

up to 1½ inches long, with smooth, reddish brown surfaces. When boiled the tubers shrink and become watery and insipid. (Adapted from *Curtis's Botanical Magazine*, pl. 6756.)

For previous introduction, see S. P. I. No. 44185.

53446 to 53450.

From Wellington, New Zealand. Seeds presented by A. H. Cockayne. Received May 10, 1921. Quoted notes by Mr. Cockayne.

Introduced for experiments by Department specialists.

53446. *LOTUS ULIGINOSUS* Schkuhr. Fabaceæ.

Received as *Lotus major*, which is a form of *L. corniculatus*, but the sample does not agree with seeds of that species.

For previous introduction, see S. P. I. No. 48635.

53447. *LOTUS* sp. Fabaceæ.

Received as *Lotus hispidus*, but the sample does not agree with seeds of that species.

53448. *MEDICAGO SATIVA* L. Fabaceæ.

Alfalfa.

"*Lucerne Marlboro.*"

53449 and 53450. *TRIFOLIUM REPENS* L. Fabaceæ.

White clover.

53449. "*Hawkes Bay.*" 53450. "*Canterbury.*"

53451. *CUCUMIS SATIVUS* L. Cucurbitaceæ.

Cucumber.

From Paris, France. Seeds purchased from Vilmorin-Andr eux & Co. Received April 18, 1921.

"*Cornichon de Toulouse* (gherkin from Toulouse)." (Vilmorin-Andr eux & Co.)

53452 and 53453.

From Allahabad, United Provinces, India. Seeds presented by William Bembower. Received April 13, 1921. Quoted notes by Mr. Bembower.

53452. *ILEX* sp. Aquifoliaceæ.

"Seeds of a black fruit that grew on a bush with hollylike leaves, collected in the hills of the Dehra Dun District, United Provinces, India."

53453. *MYRICA RUBRA* Sieb. and Zucc. Myricaceæ.

"*Kaiphal*, from the Dehra Dun District, United Provinces, India."

53454 to 53462. *COFFEA* spp. Rubiaceæ.

Coffee.

From Tananarive, Madagascar. Seeds presented by J. G. Cairn, American consul. Received May 14, 1921. Quoted notes by Mr. Cairn.

"Varieties of *Coffea* cultivated on the east coast of Madagascar."

53454 and 53455. *COFFEA CANEPHORA* Pierre.

53454. This coffee thrives from sea level to an altitude of 1,000 meters and succeeds best at a height of 450 to 700 meters in a damp climate with abundant rain, the annual precipitation being 2,500 to 3,500 millimeters with a minimum of 2,000 millimeters and no long dry periods. Under favorable conditions a drought of two to three months' duration will do no harm, but if the drought extends beyond this the year's crop is seriously injured, though the trees do not appear to suffer permanently. The trees come into bearing at the age of 3 years and yield 875 to 1,300 kilograms per hectare under moderately favorable conditions and 1,700 to 2,300 kilograms on virgin soil and under favorable conditions. (Adapted from *Philippine Agricultural Review*, vol. 9, p. 123.)

53455. Variety "*Robusta.*" Apparently a robust form of *C. canephora*.