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**On Farm Trials
(2014-15)**

On Farm Testing (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Plant Protection	Mango	1	-	2	2	100	NIL
	Cabbage	1	-	2	2	100	NIL
Horticulture	French bean	1	-	2	2	100	NIL
	Chilli	1	-	2	2	100	NIL
	Tomato	1	-	2	2	100	NIL
Soil Science	Tomato	1	-	2	2	100	NIL
	Mustard	1	-	2	2	100	NIL
Agro-Forestry	Afforestation of wasteland	1	-	2	-	-	On leave
	SALT	1	-	2	-	-	On leave
Home Science	Therapeutic Diet-Diet for adult suffering from peptic ulcer	1	-	1	1	100	NIL
	Waste management (Compost pit by kitchen waste)	1	-	1	1	100	NIL
Animal Science	Effect of Livozyme/Alvozyme on the performance of layer birds	1	-	1	1	100	NIL
	Performance of Turkey birds raised under scientific intervention in Saiha District.	1	-	1	-	-	Could not acquire the birds
Total		13		22	17	-	-

On Farm Testing (Discipline-wise achievements)



Discipline: Plant Protection

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
Mango	RF	High incidence of fruit fly and fruit borer	Control of fruit fly using pheromone trap @ 10 traps/acre	Management of fruit fly on mango using IPM module	10	a) Avg. wt of fruit : 200.3 g b) Avg. no. of fruit /tree : 1750 nos. c) Avg. no of trees/ ha : 225 nos. d) Incidence of fruit fly : 17 % e) Yield : 78 q/ ha	78q/Ha	3,10,000/-	3.87
						Farmers practice a) Avg. wt of fruit : 200.3 g b) Avg. no. of fruit /tree : 1750 nos. c) Avg. no of trees/ ha : 225 nos. d) Incidence of fruit fly : 47 % e) Yield : 55 q/ ha	55q/Ha	1,95,000/-	2.43



On Farm Testing (Discipline-wise achievements)

Discipline: Plant Protection

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)
Cabbage	Low yield due to high incidence of <i>Spodoptera litura</i>	a) Destruction of egg mass b) Poison bait rice bran 5kg + mollase 500g/3 lits of water + Carbaryl 500g /lit of water c) Chlorpyrifos 2ml/litre or Dichlorvos 1ml/lit of water	IPM of <i>Spodoptera litura</i>	2	a) Yield : 286 q/ ha b) Avg Wt of head : 2.02 kg c) Extent of damage by pest infestation : 7 % d) Cost /kg : Rs 35 / kg e) Cost of cultivation : Rs 240000 f) Gross income : Rs 1001000 Farmers Practice) Yield : 243 q/ ha b) Avg. Wt of head : 1.8 kg c) Extent of damage by pest infestation : 28 % d) Cost /kg : Rs 35 / kg e) Cost of cultivation : Rs 220000 f) Gross income : Rs 850500	286 q/ha	7,61,000/-	3.17
							243 q/ha	630500/-

On Farm Testing (Horticulture)

Livestock	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit livestock/enterprise	Net return (Rs/Unit)	B:C Ratio (GR/GC)
French Bean <i>Arka suvidha</i>	Non cultivation of bush type French bean due to low yield of bush type local variety	Multiplication of good variety of tomato	Varietal evaluation of French Bean (<i>Arka suvidha</i>)	2	a) Plant height : 31 cm b) No of pods/plant : 12.2 c) Duration : 80 days d) Yield : 90 q/ha Cost of input : 1,90,000 Return : 5,40,000	90 q/ha	350000	2.8
					Farmers practice: Plant height : 28 cm No of pods/plant : 8.4 Duration : 90 days Yield : 72 q/ha Cost of input : 1,30,000 Gross return : 2,40,000	72 q/ ha	110000	1.8
Chilli <i>Arka suphal</i>	Low productivity due to lack of improved variety resistant to powdery mildew	Varietal evaluation	Varietal evaluation of Chilli (<i>Arka suphal</i>).	2	Plant height :65 cm Duration :170 days Yield : 160 q/ha Cost of input : 2,40,700 Return : 5,30,000	160 q/ha	283000	2.1
					Farmers practice: Plant height :46 cm Duration :180 days Yield : 126 q/ha Cost of input : 1,44,000 Return : 2,41,000	126 q/ ha	970000	1.6



On Farm Testing : Horticulture

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	Net return (Rs / Ha)	B:C Ratio
Tomato (<i>Arka vikash</i>).	Lack of improved variety	Varietal evaluation	Varietal evaluation of Tomato (<i>Arka vikash</i>).	2	Plant height :50.4 cm	280 q/ ha	337000	2.4
					No of fruits/plant : 18.6			
					Avg. fruit wt : 48g			
					Yield : 280 q/ha			
					Cost of input : 2,41,000			
					Return : 5,98,000			
						230 q/ ha	133400	1.7



Farmers practice:

