

flowering crab apple. R.D. Way.

The following were developed by N.E. Hansen, Agricultural College of South Dakota, Brookings, South Dakota, 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 589010. *Malus hybrid*

Redflesh. Pedigree - *Malus pumila* Niedzwetzkyana x *M. coronaria* cv. Elk River; intro. 1928. Comments:: Flower: single: 45 mm diam; carmine buds and flowers fading to dull pink. Fruit: size 40-45 mm; skin red; shape oblong; flesh red; flavor astringent; eating quality inedible; ripening season late September, 2 wks before Delicious. Tree: greenish bronze foliage; strongly alternate bearing; red flesh crab apple. --R.D. Way, 1992.

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PI 589011. *Malus sargentii* Rehder

Collected in Unknown. Japan; introduced into US in 1892 by Arnold Arboretum. Comments:: Flowers: single; 25 mm wide; white. Fruit: borne in clusters; 10-25 mm; round; red; attractive berrylike. Tree: smallest of the crab apple trees, 2m tall; alternate bearer. Small trees; fruits berrylike.

PI 589012. *Malus domestica* Borkh.

Fall Russet. Pedigree - Unknown. Introd. 1875. Comments:: Fruit: size medium, 65mm; skin russet; shape round-oblate; flesh semifirm, cream-colored; flavor subacid; eating quality food; harvest season late September, 2 wks before Delicious. Tree: strongly biennial. Russet, good quality.

PI 589013. *Malus halliana* Koehne

Spontanea. Collected in Unknown. Japan, Kyushu Mountains. Introduced into US by Arnold Arboretum in 1919 from a plant collected by E.H. Wilson in Japan. Comments:: Flowers: single; white; blooms in alternate years. Tree: small. See *Malus halliana*.

PI 589014. *Malus coronaria* (L.) Miller

Elonga. Pedigree - Introduced about 1912. Comments:: Flowers: light pink, attractive. Tree: heavily cropping branches spiny; leaves lobed. Similar to *coronaria*.

PI 589015. *Malus domestica* Borkh.

Early Harvest. Pedigree - Unknown; In existence early 1800's or before. Comments:: Fruit: size medium, 50-70 mm; skin yellowish-green; shape round-oblate; flesh soft, nearly white, sometimes watercore; flavor subacid; eating quality fair; harvest season very early, late July. Tree: medium productivity; somewhat biennial. Very early, yellow-green.

PI 589016. *Malus x purpurea* (Barbier) Rehder

Aldenhamensis. Pedigree - *Atrosanguinea* x *Niedzwetzkyana*; introduced into US in 1923 by Arnold Arboretum. A chance seedling about 1915 at Aldenham House, Elstree, Hertfordshire, England. Comments:: Flowers: single and semidouble, 5-11 petals; large, 40-45 mm wide; purplish red; attractive; blooms late; frequently blooms again in late September. Fruit: 20-25 mm; brownish purple, russet streaks; shape oblate; stems long (65 mm); calyx protruding and persistent. Foliage: bronze. Tree: