

OFT 1 – Eco-friendly management of banana Scarring beetle (*Basilepta subcostatum* Jacoby)

Result: The technology option 1 (TO₁) showed maximum fruit yield(38 ton/ha) with highest B:C ratio(3.40)

Problem diagnosed	Severe infestation of Banana Scarring beetle in Banana crop in Vaishali district.
Year of start	2023-24
Treatments	<p>FP : Chlorpyriphos 20 EC@ 1.0 ml/lit.</p> <p>TO₁: (i) Soil application of Chlorpyriphos 20 EC @ 4 ml/lit. (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag</p> <p>TO₂: (i) Soil application of Beauveria bassiana (1x 10⁷ cfu/ml) @ 200 ml/plant (ii) Bunch spraying with Acephate (0.11%) just after first hand opening followed by bunch cover with Polypropylene bag</p>

Technologic al Options	No. of Scars per figure	No. of scars/5 cm ² leaf surface Bunch weight (Kg/Plant)	Mean fruit infestation (%)	Bunch weight (Kg/Plant)	Fruit Yield (ton/ha)	B:C ratio
FP	10.8	12.2	11.5	14.50	25	2.32
TO ₁	3.6	7.65	7.6	17.95	38	3.40
TO ₂	4.2	9.73	9.2	16.35	32	2.82
SEm(±)	0.13	0.84	0.18	0.47	1.14	-
CD (P=0.05)	0.40	2.53	0.53	0.82	2.60	-
CV(%)	2.53	3.66	2.85	3.64	3.82	-

