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Department of Agriculture Govt. of Manipur

On Farm Trials 2012-13

On Farm Trials (Discipline-Wise Summary)

Discipline (Minimum 2 OFT per SMS)	Crop / Enterprise	Number of technology/ Social Concept		No. of trials		% of achieveme nt	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
Horticulture	French bean	1		10	10	100	
	Cabbage	1		10	10	100	
	Onion	1		10	10	100	
Plant Protection	Chilli	1	-	10	10	100	
	Rice	1	-	10	10	100	
	Onion	1	-	10	10	100	
Fishery	Fish	3	1	28	22	78.57	
Animal Science	1.Muskovy duck	1		10	10	100	
	2.Rabbit	1		10	10	100	
	3.Pig	1		10	10	100	
	4.Piglet	1		10	10	100	

On Farm Trials (Discipline-Wise Summary)

Discipline (Minimum 2 OFT per SMS)	Crop/ Enterprise	Number of technology/ Social Concept		No. of trials		% of achieveme nt	Reasons for shortfall, if any
		Assessed	Refined	Target	Achievement		
PBG	Cucumber	1		5	5	100	Nil
	Hybrid Rice Cultivation (US-312,318)	1		5	5	100	Nil
	Hybrid Rice Cultivation (Prima)	1		5	5	100	Nil
	Late Planting of Pari Phou. And IR-64	1		4	4	100	Nil
Home Sc.	Organic Dye	1	-	5	5	100	
	Recycling of waste	1	-	3	3	100	
	Horticultural Crops	1	-	5	5	100	
	Women friendly tool	1	-	5	5	100	
Total		26		215	159		

On Farm Trials (Discipline-wise achievements)

Discipline: Agronomy

Crop/ Enterpris e	Problem diagnosed	Technolog y/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/ refinement and its data in bracket	Prdn. per unit crop/ enterpris e	Net return (Rs/Ha)	B:C Ratio
Rice	Improper use of herbicide cannot control weeds effectively in wet seeded rice.	Chemical weed control in wet seeded rice using Saathi @ 160gm/ha. 30 DAS using crop alley system applicatio n.	Weed mana geme nt in wet seede d rice using Saathi .	7	Technology: Crop stand/m2-180 Weed count/m2-Nil No.of grains/panicle-120 Yield-5.6t/ha Farmers Practice: Crop stand/m2-165 Weed count/m2-24 No.of grains/panicle-113 Yield-5.2t/ha	5.6t/ha 5.2t/ha	25,200 19,800	1.6 1.5

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
Blackgram	Heavy weed infestation decreases the yield severely. No weedicide is used in blackgram to control weeds in the district.	Chemical weed management using oxyfluorfen @ 0.01kg ai/ha 1DAS.	Weed management using oxyfluorfen	7	Technology: Weed density/m ² -35 No.of branches/Plant-32 Yield-7.2q/ha	7.2q/ha	10,950	1.61
					Farmers practice: Weed density/m ² -85 No.of branches/Plant-25 Yield-5.4q/ha	5.4q/ha	8,4000	1.52

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
Maize	Continuous use of chemical fertilizers alone leads to soil fertility degradation and low quality produce. No biofertilizer is used in maize cultivation in the district.	INM in maize using azospirillum @ 250ml/ha with 50 % RD of NPK @ 50:40:30kg/ha	INM in maize	7	Technology: Cobs/plant-1.7 Grains/cob-308 Yield-22.5q/ha.	22.5q/ha	9750	1.40
					Farmers: Cobs/plant-1.7 Grains/cob-315 Yield-23.00q/ha.	23q/ha	9500	1.38

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
Maize + Blackgram	Maize is usually grown as pure crop leaving a lot of space in between two rows left unutilized during early period. No intercropping is done maize cultivation in the district	Intercropping of maize with blackgram in 1:2 ratio Spacing of maize- 60x25cm Spacing of blackgram-30cm	Intercropping of maize with blackgram	6	Technology: Maize yield-20.25q/ha Blackgram yield- 4.3q/ha Total yield-24.55q/ha	24.55q/ha	20,575	1.76

8/5/2017

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
1) Cucumber	Low yield of locals	Varietal Trial	Assessment of local and Hybrid Cucumber-US-260	5	Technology 1) Duration:75 days 2) Fruits/Plant-17 3) Fruit wt.-300 gm. 4)Fruit Length-18cm. 5) Yield : 53 Qt./Ha. Local 1)Duration- 100 days. 2) Fruits /Plant:--15 3) Fruit Wt.-- 450 gms. 4) Fruit Length—25 cm 5) Yield— 76 Qt./Ha.	Technology 53 Qt./Ha. Local 76 Qt./Ha	Technology 34080 Local 40320	1.6

