

479291 TO 479292-continued

Akaigawa, Mori-machi, Kayabe-gun, Hokkaido. 200m. Lat. 42 deg. 0' N, Long. 140 deg. 39' E. Snow cover for 2 days by 50cm or deeper. Minimum temperature -18C. Tree deciduous, 21m tall. Branches ascending. Bark light gray, scaly. Leaves dark green above with impressed veins, pale beneath with raised veins. Fruit egg shaped, yellowish with speckled pericarp, nuts dark brown. Growing in woodland along forest road. Seed collected from one tree. Wild. Seed.

479293 TO 479295. *Alnus hirsuta* (Spach) Rupr. (Betulaceae) Manchurian alder.

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.

Received February 1983.

479293. JH-133-82. Japan. US National Arboretum. 51157. Collected September 22, 1982. Akkeshi Pref. Forest, Bekambegyu, Akkeshi-machi, Akkeshi-gun, Hokkaido. Lat. 43 deg. 6' N, Long. 145 deg. 0' N. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Tree deciduous, 6m tall. Branches spreading. Leaves lustrous deep green above, impressed veins, glaucous beneath. Growing in low swampy places in dense woodland. Wild. Seed.
479294. JH-198-82. Japan. US National Arboretum. 51215. 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, 6m tall. Leaves lustrous, green above, glaucous beneath. Seed collected from one tree. Collected as *A. inokuma*. Cultivated. Seed.
479295. JH-245-82. Japan. US National Arboretum. 51263. 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 per annum, ground freeze to 70cm. Minimum temperature -30C. Tree deciduous, 7.6m tall. Branches spreading. Leaves bright green above with impressed veins, blue green beneath. Growing in woodland along roadside, common. Wild. Seed.

479296 TO 479298. *Alnus japonica* (Thunb.) Steud. (Betulaceae) Japanese alder.

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.; March, S.; Ohio Agricultural Research & Development