

479479 TO 479480-continued

D.C.

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479479. JH-89-82. Japan. US National Arboretum. 51108. Collected September 18, 1982. Shari National Forest, Utoro, Shari-machi, Shari-gun, Hokkaido. 200m. Lat. 44 deg. 03' N, Long. 145 deg. 0' E. Snow fall 2m per annum. Tree deciduous, 9m tall, erect. Bark smooth, light gray. Leaves light green above, lighter beneath. Fruiting cones reddish. Seeds with reddish aril. Growing near stream bank with trees as in JH-85. Seed collected from one tree. Wild. Seed.

479480. JH-273-82. Japan. US National Arboretum. 51295. Collected October 05, 1982. Onuma, Nanae-machi, Kameda-gun, Hokkaido. Lat. 41 deg. 57' N, Long. 140 deg. 42' E. Snow cover for 2 days by 50cm or deeper. Tree deciduous, lofty, 15m tall, upright, spreading habit. Branches spreading. Bark smooth, light gray. Leaves bright green above, somewhat paler beneath. Aril on seeds orange. Growing in woodland of Sasa, beech, Quercus, Acer, Pachysandra, Aesculus, Cephalotaxus. Seed collected from one tree. Wild. Seed.

479481. *Magnolia kobus* var. *borealis* Sarg. (Magnoliaceae).

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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Japan. US National Arboretum. 51422. Hokkaido (Federal) Forest Breeding Station, Hokkaido. Sent to US National Arboretum by Dr. M. Kawase. Collected in Kagura, Asahitsawa-shi. Seed.

479482 TO 479488. *Magnolia obovata* Thunb. (Magnoliaceae).

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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479482. JH-29-82. Japan. US National Arboretum. 51050. Collected September 14, 1982. Kasai-Okuchi area, Hokkaido Univ., Teshio Forest, Horonobe-cho, Teshio-gun. Lat. 45 deg. 0' N, Long. 141 deg. 58' E. Snow 1-2m per annum. Minimum temperature -17C. Tree deciduous, to 9.1m, multitrunked. Branches spreading. Leaves bright green above. Fruit