

479584 TO 479593-continued

- tall, multitrunked from base, erect. Branches spreading. Leaves deep green above, glaucous beneath. Reddish petioles, dark brown shiny twigs, reddish resinous buds. Fruit globose, orange. Growing on open woodland on hillside with *Betula ermanii* & *Pinus pumila*. Seed collected from 2 trees. Wild. Seed.
479588. JH-125-82. Japan. US National Arboretum. 51143. Collected September 22, 1982. Akkeshi Prefectural Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 70m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow 40cm, deepest 1.3m. Minimum temperature -20C. Tree deciduous, 6m tall, multitrunked from base. Leaves bright green above, glaucous beneath. Fruit orange. Growing in mixed woodland in field 41. Seed collected from one tree. Wild. Seed.
479589. JH-161-82. Japan. US National Arboretum. 51183. Collected September 25, 1982. SW slope of Mt Iwo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow 60cm per annum. Minimum temperature -25C. Tree deciduous, or long shrub, 4.5-6m tall, multistemmed from base. Bark smooth, dark brown, somewhat lustrous. Leaves bright green above, pale beneath. Fruit orange-red to red, shiny, large. Growing in mixed woodland on steep, bushy, open slope. Seed collected from 2 plants. Wild. Seed.
479590. JH-162-82. Japan. US National Arboretum. 51184. Collected September 25, 1982. SW slope of Mt Iwo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow 60cm per annum. Minimum temperature -25C. Tree deciduous, or large shrub, 4.6-6.1m tall, multistemmed from base. Bark smooth, dark brown, somewhat lustrous. Leaves bright green above, pale beneath. Fruit orange-red to red, shiny. Growing on steep bushy open slope. Seed collected from 2 plants. Wild. Seed.
479591. JH-194-82. Japan. US National Arboretum. 51211. Collected September 28, 1982. Arboretum, Tokyo Univ. Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg. 14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum. Minimum temperature -30C. Tree 5m tall. Seed collected from 2 trees. Cultivated. Seed.
479592. JH-212-82. Japan. US National Arboretum. 51235. Collected September 29, 1982. South slope of Mt Dairoku, Furano-shi, Hokkaido. 1250m. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow cover 2.5m per annum. Minimum temperature -30C. Shrub deciduous, large, 3.5-5m tall. Branches many. Leaves turning red in autumn. Fruit large, orange-red, glossy. Growing in open wooded slope with *Pinus pumila* and *Betula ermanii*. Seed collected from