

The following were developed by Richard Wellington, Geneva, New York, 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 06/24/1985.

PI 589085. *Malus x arnoldiana* (Rehder) Sarg. ex Rehder

Cardinal. Pedigree - Introduced in 1961. Plant pat. 2,035; Mar. 21, 1961; assigned to Stark Bros. Nurseries & Orchards Co., Louisiana, Missouri. Considered to be a sdlg. of *Malus arnoldiana*; disc in 1946. *Malus arnoldiana* - open pollinated?. Comments:: Fruit: crab; averaging 1 1/2 in. in diam.; skin solid, bright crimson, thin, smooth, glossy, waxy, bloom scant; flesh white, juicy, firm sprightly, aroma distinct, quality good; keeping quality medium, about 30 days in ordinary storage; usage local, culinary, being excellent for jelly; form conical, slightly ribbed; picking season about Sept. 20 to Oct. 15; fruit will hang all winter. Tree; large; vigorous; upright but drooping after fruiting; hardy; very productive; bears regularly; good resistance to scab, fire-blight, insect injury; flowers; med., late bloom avg. May 9.

The following were developed by H.M. Lyman. 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 589086. *Malus domestica* Borkh.

Lyman Prolific. Pedigree - Originated before 1916. Comments:: Fruit: crab apple, small, 25-45 mm; skin 50-100% red, striped, unattractive; shape round-conic; flesh firm, yellow. Flavor subacid, slightly astringent; eating quality poor to fair; harvest season late August, 5 wks before Delicious. Tree: nonprecocious, very unproductive; fruits drop as they ripen; fire blight susceptibility rating 6. R.D. Way, 1991.

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PI 589087. *Malus domestica* Borkh.

Red Sauce. Pedigree - Deacon Jones x Wealthy; crossed 1910; selected 1920; intro. 1920. Comments:: Fruit: size medium to large, 70-80 mm; skin 90-100% dark red, striped; shape round-conic; flesh semifirm, reddish tinge external to vascular bundles, white center; flavor acid, astringent; eating quality poor; harvest season early October, with Delicious. Tree: medium productive; biennial cropping. Makes red applesauce. --R.D. Way, 1992.

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PI 589088. *Malus domestica* Borkh.

M.27.

PI 589089. *Malus sikkimensis* (Wenzig) Koehne ex C. Schneider

Collected in Unknown. Himalaya; introduced into US about 1895. Comments:: Flowers: blooms very late; not ornamental; single 25mm wide; white. Fruit: 15-25 mm; color 100% blushed, dull, greenish red. Tree: spiny branches; alternate bearer. Not ornamental.