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## By Means of Gun Sprayers to Induce Flowering in Mango Trees

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Gun sprayers play a crucial role in effective mango farming, especially for inducing flowering and maintaining tree health. The proper application of chemicals like Malathion, Acephate, Sulphur, and Nativo ensures optimal results. This article provides insights into using these substances with gun sprayers and highlights their benefits for mango cultivation.

### Why Use of Gun Sprayers in Mango Farming

Gun sprayers are essential tools for evenly applying pesticides, fungicides, and other treatments across mango orchards. Their benefits include:

- **Efficient Coverage:** Ensures even distribution across large canopies.
- **Cost-Effective:** Reduces chemical wastage by targeting specific areas.
- **Time-Saving:** Speeds up the application process.
- **Improved Penetration:** Reaches inner foliage and hard-to-access areas.

### Chemicals for Inducing Flowering and Their Benefits

Chemical	Purpose	Application Method	Key Benefits
Malathion	Insect control	Mixed with water and sprayed	Protects trees from pests that hinder flowering.
Acephate	Pest management	Sprayed as a systemic insecticide	Targets sucking pests effectively.
Sulphur	Fungicide and micronutrient provider	Sprayed as a fine mist	Controls powdery mildew and improves flowering.
Nativo	Fungicide for disease prevention	Applied in a diluted solution	Prevents fungal diseases like anthracnose.

### Recommended Dosages for Each Chemical

Chemical	Dosage per 15 Liters of Water	Timing
Malathion	2-3 ml	During pre-flowering stages
Acephate	1-2 gm	At pest infestation signs
Sulphur	3-4 gm	Early flowering or disease onset
Nativo	1-2 gm	Before and during flowering stages

### Steps for Effective Gun Sprayer Usage

1. **Prepare the Solution:**
  - Measure the recommended dosage of the chemical.
  - Mix thoroughly in a bucket of water to ensure even dilution.
2. **Load the Sprayer:**
  - Pour the prepared solution into the gun sprayer tank.
  - Ensure the tank is clean and free from residues of previous chemicals.

### 3. Adjust the Spray Nozzle:

- Set the nozzle for a fine mist or stream, depending on the requirement.

### 4. Spray the Trees:

- Start at the base of the tree and move upward.
- Ensure the spray reaches the canopy and undersides of leaves.

### 5. Clean the Equipment:

- After spraying, wash the tank and nozzle thoroughly.



### Tips for Better Results

- **Spraying Time:** Perform spraying during early morning or late evening to avoid evaporation.
- **Weather Conditions:** Avoid spraying during strong winds or rainfall.
- **Protective Gear:** Wear gloves, masks, and goggles to prevent chemical exposure.

### Expected Results

Parameter	Without Treatment	With Gun Sprayer Treatment
Flower Induction	Delayed and inconsistent	Faster and uniform
Pest and Disease Control	Limited and ineffective	Thorough and long-lasting
Mango Yield	Low and irregular	High and consistent

Gun sprayers, combined with the right chemicals, ensure that mango trees receive the care they need for optimal flowering and yield. By following the recommended practices, farmers can maximize their returns and maintain the health of their orchards.