

REPORT OF THE SUBTROPICAL FRUIT COMMITTEE

Dr. Francis B. Lincoln

Homestead

Since the last annual meeting of the Krome Memorial Section, this committee has registered six seedling fruits, these being 3 mangos, 2 avocados and 1 carissa. This report will consist of descriptions and photographs¹ of these several new varieties. The numerals preceding the variety names are the registration numbers of the respective varieties.

No. 7. Byars Avocado

Originated on the place of E. C. Byars, Sr., on Redland Road, north of Homestead, Florida as a seedling of Collinson. At present the tree is 16 years old and of good vigor aside from the damage effected in the 1945 storm. It is reported to have been very productive each year of a late season, fruit maturing from January to April. This clone has been multiplied in Mr. Byars' grove by top working of old trees and the budding of young seedlings.

Description of fruit. The elliptical shaped fruit is rather large, olive green in color, with a dull finish. The surface of the skin is slightly rugose and stippled with light green lenticle (Fig. 1). It measures 5½ to 6 inches long by 4½ to 5 inches wide, approaching 2 pounds in weight, 20 percent of which is seed. In some of the fruits the seeds are loose. In the large fruit there was a clean separation of the seed coat from the flesh. The flesh is yellow to the center with a wide green area next to the skin. The texture and flavor are very good with the flavor being very pronounced. *The oil content is 14.7 percent* in fruit picked in late November. This seedling is free from scab and withstands wind and cold well. The time of bloom and the flower opening behavior are still to be determined for this seedling. The lateness of the fruit maturity of this variety makes it interesting.

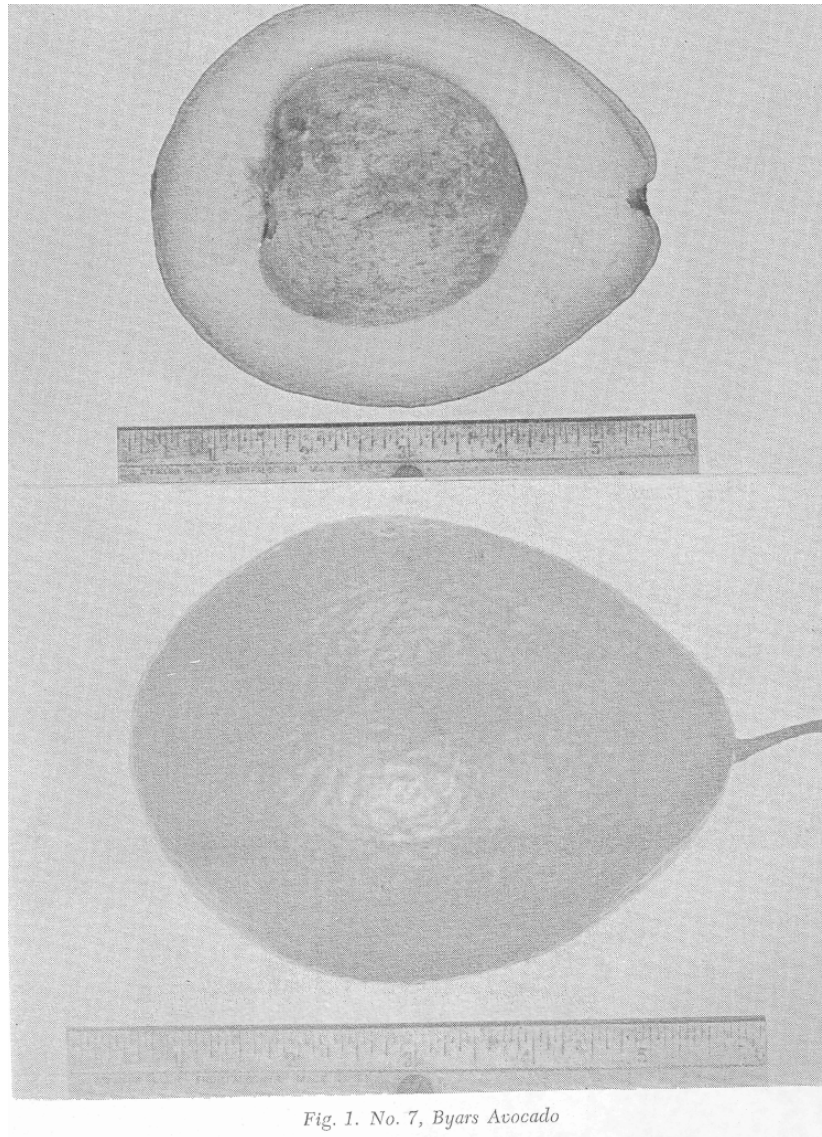


Fig. 1. No. 7, Byars Avocado

No. 8. Etta Avocado

Originated on the place of C. E. Good, east of Kendall, Florida, as a seedling of Lula possibly fertilized with Pollock pollen. At present the tree is 12 years old with good vigor and an upright habit of growth. Aside from severe damage by the 1945 storm the tree has been very productive.

Description of fruit. The fruit is an early season variety maturing from August 15 to September 15, large in size and light green in color, marked with lighter longitudinal stripes (Fig. 2). Its measurements are 4 by 6 inches approaching 2 pounds in weight, 18 percent of which is seed. Many of the fruits are pyriform with a heavy neck, others are obovate in shape giving two distinct forms to the fruit. Its skin is smooth and glossy of a heavy, leathery nature separating readily from the flesh. The rather thick flesh is yellow to the center and a dark green at the skin side having a buttery texture with a mild flavor. The oil content is low being *only 3.1 percent*. The seed is loose in the fruit with

the coat adhering to the seed. The productivity of the tree may overcome the handicap of being a large fruit marked with a distinct striping.

It is reported that this tree and fruit is hardy to frost and not susceptible to diseases. The time of bloom, flower opening behavior, and the behavior of this variety as a clone are still to be determined.

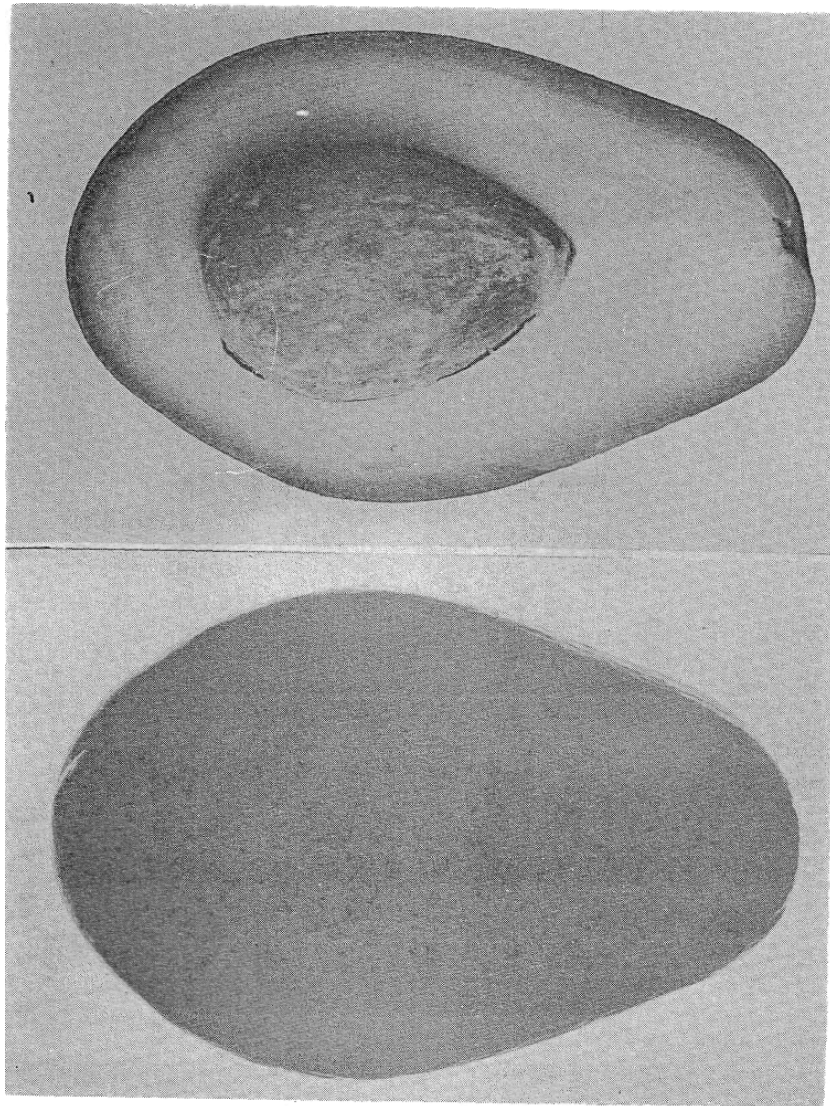


Fig. 2. No. 8, Etta Avocado

No. 9. Glenn Mango

This mango is a Haden seedling planted on the property of Roscoe E. Glenn, 2931 S.W. 21 Avenue, Miami, Florida. The seed was planted in 1940 and transplanted to its present location in Mr. Glenn's backyard in 1943, making the tree now 8 years old having a diameter of 6 inches at 1 foot from the ground with a limb spread and height of 20 feet. The seedling first bloomed in 1945 when four fruits were permitted to mature.

No fruits were produced in 1946. In 1947 and 1948, 40 and 75 fruits matured, respectively.

Description of fruit. Form oval to somewhat oblong (Fig. 3); size medium to large; weight 373-505 gms.; average length 11.38 cm.; average width 8.19 cm.; average thickness 7.50 cm.; base rounded; the rather slender stem inserted obliquely in the shallow grooved cavity; apex bluntly pointed; beak none, the nak is somewhat raised but inconspicuous, located about 3½ cm. from the apex on the ventral side; surface smooth; skin thin, tough, and easily separated from the flesh having slight bloom, ground color bright yellow, blushed orange red on the exposed side, with numerous small yellow and white dots; flesh deep yellow, firm and juicy; flavor rich, aromatic and spicy; aroma strong but pleasant suggesting pineapple; fibre scanty, short and of fine texture; quality, excellent; stone making up 7 to 8 percent of the total weight of the fruit, being oblong to long in shape; seed is monoembryonic filling about three-fourths of the husk; season June and July ripening about 7 to 10 days earlier than the Haden Mango.

No. 10. Lucile Mango

This fruit is said to be a third generation seedling containing Saigon race, Haden and Brooks parentage. The tree is approximately 12 years old, vigorous grower, and has an upright spreading habit. The leaves are medium sized and are dark green. The 1948 crop was medium. The tree is the property of Mr. Roy Page and is planted approximately 30 yards southeast of his residence near Matheson Hammock Park near North Kendall Drive in Dade County.

Description of fruit. Form oblong to oblong-ovate, fairly plump (Fig. 4); size medium to large; weight 432-501 gms.; length 11.2 to 12.8 cm.; width 8.1 to 9.0 cm.; thickness 6.5 to 7.5 cm.; base flattened, somewhat oblique, the slender stem inserted squarely in the small shallow grooved cavity; apex rounded to bluntly pointed; beak none, the nak is slightly raised in a shallow cavity located about 3 cm. from the apex on the ventral side; surface smooth; skin thick, tough, easily separating from the flesh; bloom none; ground color yellow-orange, blushed crimson which is speckled around the shoulder, numerous yellow-russet dots present; flesh tender juicy deep yellow to orange; flavor, rich, spicy similar to the carrot flavor often found in fruits of Saigon race; aroma weak, pleasant; fibre scanty with concentration of coarse long fibre along ventral side of seed particularly abundant near shoulder; seed monoembryonic, stone thick and woody; quality good; season June and July.

No. 11. Heinlein Mango

The origin of this seedling is uncertain, but believed to be a seedling of the Mulgoba. The parent tree is estimated to be about 20 years old. This tree was almost blown over during the 1945 hurricane and was severely pruned and righted. During 1947 the tree produced 1½ bushels of fruit and in 1948 over 4 bushels of fruit were matured. The parent tree is the property of Mr. Herman Heinlein and is located on his property at Coconut Palm Drive just off Yetter Road in the Redland District of Dade County, Florida.

