KVK, Rewari

On Farm Trials 2018 (Summary)

OFT (Technology Assessment)							
1							
Nui	nber of OFTs	Total no. of Trials					
Targets	Achievement	Targets	Achievement				
10	09	100	90				

OFT-2: MICRO NUTRIENT MANAGEMENT IN MUSTARD

Problem Identified-:-Lower productivity and profitability in Mustard cultivation due to deficiency

of micro nutrients in the soil.

Cause of problem: Yield losses due to micro nutrient deficiency in crop (10-20%)

Farmers do not use micro nutrient fertilizers

Low oil content in mustard due to sulphur deficiency.

Deficiency of zinc sulphate effect on uptake of phosphorus.

Technology Option	No.of trials	Plant height (cm)	No. of Siliquae/pl ant	No. of seeds/ Siliquae	Test wt.(g) 1000-grain wt.	Yield (qt./ha)	Increase in Yield (%)	Net return (Rs./ha.)	B:C Ratio
No application of Zinc sulphate and sulphur (F.P)	10	190	82.4	16.5	4.4	23.60		69908	3.09
Z _n SO ₄ @ 25kg/ha. & Sulphur @ 25kg /ha. (R.P)	10	202	90.2	18.4	5.2	27.50	16.52	81363	3.38



OFT-3: :- MANAGEMENT OF MICRO NUTRIENT IN WHEAT

Problem Identified-:- Lower productivity and profitability in Wheat cultivation due to deficiency

of micro nutrients in the soil.

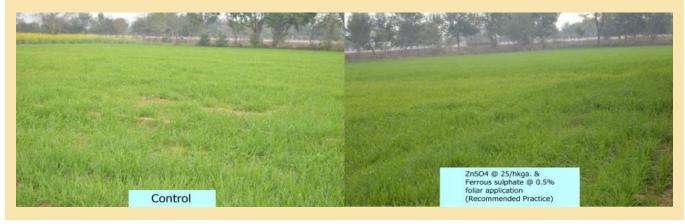
Cause of problem: Yield losses due to micro nutrient deficiency in crop (10-20%)

Micro nutrient deficiency in soil.

Farmers do not use micro nutrient fertilizers.

Deficiency of zinc sulphate effect on uptake of phosphorus.

Technology Option	No.of trials	Plant height (cm)	No. of grains /spike	Test wt.(g) 1000- grain wt.	Yield (qt./ha)	Increas e in Yield (%)	Net return (Rs./ha.)	B:C Rati o
No application of Zinc sulphate and Ferrous sulphate (F.P)	10	92.5	36.6	39.4	48.50		61983	2.17
Z _n SO ₄ @ 25/hkga. & Ferrous sulphate @ 0.5% foliar application (R.P)	10	101.5	40.8	42.9	56.00	15.46	78828	2.48



OFT-4: EVALUATION OF WHEAT VARIETY HD-3086

Problem Identified- :- Low productivity in Wheat

Cause of problem:- Low yield of old variety

Technology option	No.of trials	Yield (qt/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC Ratio
HD-2967 (Farmers Practice)	10	55.65		72731	2.32
HD-3086 (Recommended Practice)	10	57.0	2.42	75890	2.38



OFT-5 :-IMPACT OF ZINC & UREA SPRAY ON PRE-MATURE FRUIT DROP IN BER

Problem Identified-:- Pre-Mature fruit drop in ber orchard effecting yield losses about 30%

Cause of problem:- Losses due to fruit drop 15-30 %

Imbalance use of fertilizer Farmers avoid zinc application

Technology option	No. of trials	Pre- Mature fruit drop (%)	Fruit Yield (t/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC Ratio
Control (FP)		22	20		250000	2.67
Two spray of zinc sulphate (0.5%) & urea (1.5%) with 500 lt of water in the month of July & November	10	5	24	20	320000	3.0

OFT-6:-MANAGEMENT OF NEMATODE THROUGH RESISTANT VARIETY IN TOMATO

Problem definition: Low yield and quality of tomato due to infestation of root knot nematodes.

Cause of problem:- Yield losses due to root knot nematodes above 10%

Heavy infestation of root knot nematodes

Evaluate nematodes resistant variety

Nematodes management is very expensive

Technology option	No. of trials	Infestation of root knot nematodes (%)	Fruit Yield (t/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC: Ratio
Pusa hybrid -4 (FP)	10	13	48.00		264000	3.20
Pusa hybrid -2			50.50	5.28	284000	3.36

OFT-7: IMPACT OF TIME OF SOWING IN QUALITY & YIELD OF FRENCH MARIGOLD

Problem definition: Low yield & quality of French marigold due to sowing under un recommded

sowing time.

Cause of problem:- Yield losses due to unfavorable sowing time

Farmers not adopt recommended sowing time

Sowing & seedlings transplanting in high temperature

Technology option	No. of trials	Yield (t/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC Ratio
Sowing in 1st fortnight of August (FP)	10	12		165000	3.20
Sowing in 1st fortnight of September(R.P)		15	25	225000	4.00



OFT-8:-WEED MANAGEMENT IN PEA BY TWINE HAND WHEEL HOE

•Problem definition :-Low yield (15-20%)

•Cause of problem:- Heavy infestation of weeds after 1st & 2nd irrigation

Poor weed management practices Hand weeding is very expensive

Technology option	No. of trials	Yield (q/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC Ratio
No Weeding (FP)	10	23.0	-	62500	3.12
Twine hand wheel hoe (2 Times, after 1 st & 2 nd irrigation)		26.6	11.54	75900	3.49



OFT-9: ASSESSMENT OF DIFFERENT TILLAGE PRACTICES ON WHEATYIELD

•Problem definition :- Low productivity & high cost of land preparation.

•Cause of problem:- High cost of cultivation

Hard crust layer formed

Technology option	No. of trials	Yield (q/ha.)	Increase in yield(%)	Net return (Rs./ha.)	BC Ratio
Land preparation by harrow+cultivator	10	60.8		105013	4.06
Land preparation by M.B.Plough +rotavator		62.2	2.30	111931	4.51

