

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 589298. *Malus domestica* Borkh.

Lovell. Pedigree - Golden Delicious x Flower of Kent; cross made by Carlton Cain in the early 1970's; seeds were carried around the moon by Lovell. Comments:: Fruit: size, medium, 75 mm; skin 80-90% red, striped; shape round-oblate; flesh firm, cream-colored; flavor slightly acid; eating quality below fair; harvest season mid-September, 3 wks before Delicious. Tree: unproductive; fruits drop before ripe. Red, mediocre quality, astronaut apple.

The following were developed by John Innes Horticultural Institute, Hertford, Herts, Bayfordbury, England, United Kingdom. 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 589299. *Malus domestica* Borkh.

Merton Joy. Pedigree - JI 855 (Cox's Orange Pippin x Sturmer Pippin) x Cox's Orange Pippin; raised 1946; named 1965. Comments:: Fruit: size above medium, 70-80mm; skin 70-100% red, striped; shape round-oblate; flesh semifirm, light yellow; flavor subacid; eating quality fair to good; harvest season mid-September, 3 wks before Delicious. Tree: not highly productive; biennial cropping. Mostly red, early mid-season English. R.D. Way, 1992.

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PI 589300. *Malus domestica* Borkh.

Mucina. Comments:: Fruit: size medium, 65-70mm; skin yellow-green; shape conic flesh soft, nearly white; flavor subacid; eating quality below fair; harvest season early September-ripens unevenly, 4 wks before Delicious. Tree: not productive; annual bearing. Worthless. R.D. Way, 1992.

PI 589301. *Malus domestica* Borkh.

Ortley. Collected in Unknown. USA, New Jersey, in the orchard of Michael Ortley. Pedigree - Unknown; Described 1817 as Woolman's Lone Pippin; renamed Ortley 1825; renamed Cleopatra 1872. Comments:: Also see P.I. 13788, P.I. 206024. Fruit: size medium, 70- 80 mm; skin yellow-green, not greasy; shape conic; flesh firm, cream-colored; flavor subacid; eating quality fair; harvest season very late, beginning November, 3 wks after Delicious. Tree: productive; annual bearer. Yellow-green, late. R.D. Way, 1992.

The following were developed by Canada Department of Agriculture, Central Experiment Farm, Ottawa, Ontario, Canada. 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 589302. *Malus domestica* Borkh.

Ottawa SRO 522. Pedigree - Swayzie seedling; selected about 1954; never introduced. Comments:: Fruit: size medium, 65-75 mm; skin 50-80% red, striped; shape round-conic; flesh soft, nearly white; flavor subacid; eating quality fair; harvest season mid to late September, 3 wks before