On Farm Testing (Discipline–Wise Summary)

Discipline	Crop/ enterprise	No. of Technology/ Social Concept		No. of trials		% of achievement
		Assessed	Refined	Target	Achievement	
Horticulture	Tomato	1	-	6	6	100
	Frenchbeans	1	-	6	6	100
PBG	Fieldpea	1	-	6	6	100
	Soybean	1	-	6	6	100
Fishery	Fish	1	-	5	5	100
	Fish	1	-	5	5	100
Plant Protection	Papaya	1	-	5	5	100
	Kiwifruit	1	-	5	5	100
Animal Science	Poultry	1	-	5	5	100
Agri. extension	Cabbage	1	-	50 respondents	50 respondents	100
Total		**10**		**49 trials & 50 respondents**	**49 trials & 50 respondents**	

OFT Horticulture: Performance of Tomato Var. Arka Abhed- 1st yr.

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	Area	Villages
Tomato	Low yield of existing variety	**TO1: Var. - Arka Abhed** Dur- 140-150 days Yield potential – 700-750 q/ha. Fruit size: 90-100 gm. **TO2: Var.- Arka Rakshak** Dur- 140 days, Yield potential- 750-800 q/ha. Fruit size: 90-100 gm **TO3: Var.- Amitabh Chai Tai co.** Dur.- 160-165 days ,Yield potential – 450-500 q/ha. Fruit size- 65-70 gm	6 **SOT: IIHR, 2017**	1 ha	Molhoi, Karong

Parameters on Assessment	Results/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
i. Yield ii. Duration iii. Fruit size	410 q/ha 145 days 90gm	402.5 q/ha 142 days 90gm	262.5 q/ha 165 days 65 gm	**TO1: 410900** TO2: 400775 TO3: 235975	**TO1:3.88:1** TO2: 3.81:1 TO3: 2.99:1

OFT Horticulture: Performance of Frenchbean var. Arka Anoop - 1st yr.

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Frenchbean	Low yield of existing variety	**TO1: Var. - Arka Anoop,** Duration- 70 -75 days Yield potential -200 q/ha. **TO2: Var.- Arka Arjun** Duration- 70 days Yield potential- 170q/ha. **TO3: Var.- Local improved** Duration- 80-85 days Yield potential – 80q/ha.	6	1ha	Taphou Phyamai & Makhan

SOT: IIHR, 2018

Parameters on Assessment	Result/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
i. Duration ii. Yield	72 days 161.5q/ha	73 days 142.5q/ha	85 days 60.6q/ha	**TO1: 131150** TO2: 108350 TO3: 32100	**TO1: 3.09:1** TO2: 2.72:1 TO3: 1.79:1

OFT PBG: Performance of Soyabean var. MACS 1460 -1st year

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Soybean	Low yield of existing variety	**TO1: Var. : MACS 1460** Duration- 100 days, Potential yield = 20-25q/ha **TO2: Var.: DSB-19,** Duration- 100-110days,Potential yield = 19 -20q/ha **TO3: Var.: JS-335,** Duration- 95-100 days, Potential yield = 15 -20q/ha	6 **SOT: Agharkar Research Institute, Pune-2017**	1ha	Santolabari, New Saikul

Parameters on Assessment	Results/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
i. Plant height (cm) ii. No. of pods/plant iii. Yield	46.8 83.2 16.63 q/ha	56.24 cm 62.76 16.12 q/ha	55.6 60.3 12.54 q/ha	**TO1: 46800** TO2: 43760 TO3: 32660	**TO1: 1.72:1** TO2: 1.66:1 TO3: 1.41:1

OFT PBG: Performance of Fieldpea Var. VL Matar 47 -2nd year

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Fieldpea	Low yield of existing variety	**TO1: Var. : VL Matar 47** Duration- 150-155 days, Potential yield = 16-17q/ha **TO2: Var.: Aman**, Duration- 120-125days,Potential yield = 20-25q/ha **TO3: Var. : Rachana,** Duration- 94-121 days, Potential yield = 20-21q/ha	6 **SOT: VPKAS-Almora, 2011**	1ha	Parsain, Toribari

Parameters on Assessment	Result/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
1.Plant height (at 30 days) 2.No. of seeds/pod 3.Yield	96.4 15.8 12.6q/ha	97.2 15.2 11.3q/ha	98.5 15.7 10.2q/ha	TO1-38180 TO2-34680 TO3-33280	TO1-1.85:1 TO2-1.78:1 TO3: 1.74:1

OFT PP: Management of root rot disease of Papaya - 1st year

Crop	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Papaya	Root rot	**TO1**: i) Soil application of trichoderma viride @2-3g/l water ii) Appln. of Bordeaux mixture 5:5:50 **TO2:** Appln. of Bordeaux mixture (Copper Sulphate, Lime & Water @5:5:50) **TO3:** Application of trichoderma viride @2-3g/l water **TO4:** Application of carbendazim 50WP @ 2gm/lwater **(Farmers' practice)**	5	1ha	Siangai, Chongphun

SOT:
Y.S Parmar University of Horticulture and Forestry, Solan, HP, 2016

Parameters on Assessment	Results/ observation on selected parameters				Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3	TO4		
i. Percent disease incidence	9.2%	13.23%	15.21%	18.43%	TO1-592942 TO2-511035 TO3-431667 TO4-443334	TO1-3.4:1 TO2- 2.9:1 TO2- 1.7:1 TO4- 2.4:1
ii. Yield	420q/ha	390q/ha	370q/ha	380q/ha		

