

et al., 1989). The present research has been made on the floral mechanisms of mango and this very important aspect highly relevant to the fruit production.

The study is aimed to observe the number of male and hermaphrodite flowers of a panicle and the ratio of the male and hermaphrodite flowers of a panicle.

Materials and Methods

The study was initiated during blooming season of year 2010 to 2012 at Oway Orchard. Trees were grown under uniform agronomic and climatic conditions. There were seven replications in each year. A panicle was tagged on each side of plant. Panicle initiation data was noted with the emergence of first panicle on the tree. Male and hermaphrodite flowers were counted on panicles tagged twice a week throughout the flowering season with forceps and contact lens. Both male and hermaphrodite flowers were detached after counting. Then the percentage of male, hermaphrodite and total number of flowers was calculated. The experiment was laid out in the Randomised Complete Block Design (RCBD) and data was analysed by Least Significant Difference (LSD) at $P > 0.05$.

Results and Discussion

Number of male flowers in 2010

Statistical analysis showed that flowers number varied significantly ($P > 0.05$) among each other with respect to the number of male flowers. Maximum number of male flowers noted in year 2010 was 422.67 which were observed in basal portion of the panicle (Table 1 and Figure 1).

Number of hermaphrodite flowers in 2010

Highly significant ($P > 0.05$) difference among three portions were observed regarding number of hermaphrodite flowers (Table 1 and Figure 1). Maximum number of hermaphrodite flowers noted in year 2010 was 40.03 which were observed in basal portion of the panicle.

Table 1. Number of male and hermaphrodite flowers in the respective parts of panicle in year 2010.

Branch	Number of Flower (2010)					
	Apical		Middle		Basal	
	Male	Hermaphrodite	Male	Hermaphrodite	Male	Hermaphrodite
B 1	253.93	31.10	284.00	36.70	326.00	26.93
B 2	288.10	34.87	304.33	35.37	422.67	32.63
B 3	282.77	34.57	318.67	38.77	364.40	33.97
B 4	282.73	33.97	313.33	31.17	365.40	28.17
B 5	300.80	39.90	344.00	36.00	410.73	40.03
B 6	299.27	37.80	281.67	39.53	341.73	31.77
B 7	288.40	29.77	282.00	33.33	352.03	30.27
F-test	ns	ns	ns	ns	*	*
5% LSD	51.6255	8.2824	81.4411	7.1149	176.671	7.78228
cv%	10.2	13.5	15.1	11.2	26.9	13.7