

KVK, Rewari

On Farm Trials 2022 (Summary)

OFT (Technology Assessment)			
1			
Number of OFTs		Total no. of Trials	
Targets	Achievement	Targets	Achievement
8	8	80	80

On-Farm Trials

Particulars	OFT 1			OFT 2			
Title	Integrated nutrient management in Pearl millet			Management of leaf spot and blight diseases in Marigold			
Problem	Lower productivity and profitability due to deficiency of nutrients in the soil			Yield loss and poor quality			
Technology Selected	Integrated nutrient management NPKZn (125 :60 :30:25) +5ton compost/ ha.+ Bio fertilizer (Recommended)			Three spray of Mencozeb (0.2%) at fortnightly interval from 1st appearance of disease			
Source of Technology	CCSHAU, Hisar			CCSHAU,Hisar			
Thematic area	Integrated nutrient management			Disease Management			
Performance of the Technology	16.9% increase in Yield			38.46% increase in Yield			
Farmers Feed back	Majority of the farmers have fully convinced with efficacy of INM in yield.			Vegetable growing farmers have satisfied with efficacy of this intervention.			
Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio	Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ NPKZn(60:30:0:0) (FP)	2630	34058	2.01	T ₁ One spray of Mencozeb (0.2%)	13000	270000	2.08
T ₂ NPKZn (125 :60 :30:25) +5ton compost/ ha.+ Bio fertilizer (Recommended)	3075	44612	2.32	T ₂ Three spray of Mencozeb (0.2%) at fortnightly interval from 1st appearance of disease	18000	460000	2.77
Realization Parameters							
1	Plant height (191.8cm - 5.26%)			1	Disease incidence (05%)		
2	Ear head length (23.4cm - 12.5%)			2	Reduction in disease (87.5%)		

On-Farm Trials

Particulars	OFT 3			OFT 4			
Title	Broad leaf Weed management of Wheat crop			Management of early blight diseases in Potato			
Problem	Reduce production of Wheat due to infestation of BLW			Yield loss and poor quality			
Technology Selected	Carfentrazone-ethyl 40% + metsulfuron-methyl 10%(50 DF) 50gm/ha			Three spray of Mancozeb (0.3%) at weekly interval from the 1st appearance of diseases			
Source of Technology	CCSHAU,Hisar			CCSHAU,Hisar			
Thematic area	Weed Management			Disease Management			
Performance of the Technology	5% increased in yield			30% increased in yield			
Farmers Feed back	Farmers viewed that application of herbicide has found economical and easy to manage as compared to hand weeding			Vegetable growing farmers have convinced with efficacy of this intervention.			
Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio	Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ Metsulfuron methyl 20 WP 20gm/ha	5000	114915	3.13	T1 One spray of Mancozeb (0.3%)	20000	40000	1.40
T ₂ Carfentrazone-ethyl 40% + metsulfuron-methyl 10%(50 DF) 50gm/ha	5250	123352	3.29	T ₂ Three spray of Mancozeb (0.3%) at weekly interval from the 1st appearance of diseases	26000	135000	2.77
Realization Parameters							
1	Spike length (10.6cm - 3.92%)			1	Disease incidence (06%)		
2	Test wt. (36.8 g -3.66%)			2	Reduction in disease (85%)		

On-Farm Trials

Particulars	OFT 5			OFT 6			
Title	Assessment of Potassium and Zinc sulphate fertilization on yield of Barley			Assessment of foliar application of boron on yield of Tomato			
Problem	Lower productivity and profitability			Lower productivity and profitability			
Technology Selected	Potassium and Zinc sulphate (15:25)			Foliar application of 0.3 % boron			
Source of Technology	CCSHAU, Hisar			CCSHAU, Hisar			
Thematic area	Nutrient Management			Nutrient Management			
Performance of the Technology	16.4% increase in yield			10.54% increase in yield			
Farmers Feed back	Farmers convinced that application of these nutrients increase the yield attributing characters and ultimately enhance yield.			Farmers convinced that application of boron decreases uneven ripening and corky pits in the fruits and obtained healthy fruits with more yield.			
Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio	Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ NPKZn(60:30:0:0)	4150	41450	1.97	T ₁ NPKZn(100:60:50:25)	49300	169240	2.33
T ₂ NPKZn(60:30:15:25)	4830	52158	2.16	T ₂ NPKZn(100:60:50:25)+ Three foliar application of 0.3 % boron	54500	199915	2.57
Realization Parameters							
1	Plant height (103.6 cm - 5.3 %)			1	Average fruit wt. (71.2g/plant - 8.7%)		
2	Ear length (14.2cm - 12.6%)			2	No. of fruits/plant (43.2 - 1.4%)		

On-Farm Trials

Particulars	OFT 7			OFT 8			
Title	Effect of different sowing methods on wheat			Effect of different tillage practices on cotton			
Problem	Lower productivity and Higher cost cultivation			Low yield			
Technology Selected	Super Seeder			Reversible MB plough			
Source of Technology	ICAR-CIAE, Bhopal			CCSHAU, Hisar			
Thematic area	Resource conservation			Resource conservation			
Performance of the Technology	2.72% increase in yield and reduce cost of cultivation of Rs. 6000/ha			28% increased in yield			
Farmers Feed back	Majority of the farmers have fully convinced with efficacy of cost saving intervention.			Farmers were satisfied with this technologh			
Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio	Treatments	Yield (kg/ha)	Net Return (Rs/ha)	B:C Ratio
T ₁ Seed drill	5130	89600	2.4	T ₁ Harrow/Cultivator	1350	52550	1.6
T ₂ Super seeder	5270	101137	2.8	T ₂ Reversible MB plough	1530	65400	1.8
Realization Parameters							
1	Reduction in cost of cultivation			1	No. of Bolls/plant (28.35 - 12.5%)		
2	1000 grain wt. (36.4 g - 12.34%)			2	Boll wt. (6.65g - 26.9%)		