

479299 TO 479301-continued

gray. Leaves bright green above, pale beneath. Seed collected from 2 trees. Originally collected as *A. crispa*. Cultivated. Seed.

479301. JH-214-82. Japan. US National Arboretum. 51237. Collected September 29, 1982. South slope of Mt. Dairoku, Furano-shi, Hokkaido. 1100m. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow cover 2.5m per annum. Minimum temperature -30C. Shrub deciduous, 2.5-3m tall, multitrunked from base. Buds dormant, nearly black, shiny. Leaves deep green above, with impressed veins, paler and rugose beneath. Growing in woodland. Seed collected from several plants. Wild. Seed.

479302. *Alnus pendula* Matsum. (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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JH-302-82. Japan. US National Arboretum. 51321. Collected October 08, 1982. Suiiren Numa, Towada-shi, Aomori-ken, Honshu. 1005m. Lat. 40 deg. 37' N, Long. 140 deg. 53' E. Snow cover 2-3m; 58 days covered by 50cm or deeper. Minimum temperature -20C. Shrub low spreading, deciduous, 1.8m tall. Branches many, dark brown, shiny. Bark light gray. Leaves dark green above with strong impressed veins, lighter beneath with raised veins. Growing near pond. Seed collected from several plants. Wild. Seed.

479303. *Alnus* sp. (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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JH-62-82. Japan. US National Arboretum. 51081. Collected September 17, 1982. Abashiri National Forest, Urbar, Abashiri-shi, Hokkaido. 230m. Snow cover 50cm or deeper for 20 days. Minimum temperature -29C. Tree deciduous, 19.8m tall. Bark greenish to brownish. Leaves bright green above, blue green beneath. Common in mixed woodland along forest road. Seed collected from large and small trees. Wild. Seed.