

479491 TO 479492-continued

Furano Forest, Yamabe, Furano-shi, Hokkaido. Lat. 43 deg. 14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum. Minimum temperature -30C. Tree deciduous, 6m tall. Crown broad. Branches spreading. Leaves dull dark green above, light green beneath. Bark rough, light gray. Fruit turning light reddish. Seed collected from one tree 40 years old with slight evidence of scab. Cultivated. Seed.

479493. *Menziesia ciliicalyx* (Miq.) Maxim. (Ericaceae).

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-307-82. Japan. US National Arboretum. 51328. Collected October 08, 1982. Tsuta Numa, Towada-shi, Aomori-ken, Honshu. Lat. 40 deg. 33' N, Long. 140 deg. 58' E. Snow 2-3m; 58 days covered by 50cm or deeper. Minimum temperature -20C. Shrub deciduous, 1.2-1.5m tall, multistemmed from base. Stems smooth, light gray. Leaves dark green above, pale beneath. Growing at edge of marsh by small lake. Seed collected from several plants. Wild. Seed.

479494. *Menziesia ciliicalyx* var. *multiflora* (Maxim.) Makino (Ericaceae).

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-352-82. Japan. US National Arboretum. 51371. Collected October 10, 1982. Arboretum, Mt Hakkoda Bot. Lab., Tohoku Univ., Sukayu, Aomori-shi, Aomori-ken. Lat. 40 deg. 37' N, Long. 140 deg. 56' E. Snow 2-3m; 58 days covered by snow 50cm or deeper. Minimum temperature -20C. Seed collected from several plants. Wild. Seed.

479495. *Mertensia pterocarpa* (Turcz.) Tatew. & Ohwi (Boraginaceae).

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.