8/5/2017

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
2) Rice	Low yield of HYV	Hybrid Rice Production Technology	Evaluation of Hybrids US-312,316	5	US-312 1)Plant Ht. – 1.09 2)Tiller/Plant- 17 3)Grain/Panicle 115 4) yield/Ha 66Qt/ha 5)Duration 135 days	US316 1.07 - 15 - 146 - 65Qt./ha - 135 day -	US-312 : 65 US-316: 66	US-312: 24,000 US-316: 25,000	1.58 1.6	
3) Rice	Low yield of HYV	Hybrid Rice Production Technology	Evaluation of Hybrids (Prima)	5	1)Plant height 2)Tiller 3)Grain/Panicle 4)Duration 5) Yield	Prima 1)1.06 m 2)17 3)145 4)140 5)68	PAC-801 1)1.02 m 2)18 3)150 4)125 5)66	68 (Prema) 66 (801)	27000	1.65

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
4) Rice	Flood and Drought are frequent	Late sown Rice as contingent crop	Late planting of Pari Phou and IR-64	4	<u>Pari Phou</u> 1) Plant Ht. –90 cm 2) Tiller/Plant--11 3) Grain/Panicle--120 4) yield/Ha—35 Qt. 5) Duration—110 days	<u>Pari Phou</u> 35 Qt/Ha.	Not calculated.	Not calculated
					<u>IR-64</u> 1) Plant height-- 2) Tiller/Plant--10 3) Grain/Panicle-- Nil 4) Duration-- Nil 5) Yield-- Nil	<u>IR-64</u>		

8/5/2017

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	Prdn. per unit crop/ enterprise	Net return (Rs./Ha)	B:C Ratio
French bean	Lack of improved variety	Varietal performance (Arka Sharath)	Varietal performance of French bean	6	Technology: 1. Plant height (1ft) 2. No. of pods (15-20/plant) 3. Length of pod (12-16cm) 4)Yield-70q/ha	70 q/ha	113058	2.2
					Farmers Practice Plant height (1.5ft) 2. No. of pods (15-18/plant) 3. Length of pod (12-15cm) 4)60q/ha	60q/ha	83058	1.9
Onion	Lack of knowledge about the Integrated Weed Management among the farmers	IWM of Prema	IWM of onion	5	Technology: 1. Plant height (1.5ft) 2. No. of leaves (4-6/plant) 3. Bulb size (186g) 4)200q/ha	200q/ha	217882	3.2
					Farmers Practice 1. Plant height (1ft) 2. No. of leaves (4-6/plant) 3. Bulb size (150g) 4)175q/ha	175q/ha	146682	2.7

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	Prdn. per unit crop/ enterprise	Net return (Rs./Ha)	B:C Ratio
Cabbage	Lack of knowledge about Integrated Nutrient Management	INM of cabbage (Rare Ball)	INM of cabbage	5	Technology: 1.Head weight (1.6kg) 2.Maturity-60 days 3.Yield-240q/ha	240q/ha	111790	2.4
					Farmers Practice 1.Head weight (1.5kg) 2.Maturity-65 days 3.Yield-230q/ha	230q/ha	102790	2.2

8/5/2017

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
Chilli	Dieback ,Anthracnose Ripe fruit rot	Disease management	Mgmt. of dieback of chilli using Tricyclazole	10	Technology % disease incidence= Dieback-6.27 Anthracnose-15.11 Fruitrot-9.66	Technology 56q/ha (Green)	168200	4:1
					Farmer Practice Defenoconazole % disease incidence Dieback- 7.11 Anthracnose- 16.03 Fruit rot- 8.78	Farmer Practice 53.6q/ha	158600	3.8:1

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
Rice	Blast & Sheath blight	Disease management	Mgmt of blast & sheath blight of rice with Kresoxim metyyl (Ergon)	10	<p>Technology % disease incidence = Leaf blast- 11.11 Neck blast- 13.78 Sheath blight- 7.22</p> <p>Farmers practice % disease incidence Tricyclazole 25% @ (225 ai/ha) Leaf blast- 10.00 Neck blast- 13.76 Sheath blight- 25.56</p>	<p>Techno:- 6.25 tons/ha</p> <p>F.P 5.78 tons/ha</p>	<p>Tech:- 29108</p> <p>F.P 24000</p>	<p>Tech:- 1.63:1</p> <p>F.P 1.53:1</p>

