

479246-continued

Center; US National Arboretum; Wooster, Ohio; Washington, D.C.

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JH-197-82. Japan. US National Arboretum. 51214. 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 evergreen, 23m tall. Bark smooth, gray. Leaves lustrous, green, radiate on the branches. Seed collected from one tree. Cultivated. Seed.

479247. *Abies mariesii* M. T. Mast. (Pinaceae).

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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JH-345-82. Japan. US National Arboretum. 51364. Collected October 10, 1982. Mt. Tamoyachidake, Rt. 1, Aomori-shi, Aomori-ken, Honshu. 1324m. Lat. 40 deg. 37' N, Long. 140 deg. 56' E. Seed collected from 3 plants. Cultivated. Wild. Seed.

479248 TO 479252: *Abies sachalinensis* (F. Schmidt) M. T. Mast. (Pinaceae).

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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479248. JH-25-82. Japan. US National Arboretum. 51044. Collected September 14, 1982. Dune Forest, Wakasakanai, Toyotomi-machi, Teshio-gun, Hokkaido. Lat. 45 deg. 05' N, Long. 141 deg. 43' E. Evergreen tree 15m tall. Bark smooth, light gray. Leaves lustrous green above, blue green beneath. Cones erect with exserted bracts. Most common conifer of the area. Growing with JH-20-82. Seed from one tree. Wild. Seed.

479249. JH-128-82. Japan. US National Arboretum. 51076. Collected September 22, 1982. Akkeshi Prefectural Forest, Bekambegyu, Akkeshi-machi, Akkeshi-gun, Hokkaido. Lat. 43 deg. 06' N, Long. 145 deg. 0' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Tree evergreen, 12m tall. Branches wide spreading. Bark smooth, whitish. Leaves lustrous green above. Cones purplish. Common in mixed