

479636 TO 479642-continued

479638. JH-27-82. Japan. US National Arboretum. 51045. Collected September 14, 1982. Dune Forest, Wakasakanai, Toyotomi-machi, Teshio-gun, Hokkaido. Lat. 45 deg. 05' N, Long. 141 deg. 43' E. Shrub deciduous, 1.5m tall. Branches open, spreading. Leaves light green, somewhat rugose. Fruit red. Common in woodland. Seed from several plants. Wild. Seed.
479639. JH-44-82. Japan. US National Arboretum. 51062. Collected September 15, 1982. Hokkaido Univ., Uryu Forest, Moshiri, Horokanai-cho, Uryu-gun, Hokkaido. 295m. Snow cover 1.5-2.5m per annum. Minimum temperature -35C. Shrub deciduous, 1.5-1.8m tall. Habit open. Branches spreading. Leaves rugose, dull green but turning red in autumn. Common in mixed woodland near forest field no. 320. Seed from several trees. Wild. Seed.
479640. JH-213-82. Japan. US National Arboretum. 51236. Collected September 29, 1982. South slope of Mt. Dairoku, Furano-shi, Hokkaido. 1200m. Lat. 43 deg. 36' N, Long. 144 deg. 26' E. Snow cover 2.5m per annum. Minimum temperature -30C. Plant 2m tall. Seed collected from one plant. Wild. Seed.
479641. JH-274-82. Japan. US National Arboretum. 51296. Collected October 05, 1982. Onuma, Nanae-machi, Kamada-gun, Hokkaido. Lat. 41 deg. 57' N, Long. 140 deg. 42' E. Snow cover for 2 days by 50cm or deeper. Minimum temperature -18C. Shrub deciduous, 2m tall. Branches wide spreading, dark brown. Trunk bark smooth, light gray. Leaves light green above with impressed veins, rugose beneath. Fruit dark red, turning black. Growing in woodland. Seed collected from several plants. Wild. Seed.
479642. JH-324-82. Japan. US National Arboretum. 51343. Collected October 09, 1982. Along Kendo #1 hwy, Kansuizawa, Aomori-shi, Aomori-ken, Honshu. 730m. Lat. 40 deg. 39' N, Long. 140 deg. 50' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Plants 3m tall. Seed collected from 2 plants. Wild. Seed.

479643. *Viburnum opulus* var. *calvescens* (Rehd.) Hara (Caprifoliaceae).

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-183-82. Japan. US National Arboretum. 51200.
Collected September 28, 1982. Arboretum, Tokyo Univ.