Abstract

The present investigation entitled “Response of some chemicals spray on mango (Mangifera indica L.) Cv. Amrapali” was carried out in 2001 and 2002 in the Department of Horticulture (Fruit) at Bihar Agricultural College, Sabour to evaluate the effectiveness of Urea, Zinc sulphate and Borax sprays in improving the yield and quality attributes of mango.

The treatments comprised of Urea 1 and 2 per cent, Zinc sulphate 0.5 and 1 per cent, Borax 0.5 and 0.8 per cent. The combinations of these chemicals were used including two controls i.e. water sprayed and unsprayed. There were sixteen treatments replicated thrice under Randomized Block Design.

The results showed remarkable influence of different chemicals on flowering, fruiting and quality characters. However, foliar application of Urea 2 per cent in combination with either ZnSO₄ 0.5 per cent or Borax 0.5 per cent were the most effective treatments in improving the flowering and fruiting characters of Amrapali mango.

Maximum fruit retention and size of fruit was found under Urea 2 per cent in combination with Zinc sulphate 0.5 per cent spray, however maximum weight of fruit was recorded with urea 2 per cent in combination with either Zinc sulphate 0.5 per cent or Borax 0.8 per cent.

All the treatments were effective in increasing the yield but Urea 2 per cent in combination with either Zinc sulphate 0.5 per cent or 1 per cent was most effective treatment.

Almost all quality parameters were improved by different treatments except controls, however Urea 2 per cent in combination with Zinc sulphate 0.5 per cent was found to be the best treatment.

On the basis of above results it may be concluded that Urea 2 per cent + Zinc sulphate 0.5 per cent spray, first before panicle emergence and second just after fruit-set was the best treatment to get maximum yield and best quality fruits of mango.

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