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Department of Agriculture Govt. of Manipur

On Farm Trials 2016-17

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		
Animal science	Grower pig	A	-	5	5	100	NA
	Poultry	A	-	5	5	100	NA
Home Science	Dyeing	A	5	5	5	100	
Total				**53**	**53**		

On Farm Testing : Agronomy

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)
Chickpea	Irrigated	Usually broadcasted in the district resulted to poor crop stand and management thereby causes reduce yield	Sowing of 2 rows chickpea at 30cm apart on 67.5cm raised bed. Variety-JG-14	Sowing of 2 rows chickpea at 30cm apart on 67.5cm raised bed.	4	**No.of branches/pl.-15** **No.of pods/pl.- 52** **Pl.ht. -45** **Yield -9.2 q**	**9.2 q**	32,700	2.45
Lentil	Rainfed	Late sowing after harvesting rice resulted moisture deficit thereby causes yield reduction under rainfed condition	Sowing of lentil 10 days before harvesting of rice (Utera)	Sowing of lentil 10 days before harvesting of rice.	3	**Pl. population/ sq.m** **No. of branches/pl.** **No. of pods/pl.** **Pl.ht.** **Yield**	**Failure, due to rain during seedling stage i.e just after harvesting of rice when the seeds are well sprouted resulting to low plant population. Hence,the yield was just 2q/ha .This may be taken as failure**		

On Farm Testing : 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)
Cucumber	Irrigated	Lack of shoot duration which preferred by the farmer	Varietal trial of Pusa Barkha	Varietal trial of Pusa Barkha	5	**Still crop is in vegetative phase**			
Tomato	Irrigated	Non availability of Consumer preference for having high quality var.	Varietal trial of Arka Samrat	Varietal trial of Arka Samrat	5	**Technology** Pl.Ht-100 cm Fruit size-95 gm Yield-265 q B.C ratio-4.3 **Farmer practice(local var)** Pl.Ht -125 cm Fruit size- 87 gm Yield -249 q B.C ratio- 4.1	265q 249q	**304534** **284500**	**4.3** **4.1**

On Farm Trial : 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	Fruit borer, Dieback, Anthracnose Ripe fruit rot	**Flubendamide 20wg @ 5gm + tricyclazole 75% @10 gm/15lt water** is to be sprayed 30days after transplanting & 2nd spray at 15 days after 1st spray. Req.-Flubendamide 20wg @60gm/ha & Tricyclazole75% @300gm/ha.	Mgmt. of Fruit rot & dieback of chilli using Flubendamide & **Tricyclazole**	10	**Technology** **%Fruit borer =8** **% disease incidence=** **Dieback-6.27** **Anthracnose-15.11** **Fruitrot-9.66**	**Technology** 56q/ha (Green)	198200	4:1
					Farmer Practice **Chlorantraniliprole fruit borer=8 Defenoconazole % disease incidence** **Dieback- 7.11** **Anthracnose- 16.03** **Fruit rot- 8.78**	**Farmer Practice** 53.6q/ha	180600	3.8:1

On Farm Trials : 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	Shoot &Fruit borer	Borer management by spraying Cypermethrin 25EC @o.oo75% at20 days interval.	Mgmt of shoot & fruit borer with Cypermethrin	5	**Technology** % Shoot borer, Fruit borer, Yield. **Farmers practice** (Corajen) % Shoot borer, Fruit borer, Yield.	53.6 q/ha 53.6	414220	6.35:1 3.8 :1

OFT Discipline:PBG

Crop / Enterprise	Farming Situation	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	Rainfed /lowland	Inadequate no. of short duration variety of rice	Pre-kharif rice variety CAU R-3	Cultivation of pre-kharif rice Var. CAU-R-3 under SRI	10	**Technology** Var.- 102 cm Plant height-115 No.of grains/panicle-154 Duration-120days Yield-41q/ha **Farmers' practice:** **RC Maniphou-12** Plant height-112cm No.of grains/panicle-160 Duration-115days Yield-46q/ha	41q/ha 46q/ha	39200 44000	1.7 1.9
Mustard	Rainfed /Swampy land	Low yield of existing short duration varieties	**Mustard var. PM-28**	Zero tillage cultivation	10	Technology :- Pl. ht – 96 cm Duration -90 days No. of branches-5 Yield -9.5 q/ha Farmers Practice Var Local Yella Pl.ht -80 cm Duration -100 days No. of branches -4 Yield -7.6 q/ha	9.5 q/ha 7.6q/ha	30,000 21,000	2.68 2.24

On Farm Testing (Animal Science)

Livestock	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters on Assessment	Prdn. per unit livestock/pig	Net return (Rs/Unit	B:C Ratio (GR/GC)
Pig	Scarcity of feed	Effect of brewery waste on growth performance of grower pig (3:1)	Effect of brewery waste on growth performance of grower pig (3:1)	5	i.Body wt at 2 months: 5.8g ii. Body wt at 8 months- 64kg	Live wt at 8 months -64kg	14080/ pig	1:3.96
					Farmer Practice (without brewery waste local feeding)	**Farmer Practice**		
					Body weight at 2 months 5. Body weight at 8 months-53kg	Live wt at 8 months -53kg	11660/ pig	1:3.2

On Farm Testing : 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/ bird	Net return (Rs/bird)	B:C Ratio (GR/GC)
Poultry	Lack of adequate numbers of improved breeds	Production performance of Kamrupa, a dual purpose bird under local feeding condition (local feed with kitchen waste)	Production performance of Kamrupa, a dual purpose bird under local feeding condition	5	Technology i. Growth performance (Weeks/g) 0(39), 4(261.4), 8(540), 12(835) 16(1070) 20(1235), 24(1450)28(1660) 32(1900) i. Survibility 98% ii. Age at 1st lay169.66 iii. Hatchability % -97	Wt of male(32wks) 2kg Wt of female (32wks) 1.9kg wt of an egg 50g Dressing% 68	297.00	1:1.91
					Farmer Practice	Farmer Practice		
					Technology (Giriraja) i. Growth performance 20Wks(2300g) ii. Survibility 97% iii. Age at 1st lay 156.23 iv. Hatchability % -95	Wt of male 2.3 Wt of female2.9 wtt of an egg 54 Dressing% 70	305.00	1:1.87

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)
Beet root	Colour fastness of natural dye fabrics	Dyeing	Dyeing of cotton fabrics with natural mordants	5	Colour staining in Pre mordanting -20min Simultanous mordanting-30-40min Post mordanting-25min	Optimum dye extration time-50min Dye material concentration-10g/100g fabric Dyeing time-30-45min Optimum dye absorption	Colour fastness grades for colour staining increases with the application of simultaneous mordanting