in Uganda.

PI 620003 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31301; Mabare; US 453. . Collected in Uganda.

PI 620004 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31302; Kanyijengere 1; US 454. . Collected in Uganda.

PI 620005 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31303; Rukondo; US 455. . Collected in Uganda.

PI 620006 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31304; Kanyijengere 2; US 456. . Collected in Uganda.

PI 620007 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31305; US 457. . Collected in Uganda.

PI 620008 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31306; US 458. . Collected in Uganda.

PI 620009 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31308; US 460. . Collected in Uganda.

PI 620010 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31309; US 461. . Collected in Uganda.

PI 620011 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31312; US 464. . Collected in Uganda.

PI 620012 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31313; Rukondogoza; US 465. . Collected in Uganda.

PI 620013 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31314; Kankwerere; US 466. . Collected in Uganda.

PI 620014 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31315; US 467. . Collected in Uganda.

PI 620015 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31316; Nchinga 1; US 468. . Collected in Rukungiri, Uganda.

PI 620016 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31317; Nchinga 2; US 469. . Collected in Rukungiri, Uganda.

- PI 620017 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31318; Kankwerere; US 470. . Collected in Rukungiri, Uganda  
.
- PI 620018 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31320; Rutare; US 472. . Collected in Rukungiri, Uganda.
- PI 620019 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31321; Kankwerere; US 473. . Collected in Rukungiri, Uganda  
.
- PI 620020 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31323; US 476. . Collected in Rukungiri, Uganda.
- PI 620021 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31324; Rukondo; US 477. . Collected in Uganda.
- PI 620022 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31326; Kankwerere-bugangari 2; US 479. . Collected in  
Uganda.
- PI 620023 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31327; Kankwerere-bugangari 3; US 480. . Collected in  
Uganda.
- PI 620024 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31328; US 481. . Collected in Uganda.
- PI 620025 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31330; Kabuninye nyenka; US 483. . Collected in Uganda.
- PI 620026 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31331; US 484. . Collected in Uganda.
- PI 620027 QUAR. *Sorghum bicolor* (L.) Moench  
Wild. IS 31332; US 485. . Collected in Uganda.
- PI 620028 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31333; Kabusiba II; US 486. . Collected in Uganda.
- PI 620029 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31334; Kabusiba III; US 487. . Collected in Uganda.
- PI 620030 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31335; Masaku I; US 488. . Collected in Uganda.
- PI 620031 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31337; Nyakagusa; US 490. . Collected in Rukungiri, Uganda.
- PI 620032 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31338; Kabuyanda; US 491. . Collected in Rukungiri, Uganda.
- PI 620033 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. IS 31339; Kabuyanda; US 492. . Collected in Rukungiri, Uganda.
- PI 620034 QUAR. *Sorghum bicolor* (L.) Moench

Landrace. IS 31340; Kalanjamwere; US 494. . Collected in Rukungiri, Uganda.

**PI 620035 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31341; Ntalushaka; US 495. . Collected in Rukungiri, Uganda

**PI 620036 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31342; US 496. . Collected in Rukungiri, Uganda.

**PI 620037 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31343; Kajanjamwire; US 497. . Collected in Rukungiri, Uganda.

