KVK, Rewari

On Farm Trials 2021 (Summary)

OFT (Technology Assessment)								
1								
Nun	nber of OFTs	Total no. of Trials						
Targets	Achievement	Targets	Achievement					
06	06	60	60					

Nutrient Management in Wheat

Problem Identified- :- Lower productivity and profitability in Wheat.

Cause of problem:- Deficiency of nutrients in the soil

Previous crops - Pearl n	Irrigated Soil T			Soil Ty	/pe - Loamy Sand				
Technology Option	No. of trials	Flant height (cm)	Performance No. of effective tiller/plant	Indicate Spike length (cm)	or No. of spikele t/Spike	Grain Yield (qt./ha)	Incre ase in Yield (%)	Net return (Rs./ha.)	B:C Ratio
Control (FP)		88.2	5.6	11.5	16.6	46.4		92068	2.83
Potash @ 30 kg/ha and Z _n SO ₄ @ 25kg/ha. (RP)	10	92.5	7.4	13.8	19.9	54.5	17.4	111812	3.13



Feed Back - Application of Potassium and Zinc sulphate increased tillering, no. of grains/spike and yield of wheat

Effect of different seed rate on yield of Chickpea

Problem Identified :- Low yield in Gram

Cause of problem :- Poor plant population

Previous crop	ajra		Soil Tyj	pe - Sandy	Loam					
Technology	No. of		Performa	nce Indicator		Increase	Net	B:C		
Option	trials	No of plants/sqNo. of seeds/Test wt.(g) 1000-grain wt.Yield (qt./ha)m.Podswt.		Yield (qt./ha)	in Yield (%)	Return (Rs./ha)	Katio			
40 kg/ha(FF)		24.4	1.6	163.5	13.65		41998	2.3		
60 kg/ha	10	26.5	1.8	163.7	15.10	10.63	49900	2.54		
						-	T.	¥.		
Feed Back – Farmers were satisfied with plant population										

Management of shoot and Fruit borer in Brinjal crop

Problem Identified :- Low yield

Cause of problem :- Heavy infestation of shoot & fruit borer

Previous crops-	Must	ard	Irrigated	1 -		Soil Type	- Sandy L	oam
Technology Option	No. of trials	No. of fruits/pla nt	Performanc Infected fruit/plant	e Indicator Insect infestation	Yield (t/ha)	Increase in Yield (%)	Net Return (Rs./ha)	B:C Ratio
T ₁ -Control (FP) T ₂ -Collect and destroy affected shoot & fruit Foliar spray of 0.02% spinosad 45EC	10	20 30	8	40	37.5 50	33.33	225000 550000	2.50 3.75



Farmers feed back - Application of spinosad reduce infestation of shoot and fruit borer and increased yield of brinjal

Assessment of Nutrient management on yield of Cotton

Problem Identified :- Lower productivity and profitability in Cotton

Cause of problem :- Low fertility status of soil

Farmers do not use Potassium nitrate at flowering & Boll formation stage

Previous crops - Whea	Irrigated				Soil Type - Loamy Sand			
Technology Option	No.of trials	Performance IndicatorPlantNo. ofBollYi			Yield	Increase in	Net return	B:C Ratio
		height (cm)	Bolls/Pla nt	weight (gm)	(qt./ha)	Yield (%)	(Rs./ha.)	
Control (FP)		108.0	26.0	3.78	17.35		57996	2.34
Two foliar application of 1.0% Potassium Nitrate (flowering & Boll formation stage) (RP)	10	116.5	34.5	4.98	19.30	11.2	82366	2.70
State - State House	1 Park	A Stand	Walter State	a contract	No.	in the star	6 5 0	- Pilmin



Feed Back - Foliar application of potassium nitrate reduce dropping of flowers and increased no. and size of bolls

Assessment of different sowing times of African Marigold (Cv. Pusa Bahar) during winter

Problem definition :- Low yield and poor quality of flowers during winter season

Cause of problem:- :- Farmers are not adopting recommended sowing time of Cv. Pusa Bahar

Farming situation - Irrigated

Soil Type - Sandy loam

		Perform	nance Indica	tor				
Technology Option	No. of trials	Days taken to flowering after sowing	No. of flowers per plants	Yield (t/ha)	% Increase in yield	Net Returns (Rs./ha)	BC Ratio	
T1 sowing in mid August (FP)		105	44	21.5		480000	2.86	
T2 Sowing in mid October (recommended) IARI, Delhi	10	98	58	25.0	16.28	700000	3.33	



Feed back -Sowing in mid October reduce days taken to flowering and increased no. of flowers and yield of marigold

Assessment of Super seeder in wheat cultivation

Problem definition : Low yield

Cause of problem : High cost of cultivation, Delayed sowing

Previous crops -	Cotton	Irrigated Soi				l Type – Sandy Loam			
Technology	No. of	Per	rformance Ind	%	Net	BC			
Option	trials	No. of	Thousand	Spike	Yield	Increase in	Returns	Ratio	
		grains/spike	grain wt. (g)	length	(qt./ha	yield	(Rs./ha)		
				(cm))				
Seed drill (FP)		57.6	41.5	11.6	46.6		57399	2.14	
	10					13.2			
Super seeder		63.1	46.1	13.4	53.7		68660	2.31	



Feed Back – Super seeder reduce cost of cultivation and time for field preparation

Performance of different tillage practices in Bajra cultivation

Cause of problem :- Poor root formation due to hard crust layer Higher weeds infestation

Previous crops - Mustard

Irrigated

Soil Type- Loamy Sand

Technology Option	No. of trials	Plant height (cm)	Performan Earhead length (cm)	ce Indicator 1000 grain wt. (g)	Yield (qt/ha)	Increase d in Yield (%)	Net return (Rs./ha.)	B:C Ratio
Land prepared by harrow, cultivator (FP)	10	120.2	25.4	6.9	21.7	-	38332	2.69
Land prepared by reversible MB plough (Recommended)		180.1	27.3	7.3	24.9	12.8	47643	3.32
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