

PI 589284. *Malus hybrid*
Cascade; 193 EM; GMAL 1386. Pedigree - Red Jade x Zumi Calocarpa 152EM2

PI 589285. *Malus hybrid*
Schinto; 186 EM; GMAL 1387. Pedigree - sieboldii hybrid.

The following were donated by Arie den Boer, Den Boer Arboretum, Des Moines, Iowa 50318, United States. Received 01/20/1983.

PI 589286. *Malus x robusta* (Carriere) Rehder
Fastigata; B 63521; GMAL 1388; NA 38535.

The following were donated by USDA, ARS, U.S. National Arboretum, National Germplasm Repository, Washington, District of Columbia 20002, United States. Received 01/20/1983.

PI 589287. *Malus pumila* Miller
Niedzwetzkyana; NA 38534; GMAL 1389.

PI 589288. *Malus hybrid*
Unnamed; 163 EM; GMAL 1390.

The following were donated by John Fiala, 7359 Branch Road, Medina, Ohio 44256, United States. Received 11/21/1984.

PI 589289. *Malus hybrid*
183 EM; GMAL 1391.

The following were donated by A.D. Grove, Research Station, Kentville, Nova Scotia, Canada. Received 03/30/1976.

PI 589290. *Malus hybrid*
C-13-30-88; A 65966; GMAL 1409.

The following were developed by Cornell University, New York Agr. Exp. Station, Geneva, New York 14456, United States. Donated by Roger D. Way, Cornell University, New York State Agric. Exp. Station, Department of Horticulture, Geneva, New York 14456-0462, United States. Received 01/03/1986.

PI 589291. *Malus domestica* Borkh.
Bean. Pedigree - Golden Delicious x Flower of Kent Seeds were carried around the moon in the early 1970's by Astronaut Bean on Apollo 13 Flight. Comments:: Fruit: small, 30-40 mm: green; flesh firm, white; slightly acid, poor quality; worthless. Seeds went around the moon.

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 01/03/1986.

PI 589292. *Malus domestica* Borkh.
Delicious x Pyrus sp.. Pedigree - Delicious x Pyrus crab species F1. Comments:: Fruit: crab: size small, 45-60 mm; skin yellow-green, 10% orange blush; shape oblong, slightly pear shaped, shallow cavity; stem long; flesh firm, light yellow; flavor acid, astringent, bitter; eating quality poor; harvest season early October. Tree: productive; cropping