

47221 and 47222. BAROSMA CRENULATA (L.) Hook. Rutaceæ.
Buchu.

From Cape Town, South Africa. Presented by the Conservator of Forests.
 Received March 8, 1919.

A small evergreen shrub, with opposite or alternate, simple, dotted, leathery leaves, in the axils of which the flowers appear. The buchu leaves of commerce are procured chiefly from *Barosma crenulata*, *B. crenata*, and *B. serratifolia*. The leaves are much used in medicine as a stimulant and tonic and appear to have a specific effect in chronic diseases of the bladder, their action probably being dependent on the powerful-smelling volatile oil which they contain. (Adapted from *Lindley, Treasury of Botany*, p. 125.)

47221. Collected at French Hoek, Cape Province.

47222. Collected at Dluitjes Kraal, Ceres, Cape Province.

47223. KOKIA DRYNARIOIDES (Seem.) Lewton. Malvaceæ.

From Honolulu, Hawaiian Islands. Presented by Mr. J. F. Rock. Received March 10, 1919.

"From Pukoo, Japulehu, Molokai." (*Rock.*)

A tree, 4 to 8 meters high, woody throughout, with membranous, nearly glabrous, cordate, five to seven lobed leaves on long petioles, and bright red flowers, of silky texture, on stout peduncles, single in the axils of the uppermost leaves. The thick, woody, ovoid capsule, about an inch in length, contains several obovoid seeds which are covered with a reddish brown tomentum. Of this exceedingly interesting species there has been only one tree in existence up to a few months ago. This same tree, which was declared dead, still showed some signs of life and produced a few capsules with mature seeds; but this is evidently the last, only a small branchlet having produced a few leaves. A few seeds of this tree have been sent to Washington to the Bureau of Plant Industry [S. P. I. No. 39354]; thus it is hoped still to perpetuate this most interesting plant. Several trees were found on the west end of Molokai, at Mahana; all are now dead, owing to ravages of cattle, sheep, and goats, which eat off the bark and leaves. (Adapted from *Rock, The Indigenous Trees of the Hawaiian Islands*, p. 307.)

"Seeds from a seedling tree given to Mr. C. C. Conradt, of Pukoo, Molokai, in 1911. The tree has flowered and fruited this season for the first time; it bore five seeds—three of which I planted here, and two I have sent to you. The original tree on Molokai [parent of Mr. Conradt's tree] is dead." (*Letter of Mr. Rock, April 14, 1919.*)

47224. BARLERIA CRISTATA L. Acanthaceæ.

From Cairo, Egypt. Seeds presented by the director, Gizeh Branch, Ministry of Agriculture. Received March 11, 1919.

A tropical shrub, with axillary, or terminal, purplish blue or rarely white flowers in dense spikes. It is sometimes used as a bedding plant. (Adapted from *Bailey, Standard Cyclopedia of Horticulture*, vol. 1, p. 454.)

47225. CARICA sp. Papayaceæ. Papaya.

From the Cauca Valley, Colombia. Presented by Mr. M. T. Dawe, San Lorenzo, Colombia. Received March 13, 1919.