Description of fruit. Form oval, size medium (Fig. 5): weight 285-466 gms.; average

length 10.4 cm.; average width 8.0 cm.; average thickness 7.30 cm. Base somewhat flattened, the stout stem is inserted squarely; cavity none; apex rounded; beak none to obscure, the nak is inconspicuous and is level or slightly raised located about 2 cm. from the apex on the ventral side; surface undulating, skin medium thickness, tough and rather adhesive to the flesh; bloom slight; ground color yellow-orange, blushed crimson-coral on the exposed side with numerous large yellow-white dots; flesh firm juicy pale yellow to lemon color; flavor mildly sweet; aroma none; fibre scanty, short and of fine texture; quality fair to good; stone making up approximately 7 to 8 percent of the total weight of the fruit, being oblong to long in shape; seed is monoembryonic filling about three-fourths of the husk; season June and July.

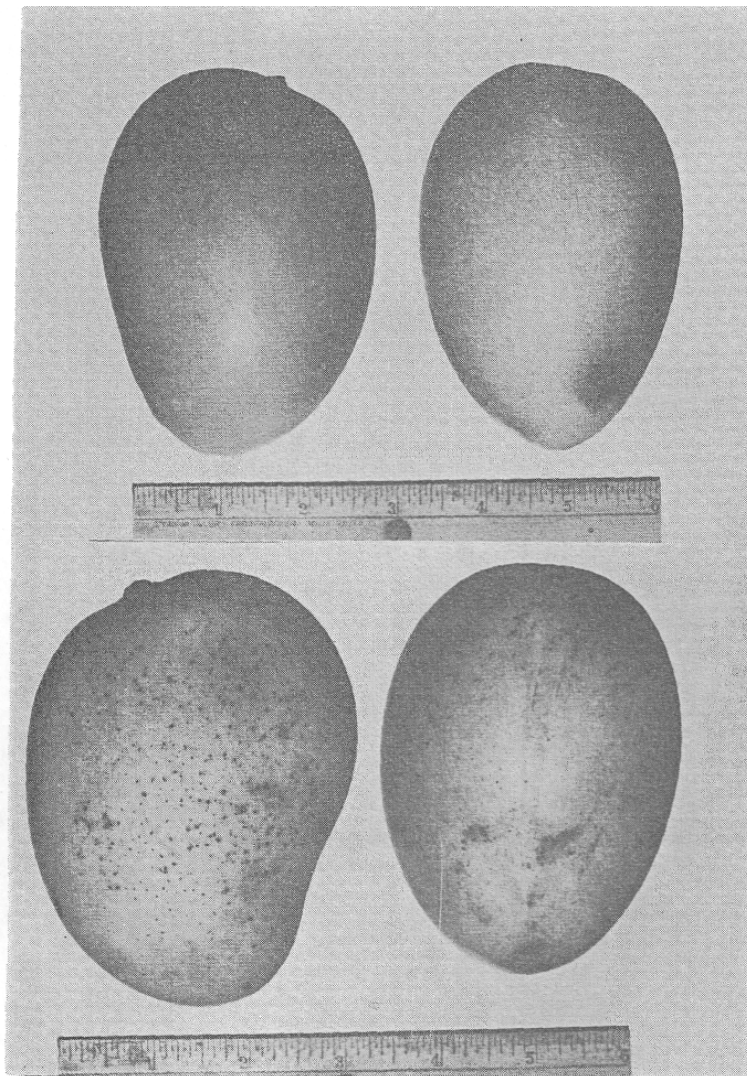


Fig. 3. No. 9, Glenn Mango (Top). Fig. 4. No. 10, Lucile Mango (Bottom)

