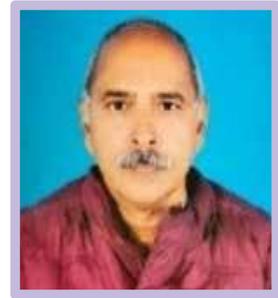


Banana Bait Eco-Trap: Natural Fruit Fly Control

Profile of Innovator

Name : Amarjeet Kumar Sinha
Age : 61 Years
Education : Matriculate
Experience : 30 Years
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Brief description of Innovation

Shri Amarjeet Kumar Sinha has developed low-cost fruit fly management technique for mango, guava, and other soft fruits involves preparing a bait using overripe bananas with a few drops of Nuvacron, placed inside half-cut waste plastic bottles. These bait stations are then hung on trees. The bait attracts and traps fruit flies within hours. It remains effective for 6-7 days, significantly reducing fruit fly populations and preventing crop damage.

Innovation's Highlights

Easy preparation method, no sophisticated skill is required, very cheap and highly effective and reducing fruit fly infestation to a larger extent thereby farmers getting higher marketable yield.

Benefits/Advantages

This bait is easy to prepare and easy to install, since no sophisticated skill is required. Only 25-30 baits (one bait costing Rs. 3-4) can easily manage one-acre area of Mango and other rainy season fruit crops. Cost involved per ha is only Rs. 400- 450. But the cost involved in readymade trap is about Rs. 2000 per ha. This technique has no side effect on consumer, and is eco-friendly, less cumbersome and can be prepared easily at farm level. About 90% reduction in fruit fly infestation in orchard was observed, which reflected the significance of innovation.



Banana bait for managment of fruit fly



The farmer making banana bait

Scope & Potential of Innovation for Wider Reach/Out Scaling

Since Bihar holds the fourth position in India for mango production. This innovation holds, huge potential for scaling up in larger areas. After assessing the success of this innovation, it can be used for guava, banana, and other fruit crops where farmer can reduce their economic losses caused by fruit fly.

Scientific Validation required

Needs validation for use in other soft fruit like Jamun, vegetable crops like cucumber, long melon, bottle gourd, etc.

Domain

Horticulture, Fruit Pest Management, Low-cost Farm Innovation