**PI 620038 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31346; Nyakagusha; US 500. . Collected in Uganda.

**PI 620039 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31348; Kajanjamwire; US 502. . Collected in Uganda.

**PI 620040 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31349; Kaababuro; US 503. . Collected in Uganda.

**PI 620041 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31350; Kajamja; US 504. . Collected in Uganda.

**PI 620042 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31351; Buro; US 505. . Collected in Uganda.

**PI 620043 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31352; Kaaburo; US 506. . Collected in Uganda.

**PI 620044 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31353; Kaaburo; US 507. . Collected in Uganda.

**PI 620045 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31354; Ekigusnagusha; US 508. . Collected in Uganda.

**PI 620046 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31355; Kaamate; US 509. . Collected in Uganda.

**PI 620047 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31356; Ruhogo; US 510. . Collected in Uganda.

**PI 620048 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31357; Kaburo-kichwamba; US 511. . Collected in Uganda.

**PI 620049 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31358; Ruhogo; US 512. . Collected in Uganda.

**PI 620050 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31360; US 514. . Collected in Uganda.

**PI 620051 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31361; Ruhogokulya; US 515. . Collected in Uganda.

**PI 620052 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31362; US 516. . Collected in Uganda.

**PI 620053 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31363; US 517. . Collected in Uganda.

**PI 620054 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31366; US 520. . Collected in Uganda.

**PI 620055 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31367; US 522. . Collected in Uganda.

**PI 620056 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31368; Kaburo; US 523. . Collected in Uganda.

**PI 620057 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31369; Nkundankole I; US 524. . Collected in Uganda.

**PI 620058 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31370; Nkundankole II; US 525. . Collected in Uganda.

**PI 620059 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31371; Nkundankole III; US 526. . Collected in Uganda.

**PI 620060 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31372; Kajanja; US 528. . Collected in Uganda.

**PI 620061 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31373; Kajanja kangyenye I; US 529. . Collected in Uganda.

**PI 620062 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31374; Kaburo kangyenye I; US 530. . Collected in Uganda.

**PI 620063 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31375; Ogwenkiga; US 531. . Collected in Uganda.

**PI 620064 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31376; Ogwenkiga; US 532. . Collected in Uganda.

**PI 620065 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31377; Katambin I; US 533. . Collected in Uganda.

**PI 620066 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31378; Katambindo II; US 534. . Collected in Uganda.

**PI 620067 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31379; Kajanja-masekuka; US 535. . Collected in Uganda.

**PI 620068 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31380; Kajanja-fabwohe; US 536. . Collected in Uganda.

**PI 620069 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31381; Katambindo-kabwohe; US 537. . Collected in Uganda.

**PI 620070 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31382; US 538. . Collected in Uganda.

**PI 620071 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31383; Gusagusa; US 539. . Collected in Uganda.

**PI 620072 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31384; US 540. . Collected in Uganda.

**PI 620073 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31385; US 541. . Collected in Uganda.

**PI 620074 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31386; US 542. . Collected in Uganda.

**PI 620075 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31387; US 543. . Collected in Uganda.

**PI 620076 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31388; US 544. . Collected in Uganda.

**PI 620077 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31389; US 545. . Collected in Uganda.

**PI 620078 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31390; US 546. . Collected in Uganda.

**PI 620079 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31391; US 547. . Collected in Uganda.

**PI 620080 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31392; Kanyamunyu; US 548. . Collected in Uganda.

**PI 620081 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31393; US 549. . Collected in Uganda.

**PI 620082 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31395; US 551. . Collected in Uganda.

**PI 620083 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31396; US 552. . Collected in Uganda.

**PI 620084 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31397; Yenoera; US 553. . Collected in Uganda.

**PI 620085 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31398; Kanyimwerere; US 554. . Collected in Uganda.

**PI 620086 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31399; US 555. . Collected in Uganda.

**PI 620087 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31400; US 556. . Collected in Uganda.

**PI 620088 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31401; US 557. . Collected in Uganda.

**PI 620089 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31402; Kabano; US 558. . Collected in Uganda.

**PI 620090 QUAR. Sorghum bicolor** (L.) Moench

Wild. IS 31403; US 559. . Collected in Uganda.

- PI 620091 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31404; Kajanja-gali; US 560. . Collected in Uganda.
- PI 620092 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31405; US 561. . Collected in Uganda.
- PI 620093 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31406; US 562. . Collected in Uganda.
- PI 620094 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31407; US 563. . Collected in Uganda.
- PI 620095 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31408; US 564. . Collected in Uganda.
- PI 620096 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31409; Kabir; US 565. . Collected in Uganda.
- PI 620097 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31410; US 566. . Collected in Uganda.
- PI 620098 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31411; Kabir; US 567. . Collected in Uganda.
- PI 620099 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31412; US 568. . Collected in Uganda.
- PI 620100 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31415; US 571. . Collected in Uganda.
- PI 620101 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31416; US 572. . Collected in Uganda.
- PI 620102 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31417; US 573. . Collected in Uganda.
- PI 620103 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31418; US 574. . Collected in Uganda.
- PI 620104 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31419; Kamyeirere; US 575. . Collected in Uganda.
- PI 620105 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31420; US 576. . Collected in Uganda.
- PI 620106 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31421; US 577. . Collected in Uganda.
- PI 620107 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31422; US 578. . Collected in Uganda.
- PI 620108 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31423; Enkumba; US 579. . Collected in Uganda.
- PI 620109 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31424; Enowera; US 580. . Collected in Uganda.

