

## 59403 to 59642—Continued.

## 59417. GENTIANA sp. Gentianaceæ.

No. 11484. Saba. November, 1923. A branching corymbose plant 1 foot high found in moist meadows near Likiang at an altitude of 11,000 feet. The deep-blue flowers, 2 to 3 inches long, have salver-shaped corollas.

## 59418. INCARVILLEA LUTEA Bur. and Franch. Bignoniaceæ.

No. 11412. Likiang Snow Range. November, 1923. A bush 2 to 3 feet high found among limestone rock in scrub forests at an altitude of 9,600 to 11,000 feet. The large leaves are pinnatisect, and the large, yellow flowers are produced in long, terminal spikes.

## 59419. INDIGOFERA PENDULA Franch. Fabaceæ.

No. 11441. November, 1923. An exceedingly ornamental shrub 10 to 15 feet high collected on the Likiang Snow Range at an altitude of 10,000 feet. The handsome flowers are in large pendulous racemes.

For previous introduction, see S. P. I. No. 56315.

## 59420. LILIUM sp. Liliaceæ.

No. 10190. Mount Kenichunpu, Salwin-Irrawaddy Divide. October, 1923. A plant 1 or 2 feet high found in alpine meadows. The leaves are elliptical, and the flowers are yellow to white.

## 59421. MAGNOLIA sp. Magnoliaceæ.

No. 11231. October, 1923. A tree 8 to 10 feet high growing on the slopes of Mount Kenichunpu, Salwin-Irrawaddy Divide, at an altitude of 10,000 feet. The oval leaves are thinly rufous pubescent beneath, and the flowers are large and white.

59422. MALUS YUNNANENSIS (Franch.) C. Schneid. (*Pyrus yunnanensis* Franch.) Malaceæ.

Apple.

No. 11489. November, 1923. A tree 30 to 40 feet high found in the Lashipa Forest near Sembi, west of Likiang, at an altitude of 9,000 to 10,000 feet. The large, oval, rich-green leaves are greenish pubescent beneath, and the red fruits are 1 inch in diameter.

## 59423. MALUS sp. Malaceæ.

No. 11356. December, 1923. A shrub or tree 30 feet high found in the forests on the eastern slope of Karila, at an altitude of 12,000 feet. The lialike branches are long and rambling, and the fruits are red and obovate.

59424. MEIROMIA sp. (*Desmodium* sp.) Fabaceæ.

No. 11440. November, 1923. A shrub 8 to 10 feet high found along streams on the Likiang Snow Range, at an altitude of 9,000 to 10,000 feet. The rich-pink flowers, produced in large racemes, make this a very handsome shrub.

## 59425. PÆONIA LUTEA Delavayi. Ranunculaceæ.

No. 11488. November, 1923. A shrub 1 to 2 feet high found on the dry slopes of Mount Lantchun, west of Likiang, at an altitude of 8,000 feet. The large leaves are white beneath, and the flowers are large and yellow.

## 59426. PHILADELPHUS sp. Hydrangeaceæ.

No. 11416. Likiang Snow Range. November, 1923. A very handsome species 8 to 10 feet high found on the outskirts of forests at an altitude of 10,000 to 11,500 feet. The large white flowers, produced in large racemes, are fragrant.

## 59427. PINUS SINENSIS YUNNANENSIS (Franch.) Shaw. Pinaceæ.

Pine.

No. 11699. December, 1923. One of the most common trees in Yunnan, varying in height from 30 to 80 feet and with a very straight or crooked trunk, depending on the location and exposure. On the Likiang Snow Range, where these seeds were collected, this pine is associated with *Quercus*

## 59403 to 59642—Continued.

*delavayi*, *Q. semecarpifolia*, and *Rhododendron fortunei*. It prefers well-drained soils. It grows at altitudes ranging from 9,000 to 11,000 feet, with only scattered individual trees at the higher levels. In the more moist region its place is taken by *Pinus armandi* and in the higher altitudes by *Picea* and *Tsuga*.

## 59428 to 59434. PRIMULA spp. Primulaceæ.

Primrose.

## 59428. PRIMULA LITTONIANA Forrest.

No. 9859. September, 1923. A very handsome plant 2 to 3 feet tall growing in swampy meadows west of the Likiang Snow Range at Ganhaitze and also east of Lahgwubo, at an altitude of 10,000 to 11,000 feet. The deep indigo-blue flowers are borne in long, densely packed spikes and the calyxes, a rich carmine, are very striking.

## 59429. PRIMULA SECUNDIFLORA Franch.

No. 11425. Likiang Snow Range. November, 1923. Collected at an altitude of 13,000 feet.

For previous introduction and description, see S. P. I. No. 58375.

## 59430. PRIMULA sp.

No. 10182. October, 1923. A plant several inches high found in the alpine meadows of Mount Kenichunpu, Salwin-Irrawaddy Divide, at an altitude of 13,000 feet. The leaves are green and elliptical, and the flowers are a rich deep purple.

## 59431. PRIMULA VALENTINIANA Hand.-Mzt.

No. 11171. October, 1923. A plant 4 to 5 inches high found growing in the alpine meadows of Champutong, Salwin-Irrawaddy Divide, at an altitude of 13,000 feet. The leaves are small, and the flowers are large and blue.

## 59432. PRIMULA AGLIENIANA Balf. f. and Forrest.

No. 11197. October, 1923. Found growing in the alpine meadows of Mount Kenichunpu, Salwin-Irrawaddy Divide, at an altitude of 13,000 feet. The leaves are lanceolate and crenate, and the flowers are large and white with a pinkish tinge, drooping in large umbels.

## 59433. PRIMULA INGENS W. W. Smith and Forrest.

No. 11332. November, 1923. Collected in the alpine meadows of Mount Peima, at an altitude of 14,000 feet. The leaves are linear-lanceolate and glabrous, and the flowers are pale blue.

## 59434. PRIMULA POISSONI Franch.

No. 11487. November, 1923. From 3 to 4 feet high found in moist meadows near Labako, west of Likiang, at altitudes of 8,000 to 9,000 feet. The leaves are basal, linear-lanceolate, and the flowers are produced in long spikes (candelabra).

## 59435. RHODODENDRON ARALIAEFORME Balf. f. and Forrest. Ericaceæ.

No. 11404. November, 1923. Collected in pine forests of the Likiang Snow Range between 9,000 and 10,000 feet altitude. The large, fragrant flowers are white, pink, or purplish, but usually pink. This species is found all over Yunnan.

## 59436 to 59638. RHODODENDRON spp. Ericaceæ.

## 59436. RHODODENDRON sp.

Nos. 1372 (fruit), 8500 (flowers). November, 1923. A shrub 4 feet high growing on alpine slopes among limestone rocks on the Likiang Snow Range at altitudes of 13,000 to 14,000 feet. The pale, thin leaves are obovate oblong and covered beneath with yellow tomentum. The flowers are rich pink.