

**43029 to 43031. ULMUS spp. Ulmaceæ. Elm.**

From Kief, Russia. Purchased from Messrs. St. Przedpelski and T. Antoniewicz. Received July 3, 1916.

**43029.** Received as *Ulmus androsowi* Litv., for which a place of publication has not yet been found.

**43030.** Received as *Ulmus bobyriana* Litv., for which a place of publication has not yet been found.

**43031.** ULMUS DENSE Litv.

"An elm of remarkably dense growth, sprouting a little distance above the ground into a number of stems which form an umbrellalike head of foliage which is so dense that it seems always twilight, even at bright noon, in an avenue of these trees. This elm apparently loves a climate with long, hot summers and with winters not too cold. It withstands a fair amount of alkali in the soil and in the irrigation water. It is of especial value as a shade tree in the hot and dry interior valleys of California, in Arizona, Texas, and New Mexico." (*Frank N. Meyer.*)

For a previous introduction, see S. P. I. No. 32831.

**43032 and 43033. JUGLANS INSULARIS Griseb. Juglandaceæ. Cuban walnut.**

From Santiago de las Vegas, Cuba. Presented by Mr. Juan T. Roig, botanist, Agricultural Experiment Station. Received July 22, 1916.

"This interesting Cuban tree has recently been called to the attention of horticulturists by Van Hermann and Roig. It is found in the mountainous sections of the island, sometimes at considerable altitudes. I have seen it in the mountains near Trinidad, on the south coast, at about 2,000 feet, growing among numerous other trees along the banks of small streams. It seems, however, to be comparatively rare, and does not occur in great numbers. It is erect and slender in habit, growing to a height of 40 or more feet, with foliage somewhat finer than *Juglans nigra* of the United States. The nuts resemble those of *Juglans nigra* in size and appearance, though sometimes smaller. The kernels, however, are removed with difficulty, the septæ being very thick and woody. In its present wild state the Cuban walnut, as it is called, does not seem to be of great horticultural value, but with very little improvement by selection it seems that it might become an excellent nut for tropical regions. It has been suggested that it might serve as a stock for the Persian walnut, making possible the culture of this species in Cuba and other tropical regions where it is not successfully grown. For illustrations of the tree and fruit, see *Journal of Heredity*, December, 1915." (*Wilson Popenoe.*)

**43032.** "Cuban native walnut, collected at Trinidad Station, Santa Clara Province." (*Roig.*)

**43033.** "Cuban native walnut, collected at Taco Taco, Pinar del Rio Province." (*Roig.*)

**43034. LITCHI CHINENSIS Sonner. Sapindaceæ. Litchi.**  
(*Nephelium litchi* Cambess.)

From Swatow, China. Presented by Mr. G. C. Hanson, American consul. Received July 25, 1916.