**PI 620110 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31425; US 581. . Collected in Uganda.

**PI 620111 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31426; US 582. . Collected in Uganda.

**PI 620112 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31427; US 583. . Collected in Uganda.

**PI 620113 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31428; Ekinyabulo; US 584. . Collected in Uganda.

**PI 620114 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31429; US 585. . Collected in Uganda.

**PI 620115 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31430; US 586. . Collected in Uganda.

**PI 620116 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31431; Nkumba; US 587. . Collected in Uganda.

**PI 620117 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31432; Enowera; US 588. . Collected in Uganda.

**PI 620118 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31433; US 589. . Collected in Uganda.

**PI 620119 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31434; US 590. . Collected in Uganda.

**PI 620120 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31435; US 591. . Collected in Uganda.

**PI 620121 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31436; US 592. . Collected in Uganda.

**PI 620122 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31437; US 593. . Collected in Uganda.

**PI 620123 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31438; Ebinyamugusa; US 594. . Collected in Uganda.

**PI 620124 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31439; Obunyabudo; US 595. . Collected in Uganda.

**PI 620125 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31440; US 596. . Collected in Uganda.

**PI 620126 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31441; US 597. . Collected in Uganda.

**PI 620127 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31442; Kanyeirere; US 598. . Collected in Uganda.

**PI 620128 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31443; Kigufu; US 599. . Collected in Uganda.

**PI 620129 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31444; US 600. . Collected in Uganda.

**PI 620130 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31445; US 601. . Collected in Uganda.

**PI 620131 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31446; US 603. . Collected in Uganda.

**PI 620132 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31447; US 604. . Collected in Uganda.

**PI 620133 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31448; US 605. . Collected in Uganda.

**PI 620134 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31449; Katambiodo; US 606. . Collected in Uganda.

**PI 620135 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31450; Kabusimu; US 607. . Collected in Uganda.

**PI 620136 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31451; Kabusiba I; US 608. . Collected in Uganda.

**PI 620137 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31452; Majoro; US 609. . Collected in Uganda.

**PI 620138 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31453; Kabusiba II; US 610. . Collected in Uganda.

**PI 620139 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31454; Majoro II; US 611. . Collected in Uganda.

**PI 620140 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31456; US 613. . Collected in Uganda.

**PI 620141 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31457; US 614. . Collected in Uganda.

**PI 620142 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31458; US 615. . Collected in Uganda.

**PI 620143 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31459; US 616. . Collected in Uganda.

**PI 620144 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31460; Kabwaga; US 617. . Collected in Uganda.

**PI 620145 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31461; Mpwera; US 618. . Collected in Uganda.

**PI 620146 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31463; Nyaburo; US 620. . Collected in Uganda.

**PI 620147 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31464; Mpwera II; US 621. . Collected in Uganda.

**PI 620148 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31466; Kabwaga; US 623. . Collected in Uganda.

**PI 620149 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31467; Nkumba; US 624. . Collected in Uganda.

**PI 620150 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31468; US 625. . Collected in Uganda.

**PI 620151 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31469; US 626. . Collected in Uganda.

**PI 620152 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31470; US 627. . Collected in Uganda.

**PI 620153 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31471; US 628. . Collected in Uganda.

**PI 620154 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31472; Nkumba; US 629. . Collected in Uganda.

**PI 620155 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31473; Emperwa; US 630. . Collected in Uganda.

**PI 620156 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31474; US 631. . Collected in Uganda.

**PI 620157 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31475; US 632. . Collected in Uganda.

**PI 620158 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31476; US 633. . Collected in Uganda.

**PI 620159 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31477; Kanyeyerere; US 634. . Collected in Uganda.

**PI 620160 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31478; Rwakatima; US 635. . Collected in Uganda.

**PI 620161 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31480; Rutanga; US 637. . Collected in Uganda.

**PI 620162 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31481; US 638. . Collected in Uganda.

**PI 620163 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31482; Ompwera; US 639. . Collected in Uganda.

**PI 620164 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31483; Rwemeraea; US 640. . Collected in Uganda.

**PI 620165 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31485; Magune; US 642. . Collected in Uganda.

**PI 620166 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31487; Mayondo; US 644. . Collected in Uganda.

**PI 620167 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31488; Rukondo; US 645. . Collected in Uganda.

**PI 620168 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31489; Kankondo; US 646. . Collected in Uganda.

**PI 620169 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31490; Kazanza; US 647. . Collected in Uganda.

**PI 620170 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31491; Namatera; US 648. . Collected in Uganda.

**PI 620171 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31493; Namatera; US 650. . Collected in Uganda.

**PI 620172 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31494; Kayini; US 651. . Collected in Uganda.

**PI 620173 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31495; US 652. . Collected in Uganda.

**PI 620174 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31499; Namatera-kaeini; US 656. . Collected in Uganda.

**PI 620175 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31502; Namatera 1; US 659. . Collected in Uganda.

**PI 620176 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31503; Namatera 2; US 660. . Collected in Uganda.

**PI 620177 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31504; Katome; US 661. . Collected in Uganda.

**PI 620178 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31505; Namatera; US 662. . Collected in Uganda.

**PI 620179 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31506; Katomi; US 663. . Collected in Uganda.

**PI 620180 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31507; US 664. . Collected in Uganda.

**PI 620181 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31508; US 665. . Collected in Uganda.

**PI 620182 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31509; US 666. . Collected in Uganda.

**PI 620183 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31510; Lubere; US 667. . Collected in Uganda.

**PI 620184 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31513; Masansabali II; US 670. . Collected in Uganda.

**PI 620185 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 31514; Namatera-kukondo; US 671. . Collected in Uganda.

