



BULLETIN OF FOREIGN PLANT INTRODUCTIONS.

No. 8. Dec. 8 to 28, 1908.

NEW PLANT IMMIGRANTS.

CITRUS. 24311. From Brazil, Dec. 11. Sent by P. P. Demers.
"Bahia navel orange. Cut from navel orange grafted on Laranga da terra. I have eaten one orange from one of these trees measuring 15 inches in circumference and its flavor was delicious. The soil upon which the trees grow contains 60 per cent more or less of reddish clay." (Demers.) Scions sent to greenhouse.

CITRUS. 24326. "Naartje." From Warm Baths, Transvaal, South Africa, Dec. 14. "Platskil" is a varietal name. The word means flat or smooth skin and it appears also to apply to the shape of the fruit. The skin adheres closely, but can easily be removed with the thumb and finger." (R. A. Davis.) See "Groenskil" var., No. 24196, Bull. 7.

COPERNICIA CERIFERA. 24404. Carnauba palm. From Piracicaba, Brazil, Dec. 26. Presented by Dr. J. W. Hart. The stem furnishes starch, the sap sugar, the leaves a rope fibre, the pinnae are woven into mats, hats, baskets and brooms, the inner part of the leaf stalks serve as a substitute for cork, and most important of all the young leaves are covered with a valuable wax, harder than that of bees and used for making candles, covering phonograph cylinders, etc. Each tree furnishes about 4 lbs. of wax annually.

DIOSCOREA SP. 24348. From Manila, P. I., Dec. 16. "Tongo. This is by far the best yam in existence in my opinion, which is based upon experience with 2 or 3 of the alleged best varieties of both the East and West Indies." (Wm. S. Lyon.)

- DISOXYLUM SPECTABILE.** 23740. Seeds from Wellington, New Zealand, presented by T. W. Kirk, Sept. 30, 1908. "A handsome round headed tree 25-50 feet high, 1-3 feet in diameter. Flowers waxy white, $1\frac{1}{2}$ in. broad. Timber suitable for inlaying and furniture. Leaves bitter and tonic."
- EUCALYPTUS ALBA.** 24415. Seeds from Dr. Treub, Buitenzorg, Java, Dec. 4 and 21. "Originally from the Island of Timor in the Dutch East Indies, and I suppose well suited for culture in the climate of Panama." (Koningsberger.)
- MALUS MALUS X BACCATA.** 24365. **MALUS PRUNIFOLIA.** 24366. Fruits from Jackson Dawson, Arnold Arboretum, Jamaica Plain, Mass. "These are extraordinary keepers, and as most of our crabapples are not good keepers they may be used in experimental work."
- MILLETS.** 24335-336. Two millets from Rhodesia, South Africa, Dec. 14; presented by Mr. J. H. Finch.
- ORYZA SATIVA,** 24327-24332. Six varieties of rices from Honolulu, Hawaii. Received Dec. 14 from Mr. F. G. Krauss.
- PINUS PEUKE.** 24338. Seed from Bulgaria, Dec. 17. "This is one of the very best exotic pines for the northern states." (Sargent.)
- SOLANUM MELONGENA.** Seeds grown at Chico from No. 22023, received from Peking, China, Nov. 5, 1907. "Is often grown as an ornamental pot plant by the Chinese, bearing fruits just about the size of a small egg, white when young, later on golden yellow." (Meyer.)
- TUMION CALIFORNICUM.** 24333. From San Francisco, Cal., Nov. 21. "This tree is a rare and very beautiful and ornamental one, reaching at least 3-4 feet in diameter and 50-75 feet in height with handsome, dark olive green leaves, somewhat like the leaves of the large fir. It requires deep, moist and well drained loam and is a fairly rapid grower after once starting." (Marsden Manson.)

VICIA LEAVENWORTHII. 24205. From Arizona, Dec. 5, 1908.

"These vetch seeds were collected Sept. 23, 1908, at 8500 feet altitude in the White Mountains of Arizona. The plant is abundant from about 7500 to 9000 feet in the open yellow pine forest. It grows as a spreading bush 2 feet high and in many places covers the ground as an almost solid field of peas loaded with fruit. Our horses were very fond of it and ate both pods and plant eagerly. For a week they had no other grain and ate little else but steadily gained in flesh. It seems to be an unusually valuable forage plant." (Vernon Bailey.)

VITIS VINIFERA. 24312. Grape from Beni Abbes, Africa, Dec. 11. "Large late grape; reproduces itself from seed." (Trabut.)

NOTES FROM FOREIGN CORRESPONDENTS.

BOLIVA, Santa Cruz de la Sierra. John S. Bowles, Oct. 29. In about two weeks will send seed of Guapurás and directions for planting and cultivating. Description of fruit will be given in later bulletin.

BORNEO, Sarawak. Curator of the Sarawak Museum, Nov. 23. Is trying to obtain seeds of *Ficus acidula*, a species of Borneo fig, pleasantly acid and not sweet. To be used in hybridizing.

CHILE, Limavida, Jose D. Husbands, Nov. 5. Has shipped Bolivian black walnuts which will appear in next bulletin. If desired can get more next year. Has four kinds of cherimolias on hand to send. In Jan. or Feb. will go south for seeds. Will study quila and report on it. Has just planted 201 kinds of potatoes to send next March. Many kinds from the Archipelago of Chiloe. A collection of these potatoes was also received August, 1908, before this bulletin was started.

EGYPT, Cairo. Geo. P. Foaden, Dec. 12. Sends soil from berseem field for culture of root nodule bacteria.

INDIA, Lahore, Panjab. W. R. Mustoe, Dec. 3. Sends seeds of *Aegle marmelos* (Bael fruit.) In about two months will send *Feronia elephantum* and *Limonia acidissima*. In June or July will send *Clausenia*. Requested to be used in Mr. Swingle's breeding experiments as dry land stock.

ISLE OF PINES, Nueva Gerona. W. McIntosh, Nov. 28. Will be glad to send as many avocados as we want. Can send seed or plants of a fruit known there as "Canistel;" also known as "Ti-es" (*Lucuma rivicoa*.)

JAVA, Lawang. M. Buysman, Oct. 29. Is sending seeds of *Ylang Ylang* (*Cananga odorata*.) Will be mentioned when it arrives.

PHILIPPINE ISLANDS, Manila. Wm. S. Lyon, Nov. 18. Will send *Aegle decandra* in 6 or 8 weeks when the fruits mature.

TRINIDAD, Port of Spain. Frank Evans, Supt. Botanical Dept., Dec. 5. Says Julie mango is best; larger than Peters, quite free from fibre, most suitable for transport. Tree dwarf in habit, bears in 3-4 years. Flavor not so acid as Gordon and Peters. Will send fruit in season; also fruit of mangosteen.

UGANDA, Entebbe, Agricultural Department, Nov. 2. Sends packet of dwarf bean common to Uganda.

RECENT VISITORS.

COSTA RICA. Mr. Pittier of the Office of Bionomic Investigations leaves first week in January for a short stay in Porto Rico.