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
Onion	Thrips Continuous use of recommended synthetic pyrethroid develop resistance in thrips.	Trap lure	Mgmt. of onion thrips using maize as intercrop	10	<p>Technology Thrips/plant (60 DAT)= 2nymphs/plant Thrips/plant (75 DAT) = 15 nymph/plant Wt. of 20 bulbs =807 gm</p> <p>Farmers practice (without intercrop) Thrips/plant(60 DAT) =4 nymphs/plant Thrips/plant (75 DAT) =45 nymph/plant Wt of 20 bulbs =718 gm.</p>	<p>Techno:- 217q/ha</p> <p>F.P 194 q/ha</p>	<p>Techn: 370200</p> <p>F.P 324200</p>	<p>Tech: 6.8 : 1</p> <p>F.P 6.1 : 1</p>

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
Fish + <i>Euryale ferox</i>	Low yield and low B:C ratio in single enterprise	Fish cum <i>Euryale ferox</i> Farming	Fish cum <i>Euryale ferox</i> farming	7	1.Yield of fish (1200Kg/ha) 2. Yield of <i>Euryale ferox</i> 35000 fruits of <i>Euryale ferox</i> /ha Farmers practice 1.Yield of fish (900Kg/ha) 2. Yield of <i>Euryale ferox</i> 32000 fruits of <i>Euryale ferox</i> /ha	Yield of fish (1200Kg/ha) Yield of <i>Euryale ferox</i> 35000 fruits of <i>Euryale ferox</i> /ha Farmers practice 1.Yield of fish (900Kg/ha) 2. Yield of <i>Euryale ferox</i> 32000 fruits of <i>Euryale ferox</i> /ha	1,69,525	2.5
Grass carp	Scarcity of quality seeds	Early seed production of grass carp	Early seed production of grass carp	7	Growth of seed (1.5g/month) 1. Survivability of seed (80%) Farmers practice 1. Growth of seed (2g/month) 2. Survivability of seed (60%)	1.Growth of seed (1.5g/month) 2.Survivability of seed (80%) Farmers practice 1. Growth of seed (2g/month) 2. Survivability of seed (60%)	1000/0.01	1.3

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
Climbing perch	Scarcity of quality seeds	Seed production of climbing perch	Seed production of climbing perch	3	1.Growth of seed (1g/month) 2.Survivability of seed (55%) No farmers practice	1.Growth of seed(1g/mnth) 2.Survivability of seed (55%) No farmers practice	700/0.01	1.6
Walking catfish	Non availability of quality seeds	Seed production of climbing perch	Seed production of climbing perch	5	1.Growth of seed (1g/month) 2.Survivability of seed (23%) No farmers practice	1.Growth of seed(1g/month) 2.Survivability of seed (23%) No farmers practice	750/0.01	1.2

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 enterprise (per sow/year)	Net return (Rs/sow)	B:C Ratio
Piglet	i. Mortality rate high in piglets ii. Piglet after farrowing were kept in bamboo basket holding with naked hands leading to non acceptance by sow	Provision of bamboo made guard rails in brooder house	Provision of bamboo made guard rails in brooder house	10	<p>Technology</p> <p>i.. Litter size at birth(11.33) ii. Litter size at weaning (10.66) iii. Weekly body weight (g) 0(450g), 1(735.7) 2(1557.1), 3(2078.5) 4(2857.1) 5(3342.8) 6(3885.7) 7(4342.8) 8(4730.3) iv. Mortality at 8 wks(2)</p> <p>Farmer Practice</p> <p>i. Litter size at birth(10.1) ii. Litter size at weaning(4.2) iii. Mortality at 8 wks(6) iv. Wkly body wt(g) 0(425), 1(528.2) 2(1125.3) 3(1642.7) 4(1828.9) 5(2438.6) 6(3012.2) 7(3782.4) 8(4238.6)</p>	<p>Technology</p> <p>i.Live wt of ii.sow: 80kg iiiLitter size at Weaning- 10.8</p> <p>Farmers Practice</p> <p>i.Live wt of iisow: 70kg iii.Litter size at Weaning- 4.1</p>	43000	2.4:1