**PI 620186 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31516; US 673. . Collected in Uganda.

**PI 620187 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31517; Namatera-kabale; US 675. . Collected in Uganda.

**PI 620188 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31519; Magu No. 1; US 677. . Collected in Uganda.

**PI 620189 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31520; Magu No. 2; US 678. . Collected in Uganda.

**PI 620190 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31523; US 817. . Collected in Uganda.

**PI 620191 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31524; US 1022. . Collected in Uganda.

**PI 620192 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 31525; US 5271. . Collected in Uganda.

**PI 620193 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32264; PC 1. . Collected in India.

**PI 620194 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32265; PC 6. . Collected in India.

**PI 620195 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32266; PC 9. . Collected in India.

**PI 620196 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32267; PC 11. . Collected in India.

**PI 620197 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32268; PC 16. . Collected in India.

**PI 620198 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32269; PC 18. . Collected in India.

**PI 620199 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32270; PC 19. . Collected in India.

**PI 620200 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32271; PC 21. . Collected in India.

**PI 620201 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32272; PC 23. . Collected in India.

**PI 620202 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32273; PC 28. . Collected in India.

**PI 620203 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32274; PC 29. . Collected in India.

**PI 620204 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 32276; PC 53. . Collected in India.

**PI 620205 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32277; PC 54. . Collected in India.

**PI 620206 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32278; PC 56. . Collected in India.

**PI 620207 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32279; PC 57. . Collected in India.

**PI 620208 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32280; PC 62. . Collected in India.

**PI 620209 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32281; PC 63. . Collected in India.

**PI 620210 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32282; PC 65. . Collected in India.

**PI 620211 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32283; PC 66. . Collected in India.

**PI 620212 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32284; PC 67. . Collected in India.

**PI 620213 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32286; PC 70. . Collected in India.

**PI 620214 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32287; PC 72. . Collected in India.

**PI 620215 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32288; PC 74. . Collected in India.

**PI 620216 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32289; PC 75. . Collected in India.

**PI 620217 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32290; PC 76. . Collected in India.

**PI 620218 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32291; PC 77. . Collected in India.

**PI 620219 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32292; PC 78. . Collected in India.

**PI 620220 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32293; PC 79. . Collected in India.

**PI 620221 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32294; PC 80. . Collected in India.

**PI 620222 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32295; PC 81. . Collected in India.

**PI 620223 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 32296; PC 82. . Collected in India.

**PI 620224 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32297; SAR 1. . Collected in India.

**PI 620225 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32298; SAR 2. . Collected in India.

**PI 620226 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32299; SAR 3. . Collected in India.

**PI 620227 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32300; SAR 4. . Collected in India.

**PI 620228 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32301; SAR 5. . Collected in India.

**PI 620229 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32303; SAR 9. . Collected in India.

**PI 620230 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32305; SAR 11. . Collected in India.

**PI 620231 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32306; SAR 12. . Collected in India.

**PI 620232 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32308; SAR 14. . Collected in India.

**PI 620233 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32309; SAR 15. . Collected in India.

**PI 620234 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32310; SAR 16. . Collected in India.

**PI 620235 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32311; SAR 19. . Collected in India.

**PI 620236 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32312; SAR 20. . Collected in India.

**PI 620237 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32313; SAR 21. . Collected in India.

**PI 620238 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32314; SAR 22. . Collected in India.

**PI 620239 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32315; SAR 23. . Collected in India.

**PI 620240 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32316; SAR 24. . Collected in India.

**PI 620241 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32317; SAR 25. . Collected in India.

**PI 620242 QUAR. Sorghum bicolor** (L.) Moench

Landrace. IS 32318; SAR 26. . Collected in India.

