

## 99823 to 100103—Continued.

100100 and 100101. *TROLLIUS YUNNANENSIS* (Franch.) Ulbr. Yunnan globeflower.

A large stout perennial, native to Yunnan, about 2 feet high, with trilobate-reniform, long-stemmed basal leaves with blades 3 inches long and yellow flowers 1 to 2 inches across.

100100. F. 30506. 100101. F. 30643.

100102. *VIBURNUM FLAVESCENS* W. W. Smith. Caprifoliaceae.

F. 30678. A shrub 6 to 10 feet high, native in dry places in the mountains of Yunnan. The rhomboid-ovate leaves are 2 to 3 inches long, with serrate margins, and the fragrant deep cream-yellow flowers are in terminal corymbs about 2 inches across. It is closely allied to *Viburnum ovalifolium*.

100103. *XOLISMA OVALIFOLIA* (Wall.) Rehd. Ericaceae.

F. 30437.

For previous introduction and description see 99759.

100104 and 100105. *PHOENIX RECLINATA* Jacq. Phoenicaceae.

## Senegal date palm.

From Africa. Seeds presented through the Royal Botanic Gardens, Kew, England. Received June 14, 1932.

A tropical and South African date palm, 20 to 30 feet high, with green reclinate pinnate leaves 6 to 9 feet long with rigid leaflets and yellowish fruits half an inch long with a sweetish pulp.

For previous introduction see 82686.

100104. From Bathurst, Gambia, Africa.

100105. From Zomba, Nyasaland, Africa.

100106. *ANANAS SATIVUS* Schult. f. Bromeliaceae. Pineapple.

From the West Indies. Plants presented by G. W. Ford, Haytian Pineapple Co., Cape Haitien, Haiti. Received June 14, 1932.

Smooth Cayenne.

## 100107 to 100113.

From Australia. Seeds presented by the experiment farm at Bathurst, at the request of the Department of Agriculture, Sydney, New South Wales. Received June 10, 1932.

A collection of forage grasses introduced for the use of Department specialists.

100107 to 100109. *DACTYLIS GLOMERATA* L. Poaceae. Orchard grass.

100107. *Scandia cocksfoot*; originally from Sweden.

100108. No. 2; from Wales.

100109. Originally from Spain.

100110 to 100112. *LOLIUM PERENNE* L. Poaceae. Perennial ryegrass.

100110. Originally from Spain.

100111. An evergreen form; originally from Scotland.

100112. *Victoria* ryegrass; originally from Sweden.

100113. *PHALARIS TUBEROSA* L. (*P. stenophylla* Hort.). Poaceae. Grass.

For previous introduction see 99332.

100114 to 100118. *CINCHONA* spp. Rubiaceae.

From British India. Seeds purchased from the Government cinchona plantation, Munson, Kalimpong, Bengal. Received June 13, 1932.

Introduced for the use of Department specialists working with drug plants.

100114. *CINCHONA LEDGERIANA* Moens.

A tree, native to the Andes, yielding a bark remarkably rich in quinine which crystallizes readily as quinine sulphate. The percentage of the other alkaloids present is relatively small. The bark of this species matures in the fifth or sixth year and does not increase its quinine content after that.

For previous introduction see 78602.

100115. *CINCHONA LEDGERIANA* × *OFFICINALIS*.

100116. *CINCHONA LEDGERIANA* × *SUCCURUBRA*.

100117. *CINCHONA OFFICINALIS* L.

100118. *CINCHONA SUCCURUBRA* Pavon.

The bark of this tree contains a large quantity of alkaloids, of which a relatively large percentage is cinchonidine, which retards the separation of the quinine as sulphate. The bark of this species matures in the fourth or fifth year and does not increase in quinine content thereafter.

100119 to 100124. *HORDEUM VULGARE PALLIDUM* Seringe. Poaceae.

## Six-rowed barley.

From India. Seeds presented by F. J. F. Shaw, Imperial economic botanist, Imperial Institute of Agricultural Research, Pusa, Bihar. Received June 14, 1932.

Introduced for the use of Department specialists interested in cereal investigations.

100119. Type 7. 100122. Type 14.

100120. Type 12. 100123. Type 20.

100121. Type 13. 100124. Type 21.

100125 to 100130. *ORYZA SATIVA* L. Poaceae. Rice.

From Madagascar. Seeds presented by Maison Grobot & Simphal, Paris, France. Received June 16, 1932.

A collection of rice introduced for the use of Department specialists interested in cereal investigations.

Samples of Vary-Lava, the finest rice of Madagascar. This rice closely resembles the *Java Giant* rice.

100131 to 100140. *ACACIA* spp. Mimosaceae.

From Italy. Seeds presented by Dr. Mario Calvino, Stazione Experimentale di Floricoltura, San Remo. Received June 17, 1932.

100131. *ACACIA* sp. 100136. *ACACIA* sp.

*Bon accueil precoce.* *Joffre.*

100132. *ACACIA* sp. 100137. *ACACIA* sp.

*Bon accueil tardive.* *Mirabilia.*

100133. *ACACIA* sp. 100138. *ACACIA* sp.

*Bon accueil hybrida.* *Rustica.*

100134. *ACACIA* sp. 100139. *ACACIA* sp.

*Decurrens hybrida.* *Tournaire A.*

100135. *ACACIA* sp. 100140. *ACACIA* sp.

*Gaulois.* *Tournaire No. 1.*