

479304. *Arachniodes standishii* (T. Moore) Ohwi (Dryopteridaceae).

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.

JH-316-82. Japan. US National Arboretum. 51335. Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. Wild. Plants.

479305. *Aralia cordata* Thunb. (Araliaceae).

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-2-82. Japan. US National Arboretum. 51021. Collected September 11, 1982. Togeshita near Rumoi-shi, Hokkaido. 342m. Lat. 43 deg. 53' N, Long. 141 deg. 47' E. Snow cover 50cm or more for 73 days. Minimum temperature -23C. Perennial large, coarse, to 2m tall. Stems solid, thick, green. Leaves dark green above, light green beneath. Fruit purplish-black on somewhat lax branches. Growing on open hillsides. Seed from several plants. Wild. Seed.

479306. *Arisaema serratum* f. *blumei* Makino (Araceae).

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-239-82. Japan. US National Arboretum. 51257. 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. Perennial from a thick, fleshy tuber-like root, 45-60cm tall, stem and petioles brownish mottled. Leaves dark green above with impressed veins, pale beneath and glossy. Seeds surrounded by thick, fleshy, orange-red aril. Growing in open woodland near headquarters building. Wild. Plants.

479307 TO 479308. *Artemisia stelleriana* Besser (Asteraceae).

From Japan. Collected by Kawase, M.; Nielsen, D.; Meyer, F.;