

Research Article

## Fruit Dropping in Kinnow Mandarin and its Management Through Spray Scheduling

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### Abstract

Field studies were conducted to assess the fruit dropping {pathological (biotic) + physiological (abiotic)} in kinnow (*Citrus reticulata*) to develop management strategies. During the survey 33.92 to 36.40 per cent fruit loss was observed due to dropping (pathological + physiological) per annum in Sriganganagar at Rajasthan. Three sprays of Carbendazim @ 0.1% or Propineb @ 0.2% or yeast bioagent *Sporidiobolus pararoseus* @  $10^9$  cfu ml<sup>-1</sup> along with gibberellic acid @ 20 ppm during the month of April, August and September and two alone during March and October gave significant control of fruit dropping. These treatments besides rendering minimum fruit dropping (24.75, 27.10 and 30.90%) produced maximum fruit yield of 132.67, 125.75 and 119.63 kg/plant respectively. The difference among these treatments was however non significant. These findings may pave the way for eco-friendly management of fruit dropping in kinnow by using spray schedule of locally isolated yeast bioagent *S. pararoseus*.

**Key words:** Fruit dropping, kinnow mandarin, pathological, physiological, spray scheduling

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