On Farm Testing
2015-16

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		
Agronomy	1. Blackgram	Performance of blackgram var. Utta ra with standard package of practices		5	5	100	NA
	2. Chickpea	Improved cultivation practices of growing chickpea after harvesting of rice		5	5	100	NA
Horticulture	1. Tomato	1		5	5	100	NA
	2. Pea	1		5	0	0	Due to unavailability of seeds
Fishery	1. Nutrition Management	1	1	5	5	100	NA
	2. Breeding	1	1	5	5	100	NA

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		
Home science	1. Soyabean	Preparation of soya paneer	-	5	5	100	NA
	2. Solar cooker	Popularization of solar cooker.	-	5	Undergoing		
Plant Protection	1. Rice	Management of Stem borer& leaf folder by using *Clorantraniliprole.*	-	5	5	100	-
	2. Brinjal	Management of shoot and fruit borer by using rynaxypyr (*Coragen*20%).	-	5	5	100	-
TOTAL	10			50	40		

On Farm Testing (Discipline-wise achievements)

Discipline: Agronomy

1. Varietal performance of blackgram var. Uttara)

Crop / Enter-prise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
Black -gram	Rainfed	Lack of improved variety suitable to the district	Variety: Uttara (IPU 94-1), Sowing time : July 15, Seed rate :12 kg/ha, Spacing : 30cm × 10cm NPKS@ 20:40:20: 20 kg/ha	Performance of blackgram var. Utta ra with standard package of practices	5	1. Plant Height (50.2 cm) 2. No. of pods/plant (19.2) 3. No. of seeds/pod (5.6) 4. 1000 seed weight (51 g) 5. Seed yield (1190kg/ha)	1190 kg/ha	41900	2.42:1
						Farmer Practice	Farmer Practice		
						1a). T-9	1080 kg/ha	35300	2.20:1

On Farm Testing (Discipline-wise achievements)

Discipline: Agronomy

2. Growing of chickpea in fallow land of Bishnupur District

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit	Net return (Rs/ha)	B:C Ratio (GR/GC)
Chickpea var. JG-14	Rainfed+Live saving irrigation	Most of the land remain fallow during *rabi* season	Improved cultivation practices of growing chickpea after harvesting of rice (seed rate 80kg/ha, spacing 30cm x 10cm, NPK @20:40:20kg/ ha)	Growing of chickpea in fallow land of Bishnupur District	5	1. Plant Height (30 cm) 2. No. of pods/plant (22.2) 3. No. of seeds/pod (1.4) 4. 100 seed weight (24.2g) 5. Seed yield (1200kg/ha)	1200 kg/ha	44000	2.57:1
						Farmer Practice			
						Seed yield	980 kg/ha	31300	2.14:1

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

1. Varietal Performance of Tomato var.Arka Samrat

Crop	Problem diagnosed	Technology (give details)	Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention)	Prdn. per unit livestock/enter prise	Net return (Rs/ Unit)	B:C Ratio (GR/ GC)
Tomato	Low yield due to bacterial wilt infestation	Tomato var. Arka Samrat, Seed rate: 400g/ha. Spacing : 60x45cm, FYM: 500kg/ha, NPK: 120:60:60	Varietal Performance of Tomato var. Arka Samrat	5	Technology Yield was only recorded	Technology Yield: 350qtls/ha	500000	3.5:1
					Farmer Practice			
					Yield was only recorded	Yield: 210 qtls/ha	240000	2.33:1

On Farm Testing (Discipline-wise achievements)

Discipline: Fishery

1. Performance of rohu, *Labeo rohita (Ham.)* fry incorporated with NaCl

Livestock	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials
1	*2*	*3*	*4*	*5*
Fishery	Less availability of the stocking seed of desired quality and size due to improper feeding management.	Growth response of rohu, fry to salt (NaCl) incorporated diets when stocked @1.5 lakh/ha in 0.1 ha and feeding with Rice bran and Mustard Oil cake 1:1while adding 2%NaCl.	Performance of rohu, *Labeo rohita (Ham.)* fry incorporated with Nacl	5

Parameters of assessment/refinement and its data in bracket			Prdn. Cost Per unit crop/enterprise (Rs.)		Net return (Rs/Ha)		B:C Ratio
6			7		8		9
1. Fish yield (nos)			1 ha	0.1ha	1 ha	0.1ha	2.25:1
Control	Treated	% increase	50000	5000	62500	6250	
96000	112500	17.18					
3) Farmer Practice :			48000	4800	48000	4800	2:1