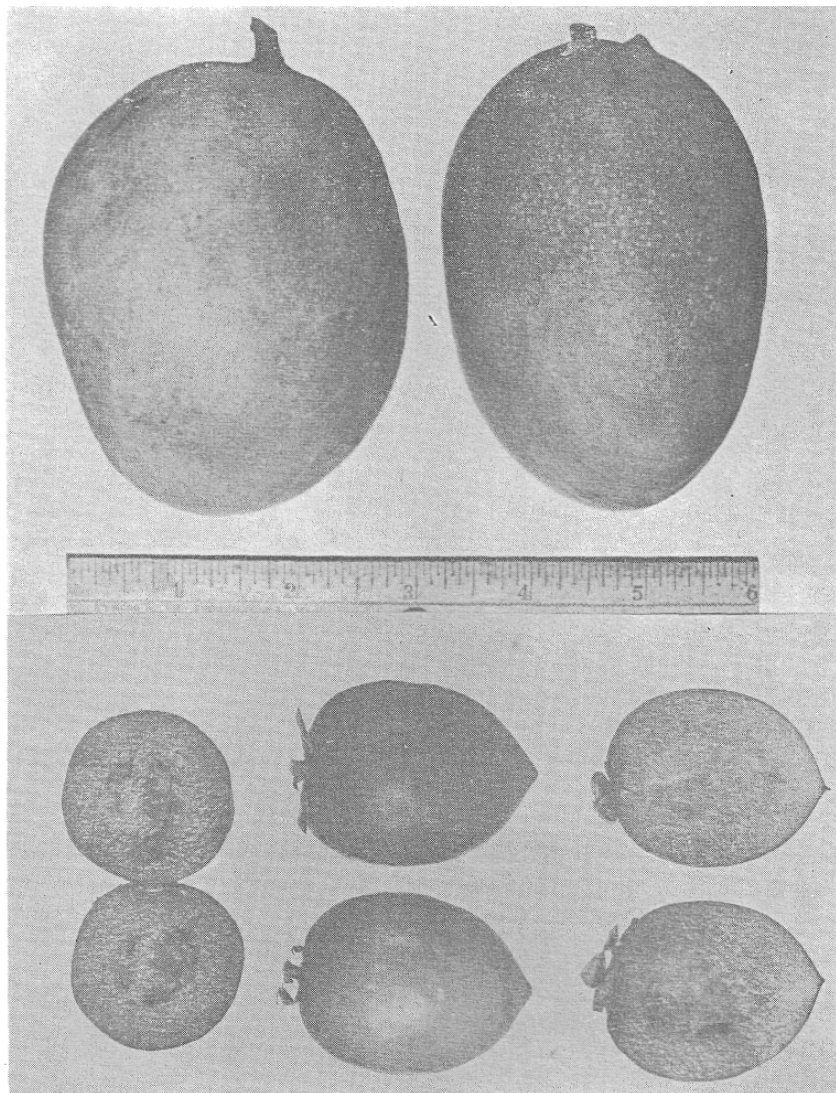


Fig. 5. No. 11, Heinlein Mango (Top). Fig. 6. No. 12, Horne Carissa (Bottom)

No. 12. Horne Carissa

A seedling grown from seed obtained from A. S. Home of California by David Sturrock of 1021 Camellia Road, West Palm Beach. This selection is being propagated.

Description of fruit. Shape broadly ovate (Fig. 6); base slightly indented to flat; apex variable, obtuse to somewhat rounded; weight $15\frac{1}{2}$ to 22 gms.; length $1\frac{1}{4}$ to $1\frac{1}{2}$ inches; width $1\frac{1}{8}$ to $1\frac{3}{16}$ inches; color cranberry red beneath whitish bloom; dots inconspicuous; surface texture smooth; skin paper-thin; flesh somewhat grainy texture; flesh separates readily from skin; flavor slightly acidulous to sweet; quality good; seed cavity approximately one-third diameter of fruit. Seeds 10-12 per fruit measuring $\frac{1}{4}$ in. long, $\frac{1}{8}$ in. wide, $\frac{1}{32}$ - $\frac{1}{16}$ in. thick; tan to light brown color.

¹ Milton Cob in furnished the description and photographs of the Mangos and the carissa.