

# KVK, Thoubal

Department of Agriculture Govt. of Manipur

## On Farm Trials 2013-14

### 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		
Animal Science	Poultry(Broiler)	1	-	5	5	100	NA
	Goat	1	-	6	6	100	NA
	Poultry(Vanaraja/ Giriraja)	1	-	4	4	100	NA
	IFS (Duck+Fish)	-	1	6	6	100	NA
Fishery	Walking catfish	-	1	5	5	100	NA
	Carp	1		5	5	100	NA
	Prawn	-	1	5	5	100	NA
<b>Total</b>		14	3	111	111	100	NA

Copy and Paste table to add for more disciplines if needed

## 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 (q/ha)	Net return (Rs/Ha)	B:C Ratio
Maize	Problem of poor seed germination and frost due to cold weather cond.	Planting of rabi maize in Southern slope of ridge	Scientific cultivation of rabi maize	4	Technology: i)Germination %-70 ii)Plant ht.-175cm iii)No.of grains/cob-425 iv)Yield -20.40q/ha <b>Farmer Practice</b> Not done due to lack of technology	20.40	14700	1.74

## 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 (q/ha)	Net return (Rs./Ha)	B:C Ratio
Cauliflower	Injudicious use of fertilizer alone deteriorates soil health & reduce quality of produce or Lack of knowledge about INM	INM Var-White Flash Root deep method(PSB) +100%P+RDN K(120:60:100) kg/ha+FYM-11ton/ha applied locally.PK were applied with 1/3 <sup>rd</sup> of the quantity of total N as basal dose	INM of Cauliflower	10	<b>Technology</b> 1.Curd weight-1.2 kg/pl 2.Duration – 55 days 3.Yield- 164 q/ha	164	3,23,700	4.7
					<b>Farmers Practice</b> 1.Curd weight-1.15 kg/pl. 2.Duration – 65 days 3.Yield- 152 q/ha	152	2,92,700	4.3

## 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 (q/ha)	Net return (Rs./Ha)	B:C Ratio
Tomato	Farmers are unaware of the appropriate using organic manures	Performance of fruit quality & yield by using organic manure(vermi compost 300gm/plant) as basal .	Used of organic amendm ent in tomato prodn.	6	<b>Technology</b> 1.No. of fruits/plant- 20-28 2. Fruit size-86 gm. 3.Plant ht- 60 cm	328	5,53,584	6.4
					<b>Farmers Practice</b> 1.No. of fruits/plant- 25-30 2. Fruit size-87.6 gm. 3.Plant ht- 65 cm	338	4,76,310	6.1
Watermelon	Lack of improved variety	Varietal introduction var. NS-295 NPK(120:60:60) kg/ha half of N & full dose of PK were applied as basal dose. FYM-12 t/ha Triangular method- 5x5 ft	Varietal introdn. of watermelon	5	1.Runner length-4.5 m 2.No. of branches-4 3.No. of fruits/plant-3 4.Fruit size-5.5 kg	280	3,88,860	5.4

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
Bitter gourd	Melon fruit fly, fruit borer , pumpkin beetle, leaf minor & powdery mildew, Downey mildew	Chlorantran iliprol for Insect pest & Azoxytrobin for mildews mgmt.	Insect & disease mgmt for bitter gourd	10	<b>Technology:</b> <b>% infestation</b> 1)Fruit fly-9.4/pl. 2)Fruit borer-4.7 3)Leaf minor-9.48 4)Pumpkin beetle-0.7 <b>%infection</b> 1)Downey mildew-3.5% 2)Powdery mildew-4.1	182 qtl/ha	3,44,000	5.4:1
					<b>Farmers practice:</b> Flight-T & Baculure <b>% infestation</b> 1)Melon fruitfly-4.1 2)Fruit borer-7.9 3)Pumpkin beetle-5.04 4)Leaf minor-29.37 Myclobutanil 10% <b>%infection</b> Powdery mildew-4% Downey mildew-21%	174qtl	3,22,000	5.1:1

