

baccata, 25-35 mm; skin 100% red, blushed, attractive; shape round-oblate; ripening season, late September, 1 wk before Delicious. Tree: vigorous; medium productive; annual; very resistant to fire blight. Flowering crab.

The following were developed by Niels E. Hansen, S.D. Agr. Expt. Sta., 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 588990. Malus hybrid

Hopa. Pedigree - *Malus pumila* x *Malus baccata*; introduced 1920. Comments:: Flowers: single; size 43 mm; expanding buds dark red to purplish red; open rose pink with almost white star on the center. Fruit: size 25 mm; bright red, usually yellowish on shaded side; shade somewhat oval; flesh pink; calyx deciduous; flavor extremely astringent; borne in clusters; harvest season late September, 2 wks before Delicious. Tree: heavy, annual cropper; leaves reddish tinge. Ornamental crab.

The following were developed by E.A. Bechtel, Staunton, Illinois, 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 588991. Malus ioensis (Alph. Wood) Britton

Bechtel Crab. Pedigree - Double-flowered natural mutation of *Malus ioensis*. Discovered in Staunton, Ill. by E.A. Bechtel between 1840 and 1850; introduced 1888. Comments:: Flowers: double, about 33 petals; large, 50 mm wide; light pink; attractive ornamental; blooms late. Fruits: 30 mm; green, greasy. Tree: small to medium; very light cropping; annual bearer; very susceptible to cedar-apple rust. Double-flowered Iowa crab.

The following were developed by Inelis Nursery, Ohio, 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 588992. Malus domestica Borkh.

White Angel. Pedigree - Unknown; chance seedling; originated about 1947; introduced 1962. Comments:: Flower: single; pure white; attractive; 26 mm diam. Fruit: size 20 mm diam; skin glossy scarlet red, attractive; calyx protruding, sometimes Deciduous; fruits persistent. Tree: upright, spreading, somewhat open; leaves glossy green; disease resistant. One of best flowering crabs. Ornamental flowering crab tree. R.D. Way, 1993.

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 06/24/1985.

PI 588993. Malus x robusta (Carriere) Rehder

Pedigree - *M. baccata* x *M. prunifolia*; grown at Arnold Arboretum from seed sent in 1904 by C.S. Sargent from Peking, China. Introduced by Arnold Arboretum. Comments:: Flowers: single; 45 mm wide; white, some clones pinkish; very early blooming. Fruit: 30-35 mm; red or yellow, many different clones. Tree: medium size; alternate bearer. Cherry-like fruits.