**PI 620243 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32319; SAR 27. . Collected in India.

**PI 620244 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32320; SAR 28. . Collected in India.

**PI 620245 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32321; SAR 29. . Collected in India.

**PI 620246 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32322; SAR 30. . Collected in India.

**PI 620247 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32323; SAR 31. . Collected in India.

**PI 620248 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32324; SAR 32. . Collected in India.

**PI 620249 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32325; SAR 33. . Collected in India.

**PI 620250 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32326; SAR 34. . Collected in India.

**PI 620251 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. IS 32327; SAR 35. . Collected in India.

The following were collected by M.N. Koppar, Nat. Bureau of Plant Genetic Resources, Germplasm Exploration Div., Indian Council of Ag. Res., New Delhi, Delhi 110 012, India; S. Appa Rao, Int. Crops Res. Inst. for the Semi-Arid Tropics, Germplasm Resources Unit, Patancheru, Andhra Pradesh 502 324, India; V. Gopal Reddy, Int. Crops Res. Inst. for the Semi-Arid Tropics, Genetic Resources Division, Patancheru, Andhra Pradesh 502324, India. Donated by N Kameswara Rao, ICRISAT, Genetic Resources and Enhancement Program, Patancheru, Andhra Pradesh 502 324, India. Received 10/03/2001.

**PI 620252 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 7; IS 32329. . Collected 11/14/1986 in Orissa, India.

**PI 620253 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 11; IS 32333; Sattara jonnalu. . Collected 11/14/1986 in Orissa, India.

**PI 620254 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 12; IS 32334; Sattara jonnalu. . Collected 11/14/1986 in Orissa, India.

**PI 620255 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 39; IS 32339. . Collected 11/14/1986 in Orissa, India.

**PI 620256 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 44; IS 32341. . Collected 11/14/1986 in Orissa, India.

**PI 620257 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 51; IS 32343; Sattara jonnalu. . Collected 11/14/1986 in Orissa, India.

**PI 620258 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 54; IS 32344. . Collected 11/14/1986 in Orissa, India.

**PI 620259 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 63; IS 32345. . Collected 11/14/1986 in Orissa, India.

**PI 620260 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 64; IS 32346. . Collected 11/14/1986 in Orissa, India.

**PI 620261 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 69; IS 32348. . Collected 11/14/1986 in Orissa, India.

**PI 620262 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 70; IS 32349. . Collected 11/14/1986 in Orissa, India.

**PI 620263 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 72; IS 32350. . Collected 11/14/1986 in Orissa, India.

**PI 620264 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 74; IS 32352. . Collected 11/14/1986 in Orissa, India.

**PI 620265 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 78; IS 32355; Khedi jonna. . Collected 11/15/1986 in Orissa, India.

**PI 620266 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 87; IS 32358. . Collected 11/15/1986 in Orissa, India.

**PI 620267 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 88; IS 32359. . Collected 11/15/1986 in Orissa, India.

**PI 620268 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 90; IS 32360. . Collected 11/15/1986 in Orissa, India.

**PI 620269 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 91; IS 32361. . Collected 11/15/1986 in Orissa, India.

**PI 620270 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 94; IS 32365. . Collected 11/15/1986 in Orissa, India.

**PI 620271 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 95; IS 32366. . Collected 11/15/1986 in Orissa, India.

**PI 620272 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 96; IS 32367. . Collected 11/15/1986 in Orissa, India.

**PI 620273 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 97; IS 32368; Raksee. . Collected 11/15/1986 in Orissa, India.

**PI 620274 QUAR. Sorghum bicolor** (L.) Moench

Landrace. AKG 101; IS 32370; Raksee. . Collected 11/15/1986 in Orissa, India.

