

52307 to 52309—Continued.

scarlet flowers in compact clusters (they could almost be termed heads) 6 to 8 inches long and broad. While this plant is tropical, the fact that it is grown at Guaduas makes me think that it may succeed in southern Florida."

For previous introduction, see S. P. I. No. 51796.

52309. CARICA sp. Papayaceæ.

"(No. 512a. November 22, 1920.) From a dooryard in Ibague, Department of Tolima, Colombia, at an altitude of about 4,200 feet. Seeds of a distinct species of Carica which I have not seen in Cundinamarca. At first sight I took it to be *C. candamarcensis* (the species common in Cundinamarca), but on closer examination the leaves proved to be much more deeply lobed and the fruit altogether distinct in character, though of about the same size and form. The plant is common in the region between Ibague and the Cauca Valley, being found at altitudes of 4,000 to 6,000 feet. It reaches about 15 feet in height, often branching near the base to form several stems. So far as I have seen, the plants are unisexual, as in *C. candamarcensis* and, normally, in *C. papaya*. The fruits are broadly oval to elliptic, 3 to 5 inches long, and deep yellow when fully ripe. The flesh is white and has a faint applelike odor. The seeds are scattered through a white pulpy mass, which does not adhere to the wall of the cavity but is attached at the basal end. The flavor of the flesh is rather acid; it is eaten only when cooked, as that of *C. candamarcensis* in Bogota.

"I do not know how hardy the plant may be. It seems likely that it will resemble *C. candamarcensis* in hardiness, and in this case it will be of interest in connection with papaya breeding in Florida and California."

52310 to 52314. ALLIUM spp. Liliaceæ.

From Paris, France. Purchased from Vilmorin-Andrieux & Co. Received February 1, 1921. Quoted notes from Catalogue of Vilmorin-Andrieux & Co.

A collection of vegetables introduced for experiments in diseases of truck crops and for vegetable breeding experiments.

52310. ALLIUM ASCALONICUM L.**Shallot.**

"*Echalote de Jersey*. Bulbs of a variety which is larger and more highly colored than the ordinary shallot and a very good keeper."

52311. ALLIUM CEPA L.**Onion.**

"*Rocamboles*. Bulbs of a variety from Spain. Plant in October or November, or in February."

52312 to 52314. ALLIUM FISTULOSUM L.**Welsh onion.**

52312. "*Ciboule commune*. Bulbs of the variety most cultivated."

52313. "*Ciboule blanche hative*. Bulbs of an early and less pungent variety."

52314. "*Ciboule vivace (Ciboule de Saint-Jacques)*. Bulbs of a variety which does not produce seeds."

52315 to 52317. SOLANUM TUBEROSUM L. Solanaceæ. Potato.

From Cali, Valle, Colombia. Collected by Wilson Popenoe, Agricultural Explorer of the United States Department of Agriculture. Received January 3, 1921. Quoted notes by Mr. Popenoe.