

479432-continued

annum. Minimum temperature -17C. Shrub evergreen, 1.2m. Leaves lustrous above. Fruit black. Seed from one plant moved from wild. Cultivated. Seed.

479433 TO 479434. *Ilex crenata* var. *paludosa* (Nakai) Hara (Aquifoliaceae).

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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479433. JH-310-82. Japan. US National Arboretum. 51324. Collected October 08, 1982. Tsuta Onsen, Towada-shi, Aomori-ken, Honshu. 470m. Snow 2-3m, 58 days of snow cover 50cm or deeper. Minimum temperature -20C. Cuttings collected from one male plant. Wild. Cuttings.

479434. JH-305-82. Japan. US National Arboretum. 51326. Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. 470m. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by 50cm or deeper. Minimum temperature -20C. Shrub evergreen, 1.2-1.7m tall. Branches many, low spreading. Bark smooth, gray. Leaves lustrous above, pale beneath. Fruit nearly black. Growing in marsh on edge of small lake. Seed collected from several plants. Wild. Seed.

479435 TO 479438. *Ilex leucoclada* (Maxim.) Makino (Aquifoliaceae).

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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479435. JH-267-82. Japan. US National Arboretum. 51288. Collected October 05, 1982. Arboretum, Hokkaido Pref. Forest Exp. Sta., Kikyo-machi, Hakodate-shi, Hokkaido. Lat. 41 deg. 49' N, Long. 140 deg. 48' E. Snow cover for 2 days by snow 50cm or deeper. Minimum temperature -18C. Cuttings collected from a female plant moved from Kikonai-machi where it was native. Cultivated. Cuttings.

479436. JH-312-82. Japan. US National Arboretum. 51332. Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow cover 2-3m; 58 days covered by 50cm or deeper. Minimum temperature -20C. Cuttings collected from a male plant. Wild. Cuttings.