OFT PP: Biological management of crown rot disease in organic kiwi fruit cultivation - 1st year

Crop	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Kiwi fruit	Crown rot	**TO1:** Application of Trichoderma @5g/L&Application of Annonin extracts @ 2ml/ L. **TO2:** Application of Trichoderma @5g/L **T03:** Application of Annonin extract @ 2ml/L	5	0.5ha	Purul, Oiname

SOT:
Y.S Parmar University of Horticulture and Forestry, Solan, HP, 2016

Parameters on Assessment	Results/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
i.Percent disease incidence	8%	14%	19%	T01:680000 T02:620000	3.4:1 3.2:1
ii.Yield	80q/ha	75q/ha	73q/ha	T03:596000	3.1:1

OFT Fisheries: Performance of monosex Tilapia under under monoculture system-2nd yr

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	Area	Villages
Fishery	Low diversification of rapid growing cultured fish species	**TO1:Monoculture of Tilapia** Stocking density:20,000/ ha; Feeding rate: 3-5% body weight ; Feed : Pellet feed ; Culture period : 6 months **TO2: TO1:Monoculture of C. Carp** Stocking density:20,000/ ha; Feeding rate: 3-5% body weight; Feed : Pellet feed; Culture period : 6 months	5	0.5 ha **SOT: CIFA, 2015**	Hengbung, saikul




Parameters on Assessment	Results/ observation on selected parameters				Net return (Rs/ha.)	B:C Ratio (GR/GC)
	TO1		TO2			
i.Growth rate ii.Yield	**Average weight** : Stocking : 5 gm 3 month = 180.6 gm 6 months = 410 gm **Yield= 3210 kg/ha**.	**Average length**: Stocking : 2 cm 3 months= 8.5 cm 6 months = 14.8 cm	**Average weight** : Stocking :5 gm 3 months :150.6gm 6 month = 320 gm **Yield = 2113 kg /ha**	**Average length** Stocking : 2 cm 3 months = 8 cm 6 month =12.9 cm	**TO1=357130** TO2= 254100	**TO1: 2.4:1** TO2: 1.7:1

OFT Fisheries: Assessment on economic profitability of different stocking and harvesting strategies in composite fish culture- 1st yr.

Enterprise	Major problem diagnosed	Technology details	No. of trials	Area (ha)	Villages
Fishery	Less economic return due to unscientific stocking and harvesting strategy followed by fish farmers in the district (80 %)	**TO1:** SSSH (8000 nos. /ha. 1 stocking and 1 harvesting) Duration: 12 months **TO2:** SSMH (24000 nos./ha. 1 stocking and 3 harvesting) Duration: 12 months **TO3:** MSMH (24000 nos./ha. 3 stocking and 3 harvesting) Duration: 12 months	5 **SOT:** ICAR, Tripura Centre, 2015	0.5ha	Leilon,T. Khullen

Parameters on Assessment	Results/ observation on selected parameters			Net return (Rs/ha)	B:C Ratio (GR/GC)
	TO1	TO2	TO3		
i. Average length and weight during each stocking and harvesting ii. BCR	**Average weight and length** **At stocking :** **L= 5cm, W= 3 gm** **At harvest (12 months):** **L= 12 cm, W= 420 gm** **Yield: 2640 kg/ha.**	**Average length and weight** **At stocking :** L= 5cm, W= 3 gm **At harvest:** 1st harvest (4 months) L= 8 cm , W= 90 gm, **Yield = 576 kg** 2nd harvest (8 months) L= 14 cm , W= 210 gm,**Yield = 1228 kg** 3rd harvest (12 months) L= 17 cm , W= 280 gm,**Yield = 1435 kg** **Total yield = 3239 kg/ ha.**	**Average length and weight** **At 1st Stocking :** L= 5cm, W= 3 gm At 1st harvest (6 months) L= 14 cm, W= 250 gm , **Yield: 1560 kg/ha** **At 2nd Stocking (12 months):** L=7 cm, W=8 gm 2nd harvest (12 months) L= 9 cm, W= 230 gm ,**Yield = 1461 kg/ha** **Total yield = 1710 kg/ha**	TO1= 451910 TO2= 573240 TO3= 277500	TO1=2.7 TO2=3.25 TO3=2.3

OFT Animal Sc.: Performance of Srinidhi for Egg Production- 2nd yr

Crop / Enterprise	Major problem diagnosed	Technology details	No. of trials	No. of units	Villages	Net return (Rs/Unit)	B:C Ratio (GR/GC)
Poultry	Low egg production of local/desi	TO1: Srinidhi poultry (multi-coloured and good egg production) TO2: Vanaraja TO3: Local/desi poultry	5	5 (30 birds per unit)	T. Aimol & Sadu Chiru villages	TO1=15115.00 TO2=13755.00 TO2=5110.00	1:2.11 1:1.83 1:1.29

Results of Parameters

Technology	Nos. of eggs per year
TO1	131
TO2	112
TO3	61

OFT Agri. Extn.: Impact study of off-season cultivation of cabbage under FLD during last 3 years -1st yr

Crop	Technology/ methodology/ Social Concept	No. of respondents	Name of the village	Parameters on Assessment	Results on parameters	% increase over farmer practice
Cabbage	Interview method	50	Makuilongdi and Chawangkining Village	i. Income (NR) ii. Yield	i. Rs.182550/ha ii. 224.6q/ha	32%