

479392 TO 479395-continued

N, Long. 144 deg. 23' E. Snow cover 60cm per annum. Minimum temperature -25C. Tree deciduous, small, 5m tall. Branches spreading. Bark smooth, gray. Leaves dark green above, lighter beneath. Fruit purplish red. Seeds embedded in orange aril. Growing along a stream in mixed wood. Seed collected from 3 plants. Wild. Seed.

479395. JH-189-82. Japan. US National Arboretum. 51206. 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 deciduous, small, 5m tall. Branches spreading, open habit, multistemmed. Bark smooth, light gray. Leaves light green above, pale beneath. Fruit red, slightly winged, seeds with orange aril. Seed collected from one tree. Cultivated. Seed.

479396 TO 479401. *Euonymus sieboldiana* Blume (Celastraceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development Center; US National Arboretum; Wooster, Ohio; Washington, D.C.
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479396. JH-35-82. Japan. US National Arboretum. 51055. Collected September 15, 1982. Arboretum, Teshio Forest, Toikanbetsu, Honorobe-cho, Teshio-gun, Hokkaido. Lat. 44 deg. 53' N. Long. 141 deg. 55' E. Snow 1-2 per annum. Minimum temperature -17C. Shrub deciduous, 3m wide, 2m tall. Branches open. Fruits rose pink. Plant introduced from wild. Cultivated. Seed.

479397. JH-116-82. Japan. US National Arboretum. 51140. Collected September 22, 1982. Akkeshi Pref. Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 70m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Shrub deciduous, 1.8-2.1m tall. Branches many, spreading habit. Twigs green, the second year becoming brown. Leaves dark green above, lighter beneath. Fruit rose pink. Growing in woodland in field 47. Seed collected from several plants. Wild. Seed.

479398. JH-246-82. Japan. US National Arboretum. 51264. Collected October 01, 1982. Hokkaido Univ. Tomakomai Exp. Forest, Tomakomai-shi, Hokkaido. Lat. 42 deg. 38' N, Long. 141 deg. 39' E. Snow cover 40cm, ground freeze to 70cm. Minimum temperature -30C. Shrub deciduous, 1.8-2.5m tall, multistemmed from base, forming a spreading crown. Bark smooth, light gray. Leaves dark green above, paler beneath. Fruit variable in color, often rose-reddish.