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 3 (1:2) rabbit/year)	Net return (Rs/3 rabbit)	B:C Ratio
Rabbit	<p>i. Knowledge of rearing broiler rabbit for meat purpose is very rare</p> <p>ii. Rabbit farming is not popular in our district</p>	Productive and reproductive performance of broiler rabbit	Productive and reproductive performance of broiler rabbit	10	<p>Technology</p> <p>i. Litter size at birth(6.33)</p> <p>ii. Litter size at weaning(4.16)</p> <p>iii. Survivability % (65.78)</p> <p>iv. Dressing%(47.33)</p> <p>Farmer Practice</p> <p>i. Litter size at birth(5.2)</p> <p>ii. Litter size at weaning(2.1)</p> <p>iii. Survivability %(40.5)</p> <p>iv. Dressing%(44.5)</p>	<p>Technology</p> <p>i. Total live wt (kg) 6.5</p> <p>ii. Bunny rabbit no.-24</p> <p>Farmers Practice</p> <p>i. Total live wt (kg) 6</p> <p>ii. Bunny rabbit no.-12</p>	1650	1.77:1

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 2 sow	Net return (Rs/2 sow)	B:C Ratio
Pig	Problem in procurement of good variety boar	Synchronization and fixed time insemination	Synchronization and fixed time insemination	10	<p>Technology</p> <p>i.No. of sow treated(24) ii. % of sow responsive to treatment (87.5) iii. No of sow responsive to treatment(21) iv. Average onset of estrus after treatment (4th day) v. Farrowing rate (no. of sow) (21) vi. Litter size at Birth (10.28) vii. Litter size at weaning (8.66) viii. Survivability %(84.25)</p> <p>Farmer Practice Farmer are not yet practice.</p>	<p>Technology</p> <p>i.Live weight- 150kg ii. No. of piglet at weaning(17).</p> <p>Farmers Practice Farmer are not yet practice.</p>	56000	2.6:1

On Farm Trials (Discipline-wise achievements)

Crop / Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. per duck	Net return (Rs/50 duck)	B:C Ratio
Duck (Muskovy Duck)	Improper management leading to increase in mortality	Production performance of muskovy duck using locally available feed	Production performance of muskovy duck using locally available feed	10	<p>Technology</p> <p>i. Weekly body wt(g) 0(50), 4(450), 8(1100),12(1200), 16(1400), 20(1700)</p> <p>ii. Survivability % 4(100), 8(98) ,12(97), 16(97), 20(96)</p> <p>iii. Egg wt (60g)</p> <p>iv. Dressing% (66.2)</p> <p>v. Hatchability% through Brooding (92)</p> <p>Farmer Practice</p> <p>i. Weekly body wt(g) 0(49), 4(380), 8(950),12(1008), 16(1250), 20(1500)</p> <p>ii. Survivability % 4(96), 8(94) ,12(91), 16(88), 20(85)</p> <p>iii. Egg wt (58g)</p> <p>iv. Dressing% (64.8)</p> <p>v. Hatchability% through Brooding(89)</p>	<p>Technology</p> <p>i. No.of egg -80 (5 months egg lay)</p> <p>ii. Body wt of duck At first egg lay(7 months)-2.5kg</p> <p>Farmers Practice</p> <p>i. No.of egg -72 (5 months egg lay)</p> <p>ii. Body wt of duck At first egg lay (8 months)-2.2kg</p>	48080	2.12:1

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./goat)	B:C Ratio
Woman friendly tools	Drudgery	Manual double screen cleanere	Use of Manual double screen cleaner for separation of rice husk	5	Technology: Cleaning efficiency (80-85%) Capacity k.g/hr. 150-200 Farmers practice: Separated rice husk manually and involve two people to operate			
Horticultural crop	Poor nutrition and management	Nutrition gardening	Backyard nutritional gardenin g of rural areas	5	Technology: Economic saving- Rs.5950, nutritional benefit-suppliment, vitamin, minerals, protien & calcium Farmer Practice: Buy from market			

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./goat)	B:C Ratio
Organic dye	Not aware of locally available mordant	Natural dyeing	Improving colour fastness of cotton fabric with natural dye	5	Technology: Colour fastness property, effect of mordanting Farmer practice: Dye the fabric without mordant			
Recycling of waste material	Thrown as waste material	Recycling of wrapping paper	Value added product from waste wrapping paper	3	Cost benefit, varieties in product Farmer Practice: Thrown as waste material	3000	2000	1:2

