

KVK, Thoubal

Department of Agriculture Govt. of Manipur

Front Line Demonstrations 2014-15

FLDs (Discipline-Wise Summary)

Discipline	Crop / Enterprise	Number of technology/ Social Concept Demonstrated	No. of demonstrations		% of achievement	Reasons for shortfall, if any
			Target	Achievement		
Animal Sc.	Goat (Kid)	Effect of vitamin & mineral supplement on preweaned goats of Manipur	10	10	100	
	Poultry (giriraja, Vanaraja)	Comparative study on growth and production of Giriraja, Vanaraja under semi intensive system of farming	10	10	100	
	Duck-Fish	Integrated Duck cum fish farming	10	10	100	

FLDs (Discipline-Wise Achievements)

Discipline: Agronomy

Crop / Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/Ha)	Increase in yield %	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Maize	Season-Spring,2014 Variety-Deklab Hishell Seed rate-20kg/ha Spacing-60x25cm Fertilizer dose-60:40:40 kg	21.40 (grain)	20.10 (grain)	20.92 (grain)	20.40 (grain)	2.55	23,000	31,380 (grain)	7380 (grain)	1.36 (grain)
		87.00 (green cob)	75 (green cob)	8557 (green cob)	84825 (green cob)	0.88		1,71,150 (green cob)	1,48,150 (green cob)	7.44 (grain cob)
Rice	Season-kharif,2014 Variety-Tampha phou Seed rate-12kg/ha Type of nursery-Mat Age of seedling-15days Spacing-20x20cm Seedling/hill-2 Fertilizer rate-60:40:30kg NPK/ha Type of irrigation- Shallow stagnation	76.80	69.64	73.92	57.60	28.33	Demo-55,000 Local-60,000	Demo-1,47,840@ Rs.20/kg (Seed purpose) Local check-92,160 @ Rs.16/kg	Demo-92,840 (seed purpose) Local-32,160	Demo-2.68 (local) 1.54

FLDs (Discipline-Wise Achievements)

Discipline: Horticulture

Crop / Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/Ha)	Increase in yield %	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Cauliflower	INM-Root deep method PSB + % P + RDNK (120:60:100 kg/ha) + FYM 12 tons/ha localized	195	181	180	173	4.0	87300	360000	272700	4.1:1
Tomato Crop	Performance of food quality and yield by using Organic Manure (Vermi Compost) @300 gm per plant before transplanting Spacing- 60x30 cm	270	269	260	262	-0.76	94966	390000	295834	4.1
<p>Remark:-The cost of cultivation is higher due to used of vermicompost as organic manure in demonstration but the yield is almost comparable with farmer practice which is used inorganic fertilizer.The main aim is to obtained sustainable in agriculture.</p>										

FLDs (Discipline-Wise Achievements)

Discipline: Horticulture

Crop/ Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/Ha)	Increase in yield %	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Water melon	Cultivation of water melon (NS295) Spacing 5x5 ft. Triangular method NPK-120:62:62 kg/ha. Half of N & full dose of PK were applied as basal dose.FYM10t/ha(lo calised)	285	276	280	275	1.8%	87140	448000	360860	5.1:1

FLDs (Discipline-Wise Achievements)

Discipline: Plant Protection

Crop/ Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/Ha)	Increase in yield %	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Rice	Hopper mgmt. with Ethiprol 40% +Imidachloprid 40%	62.4	46.0	53.00	49.0	8.66	55,780	79,500	23,720	1.43
Bitter gourd	Fruit fly mgmt. with chloran- traniliprole	181	151	168	155	8.39	92,000	4,20,000	3,28,000	4.56
Onion	Maize as trap crop for onion thrips	Continuing								

Copy and Paste table to add for more disciplines if needed

FLDs (Discipline-Wise Achievements)

Discipline:Fishery

Crop / Enterprise	Technology demonstrated	Demonstration Yield (fingerlings/ha)			Yield of local Check (fingerlings/ha)	Increase in yield (%)	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Carp	Seed production of carps	10,40000	7,60000	9,00000	7,20000	9%	70,000	45,000	3,80,000	6.42

FLDs (Discipline-Wise Achievements)

Discipline: Home Science

Crop / Enterprise	Technology demonstrated	Demonstration Detail with result	Local Check Result without mordant	Remark
Dyeing	Organic dye introduction with alkaline and acidic mordant.	Plant used-Turmeric stem ½kg + 2lit of water to extract the dye. Untreated dye-Yellow Alkaline mordant (Alpenia nigera) Pullei+dye-Greenish olive Acidic mordant(Citrus hystrix) heiribob + dye- Golden brown Colour fastness to sunlight-no change Colour fastness to washing-negligible change Texture-Medium Treated with common salt-rough	Untreated- yellow Colour fastness to sunlight-colour fade, Colour fastness to washing- noticable change	The turmeric dye can be applied for dyeing cotton fabric by using different mordant to obtain different shades of colour & also improve colour fastness

FLDs (Discipline-Wise Achievements)

Discipline: Home Science

Crop / Enterprise	Technology demonstrated	Demonstration Detail with result	Local Check Result without mordant	Remark
Utilisation of waste material	Fibre extraction from pseudostem of banana plant	Removal of greenish sheaths till layers are obtained with the help of a scraper until all the water is extracted. Fibre obtained from a long sheath is 250 gm. Fibres are made into yarn with the help of a trowel.		Fibre can be used as yarn for weaving fabrics. The technology for producing fibre from banana plant is of low investment cost and high profitability.

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)				Yield of local Check body wt.	Increase in yield %	Avg. Cost of Cultivn. (Rs/goat)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		Parameters	H	L	A						
Goat (kid)	Effect of vitamin & mineral supplement on preweaned goats of Manipur	Live wt. at 0 day(kg)	1.2	0.95	1.05	1.1	- 4.5	Rs.806	Rs.2500	Rs.Rs.1694	3.1:1
		Live wt.at 3 mths (kg)	6.2	3.02	5.28	3.5	33.71				

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)				Yield of local Check body wt.	Increase in yield %	Avg. Cost of farming (Rs/ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		Parameters	H	L	A						
Duck-Fish	Integrated Duck Fish farming i.No. of ducks-300/ha/pond ii. Breed – Khaki Campbell iii. No. of fingerling -10,000.00	i.Live weight of duck at 8 weeks (kg) ii. Weight of fish at 8 weeks (kg)	2.5 0.18	1.8 0.12	2.15 0.15	Practice of monoculture	Practice of monoculture	74093	318600	244507	3.3:1

FLDs (Discipline-Wise Achievements)

Discipline: PBG

Crop / Enterprise	Technology demonstrated	Demonstration Yield (Qt/Ha)			Yield of local Check (Qt/Ha)	Increase in yield %	Avg. Cost of Cultivn. (Rs/Ha)	Avg. Gross Return (Rs/Ha)	Avg. Net Return (Rs/Ha)	B:C Ratio
		H	L	A						
Rice	Seed production through SRI (var.Tampha)	95	65	77	50	54	55000	154000	99000	2.8