

479390 TO 479391. *Euonymus oxyphylla* Miq. (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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479390. JH-5-82. US National Arboretum. 51024. Collected September 11, 1982. Togeshita near Rumoi-shi, Hokkaido. 342m. Lat. 43 deg. 53' N, Long. 141 deg. 47' E. Snow cover 50cm or more for 73 days. Minimum temperature -23C. Shrub deciduous, to 3m tall. Branches many. Twigs green. Leaves light green. Fruit round. Growing at edge of open woodland on hillside. Seed from one tree. Wild. Seed.

479391. JH-190-82. US National Arboretum. 51207. 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 wide spreading, light green above, pale beneath. Fruit essentially globose, red. Seeds with orange aril. Seed collected from one tree. Cultivated. Seed.

479392 TO 479395. *Euonymus planipes* (Koehne) Koehne (Celastraceae).

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479392. JH-83-82. Japan. US National Arboretum. 51102. Collected September 18, 1982. Shari National Forest, Utoro, Shari-machi, Shari-gun, Hokkaido. 350m. Lat. 44 deg. 03' N, Long. 145 deg. 0' E. Snow fall 2m per annum. Growing with trees similar to JH-75. Seed collected from several plants. Wild. Seed.

479393. JH-134-82. Japan. US National Arboretum. 51159. Collected September 22, 1982. Akkeshi Prefectural Forest, Kitanosawa, Hamanaka-machi, Akkeshi-gun, Hokkaido. Lat. 42 deg. 59' N, Long. 144 deg. 27' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Shrub deciduous, 1.8-2.1m. Branches upright, spreading. Twigs green, turning brown the second year. Leaves light green above, lighter beneath. Buds green. Growing in woodland. Seed collected from 3 plants. Wild. Seed.

479394. JH-150-82. Japan. US National Arboretum. 51172. Collected September 24, 1982. SE, 3.2km of Lake Kusharo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 35'