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Department of Agriculture Govt. of Manipur

On Farm Trials 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		
PBG	Rice(CAUR 3)	1		10	ongoing		Started in February
	Mustard	1		10	ongoing		Rabbi crop
Fisheries	Endemic minor carp	2		11	11	100	
Home Science	Organic dye	1		5	5	100	
Total		10	1	71	57		

On Farm Testing (Discipline-wise achievements)

Discipline: Horticulture

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)
						Technology	Technology		
Garden pea	Irrigated	Farmers are unaware of high yield & prodn. in short duration	Pusa Shree	Varietal Trial of Pusa Shree	5	i) Plant ht.-75 cm ii) No. of branch/plant-7-10 iii) Pod length- 6.3 cm iv) No. of pods/pl. 45-50 v) Days to maturity- 50-55 days	Yield- 56 q/ha	116500	3.3
						Farmer Practice	Farmer Practice		
						i) Plant ht.-58 cm ii) No. of branch/plant-5-7 iii) Pod length- 7.2 cm iv) No. of pods/pl.-30-40 v) Days to maturity-60 - 65 days	Yield- 51q/ha	104070	3.1

OFT :Horticulture

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)
						Technology	Technology		
Cabbage	Irrigated	Farmers are unaware of prodn. In short duration	Pusa Cabbage hybrid 1	Varietal trail of cabbage	5	1. Head wt- 0.985 gm 2. Days to maturity - 50-60	Yield-389 q/ha	307045	4.7
						Farmer Practice	Farmer Practice		
						1. Head wt- 1.35 kg 2. Days to maturity- 65-75	Yield- 400q/ha	317915	4.9

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)
						Technology	Technology		
Sugarcane	Rainfed	Shoot borer Termite	Shoot borer and termite mgmt. with Thiamethoxam @ 200gm a.i/ha and <i>Metarhizium anisopliae</i> @ 500gm/ha (ctu 109/gm)	Shoot borer and termite mgmt	8	Percent early shoot borer damaged 30 DAP =12 ,60 DAP =7 90 DAP=3 Termite mound 30 DAP =13 ,60 DAP =6 90 DAP =2 ,Yield =384 Farmers Imidachloprid 70 % wp @ 200gm a.i/ha Termite mound 30 DAP =11 60 DAP =9 90 DAP =8 ,Yield =350	384 quintal 350 quintal	1,62,000	2.93
Onion	Rainfed	Purple blotch	Mgmt. of purple blotch of onion with Hexaconazole 0.005%		8	% of infection level at 30 DAT =12 ,60 DAT = 15, 90 DAT =4 Farmers Practice Mancozeb 75% @ 0.25% % infection level 30DAT=20,60 DAT=15, 90 DAT=10	174 quintal	178882	3.17

On Farm Testing (Discipline-wise achievements)

Discipline: ANIMAL 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)
Broiler	Mortality % is high especially during starter period	<i>Coriandrum sativum</i> seed powder are given @ 2% of feed	Growth performance of broiler by feeding <i>coriandrum sativum</i> seed powder	5	Technology i. Body weight of broiler at 6 wks -2.4 kg ii. Feed conversion efficiency – 1.79 iii. Survivability% - 97.33	Technology 2.4 kg/ bird	69.38/bird	1.45
					Farmer Practice	Farmer Practice		
					i. Body weight of broiler at 6 wks -2.1 kg ii. Feed conversion efficiency – 1.6 iii. Survivability% - 89	2.1kg/bird	47.54/bird	1.23

On Farm Testing (Discipline-wise achievements)

Discipline: ANIMAL 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)
Duck cum paddy	Practice of monoculture	300ducks per ha	Integrated duck cum paddy culture	5	Technology A.Effect on yield on rice i. no.of tiller/hill-11 ii.No. of grain/panicle -150 B.Effect on insect population -90% reduction C. Effect on weed population – 95% D. Growth performance of duck at 6mth- (1.7kg)	5 MT yield of rice per ha 1.7kg live wt of duck	95340	2.33:1
					Farmer Practice (200 birds)	Farmer Practice (200 birds)		
					A. Effect on yield on rice i.no.of tiller/hill- 10 ii.No. of grain /panicle-130 B.Effect on insect population – 90% reduction C. Effect on weed population –90% reduction D. Growth performance of duck at 6mth -(1.8kg)	5 MT yield of rice per ha 1.8kg live wt of duck	69650	2.08:1

On Farm Testing (Discipline-wise achievements)

Discipline: ANIMAL 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)
Sow	Most common disease of sow at post parturition leading to mortality of piglet and sow	48 lakh unit of Benzathine Penicillin is injected one week ahead of parturition	Treatment of Mastitis Metritis Agalactia complex syndrome in post partum Sow by using Benzathine Penicillin-48 lakh unit	5	Technology i. Litter size at birth (13.8) ii. Litter size at weaning (12.2) iii. Litter weight at birth (450g) iv. Litter weight at weaning (4800g)	13.8 litters at weaning	36000/litter	3.6:1
					Farmer Practice	Farmer Practice		
					Technology i. Litter size at birth (12.8) ii. Litter size at weaning (6.8) iii. Litter weight at birth (418g) iv. Litter weight at weaning (4300g)	6.8litter at weaning	21000/litter	2.6:1

On Farm Testing (Discipline-wise achievements)

Discipline: Fishery

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)
<i>Bangana devdevi</i> (endemic minor carp)	Unavailability of seed due to low survival of seed leading to low B:C ratio	Seed production of <i>Bangana devdevi</i> by stocking at the rate of 20,00,000 spawn/ha	Seed production of <i>Bangana devdevi</i> (Khabak)	5	Technology i) Survivability of seed (30%) ii) Growth of seed (107mm in 3 months) iii) B:C ratio (5.27)	Technology 600000 fingerlings/ha	972500/ha	5.27
					Farmer Practice	Farmer Practice		
					i) Survivability of seed (20%) ii) Growth of seed (102mm in 3 months) iii) B:C ratio (3.51)	400000 fingerlings/ha	572500/ha	3.51

On Farm Testing (Discipline-wise achievements)

Discipline: Fishery

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)
<i>Osteobrama belangeri</i> (Endemic minor carp)	Low B:C ratio due to unawareness of stocking densities and their ratios	Stocking of 10000 fingerlings per ha in the ratio of 40:30:30 (Pengba: Grass carp: Silvercarp)	Culture of <i>Osteobrama belangeri</i> along with Chinese carps	6	Technology 1. Growth of fish in 11 months Pengba – 187mm Grass carp – 480mm Silver carp – 415 mm 2. B:C ratio – 5.4	Technology 4294.2kg/ha	6,26,800/ha	5.4
					Farmer Practice	Farmer Practice		
					1. Growth of fish in 11 months Pengba – 192mm Grass carp – 435mm Silver carp – 406 mm 2. B:C ratio – 4.2	2405.24kg/ha	591240/ha	4.2

On Farm Testing (Discipline-wise achievements)

Discipline: Home Sc.

Crop/ Livestock/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)
Organic dye	Not aware of locally available mordant	Natural dyeing	Improving colour fastness of cotton fabric with natural dye	5	Technology / methodology Colour fastness property, effect of mordanting	Technology / methodology 1. Acidic medium (Alpinia nigra + dye (250gm)) = reddish brown 2. Alkaline medium (Dye + citrus hystrix (heiribop)) = golden brown 3. Neutral medium (Dye + water) = pale yellow Colour fastness to washing - negligible change	By used of mordant a number of different shades of colours can be obtained from a single dye sources.

