

KVK, Rewari

On Farm Trials 2019 (Summary)

OFT (Technology Assessment)			
1			
Number of OFTs		Total no. of Trials	
Targets	Achievement	Targets	Achievement
11	11	110	110

Assessment of performance of Wheat variety HD-3086

Problem Identified :- Low yield of Wheat

Cause of problem :- Low productivity of existing varieties

Previous crops- Bajra

Irrigated -

Soil Type - Sandy Loam

Technology Option	No. of trials	Performance Indicator				Increase in Yield (%)	Net Return (Rs./ha)	B:C Ratio
		Plant height (cm)	No. of seeds/ Spike	Test wt.(g) 1000-grain wt.	Yield (qt./ha)			
HD-2967 (FF)	10	88.50	60	40.00	55.85	--	78341	2.43
HD-3086		83.00	62	44.50	57.25	2.50	81736	2.50



Assessment of Micro Nutrient Management in Wheat

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

Cause of problem:- Micro nutrient deficiency in soil.

Farmers do not use micro nutrient fertilizers.

Deficiency of zinc effect on uptake of phosphorus.

Previous crops - Cotton

Irrigated

Soil Type - Loamy Sand

Technology Option	No.of trials	Performance Indicator				Increase in Yield (%)	Net return (Rs./ha.)	B:C Ratio
		Plant height (cm)	No. of grains /spike	Test wt.(g) 1000-grain wt.	Yield (qt./ha)			
No application of Zinc sulphate and Ferrous sulphate (F.P)	10	101.4	12.2	35.6	49.50	--	70360	2.23
ZnSO₄ @ 25kg/ha. & Ferrous sulphate @ 0.5% foliar application (R.P)		103.1	15.5	38.4	56.70	14.54	85110	2.49



Assessment of integrated nutrient management on yield of Pearl millet

Problem Identified- :- Low yield in Pearl millet

Cause of problem:- Imbalanced fertilizer application
 Low fertility status of soil

Previous crops - Mustard

Irrigated

Soil Type- Loamy Sand

Technology Option	No. of trials	Performance Indicator			Increase in Yield (%)	Net return (Rs./ha.)	B:C Ratio
		Earhead length (cm.)	1000 grain wt. (g)	Yield (qt/ha)			
NPKZn(60:30:0:0) (FP)	10	26.67	2.55	22.4	--	28320	2.08
NPKZn (125 :60 :30:25) +5ton compost/ ha.+ Bio fertilizer (Recommended)		29.36	3.28	28.7	28.0	40130	2.30



Reuters/Amit Dave

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 recommended dose of fertilizers

Deficiency of zinc effect on uptake of phosphorus.

Previous crops - Wheat

Irrigated

Soil Type - Loamy Sand

Technology Option	No.of trials	Performance Indicator				Increase in Yield (%)	Net return (Rs./ha.)	B:C Ratio
		Plant height (cm)	No. of Bolls/Plant	Boll weight (gm)	Yield (qt./ha)			
NPKZn (58:25:0:0) (Farmers Practice)	10	105.0	28.0	4.46	18.75	--	57996	2.34
NPKZn(175:60:60:25) (Recommended Practice)		118.5	35.24	4.92	24.25	29.3	82366	2.70



Assessment of performance of early Cauliflower varieties

Problem definition :- **Low net return**
Cause of problem:- :- **Low average yield**
Low market rate in main crop season

Previous crops - Okra

Irrigated

Soil Type - Loamy Sand

Technology Option	No.of trials	Performance Indicator			% Increase in yield	Net Returns (Rs./ha)	BC Ratio
		Days taken to curd harvesting after transplanting	Average curd weight gram	Yield (qt/ha)			
Pusa Kartiki	10	105	500	145.0	8.27	215000	3.87
Pusa Ashwini		100	550	157.0		239000	4.19

Performance of cauliflower varieties Pusa Ashwini was better than Pusa Kartiki

Assessment of performance of Marigold varieties during winter season

Problem definition :- Low yield of Marigold during winter season

**Cause of problem:- Low potential yield
Short flowering duration (January-February)**

Previous crops - Wheat

Irrigated

Soil Type - Sandy Loam

Technology Option	No. of trials	Performance Indicator			% Increase in yield	Net Returns (Rs./ha)	BC Ratio
		Days taken to flowering after sowing	No. of flowers per plants	Yield (qt/ha)			
Pusa Basanti F.P	10	135	52	170.0	14.70	4,10,000	5.10
Pusa Bahar		95	58	195.0		4,85,000	5.85



Performance of different tillage operations for sowing of Mustard

Problem definition : High cost of cultivation and low production

Cause of problem : High cost of implement
less pulverization of soil

Previous crops - Bajra

Irrigated

Soil Type - Sandy Loam

Technology Option	No. of trials	Performance Indicator			% Increase in yield	Net Returns (Rs./ha)	BC Ratio
		No. of siliqua/plant	1000 grain wt. (g)	Yield (qt./ha)			
Land prepared by harrow + cultivator	10	498	3.21	19.24	3.08	52495	2.67
Land prepared by rotavator +harrow		509	3.52	19.73		56055	2.79



Effect of different farming operations for sowing of Wheat

Problem definition : High cost of cultivation and low production

Cause of problem : High cost of implement
less pulverization of soil

Previous crops - Cotton

Irrigated

Soil Type – Sandy Loam

Technology Option	No. of trials	Performance Indicator			% Increase in yield	Net Returns (Rs./ha)	BC Ratio
		No. of seeds/ Spike	1000 grain wt. (g)	Yield (qt./ha)			
Land prepared by harrow+cultivator	10	59	43.35	47.88	10.69	51844	2.05
Land prepared only rotavator		62	44.65	53.00		62750	2.28



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