

# **A STUDY ON THE FLOWERING AND FRUIT DEVELOPMENT CHARACTERISTICS OF “BA MAU” MANGO CULTIVAR GROWN IN CHO MOI DISTRICT, AN GIANG PROVINCE**

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## **Summary**

Aimed to properly establish cultivating technology applied for “Ba Mau” mango cultivar, a study on its flowering and fruiting processes was implemented on six year grafted trees grown in alluvial soil of Binh Phuoc Xuan commune, Cho Moi district, An Giang province from April to December. Results showed that the growth of inflorescence occurred within 21 days, with the average length of  $45.5 \pm 3.5$  cm and  $2,558 \pm 288$  flowers/inflorescence with 29% hermaphrodite flower. Maximum length of inflorescence was observed at 14th day after emergence, and stopped growing at 21<sup>st</sup> day after emergence. Full bloom of flowers occurred at 2 am and continued until 6 am in which hermaphrodite flowers accounted of 602 flowers/a branch bloomed earlier than the male ones. Male flower bloom completely at the 5<sup>th</sup> to 12<sup>th</sup> days with the total number of 1.38 in average, accounted for 75.8% of all the male flower ( $1,828 \pm 127$  flowers). Blooming of the whole inflorescence occurred within 18 days. Fruit drop appeared roughly at the 28<sup>th</sup> day after fruit setting, with its peak recorded of 95.03% at 14<sup>th</sup> day. That is reduced gradually until harvest with the average number of fruit remained at 1.9 fruits/bunch. Fruit developed in  $78.6 \pm 0.8$  days period. The maximum growth rate appeared at day 35 and 42 since fruit set for the normal and seedless fruit, respectively. Maximum fruit dimensions were observed in 63 – 70 days after setting period and harvested at 77 – 84 days after setting with average weight of  $950.1 \pm 191.1$  g for normal fruits and  $195.7 \pm 755$  for seedless ones.

**Keywords:** *Hermaphrodite flower, fruit development, Taiwan mango (Mangifera indica L.).*