

479407-continued

lax. Leaves coriaceous, lustrous above, glaucous beneath, petioles somewhat rufous. Climbing up trunk of *Zelkova serrata*, probably one of the hardiest species of the genus. Growing in woodland. Wild. Cuttings.

479408. *Fraxinus lanuginosa* Koidz. (Oleaceae).

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-113-82. Japan. US National Arboretum. 51137. Collected September 22, 1982. Akkeshi Prefectural Forest, Hichirippu, Hamanaka-machi, Akkeshi-gun, Hokkaido. 70m. Lat. 43 deg. 04' N, Long. 145 deg. 05' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Tree deciduous, small, 6-8m tall. Spreading crown. Bark smooth, light gray. Leaves dark green above, lighter beneath. Growing in mixed woodland, in field 47. Seed collected from one tree. Wild. Seed.

479409 TO 479411. *Fraxinus mandshurica* var. *japonica* Maxim. (Oleaceae).

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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479409. JH-129-82. Japan. US National Arboretum. 51153. Collected September 22, 1982. Akkeshi Prefectural Forest, Bekambegyu, Akkeshi-machi, Akkeshi-gun, Hokkaido. Lat. 43 deg. 06' N, Long. 145 deg. 0' E. Snow cover 40cm, deepest 1.3m. Minimum temperature -20C. Tree deciduous, 20m tall, lofty, erect. Leaves dark green above, yellowish green beneath. Common in forest. Seed collected from one tree. Wild. Seed.

479410. JH-207-82. Japan. US National Arboretum. 51229. Collected September 29, 1982. Nunobe, Furano-shi, Hokkaido. Lat. 43 deg. 14' N, Long. 142 deg. 24' E. Snow cover 2.5m per annum. Minimum temperature -30C. Tree deciduous, 9m tall. Branches wide spreading. Bark rough, light gray. Leaves bright green above. Fruit in pendulous clusters. Common in woodland. Seed collected from one tree. Wild. Seed.

479411. Japan. US National Arboretum. 51418. Hokkaido (Federal) Forest Breeding Station, Hokkaido. Sent to US National