

## **Effect of pruning for bearing trees planted at normal distance square and paired planting system of mango (*Mangifera indica* L.) cv. Langra in Madhya Pradesh**

**T.K. Singh, Ashish Kumar, Prashant Kumar and U.S. Bose**

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**ABSTRACT :** The field experiment was conducted in Madhya Pradesh during 2003 to 2010. At Fruit Research Station Kuthulia Farm, College of Agriculture Rewa under All India coordinated Research project on fruits. The treatment comprised of 13 treatments. The maximum tree height (8.08 m, ) were observed in treatment  $M_3T_1P_0$  “Thinning of crowded branchlet and centre opening after fruit harvest without paclobutrazole application” tree spread from E-W (11.98m), with the treatments  $M_3T_2P_1$  “Thinning of crowded branchlet and centre opening during rest period before emergence of new growth with paclobutrazole application” Tree spread N-S (11.88 m,) were observed with the treatment  $M_3T_1P_0$ : Thinning of crowded branchlet and centre opening after fruit harvest without paclobutrazole application”. The higher fruit yield per tree was observed with the treatment of  $M_3T_1P_1$  (90.36 kg/tree) “Thinning of crowded branchlet and centre opening after fruit harvest with paclobutrazole application”. The higher fruit weight and pulp percentage (271.67g & 78.91g) were observed with the treatment  $M_2T_1P_1$ : “Heading back of branchlets and 50cm level of alternate limbs of the tree after fruit harvest. with paclobutrazol application”. The Maximum Total Soluble Solid (TSS) and Acidity percentage (24.87 °B and 0.34) treatment  $M_2T_1P_1$  (Heading back of branchlets at 50 cm level on alternate limbs after fruit harvest with standard dose of paclobutrazol application). The overall results indicated that under pruning for bearing trees planting (10 x 10m) system of mango, the treatment  $M_3T_1P_1$  “Thinning of crowded branchlet and centre opening after fruit harvest with paclobutrazole application” recorded maximum yield per tree (90.36 kg/tree) and maximum yield (90.36q/ha). Also, this treatment has recorded maximum returns with B : C ratio 2.9.

**Key Words :** Pruning bearing mango, yield and fruit quality.