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On Farm Trials

(2011 - 2012)

On Farm Trials (Discipline-Wise Summary)

Discipline (Min.2 OFT/SMS)	Crop / Enterprise	Number of technology / Social Concept		No. of trials		% of achievement	Reasonsfor shortfall, if any
		Assessed	Refined	Target	Achievement		
Plant Protection	Banana	1	-	3	3	100	-
	Ginger	1	-	3	3	100	
Horti.	Banana	1	-	3	3	100	-
Agro-forestry	Leuceana sp. and soybean	1	-	3	On going	-	-
	Leuceana, orange, banana	1	-	3	On going	-	-
AH & Vety	Piggery cum fish	1	-	3	On going	-	-
	Rabbitry	1	-	4	On going	-	-
Home Science	Mushroom	1	-	3	3	100	-
	Baby food	1	-	5	On going	-	-
Soil Science	Rice	1	-	3	3	100	-
	Soil	1	-	3	3	100	-

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
					Technology	**Technology**		
Banana	Pest infestation	Soil treatment with carbofuran@ 40g/plant treatment @ 15 days interval.	Management of stem & rhizome borer in banana	3	1. Pest incidence(8%) 2.Yield (412qtl/ha)	412 qtl/ha	4,93,000	4.94
					Farmer Practice			
					1.Pest incidence(35%) 2.Yield (368q/ha)	368 qtl/ha	4,27,000	4.41
Ginger	Disease infestation	Soil & Rhizome treatment	Management of rhizome rot in ginger	3	1. Disease incidence(5%) 2.Yield(154q/ha)	154 qtl/ha	1,81,000	4.62
					Farmer Practice			
					1. Disease incidence(33%) 2.Yield(121q/ha)	121 qtl/ha	1,31,500	3.63

Soil Science

Crop /Enterprise	Problem diagnosed	Technology/ Social Concept	Title of OFT	No. of trials	Parameters of assessment/refinement and its data in bracket	Prdn. pe unit crop/enterprise	Net return (Rs/Ha)	B:C Ratio
					Technology	**Technology**		
Rice	Low productivity	1) Org. manure: 5(T1) & 10 (T2) t/ha of FYM & 5t/ha. vermi. 2) 3 levels of fertilizer @ 70:35:35(T1) kg/ha of NPK with 25% (T2) & 50% (T3) increase.	Nutrient management in rice	1	1.Yield – 42.5, 43.5, 43.3, 40.7 & 45qtl./ha. 2.No. of plant/sq.m-9 3.No. of tillers/pl - 33 4.No. of grains/ panicle – 245 5.Plant ht – 103.8cm.	45 qtl./ha	50,000	2.25
					Farmer Practice			
					1.Yield – 28qtl/ha. 2.No. of tillers/pl – 18 3.No. of grains/ panicle – 143 4.Plant height -103.8cm.	28 Qtl/ha	26,000	1.86
Soil	High acidity	Soil treatment with cattle manure (40g/kg soil) , soil tested after 2, 4, 6 & 8 weeks.	Effect of cattle manure on the pH of acid soil	3	1. Soil pH is amended to (4.8 – 5.4) in the 8th week.	-	-	-

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) (Rs. In Lakh)	B:C Ratio
					Technology	**Technology**		
Banana	Low productivity per unit area of traditional system of planting	Pit size - 45x45x45, spacing - 1.2x1.8m, 110:33:33g NPK	High Density Planting in Banana	3	1.No. of hands per bunch – 9.76nos. 2. No. of finger per hand – 13.16nos. 3. Average weight of bunch – 31Kgs. 4. Yield/ha. – 496qtl/ha	Technology 496qtl/ha.	6,19,000	5.95
					Farmer Practice			
					1.No. of hands per bunch – 7.56nos. 2. No. of finger per hand – 11.16nos. 3. Average weight of bunch – 27Kgs. 4. Yield/ha. –368qtl/ha	368 qtl/ha	4,27,000	4.41

Agro-forestry

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) (Rs. In Lakh)	B:C Ratio
					Technology	**Technology**		
Leuceana, soybean	Soil erosion	Determination of Nitrogen fixation through Leuceana sp. and yield of crops	Intercropping of Leuceana with soybean	3	a)Seed rate – 75 kg/ha b)Yield of soybean – 22q/ha	On-going	-	-
Leuceana, paddy, orange, banana	Soil erosion	Determination of Nitrogen fixation through Leuceana sp. and yield of crops	Intercropping of Leuceana with orange, & banana	3	a) Yield b) Status of soil fertility	On-going	-	-

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) (Rs. In Lakh)	B:C Ratio
					Technology	**Technology**		
Mushroom	Lack of awareness in hygienic cultivation of mushroom.	Cultivation of oyster mushroom with paddy straw	Cultivation of oyster mushroom	3	a) Duration – 50 days b) Yield – 1.5kg/block c) No. of block/sq.m - 7 d) Yeild/sq.m. – 10.5kg	Rs.2100/sq.m.	1900/sq.m.	10.5
Baby food	High infant mortality rate in the district due to anemia.	Scientific method of baby food preparation	Preparation & formulation of nutritious baby food.	5	Avg. increase in Hb level was 6.3-6.7-7.2 in 6, 9 & 12 months respectively.	On going	NA	NA

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/Ha) (Rs. In Lakh)	B:C Ratio
					Technology	**Technology**		
Rabbit	Lack of enthusiasm on rabbitry.	Age at first conception, gestation period, adaptability, litter size, health.	Effect of pro-biotic on the performance of broiler rabbit.	4	1.Age at first conception–7 months. 2.Gestation – 33days. 3.Kindling-successful only at 3rd conception. 4.Weight of kits-35g. 5.Litter size- 6 nos. 6.Cannibalism observed. 7.Probiotics will be given after reaching 5 weeks.	1.Kindling-successful only at 3rd conception. 2.Weight of kits-35g. 3.Litter size- 6 nos.	On going	-
Pig & fish	Lack of awareness in integrated approach.	Monthly growth rate in fish & pig, adaptability, health.	Piggery cum fish culture	3	1.Length of fish at stocking 1cm, stocking rate 400nos./0.06ha, growth per each month – 3cm, 5cm, 7cm, 9cm,11cm, 15cm, 18cm, 20cm, 21cm. from stocking. 2.Monthly avg. body wt. gain of pig 1.5inch, age of sexual maturity 8 months, gestation period 116 days, litter size 7 nos.	On going	NA	NA

ON FARM TRIALS (OFT)

OFT ON ANIMAL SCIENCE

1. **Effect of probiotic on the performance of broiler rabbit.**

2. **Pig cum fish culture at Tuitlawk Farm.**

HOME SCIENCE

1. **Cultivation of Oyster mushroom on paddy straw.**

2. **Preparation & formulation of nutritious. baby food.**

PLANT PROTECTION

Management of soft rot in ginger.

Management of stem borer in banana.

HORTICULTURE

High density cultivation of Dwarf Cavendish.

AGROFORESTRY

Sloping Agricultural Land Technology (SALT)