

49197 to 49221—Continued.

49208. *Gossypium hirsutum* L. Malvaceæ. Cotton.

"(No. 213. Beira, Mozambique. November 3, 1919.) *Nyasaland upland*. Grown at Shimba on the Zambezi. The seed is distributed to the natives and the cotton is bought from them by the Mozambique Company."

49209. *Holcus sorghum sudanensis* (Piper) Hitchc. Poaceæ.

Sudan grass.

"(No. 236. Bulawayo, Southern Rhodesia. November 5, 1919.)"

49210. *Panicum madagascariense* Spreng. Poaceæ.

Grass.

"(No. 218. Beira, Mozambique. November 3, 1919.) A fine grass; grows well on sandy land of the Beira region. It may prove valuable on sandy soils of the South. Grows to a height of about 15 inches."

49211. *Passiflora edulis* Sims. Passifloraceæ.

Granadilla.

"(No. 230. Bulawayo, Southern Rhodesia. November 5, 1919.) Seed from a granadilla served at a hotel. Fruit about 1½ by 2 inches, of an agreeable flavor."

49212. *Phaseolus aureus* Roxb. Fabaceæ.

Mung bean

"(No. 232. Bulawayo, Southern Rhodesia. November 5, 1919.) A small green bean."

49213 and 49214. *Ricinodendron rautanenii* Schinz. Euphorbiaceæ.

49213. "(No. 229. Bulawayo, Southern Rhodesia. November 5, 1919.) The *m'goma* tree, which produces a remarkably lightweight wood used instead of pith; it is also used as a base to be covered with metal or leather. The seeds should be sawed open for planting; otherwise germination will be very slow."

49214. "(No. 249. Victoria Falls. November 13, 1919). *M'goma*. A fine tree bearing nuts with very hard shells, but with edible kernels which are also valuable for oil. I think it will prove a valuable introduction; piles of nuts were seen near the houses of the natives of this section."

49215. *Sclerocarya caffra* Sond. Anacardiaceæ.

Morula.

"(No. 225. Bulawayo, Southern Rhodesia. November 5, 1919.) See No. 139 [S. P. I. No. 48823] and No. 193 [S. P. I. No. 49315]. The nuts are exceedingly good."

Morula nuts, the seeds of *Sclerocarya caffra*, are found in northern Transvaal. They weigh from 3 to 4 grams and measure one-half by 1 inch. They consist of 87.9 per cent of very hard shell and 12.01 per cent of kernel, which has a pleasant nutty flavor and should be very nutritious as a food. Upon ether extraction, these kernels yield from 5 to 6.3 per cent of a pale-yellow oil, which has been analyzed as follows:

Specific gravity at 15.5° C.-----	0.9153
Acid value (as oleic)-----	1.59
Saponification number-----	19.1
Unsaponifiable matter-----per cent--	.93
Wijs' iodine number-----	72.9
Glycerol-----per cent--	10.6
Hehner number-----	94.7