## 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	Plant hoppers (BPH & WBPH)	Insect pest mgmt.	Plant hopper mgmt. of rice with + Imidachloprid + Ethiprole 80%WG	10	<b>Technology:</b> <table border="0"> <tr> <td></td> <td><b>BPH</b></td> <td><b>WBPH</b></td> </tr> <tr> <td>Before spray</td> <td>246.7/pl</td> <td>2252.3/pl</td> </tr> <tr> <td colspan="3">1<sup>st</sup> spray</td> </tr> <tr> <td>5DAS</td> <td>36</td> <td>64.7</td> </tr> <tr> <td>10DAS</td> <td>7.3</td> <td>10.0</td> </tr> <tr> <td colspan="3">2<sup>nd</sup> spray</td> </tr> <tr> <td>5DAS</td> <td>21.7</td> <td>40.3</td> </tr> <tr> <td>10DAS</td> <td>26.0</td> <td>7.7</td> </tr> <tr> <td colspan="3">%Mean reduction</td> </tr> <tr> <td>Over control</td> <td>98.21</td> <td>98.68</td> </tr> </table> <b>Farmer Practice:</b> Imidachloprid % Mean reduction BPH-73.23/sq.m WBPH-92.58/sq.m		<b>BPH</b>	<b>WBPH</b>	Before spray	246.7/pl	2252.3/pl	1 <sup>st</sup> spray			5DAS	36	64.7	10DAS	7.3	10.0	2 <sup>nd</sup> spray			5DAS	21.7	40.3	10DAS	26.0	7.7	%Mean reduction			Over control	98.21	98.68	6.25	29108	1.61:1
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## 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
Banana	Banana leaf spot, leaf blight & Pseudostem borer	Valiamycin & Mancozeb + Cymoxanil for leaf spot & blight. Fipronil for borer	Leaf spot & blight & Pseudostem borer mgmt. For banana	10	<b>Technology :</b> %infection Leaf spot- Leaf blight- % infestation Pseudostem borer- <b>Farmer Practice</b>	Ongoing		

## 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
Brinjal	Root knot nematode Ralstonia <u>solanacearum</u>	Disease mgmt. for brinjal	<i>Trichoderma harzianum</i> & <i>Pseudomonas fluorescens</i> for the mgmt. of root nematode & bacteria wilt	7	<b>Technology :</b> % of infected plants No.of fruits/pl. Size of fruits	2.38qt/ha	296700	5.3:1

Copy and Paste table to add for more disciplines if needed

## 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
Cucumber	Low yield of local cucumber	Varietal evaluation	Scientific cucumber cultivation	8	<b>Technology :</b> i.Duration-75 ii.No. of branches-3 iii.No. of fruits/plant-12 iv.Fruit wt.-250 gm v.Yield-120 t/ha <b>Farmer Practice:</b> i.Duration-3.5 month ii.No. of branches-5 iii.No. of fruits/plant-16 iv.Fruit wt.-400 gm v.Yield-22.4 q/ha	8000	12,000	2.4
Rice	Frequent flood & draught	Varietal evaluation	Late sown rice	5	<b>No flowering</b>			

## 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	Net return (Rs/100 birds)	B:C Ratio
Broiler	Mortality rate is high sometimes due to stroke or disease or stress	Effect of garlic feeding on growth performance of broiler. Amount of garlic/100kg feed =300g	Effect of garlic feeding on growth performance of broiler. Amount of garlic/100kg feed =300g	10	<b>Technology :</b> <b>Weekly body wt;</b> <b>Mortality%</b> 1(180,2) ; 2(450,Nil) 3(850,Nil); 4(1300,Nil) 5(1900,2); 6(2300,Nil) 7(2700,Nil); 8(3100,Nil) Farmer practice: 1(109,3); 2(350,2) 3(610,1); 6(2000,2) 5(1550,7); 6(2000,2) 7(2400,1); 8(2800,Nil)	3.1kg/bird	8948	1.4:1
						2.8kg/bird	6849	1.2:1

