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Department of Agriculture Govt. of Manipur

On Farm Trials 2014-15

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
Arhar	Heavy weed infestation at initial stage leads to reduce growth and yield.	Pre-emergence application of Pendimethalin @1.25kg ai/kg 1ha at one DAS followed by HW at 35DAS	IWM in Arhar	5	Ongoing			

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
Onion	Low yield and high bolting in the existing improved variety	Varietal trail Bhim Shakti Spacing:15x 8cm RD(NPK)150: 50:50kg/ha FYM=12kg/h a(localize)	Varietal performanc e of onion	5	Technology 1.Pl.height – 2 ½ feet 2.Days maturity – 130 days 3.Bulb size /plant – 125 gm 4.Yield – 276 q/ha 5.B:Cratio – 4.7	276	304282	4.7
					Farmers practice : (Nasik Red) 1. Pl. height – 80 cm 2. Days to maturity – 150 days 3. Bulb size /plant – 102gm 4. Yield – 260 q/ha	260	281882	4.3
Garlic	Lack of improved variety by the farmers	Varietals trial of G-313 Spacing – 15 x 7 cm, RDNPK (150:50:50) kg/ha, FYM- 12kg/ha	Varietal performance of garlic	5	Technology 1.Pl.height 2.Bulb size(gm) /bulb 3.No.of cloves/bulb 4.Days to maturity 5.Yield/B.C Ratio Farmer Practice Same parameter as new technology	Ongoing		

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
Ladies finger	Insect pest: Aphid, Jassid, white flies, H.armigera, S.litura	Insect pest mgmt. with Cyantraniliprole @75aig/ha	Insect pest mgmt. for ladies finger	5	Technology Aphid-7.51, Jassids-2.64, White fly-3.28, A.armigera-1.10, S.litura-1.75	8.1t/ha	1,44,500	3.49
					Farmers practice Diamethoate 150gm ai/ha Aphid-13.16 Jassid-3.57 White fly-5.38 H.armigera-2.12 S.litura-2.48	7.4 t/ha	1,27,000	3.19
Tomato	White flies, mites	Spiromesifen 240SC	Insect pest mgmt. of tomato	5	Continuing	-	-	-

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
Barb	Scarcity of carp seeds	Seed production of carp	Seed production of carp	5	1.Survivability of seed (46%) 2.Growth of fish Total length-92mm in 3mths Weight-27g in 3mths	9,20,000 fingerlings/ ha	3,90,000	6.57
Grass carp + paddy	Scarcity of carp seeds	Seed production of carp	Seed production of Grass carp in paddy fields	4	1.Production of paddy- 3.57t/ha 2.Survivality of seed(30-35%) 3.Growth of fish Total length-245cm in 5mths Weight of fish-162g	3.57tons - paddy/ha 325000 fingerlings/ha	3,35,000	2.08

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	Net return (Rs)
Energy saving devices	Lack of use of renewable energy saving devices	Box type solar cooker	Introduction of box type solar cooker	5	Amount of fuel consumed in boiling 1lit.of water-800g charcoal. Time consumed in boiling 1lit of water-15-20min. Amount of fuel consumed in cooking 1kg of rice-1kg charcoal. Time consumed in 1kg of rice -15min. Time consumed in solar cooker for boiling 1lit of water-25min. Time consumed in cooking 1kg of rice in solar cooker-40-45min.	It saves Rs.6 for boiling 1lit of water & Rs.7 for cooking 1kg of rice.

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/bird)	B:C Ratio
Poultry (Broiler)	Mortality % is high	Feeding of probiotic in broiler. Amount req. 2gm/lit drinking water	Feeding of probiotic in broiler	5	Technology: 1).Weekly body wt.(g) 0(44),1(116.4), 2(324.53),3(651.33), 4(1076.66), 5(1509.33), 6(2120), 7(2450), 8(2750) 2).Weekly mortality 1(1), 2(0), 3(0), 4(0), 5(0), 6(0), 7(0), 8(0) 3).Weekly feed intake (g/week/bird) 1(68), 2(221), 3(426), 4(643), 5(836), 6(920), 7(980), 8(1080)	2.75kg at 8 weeks	14,582	1.71:1

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 bird	Net return (Rs/100 birds)	B:C Ratio
					Farmer practice: 1).Weekly body wt.(g) 0(45.5),1(101), 2(210), 3(460), 4(790), 5(1080), 6(1632), 7(2220), 8(2585) 2).Weekly mortality% 0(2), 1(Nil), 2(Nil), 3(Nil), 4(7), 5(3), 6(Nil), 7(Nil), 8(Nil) 3).Weekly feed intake g/week/bird 1(70), 2(260), 3(456), 4(688) 5(875), 6(995), 7(1020), 8(1242)	2.585kg at 8week	Rs.9838.2	1.5:1

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 bird	Net return (Rs/5 geese)	B:C Ratio
Geese	Farmers are not aware of feeding vitamins and minerals	Performance of geese by feeding locally available feed supplemented with vitamin and mineral	Performance of geese by feeding locally available feed supplemented with vitamin and mineral	5	i. Body weight at (g) a. 4 wks-800 b. 8 wks – 1800 c. 12 wks-2700 d. 16wks-3500 e. 20wks-4000 f. 24wks-4800 ii. Egg weight -120±0.012g iii. Dressing % - 72	b.Wt at 20 wks (4.8kg)	4000	2.8:1

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	Very less no. of short duration variety	Spring or pre kharif rice cultivation under SRI	"Evaluation of rice variety RCM-13"	10	Plant height-102cm No.of grains/panicle-160 Duration-110days Yield-46q/ha Farmer practice: Var.-No.1 Plant height-115 No.of grains/panicle-130 Duration-120days Yield-38q/ha	46q/ha	44000	1.9
Rice	Frequent natural calamity like drought & flood.	Late sown rice	Evaluation of rice under late sown condition as contingent crop.	4	Plant height-95cm No.of grains/panicle-140 Duration-121days Farmer practice: Var-IR-64 Plant height-Nil No.of grains/panicle-Nil Duration-Nil	35q/ha	28,000	1.45