

KVK, Thoubal

Department of Agriculture Govt. of Manipur

Front Line Demonstrations 2013-14

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 Science	Rabbit	1	7	7	100	NA
	Poultry(Broiler)	1	7	7	100	NA
	Piggery	2	20	20	100	NA
	Poultry(Duckery)	1	10	10	100	NA
Fishery	Fish health management using probiotics	1	6	6	100	NA
	Seed production of climbing perch	1	5	5	100	NA
	Fish cum <i>Euryale ferox</i> farming	1	7	7	100	NA
Home Sc.	Women Friendly tool	1	10	10	100	
	Nutritional Gardening	1	10	10	100	
Total			182	156		

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						
Mustard	Mustard cultivation	9.20	7.0	7.5	7.25	3.44	14500	18750	4250	1.29
Lentil	Lentil cultivation	6.2	4.05	4.75	4.3	8.1	15700	28500	12800	1.81
Maize	Maize cultivation	25.5	23.5	24.43	18.5	31.89	21250	36645	15395	1.72
Rice	Weed mgt. using Pyrazosulfuron ethyl 10%(Sathi)	64.8	59.6	61.2	60.0	2	44500	91800	47300	2.06
Rice	SRI	105.6	89.6	98.9	60.0	64.82	44000	148350	94350	3.37

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						
Chilli	Chilli fruit borer mgmt. with Indoxacarb @ 55gm ai/ha	27.4	20.9	26.6	22.7	17.18	44,000	1,59,600	1,15,600	3.63:1
Brinjal	Brinjal fruit borer mgmt. with Cypermethrin 10% @ 100gm ai/ha	254	231	247	239	3.35	67,870	3,70,500	3,02,630	5.45:1
Onion	Maize as trap crop for onion thrips	211	190	203	194	46	51,700	3,04,500	2,52,800	5.89

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						
Cabbage	INM of cabbage	255	210	249	245	1.6	85,600	2,49,000	1,63,400	3.0:1
Onion	IWM of onion	275	220	210	180	16	76,466	3,15,000	2,38,544	4.1:1
French bean	Scientific Cultivation of French bean (Arka Sarath)	78	68	72.8	61.6	18	54,915	1,82,000	1,27,085	3.3

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						
Garden pea & cabbage intercropped (Makhyat mubi & green hero)	Innovative farmer's method of garden pea & cabbage intercropping	10	108.9	109	92	18.48	80,000	328824	211000	4:1
		Intercrop								
		221	219	220.92	147.28	50				

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated		Demonstration Yield			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/3nos.)	Avg. Gross Return (Rs/3nos)	Avg. Net Return (Rs/3nos.)	B:C Ratio
			H	L	A						
Rabbit	Production and Reproduction performance of broiler rabbit by feeding green and concentrate	i)Litter size at birth	7	4	5.5	5.7	3.6	(1:2-1male, 2 female) Rs.850.00	1360	510	1.6:1
		ii)Litter size at weaning	5	2	3.5	2.2	37.14				
		iii)Survivability %	44	83	63.5	38.59	38.59				
		iv)Dressing%	48	43	45.5	42.8	42.8				

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated		Demonstration Yield			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/2sow)	Avg. Gross Return (Rs/2sow)	Avg. Net Return (Rs/2sow)	B:C Ratio
			H	L	A						
Pig	Synchronization and fixed time insemination	Average onset of estrus after treatment	4	10	5.5	Farmers didn't practice synchronization of estrus using closterol	Labour for caring the piglet is reduce as farrowing takes place at the same time with a max.diff.of 7days & farmers get the amt. for sale of piglet at the same time.	24,980	90,000	65,020	3.6:1
		Litter size at birth	14	9	12.5						
		Litter size at weaning	12	8	10.4						
		% of sow responsive to treatment- 24 nos			22 (91.6 %)						
		Gestation period (days)	118	112	115						

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated		Demonstration Yield			Yield of local Check	Increase in yield	Avg. Cost of Farming. (Rs/sow)	Avg. Gross Return (Rs/sow)	Avg. Net Return (Rs/sow)	B:C Ratio
			H	L	A						
Pig	Provision of guard rails in pigsty	Litter size at birth	14	8	11.0	10.4	5%	14,490	38000	23510	2.6:1
		Litter size at weaning	13	7	9.6	5.2	45%				
		Litter wt.at birth(g)	520	400	467.0	440	5%				
		Litter wt at weaning(g)	5400	4600	4950	4100	17%				

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated		Demonstration Yield			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/50bird)	Avg. Gross Return (Rs/50bird)	Avg. Net Return (Rs/50bird)	B:C Ratio
			H	L	A						
Broiler	Comparative study on production performance of broiler using paddy husk and paddy straw	Net income using paddy straw-	5500	4825	5000		11	i)Paddy straw-11,665	i)Paddy straw-16865	paddy straw-5200.50	Paddy husk-1.35:1
		Net income using paddy husk	4650	4100	4450	4450		ii)Paddy husk-12,848	ii)Paddy husk-17398	paddy husk-4550.50	Paddy straw-1.44:1

FLDs (Discipline-Wise Achievements)

Discipline: Animal Science

Crop / Enterprise	Technology demonstrated		Demonstration Yield			Yield of local Check	Increase in yield	Avg. Cost of Cultivn. (Rs/10bird)	Avg. Gross Return (Rs/10bird)	Avg. Net Return (Rs/10bird)	B:C Ratio
			H	L	A						
Duck/ Muskovy duck	Production performance of Muskovy duck using locally available feeds	Body wt at 20wks(g)	2500	1800	2150	1750	18	3930	8150	4220	2.07:1
		Egg wt(g)	62	58	60	58	3				
		Dressing%	65.2	63.2	64.25	61.25	4.71				
		Hatchability % through brooding	96	89	92.5	91.2	1				

FLDs (Discipline-Wise Achievements)

Discipline: Fishery

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						
Carp	Fish health management using probiotics	2.8	2.0	2.5	1.8	25	1,55,000	3,45,000	1,80,000	2.22
Climbing perch	Seed production of climbing perch	2100 fingerlings/ 0.01ha	1160 fingerlings/ 0.01ha	1300 fingerlings/ 0.01ha	No local check	-	550/ 0.01ha	1300/ha	750/ 0.01ha	2.36
Fish & <u>Euryale ferox</u>	Fish cum <u>Euryale ferox</u> farming	Fish- 675kg <u>Euryale ferox</u> (Makhana)- 35130 fruits	Fish- 645kg <u>Euryale ferox</u> (Makhana)- 34870 fruits	Fish- 660kg <u>Euryale ferox</u> (Makhana)- 35000 fruits	Fish- 620kg <u>Euryale ferox</u> (Makhana) - 34100 fruits	Fish- 6% <u>Euryale ferox</u> (Makhana) - 2%	67475	237000	169525	3.5

FLDs (Discipline-Wise Achievements)

Discipline: Home Science

Crop / Enterprise	Technology demonstrated	Parameter	Result of demonstration	Remark
Women friendly tools	Manual double screen cleaner	Drudgery reduction, cleaning efficiency, capacity kg/hr	Cleaning efficiency-90-98%, capacity kg/hr-150-225	It reduce drudgery (measure by using pulse oxymeter.
Horticultural crops	Nutritional gardening	Nutritional values of different crops	**given as separate table	Based on calculation of nutrients 50% of RDA can be supplimented by doing nutritional gardening(4%)