FRONTLINE DEMONSTRATION 2015-16

FLD-1

Title	Demonstration on Biofertilizer application in cauliflower			
Crop & Variety	Cauliflower, Megha			
Season & Year	Rabi-2015-16			
Problem	Low yield due to soil acidity & improper nutrient management.			
Thematic Area	INM			
Farmers Practices (FP)	No use of lime & Biofertilizer			
Detail of Technology Demonstrated (RP)	Application of 5kg of lime mixed with 100kg of FYM and inoculated with 3kg of azotobacter,3kg PSB &3kg azospirillum with soil test based fertilizer			
Recommendation	OUAT-2009			
Area (ha)	1ha	No. of Demo-5	Farming situation	Irrigated medium

Results	Yield (q/ha)	% change in Yield	Curd weight(g)	% change in Parameter	Cost of cultivation(Rs/ha)	Avg. Gross return(Rs/ha)	Net Income (Rs./ha)	BC Ratio
FP	196.3	28.73	758	20.71	51300	98150	46850	1.91
RP	252.7		915		62500	126350	63850	2.02

FLD-2

Title	Effect of diazotrophs and sea weed extract on growth, yield & quality of marigold			
Crop & Variety	Marigold, var-Serakole			
Season & Year	Rabi, 2015-16			
Problem	Low yield, inferior quality, low keeping quality of marigold due to traditional method of cultivation			
Thematic Area	INM			
Farmers Practices	Seed sowing without seed treatment , imbalanced fertilizer application without bio-fertilizer			
Detail of Technology Demonstrated	Seed treatment with Azotobactor 25gm/kg of seed RDF(80:80:80) Kg NPK/ha, FYM 10 ton/ha +sea weed extract 25kg/ha			
Recommendation	OUAT, 2006			
Area (ha)	0.4 ha	No. of Demo- 5	Farming situation	Irrigated medium land

Farmers practice

Results	Yield (q/ha)	% change in Yield	Individual fruit Wt.	Change in parameter (%)	cost of cultivation (Rs/ha)	Avg. Gross return(Rs/ha)	Net Income (Rs/ha)	BC Ratio**
FP	88.6	34.78	5.2	23.07	37200	88600	51400	2.38
RP	119.4		6.4		47200	131362	84162	2.78

FLD-3

Title	Demonstration on integrated disease management practice for control of sheath blight in paddy		
Crop & Variety	Paddy, Lalat		
Season & Year	Kharif, 2015		
Problem	Heavy disease infestation on rice causes low yield		
Farmers Practices (FP)	Management of sheath blight by application of carbendazim		
Detail of Technology Demonstrated (RP)	Seed treatment and seedling root dip with P.floroscence, soil application of P.floroscence 2.5 kg + 50kg FYM at 30 DAT, Spraying of (tricyclazole + propiconazole) 52.5 S E		
Recommendation	OUAT, 2011		
Area	1 ha	No. of Demo	5

Results	Yield (q/ha)	% change in Yield	% disease infestation (Scoring-5-7)	Cost of cultivation (Rs./ha)	Avg. Gross return(Rs/ha)	Net Income (Rs./ha)	BC Ratio
T1	38.9	17.7	17	25500	48025	23125	1.9
T2	45.8		09	26800	57250	30450	2.1

FLD-4

Title	Demonstration on use of self propelled rice transplanter	
Season & Year	Kharif, 2015	
Problem	Manual transplanting is labour intensive work	
Thematic area	Farm mechanization	
Farmers Practices (FP)	Manual transplanting	
Detail of Technology Demonstrated (RP)	Average field capacity of transplanter 0.16ha/h	
Recommendation	Commercial, tested at CAET, OUAT	
Area (ha)	1 ha	No. of Demo- 5

Results	Field capacity (ha/hr)	Labour requirement(mandays/ha)	Cost of operation (Rs/ha)	Yield (qtl./ha)	Cost of cultivation (Rs/ha)	Avg. Gross return (Rs/ha)	Net Return (Rs/ha)	B:C ratio
FP	0.003	36	7200	42.2	28950	52750	23800	1.82
RP	0.16	3	2500	45.3	24250	56625	32375	2.34

FLD-5

Title	Demonstration of Oyster Mushroom variety Hypsizygous ulmarius		
Crop & Variety	Oyster Mushroom, Hypsizygous ulmarius		
Season & Year	Rabi, 2015-16		
Problem	Low yield from P.*sajarcaju* during later part of winter due to low temperature		
Farmers Practices (FP)	Oyster Mushroom P.*sajarcaju*		
Detail of Technology Demonstrated (RP)	Cutting of straw into 2inch,soaking for 8-10 hr, and sterilization, spawning of mushroom bed		
Recommendation	DMR Solan, 2008		
No. of unit	100 bed	No. of Demo- 10	

Results	Avg. fruit wt. of mushroom (gm)	Avg. Yield/unit(kg)	Saving in (Rs)	Net return (Rs.)	BC ratio
T1	25	19.5	680	770	2.92
T2	42	27.5		1450	4.62