

inaequalis.

The following were donated by Jeff Crosby, Purdue University, Dept. of Botany & Plant Pathology, Lilly Hall of Life Sciences, West Lafayette, Indiana 47909, United States. Received 09/18/1987.

**PI 594110. *Malus baccata* (L.) Borkh.**

Uncertain. GMAL 2460; Jackii. Pedigree - Dg-R27T1 and 2 resembles the specific description given by Rehder in 1940. Introd. in 1905 by J.G. Jack. Fruit size 0.4". Resistant to *Venturia inaequalis*. Flower single, white, 35 mm dia. Fruit glossy, bright red, one of most attractive, long stems. Tree vigorous, upright habit.

The following were developed by Purdue University, Indiana Agr. Exp. Station, West Lafayette, Indiana 47907, United States. Donated by Rutgers Fruit Research Center, Cream Ridge, New Jersey 08514, United States. Received 08/29/1988.

**PI 594111. *Malus domestica* Borkh.**

Uncertain. GMAL 2875; Redfree. Fruit medium size, glossy with 90% bright red color. Smooth waxy, russet-free skin. Light flesh crisp and juicy, excellent flavor. Tree bears annually. Immune to scab and cedar-apple rust. Moderately resistant to fire blight and mildew. Ripens five days before Paulared, six weeks before Red Delicious. Uneven ripening, may require two pickings.

The following were collected by T.R. Dudley, U.S. National Arboretum, USDA, ARS, 3501 New York Avenue, N.E., Washington, District of Columbia 20002, United States. Donated by Rob Nicholson, The Arnold Arboretum of Harvard Univ., The Arborway, Jamaica Plain, Massachusetts 02130, United States. Received 03/22/1989.

**PI 594112. *Malus halliana* Koehne**

Wild. GMAL 3143. Collected 1980 in China. Latitude 32 deg. N. Longitude 110 deg. E. Shennongia Forest District, northwestern part of Hubei Province, bounded on the west by Sichuan Province and on the south by the confluence of the Juichong and Dangyang Rivers. Complex topography of steep mountainous terrain with rich and varied flora (including relict families, genera and species).

The following were donated by Zhen Long Yan, Beijing Botanical Garden, Institute of Botany, Academia Sinica, Beijing, China. Received 10/02/1989.

**PI 594113. *Malus honanensis* Rehder**

Uncertain. GMAL 3238.

The following were collected by A. Guerrero. Donated by Paul W. Bosland, New Mexico State University, Department of Agronomy & Horticulture, Box 30003 - Dept. 3Q, Las Cruces, New Mexico 88003, United States. Received 01/03/1995.