

OFT RESULT - 2

Title	Yellow Stem Borer and Sheath Blight in Paddy
Season & Year	Kharif 2025
Problem	Heavy infestation of Yellow Stem Borer and Sheath Blight in paddy
Thematic Area	Pest and disease management
Name & Character of Technology	Application of carbendazim 50% WP 2g/kg at time of seed nursery sowing and installation of pheromone traps 25-30 days after transplanting
Source of Technology (Year)	SVPUA&T, Meerut, 2024
Farmers Practice (T ₁)	Application of cartap hydrochloride 4GR @ 20Kg /ha+ Tebuconazole 25.9 EC 750 ml /ha
Refined practice, if Any (T ₂)	Seed Treatment with carbendazim 50% WP 2g/kg at time of seed nursery sowing and installation of pheromone traps 25-30 days after transplanting (2 times at 30 days interval and 30-40 traps per ha.) whereas application of Trichocards at 40-45 days after transplanting.
(T ₂)	Application of chlorantraniliprole 0.4% GR @ 10Kg/ha at ETL of stem borer and azoxystrobin 18.2 % + difenoconazole 11.4% SC @ 500 ml/ha
Name of Variety/breed	HKR-47
No. of Trials (Replication)	05



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Technology Option	No. of trials	Plant population per m ² at 20-25 days	No. of effective tillers (60 DAT)	Infested Tillers / meter Square			Disease appearance (60 Days after transplanting)
				Dead hearts (%)		White years (%) at panicle initiation	
				30 DAT	45 DAT		
T1	05	34.45	9.45	5.4	12.65	5.12	14.74
T2		33.27	11.56	5.1	4.82	1.91	6.28
T3		36.83	13.34	4.9	2.21	1.42	3.48

Technology Option	No.of trials	Grain Yield (qt./ha)	Straw Yield (qt./ha)	Increase in yield (%)	Cost of Input/ha (Rs)	Gross Return	Net Return (Rs./ha)	B:C Ratio
T1-	05	43.78	41.73	--	52782	91938	39156	1.74
T2-		54.62	52.61	20.17	54328	114702	60374	2.11
T3-		61.39	58.72	34.13	59456	128919	69463	2.17

Interference & Feed back	Application of chlorantraniliprole 0.4% GR @ 10Kg/ha at ETL of stem borer and azoxystrobin 18.2 % + difenoconazole 11.4% SC @ 500 ml/ha found more effective in terms of disease incidence.
Farmers Reaction	Farmers like this technology due to low incidence of Yellow Stem Borer and Sheath Blight .
Any Other Information	Sale Price. Rs. 2300/q