Plant height :46.2 cm
 No of fruits/plant : 15.3
 Avg. fruit wt : 37g
 Yield : 230 q/ha
 Cost of input : 1,67,000
 Return : 3,00,400



On Farm Testing (Soil Science)

Livestock	Problem diagnosed	Technology/Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit livestock/ enterprise	Net return (Rs/Unit)	B:C Ratio (GR/GC)
Tomato	Low yield due to lack of knowledge of scientific nutrient management	INM	INM & their effect on the yield of tomato	2	Plant height :68.3 cm No of fruits/plant : 21.0 Avg. fruit wt : 52 g Cost of input : 1,82,000 Return : 6,07,000 Farmers practice: Plant height :51.2 cm No of fruits/plant : 17.3 Avg. fruit wt : 43g Cost of input : 1,58,000 Return : 3,17,000	303.5q/ ha	4,25,000/-	2.33
						158.5q/ ha	1,59,000/-	1.01



On Farm Testing (Soil Science)

Livestock	Problem diagnosed	Technology/Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Prdn. per unit livestock/enterprise	Net return (Rs/Unit)	B:C Ratio (GR/GC)
Mustard (M-27)	Low yield due to lack of nutrient management	Nutrient management	Effects of different levels of fertilizers on mustard	2	a) Plant height : 182.1 cm b) Av. No. of seeds/silique : 8.3 c) Av. No. of silique/plant : 427.8 d) Maturity : 128 days e) Cost of cultivation : Rs. 29,000/- f) Gross return : Rs. 48000/-	6.8 q/ ha	19,000/-	0.65
					Farmer's practice a) Plant height : 157.2 b) Av. No. of seeds/silique : 7.4 c) Av. No. of silique/plant : 382.3 d) Maturity : 133 days e) Cost of cultivation : Rs. 25,000/ f) Gross return : Rs. 37,000/	5.3 q/ ha	12,000/-	0.48



On Farm Testing (Discipline-wise achievements)

Discipline: Home Science.

Crop/ Other enterprise	Problem diagnosed	Technology/ methodology/ Social Concept	Title of OFT	No. of tri als	Parameters on Assessment. (Pl. mention with tick)	Results on selected Parameters	% increase/ Change in parameters (Remark)
Home Science	Lack of technical knowledge on personal health care and diet plan.	Five adults who are suffering from peptic ulcer were selected and treated by Lenhartz diet- Fluid diet based on milk and eggs	Therape utic diet (Diet Plan for adult peptic ulcer)	1	Technology / methodology	Technology / methodology	
					a) Health Check every two months after treatment.	a) Depending on verbal interaction, it is observed that stomach ailments and digestive disorders of the treated individuals are improved.	90% of the treated individuals are ready to continue the technology and are willing to spread among fellow- farmers.
					b) Farmers Reaction.	b) Farmers are enthusiastic to adopt the technology.	
c) Monthly weight gain.	c) The avg. monthly wt. gain of the patient are 0.5 kg.						
					Farmer Practice	Farmer Practice	
					Farmers never practice therapeutic diet due to lack of knowledge and awareness.	NA	NA



Peptic Ulcer Patient

On Farm Testing (Discipline-wise achievements)

Discipline: Home Science.

Crop/ Other enterprise	Problem diagnosed	Technology/ methodology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Results on selected Parameters	% increase/ Change in parameters (Remark)
Home Science				1	Technology / methodology	Technology / methodology	
	Lack of technical knowledge on recycling of waste	Two pits of 0.5x0.5x1m ³ is dugged, filled by kitchen and other organic waste. 1% DAP and cowdung is added, when the pit is filled upto 3/4 th , it is covered by silpauline and earth. Moisture level is maintained by watering and aeration is provided by turning the heaps at 15 days interval. Avg. time required for composting is 3 mths.	Waste Management (Compost pit by kitchen waste)	1	a) Time required for composting b) Intervals of manure collection c) Quantity of manure per collection. d) Record of income	1. Three months. 2. Once in a month. 3. Ten (10) kgs. 4. The manure produced is for own use till date but saves Rs. 500 for buying fertilizers.	100 % of the trainees (farm women) are adopting the technology.
					Farmer Practice	Farmer Practice	
					Farmers never practice any kind of manure preparation due to lack of awareness.	NA	NA



Compost Pit

On Farm Trials (Discipline-wise achievements)

Discipline: AH & Vety

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per unit crop/enterprise	B: C Ratio
Animal Husbandry	Vent pecking	Enzyme incorporated in drinking water @ 5ml / water	Effect of Livozyme/Alvozyme on the performance of layer birds	2	a) No. of birds : 30 / farmer b) Age at first laying : 5 months c) Age at peak laying : 7 to 8 months d) Monthly body increment : 250 gms. e) Cost of farming : Rs27900/- f) Gross income : Rs. 42500/-	Rs 42,500/-	1.5
					<u>Farmers practice</u> a) Cost of farming : 25310/- b) Gross income : 33410/-		1.3