PI 620275 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 102; IS 32371. . Collected 11/15/1986 in Orissa, India.

PI 620276 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 105; IS 32375. . Collected 11/16/1986 in Orissa, India.

PI 620277 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 109; IS 32376. . Collected 11/16/1986 in Orissa, India.

PI 620278 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 113; IS 32379. . Collected 11/16/1986 in Orissa, India.

PI 620279 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 114; IS 32380. . Collected 11/16/1986 in Orissa, India.

PI 620280 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 116; IS 32381. . Collected 11/16/1986 in Orissa, India.

PI 620281 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 117; IS 32382. . Collected 11/16/1986 in Orissa, India.

PI 620282 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 118; IS 32383. . Collected 11/16/1986 in Orissa, India.

PI 620283 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 123; IS 32385; Gangai. . Collected 11/16/1986 in Orissa,  
India.

PI 620284 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 126; IS 32387; Gangai. . Collected 11/16/1986 in Bihar,  
India.

PI 620285 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 127; IS 32388; Gangai. . Collected 11/16/1986 in Bihar,  
India.

PI 620286 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 128; IS 32389. . Collected 11/16/1986 in Bihar, India.

PI 620287 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 129; IS 32390. . Collected 11/16/1986 in Bihar, India.

PI 620288 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 130; IS 32391; Gangai. . Collected 11/16/1986 in Bihar,  
India.

PI 620289 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 132; IS 32393; Gangai. . Collected 11/16/1986 in Bihar,  
India.

PI 620290 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 134; IS 32395. . Collected 11/16/1986 in Bihar, India.

PI 620291 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 135; IS 32396; Gangai. . Collected 11/17/1986 in Bihar,  
India.

- PI 620292 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 137; IS 32397; Gangai. . Collected 11/17/1986 in Bihar,  
India.
- PI 620293 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 138; IS 32398. . Collected 11/17/1986 in Bihar, India.
- PI 620294 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 139; IS 32399. . Collected 11/17/1986 in Bihar, India.
- PI 620295 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 141; IS 32400. . Collected 11/17/1986 in Bihar, India.
- PI 620296 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 156; IS 32401. . Collected 11/18/1986 in Bihar, India.
- PI 620297 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 157; IS 32402; Bajra. . Collected 11/18/1986 in Bihar,  
India.
- PI 620298 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 163; IS 32405. . Collected 11/19/1986 in Bihar, India.
- PI 620299 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 166; IS 32406; Bajra. . Collected 11/19/1986 in Bihar,  
India.
- PI 620300 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 167; IS 32407. . Collected 11/19/1986 in Bihar, India.
- PI 620301 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 172; IS 32410. . Collected 11/19/1986 in Bihar, India.
- PI 620302 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 181; IS 32414. . Collected 11/19/1986 in Bihar, India.
- PI 620303 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 184; IS 32415. . Collected 11/19/1986 in Bihar, India.
- PI 620304 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 186; IS 32416; Bajra. . Collected 11/19/1986 in Bihar,  
India.
- PI 620305 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 188; IS 32417; Bajra. . Collected 11/19/1986 in Bihar,  
India.
- PI 620306 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 191; IS 32419. . Collected 11/19/1986 in Bihar, India.
- PI 620307 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 194; IS 32420; Bajra. . Collected 11/19/1986 in Bihar,  
India.
- PI 620308 QUAR. *Sorghum bicolor* (L.) Moench  
Landrace. AKG 195; IS 32421; Bajra. . Collected 11/19/1986 in Bihar,  
India.

