

479332 TO 479333-continued

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. Several plants collected. Cultivated. Plants.

479333. JH-229-82. Japan. US National Arboretum. 51247. 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. Wild. Plants.

479334 TO 479340. *Carpinus cordata* El. (Betulaceae).

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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479334. JH-77-82. Japan. US National Arboretum. 51096. 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. Tree deciduous, up to 11m tall. Bark smooth, light gray. Leaves dull bright green above. Fruiting catkins pendulous, green. Growing in dense woodland on steep mountain slope, with trees similar to JH-75. Seed collected from 2 trees. Wild. Seed.
479335. JH-145-82. Japan. US National Arboretum. 51167. Collected September 23, 1982. East, 7km of Kushiro along hwy 44, Kushiro-shi, Hokkaido. Lat. 42 deg. 59' N, Long. 144 deg. 27' E. Snow cover 50cm or deeper for 6 days. Minimum temperature -28C. Shrub deciduous, large to small tree, 6m tall. Leaves dark green above, impressed veins, glaucous green beneath. Fruiting aments pendulous. Growing in woodland. Seed collected from 2 plants. Wild. Seed.
479336. JH-148-82. Japan. US National Arboretum. 51170. Collected September 24, 1982. SE, 3.2km of Lake Kusharo, Teshikaga-machi, Kawakami-gun, Hokkaido. Lat. 43 deg. 35' N, Long. 144 deg. 23' E. Snow cover 60cm per annum. Minimum temperature -25C. Tree deciduous, 10m tall. Bark smooth, gray. Leaves light green above, impressed veins, lighter beneath. Fruiting aments pendulous. Growing in woodland. Seed collected from one tree. Wild. Seed.
479337. JH-242-82. Japan. US National Arboretum. 51260. 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.