

99823 to 100103—Continued.

100003 to 100004. *PRIMULA DRYADIFOLIA* Franch.

A rather uncommon primrose which forms cushions in moist rocky places on the eastern slopes of the Likiang Snow Range, Yunnan, at 15,000 feet altitude. The somewhat shrubby plant is only 4 or 5 inches high, with small spatulate leaves, golden below, and long scapes bearing clusters of 3 to 15 nearly sessile flowers varying in color from violet to dark purple and from rose to rich crimson.

100003. [No data.] 100004. F. 30298.

100003. F. 30230.

100005. *PRIMULA DUBERNARDIANA* Forrest.

F. 30269. A handsome primula from southeastern Tibet where it forms dense cushions, 1 to 2 feet in diameter, in dry situations on the ledges and in the clefts of mountain cliffs at altitudes between 8,000 and 9,000 feet. The flowers are a beautiful shade of pale rose with a bright yellow eye.

100006. *PRIMULA ELEGANS* Duby.

F. 30344. A primula from the mountains of Kashmir, with oblanceolate glabrous crenate leaves and large lilac flowers in clusters of 3 to 8 on a slender scape.

100007. *PRIMULA EUOSMA* Craib.

F. 29662. A dwarf primula with a rather dense rosette of elliptic or obovate rounded leaves an inch or more long and fragrant flowers of a soft purple-rose color with a green-yellow eye on a scape 2 to 4 inches high. Native to Yunnan.

100008. *PRIMULA FABRERIANA* Balf. f.

F. 29646. A stout alpine perennial, farinose throughout, with long-stemmed spatulate leaves up to 9 inches long and small dark-purple fragrant flowers on a stout scape about 10 inches high. It is native to dark cold gullies in Kansu, and belongs to the section Nivalis.

100009 to 100012. *PRIMULA FLORIDA* Balf. and Forr.

A perennial herb, native to Yunnan, with ovate leaves, farinose beneath, which are spread flat on the ground. The scape bears an umbel of short-stalked purple-blue flowers with farinose chalice.

100009. F. 30216. 100011. F. 30275.

100010. F. 30242. 100012. F. 30312.

100013. *PRIMULA FORRESTII* Balf. f.

A handsome perennial primula from the mountains of northwestern Yunnan between 9,000 and 11,000 feet altitude, in dry sunny situations. The woody rootstock is said to live over 50 years, the large basal leaves are covered with glandular hairs and have the odor of apples, and the rich orange-yellow flowers are in large umbels.

100014. *PRIMULA FRANCHETH* Pax.

A plant found in moist rocky situations on mountain meadows between 10,000 and 12,000 feet altitude in southeastern Tibet.

100015. *PRIMULA GLACIALIS* Franch.

F. 30204. An attractive Chinese primula with a thick elongated rhizome, oblong-lanceolate obtuse leaves an inch long with white farinose undersurfaces, and violet flowers half an inch long on short peduncles 1 or 2 inches high. Native to Yunnan.

100016. *PRIMULA GRACILENTA* Dunn.

F. 30268. A perennial herb native to Yunnan. The petioled oblong leaves with irregularly wavy dentate margins are in a rosette from which arise the slender scapes 6 to 18 inches

99823 to 100103—Continued.

high. The deflexed lilac flowers, borne in a head, have a cylindrical corolla tube with oblong lobes each terminated by a short tail, giving a fringed effect.

100017. *PRIMULA HELODOXA* Balf.

A large Chinese primrose of the section Candellabra, with flower stalks like those of *P. japonica*, about 3 feet high, which have 7 or 8 tiers of soft-yellow flowers resembling in color and size those of *Jasminum primulinum*. It requires a moist but well-drained site.

For previous introduction see 92500.

100018. *PRIMULA LEPTA* Balf. and Forr.

F. 30273. A small delicate primula of the section Muscarioides, with a rosette of papers oblanceolate or oblong leaves about 2 inches long and deep-purple flowers less than an inch across on a fragile scape about 3 inches high. Native to Yunnan.

100019 and 100020. *PRIMULA LEUCOCHNOA* Hand.-Mazz.

An alpine primula of the section Nivalis, from southwestern China, with small linear-lanceolate somewhat fleshy leaves 5 to 8 inches long and purple flowers half an inch long on scapes about a foot high.

100019. F. 30286. 100020. F. 30290.

100021 to 100024. *PRIMULA LICHANGENSIS* Forrest.

A handsome primrose of the section Cortusoides, from southwestern China, where it reaches a height of 6 to 14 inches, growing on ledges and boulders in dry shady places. The foliage is very variable, and the fragrant flowers vary from rose to almost crimson with green-yellow eyes.

100021. F. 30209. 100023. F. 30253.

100022. F. 30250. 100024. F. 30300.

100025 and 100026. *PRIMULA LITTONIANA* Forrest.

A handsome plant of the section Muscarioides, 2 to 3 feet tall, growing in swampy meadows in southwestern China between 10,000 and 11,000 feet altitude. The gray-green hairy leaves form a rosette from which arise the scapes bearing pendent deep indigo-blue flowers in densely packed spikes sometimes 5 inches long. The blood-red bracts and calyxes of the flowers form a wonderful contrast to the blue flowers.

100025. F. 30249. 100026. F. 30299.

100027. *PRIMULA MALVACEA* Franch.

F. 30255. A primrose from the mountains of Yunnan, densely covered with short hairs; the bright-green leaves are about 3 inches long, and the thick scapes bear 2 or 3 umbels of reddish flowers.

100028 and 100029. *PRIMULA MINOR* Balf. and Ward.

A semialpine primula of the section Pulchella, native to open mountain slopes in dry situations in southwestern China. The broadly oblong-spatulate leaves are only 2 inches long, and the small violet flowers are borne on a scape about 2 inches high.

100028. F. 30338. 100029. F. 30343.

100030. *PRIMULA MULIENSIS* Hand.-Mazz.

F. 30257. A glabrous alpine primula with narrowly obovate acute leaves about 10 inches long, light green and somewhat fleshy, and pale-violet flowers, very fragrant, on a stout scape nearly 2 feet high. Native to Szechwan.