- PI 620309 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 201; IS 32422. . Collected 11/19/1986 in Bihar, India.
- PI 620310 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 202; IS 32423; Bajra. . Collected 11/19/1986 in Bihar, India.
- PI 620311 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 203; IS 32425; Bajra. . Collected 11/19/1986 in Bihar, India.
- PI 620312 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 207; IS 32426; Bajra. . Collected 11/20/1986 in Bihar, India.
- PI 620313 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 214; IS 32427. . Collected 11/20/1986 in Bihar, India.
- PI 620314 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 216; IS 32429; Sisua. . Collected 11/20/1986 in Bihar, India.
- PI 620315 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 217; IS 32430. . Collected 11/20/1986 in Bihar, India.
- PI 620316 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 220; IS 32432; Kassava. . Collected 11/21/1986 in Bihar, India.
- PI 620317 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 222; IS 32434; Kassava. . Collected 11/21/1986 in Bihar, India.
- PI 620318 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 225; IS 32436; Kassava. . Collected 11/21/1986 in Bihar, India.
- PI 620319 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 228; IS 32439; Kassava. . Collected 11/21/1986 in Bihar, India.
- PI 620320 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 229; IS 32440; Kassava. . Collected 11/21/1986 in Bihar, India.
- PI 620321 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 231; IS 32441. . Collected 11/21/1986 in Bihar, India.
- PI 620322 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 232; IS 32442. . Collected 11/21/1986 in Bihar, India.
- PI 620323 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 233; IS 32443. . Collected 11/21/1986 in Bihar, India.
- PI 620324 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 234; IS 32444. . Collected 11/21/1986 in Bihar, India.

- PI 620325 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 237; IS 32446. . Collected 11/21/1986 in Bihar, India.
- PI 620326 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 239; IS 32449; Nambia. . Collected 11/21/1986 in Bihar,  
India.
- PI 620327 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 240; IS 32450. . Collected 11/21/1986 in Bihar, India.
- PI 620328 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 241; IS 32451. . Collected 11/21/1986 in Bihar, India.
- PI 620329 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 243; IS 32452; Ouldubia. . Collected 11/21/1986 in Bihar,  
India.
- PI 620330 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 247; IS 32453. . Collected 11/21/1986 in Bihar, India.
- PI 620331 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 249; IS 32454; Binora. . Collected 11/21/1986 in Bihar,  
India.
- PI 620332 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 252; IS 32456. . Collected 11/22/1986 in Bihar, India.
- PI 620333 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 253; IS 32457. . Collected 11/22/1986 in Bihar, India.
- PI 620334 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 254; IS 32458. . Collected 11/22/1986 in Bihar, India.
- PI 620335 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 262; IS 32462. . Collected 11/23/1986 in Madhya Pradesh,  
India.
- PI 620336 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 266; IS 32465; Bajra. . Collected 11/23/1986 in Madhya  
Pradesh, India.
- PI 620337 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 268; IS 32468; Bajra. . Collected 11/23/1986 in Madhya  
Pradesh, India.
- PI 620338 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 284; IS 32473. . Collected 11/23/1986 in Madhya Pradesh,  
India.
- PI 620339 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 292; IS 32474. . Collected 11/23/1986 in Madhya Pradesh,  
India.
- PI 620340 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 294; IS 32475; Bajra. . Collected 11/23/1986 in Madhya  
Pradesh, India.

- PI 620341 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 295; IS 32476. . Collected 11/23/1986 in Madhya Pradesh,  
India.
- PI 620342 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 296; IS 32477. . Collected 11/23/1986 in Madhya Pradesh,  
India.
- PI 620343 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 302; IS 32478; Jowar. . Collected 11/24/1986 in Madhya  
Pradesh, India.
- PI 620344 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 303; IS 32479; Jowar. . Collected 11/24/1986 in Madhya  
Pradesh, India.
- PI 620345 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 307; IS 32480; Jowar. . Collected 11/24/1986 in Madhya  
Pradesh, India.
- PI 620346 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 309; IS 32481; Jowar. . Collected 11/24/1986 in Madhya  
Pradesh, India.
- PI 620347 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 313; IS 32482. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620348 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 319; IS 32486. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620349 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 320; IS 32487. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620350 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 324; IS 32489. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620351 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 325; IS 32490. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620352 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 327; IS 32491. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620353 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 328; IS 32492. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620354 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 329; IS 32493. . Collected 11/24/1986 in Madhya Pradesh,  
India.

- PI 620355 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 331; IS 32494. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620356 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 332; IS 32495. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620357 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 335; IS 32497. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620358 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 336; IS 32499. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620359 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 337; IS 32500. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620360 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 338; IS 32501. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620361 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 341; IS 32503. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620362 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 342; IS 32504. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620363 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 349; IS 32506. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620364 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 351; IS 32507. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620365 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 353; IS 32509. . Collected 11/24/1986 in Madhya Pradesh,  
India.
- PI 620366 QUAR. Sorghum bicolor** (L.) Moench  
Landrace. AKG 355; IS 32510. . Collected 11/24/1986 in Andhra Pradesh,  
India.