## 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	Net return (Rs/Kid)	B:C Ratio
Goat	Low body wt. gain in preweaned kid	Effect of vitamin, mineral supplements on pre weaned goats of Manipur. Weaning age-3mths	Effect of vitamin, mineral supplements on pre weaned goats of Manipur. Weaning age-3mths	6	<b>Technology :</b> 1.Weekly body growth. 2. Weekly body measurement 3. Mortality  <b>** Separate slide</b>	Live wt. at 3mths- <b>4.7kg</b>  Farmer Practice: (FP) 3.06kg	1773.00  FP: 1128	3.4:1  FP: 2.4:1

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Months	0	1	2	3
Body wt.(kg)	1.19	2.7	3.64	4.7
Body length (kg)	23.21	26.21	27.86	29.73
Body height (cm)	24.87	29.6	31.26	33.13
Heart girth (cm)	26.72	32.6	34.27	36.12
Mortality	-	-	-	-

Farmer practice:

Month	0	1	2	3
Body wt.(kg)	1.10	2.06	2.48	3.06
Body length(cm)	20.89	23.58	26.47	29.21
Body height(cm)	22.13	25.22	28.10	30.83
Heart girth(cm)	23.22	26.30	29.19	31.92
Mortality%	-	-	-	-

## 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	Net return (Rs/10birds)	B:C Ratio
Poultry	Farmers difficult to choose the right variety for backyard farming	Comparative study on growth and production of Giriraja and vanaraja	Comparative study on growth and production of Giriraja and vanaraja	4	<b>Technology :</b> i) Age at 1 <sup>st</sup> lay(days)- Giriraja(150) Vanaraja(135) ii) Hatchability%-(72.6)Giriraja; (78.4)Vanaraja iii) Average egg production- Giriraja(13eggs/mth ) Vanaraja(18eggs/mth) iv) Avg.wt.kg at 20wks- Giriraja ( 2.52)Vanaraja(2.65)	Giriraja(Avg.wt at 8mths.-3kg, Egg no.- 13eggs/mth) Vanaraja(Avg.wt at 8mths.-3.2kg, Egg no.- 18eggs/mth)	Giriraja( 4242) Vanaraja(5109)	Giriraja- 1.87:1 Vanaraja- 2.25:1

## 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 37ducks/ 0.125ha/pond	Net return (Rs/0.12 Ha.pond )	B:C Ratio
IFS/ Duck/ Fish	Practice of monoculture.	Economics of duck cum fish farming i)No.of duck-300/ha pond ii)Breed-Khaki campbell iii)No.of fingerling-10,000/ha	Economics of duck cum fish farming	6	<b>Technology :</b> Average wt of duck at 8mths- 2kg. Average wt.of fish-0.14kg	Duck wt- 68kg Fish-119kg (Finger lings-1000nos. Polyculture model 8months duration)	0.12ha/pond  36032.00	3.2:1

## 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
Walking catfish	Low survival of seed	Seed production	Seed production of walking catfish	5	<u>Technology</u> a. Growth of fish-0.5g/month b. Survivability of seed (46%) c. B:C ration 1.25:1	2.07 kg 0.01ha/3 month	Rs.3600/0.01ha	1.5:1
					<u>Farmers practice</u> a. Growth of fish 0.5g/month b. Survivability of seed (15%) c. B:C ratio-1.05:1	1.5 kg/0.01ha/3 month	Rs.3000/0.01ha	1.05:1



## 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(kg/ha)	Net return (Rs./Ha)	B:C Ratio
Carp	Costly & unavailability of quality feed	Feeding management	Feeding of locally available fish feeds (Rice brand +mustard oil cake@3% of biomass of fish	6	<b>Technology</b> a) Growth of fish (270g in 6 months) b) B:C ratio (1.41)	2160	127000	1.41
					<b>Farmers practice</b> a.Growth of fish (235g in 6 months) b. B:C ratio (1.27)	1880	81000	1.27
Prawn	Low survival due to low temperature during winter	Prawn culture	Prawn culture during summer	4	<b>Technology</b> a.Growth (57gin 6 months) b.Survivability (26% ) c.B:C ratio (1.27)	1111.5	120750	1.27
					<b>Farmers practice</b> a.Growth (52g in 6 months) b.Survivability (15%) c.B:C ratio (1.07)	585	3500	1.07