On Farm Testing (Discipline-wise achievements)

Discipline: Fishery 2 Performance of Early Breeding Response of IMC

Crop / Enterprise	Problem diagnosed	Techno logy/ Social Concept	Title of OFT	No. of trials
Fishery	Unavailability of carps seed during early summer.	Early Breeding Response of IMC brooders of 2 yrs plus species of Catla (*Catla catla*, Ham Rohu (*Labeo rohita*, Ham) and Mrigal (*Cirrhina mrigala*, Ham) breed stocked @ 1000 kg/ Ha in 0.16 ha while feeding with 1-3% of supplementary feeds (24% Protein, pellet feed) as treated and fishes with rice bran and MOC (1:1) as control ones	Performance Of Early Breeding Response of IMC	5

Parameters of assessment/refinement and its data in bracket			Prdn. per unit crop/enterprise (Rs./ha)	Net return (Rs/ 0.16 Ha)	B:C Ratio
Treated					
Stocked Pairs of Fishes	Early Matured Observed	Ovulated Observed	150000	40000	2.5: 1
Catla- 15	12	11			
Rohu- 15	12	10			
Mrigala-15	10	7			
Total – 45	34	28			
Farmer Practice /Control					
Stocked Pairs of Fishes	Early Matured Observed	Ovulated Observed	Nil	Nil	Nil
Catla- 15	12	NIl			
Rohu- 15	12	Nil			
Mrigala-15	10	Nil			
Total – 45	34	Nil			

On Farm Testing (Discipline-wise achievements)
Discipline: Home Sc . 1. Preparation of soya paneer

Crop/ Livestock /Other enterprise	Problem diagnosed	Technology/ methodology/ Social Concept
1	*2*	*3*
Soya paneer	High cost of cow milk	Soya paneer (tofu) in Coagulation using citric acid is added at the rate of 1.2 -1.5g/litre of soymilk . Filtration of soymilk, pressing, washing and storage.

Title of OFT	No. of trials	Parameters on Assessment/ Refined (Pl. mention with tick)	Results on selected Parameters	% increase/ Change in parameters (Remark)
4	*5*	*6*	*7*	*8*
Preparation of soya paneer	5	Technology / methodology	Technology / methodology	
		1. Shelf life-	1. 4 days	Satisfied
		2.Appearrance	2.Milky white	Satisfied
		3.flavour	3. Good.	Satisfied
		4.1 kg of soybean	4.1.5kg of soya paneer	Satisfied
		Farmer Practice	Farmer Practice	
		NIL	NIL	

On Farm Testing

Discipline: (Plant protection)

1. Management of stem borer and leaf folder by application of chlorantraniliprole in Rice.

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	*2*	*3*	*4*
Rice	Rain-fed	Stem-borer	Application of *clorantraniliprole* @40g a.i /ha at 10-15 days interval.

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)
5	*6*	*7*	*8*	*9*	*10*
Management of stem borer and leaf folder by application of *chlorantraniliprole* in Rice.	5	2.0% & 0.99% of dead heart at 50 & 60 DAT as against 3.50% to 5.0% respectively at farmers practice. 1.9% & 2.3% of leaf folder damages against 5% and 7.5%.	5600 kg/ha (treated plot)	52,000	1.80:1
			Farmer Practice		
			4450 kg/ha (Untreated plot)	31,000	1.53:1

On Farm Testing

Discipline: (Plant protection)

2. Management of shoot and fruit borer by using rynaxypyr (*Coragen* 20%).

Crop / Enterprise	Farming Situation	Problem diagnosed	Technology/ Social Concept
1	*2*	*3*	*4*
Brinjal	Rainfed+Life saving.	Shoot and fruit borer	Application of rynaxypyr 20SC at 10 days interval.

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)
5	*6*	*7*	*8*	*9*	*10*
Management of shoot and fruit borer by using rynaxypyr (*Coragen*20%)	5	Rynaxypyr 20SC@ (0.15ml/l) resulted in lowest shoot (10.1%) and fruit borer (9.5%) infestation, as against 25% of shoot and 30% fruit borer infestation in untreated control plots.	82qt/ha	1,09,000	2.9:1
			Farmer Practice		
			60qt/ha (untreated)	66,000	2.2:1