

OFT RESULT - 1

Title	Assessment of IPM module for the management of shoot borer, top borer in sugarcane.
Season & Year	Zaid 2025
Problem	Loss in cane yield (10-24%) of the crop leading to reduction in farmer's income due to incidence of shoot borer, top borer in sugarcane.
Thematic Area	Pest and disease management
Name & Character of Technology	Assessment of IPM module for the management of shoot borer, top borer
Source of Technology	SVPUA&T, Meerut, 2024
Farmers Practice (T₁)	Carbofuran 3G @ 30 kg/ha and Chlorantraniliprole 18.5 SC @375 ml/ha
Refined practice, if Any (T₂) Seed treatment: Chlorpyrifos 20 EC @ 40ml and carbendazim @50g/10lit water Soil application: Chlorantraniliprole 0.4 G @22.5 kg/ha at planting and drenching of chlorantraniliprole 18.5 SC @375 ml/ha in 700 lit. of water at 60 DAP Installation of Tricho-cards @7.5 card/ha(@50000 parasitoid/ha) at 45, 60, 75, 150 and 180 DAP Pheromone traps @ 27/ha at 45 DAP (lure change at an interval of 45 days)	
Name of Variety	Co.0238
No. of Trials	05



OFT RESULT

Techno- logy option	No. of trails	Germin- ation (%)	No. of tillers / 10 m ²	Height (m) of healt hy cane	Height (m) of infest ed cane	Cane girth (cm) of Healt hy cane	Cane girth (cm) of infeste d cane	Weight (g) of healthy cane (per 05 canes)	Weight (g) of infested cane (per 05 canes)	Infestation of top borer	Infestation of shoot borer	Infestation of other pests
T ₁	05	45.67	141.61	2.58	1.56	5.37	3.24	6.87	4.62	13.76	15.83	12.85
T ₂		51.56	162.59	2.82	1.63	6.46	3.56	11.54	9.56	4.63	5.78	3.54

Treatments	Yield (q/ha)	Increase in yield (%)	Cost of cultivation (Rs/ha.)	Gross returns (Rs/ha.)	Net returns (Rs/ha)	B:C ratio
T ₁	765.67	23.21	154576	283298	128722	1.83
T ₂	943.41		161365	349062	187697	2.16
Interference & Feed back		The assessed technology of seed treatment with chlorpyriphos 20 EC @ 40ml and carbendazim @50g/10lit water and Soil application with chlorantraniliprole 0.4 G @22.5 kg/ha at planting and drenching of Chlorantraniliprole 18.5 SC @375 ml/ha in 700 lit. of water at 60 DAP reduced the percentage of insect infestation of top borer from 13.76 3 to 4.63% & shoot borer from 15.83 to 5.78 and yield increased by 23.21%.				
Farmers Reaction		Farmers appreciated the technology, application of Tricho-cards @7.5 card/ha(@50000 parasitoid/ha) at 45, 60, 75, 150 and 180 DAP and Pheromone traps @ 27/ha at 45 DAP manage the shoot borer in sugarcane as it reduced the insect infestation effectively and significantly increased the yield of sugarcane.				
Any Other Information		Sale Price. Rs. 350/q				