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Department of Agriculture Govt. of Manipur

On Farm Trials 2012

On Farm Trials (Discipline-Wise Summary)

Discipline (Minimum 2 OFT per SMS)	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achievement	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Fishery	Prawn	1	-	5	5	100	-
	Fish+Duck	1	-	10	10	100	-
Animal science	Poultry (Khaki campbell)	1	-	10	10	100	-
	Japanese quail	1	-	10	10	100	-
	Gram priya	1	-	10	10	100	-
Home Science	Zero energy cool chamber	1	-	5	5	50	-
Total		15		105	105		

On Farm Trials (Discipline-wise achievements)
Discipline:Agronomy

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
Rice	Injudicious nutrient management leads to low yield and soil fertility degradation	INM in rice	INM in rice	10	**Technology:** 1. Tiller no. (14-16) 2. No.of grains/ panicle (140-160) 3. Yield-5-5.5t/ha **Farmers practice:** 1. Tiller no.-10-12 2. No.of grains/ panicle (110-120) 3. Yield-4.5.t/ha	5.25 t/ha	18,000	1.4:1
Rice	Lack of suitable cultivation method leads to decrease yield. SRI cannot be applicable in all rice fields	ICM in rice	ICM in rice	10	**Technology:** 1. Tiller no. (16-20) 2. No.of grains/ panicle (140-160) 3. Yield-5-6t/ha **Farmers practice:** 1. Tiller no.-10-12 2. No.of grains/ panicle (110-120) 3. Yield-4.5t/ha	5-6 t/ha	21,000	1.46:1

On Farm Trials (Discipline-wise achievements)
Discipline: Plant protection

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
Mustard (M-27)	Rust, poudery mildew, fruit borer	IPM for mustard		10	Rust	10.86	11580	1.55
Pea (Arkel)		IPM for pea		10		32	1,28,000	3.2

On Farm Trials (Discipline-wise achievements)
Discipline: PBG

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
Rice	Low yield of most existing varieties and not many choice of hybrids.	Hybrid rice cultivation technology (6444)	Hybrid rice cultivation technology . **1**.Spacing – 20x15 cm 2. No.of seedlings/ hill -single 3. Seed rate- 16 kg/ha4. 4. Fertilizer dose-Urea 35kg, SSP-50kg, MOP-20kg	10	**Technology:** 1.Tiller no.-17 2.No. of grains/ panicle-135 3. Duration-138 4. Pest-tolerant 5. Yield -82 qt/ha **Farmers practice:** 1.Tiller no.-11 2. No. of grains/ panicle-120 3. Duration-135 4. Pest-Blast, stem borer hopper etc. 5. Yield-50	**Technology** 82 qt/ha **Farmer Practice** 50 qt/ha	48,400 12,500	1.97:1 1.25:1

On Farm Trials (Discipline-wise achievements)
Discipline: PBG

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
Rice	Low yield of existing varieties & not many choice of hybrid	6444 (Gold)	Hybrid rice cultivation technology	10	1.Tiller no.-16 2. No. of grains/ panicle-140 3. Duration-138 4. Yield-81q/ha	81q/ha	97200	1.94:1
Cucumber	No well known variety in Manipur	USA-260 (hybrid)	Varietal evaluation of cucumber hybrid USA-260	Crop in the field				
Refinement								
Rice	No high yielding pre-kharif rice	Hybrid rice(PAC-807)	Pre-kharif SRI	10	1.Seedling age-15 days 2. No. of grains/ panicle-175 3. Duration-125 days 4. Yield-81q/ha 5.Tiller no.-45	110q/ha	65000	2.4:1

On Farm Trials (Discipline-wise achievements)
Discipline: Fishery

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
Prawn	Introduction of prawn culture	Prawn culture	Prawn culture	5	1. Average weight of prawn at 6 months – 46g 2. Survival (8%)	10.04kg/ 0.1ha/6 months	-2472/0.1 ha	-0.669
(Negative net return and negative B:C ratio are due to low survivability of prawns during winter season as the prawn seeds were received during winter season)								
Fish + Duck	Low production in single enterprise	Fish cum duck farming	Duck cum fish farming	10	Continuing……			

On Farm Trials (Discipline-wise achievements)
Discipline: Animal Science

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 (per bird/year)	Net return (Rs/100 bird)	B:C Ratio
Poultry (Grampriya)	Low survibility and productivity with existing poultry bird	Production potential of Grampriya a dual purpose bird as backyard poultry Farming	Production potential of Grampriya a dual purpose bird as backyard poultry Farming	10	**Technology** i.Body weight at 0,&8 wks - (44,580g) ii. Dressing **%: 65.6** iii. Average egg weight : 55g iv. Hatchability %: 72 **Farmer Practice** i. Body weight at 0&8 wks- (46,450g) ii. Average egg weight : 50g Iii .Dressing%: 62 iv. Hatchability %: 60	**Technology** i. Live wt. : 2.6kg ii.Egg nos: 180 **Farmers Practice** i. Live wt : 2.1kg ii. Egg nos: 120	62,614	2.1:1

On Farm Trials (Discipline-wise achievements)
Discipline: Animal Science

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On Farm Trials (Discipline-wise achievements)
Discipline: Horticulture

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prodn. per unit crop/enterprise	Net return (Rs/Ha)	B:C Ratio
Tomato	Lack of improved variety	Varietal evaluation of tomato var.NS-585	Varietal evaluation of tomato var.NS-585	10	Technology 1.Plant height-75cm 2.No.of fruits /plt- 30-40 3.Fruit size-70-80gm 4. Yield – 230q/ha Farmers Practice 1.Plant ht- 60 cm 2.No.of fruit/pl-20 3.Fruit wt – 80-90 gm 4.Yield – 190 q	Technology: 230 qt/ha Farmer Practice : 190 q	Technology: 1,43,058.8 Farmer Practice: 1,21,059	2.98 2.79: 1
Onion	Lack of improved variety	Varietal evaluation of onion var.Prema	Varietal evaluation of onion var.Prema	10	Technology 1.Plant height-65cm 2.Bulb size-183g 3. Yield – 162q/ha Farmers practice 1.Plant ht- 45 cm 2.Bulb size – 126 gm 3.Yield -154 q/ha	162 qt/ha 154 qt/ha	1,25,086 1,18,154	2.56 2.43: 1

On Farm Trials (Discipline-wise achievements)
Discipline: Home Science

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
Rural Craft	Wastage of vegetables	'0' Energy cool Chamber	Alternative home made device of cold storage	5	**Shelf life** 20 days (pea) 45 days-(tree bean) **Farmers practice** Keep in bamboo basket & cover with a wet cloth Pea -10 days Tree bean-20 days			