


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		
Agronomy	i)IWM in maize	1	-	5	5	100	NA
	ii) Intercropping in Maize	1	-	5	-	Nil	Could not be grown due to heavy rain during the cropping season
Horticulture	Chilli	1		5	5	100	NA
	Garden pea	1		5	5	100	NA
Plant Protection	Sugarcane	1		5	5	100	NA
	Rice	1		5	5	100	NA
PBG	Rice	1		5	5	100	NA
	Mustard	1		5	Nil	Fail	Fail due to heavy rain after sowing

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		Assessed	Refined	Target	Achievement		
Animal science	Dairy cattle	1		5	5	100	NA
	Broiler	1		5	5	100	NA
Home Science	Fiber extraction of Okra	1		5	5	100	NA
	Storage technique of fish	1		5	5	100	NA
Total		12		60	50		

Agronomy: Integrated weed management of maize

Crop / Enterprise	Maize var. HQPM-1					
Problem diagnosed	Heavy weed infestation					
Severity of problem(%)	70%					
Technology/ Social Concept	Integrated weed management of maize using Pendimethalin @ 0.5 kg ai/ha followed by H/W at 25-30 DAS					
Source	Directorate of Maize Research ,IARI, New Delhi,2012					
No. of trials	5					
	Parameter of assessment	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendati on for FLD	
New Technology	Weed count-18/sqm before H/W after spraying weedicide Plant height-201cm No.of grains /cob-400 Weed free at 25DAS	1.5 tonnes/ha	10,750	1.30	Recommended	
Farmer Practice	Weed count-80sq pl.ht-175cm grains/cob-360 weed free at 25 DAS dueto hand	6.8mt/ha	1200	1.2		

Horticulture: Performance Evaluation of Pusa Sadabahar

Crop / Enterprise	Chilli var Pusa Sadabahar (Longer fruiting period & high pungency)				
Problem diagnosed	Shorter fruiting period in existing variety				
Severity of problem(%)	57	Source		IARI,2013	
Technology/ Social Concept	i) Spacing- 60x 45cm ii)seedling age-25 days iii)Sowing- July iv)Transplanting-August Fertilizer dose- 120:50:50 NPK, kg/ha P &K full dose, half N as basal dose and remaining N before flowering v) Single planting vi) Duration: 80-90days				
No. of trials	5				
	Parameter of assessment	Prdn. per unit/ ha	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendation of FLD
New Technology	i)Plant height-2ft ii)Fruit length-5cm iii)Yield-54qt	54 qt	1,59,380	1.9	Recommended
Farmer Practice (Local cultivar)	i)Plant height-2½ft ii)Fruit length-4.5cm iii)Yield-50qt	50qt	1,43,380	1.75	




Horticulture: Performance evaluation of Arka Priya


Crop / Enterprise	Garden pea var. Arka Priya				
Problem diagnosed	Existing local varieties are of longer duration & need staking				
Severity of problem(%)	53				
Technology/ Social Concept	i) Spacing-60x45cm ii) Sowing-Oct iii) Fertilizer dose-30:60:60 (NPK),kg/ha as basal dose iv) Duration -				
Source	IIHR,2016	No. of trials			5
	Parameter of assessment	Prodn. per unit/ha	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendation of FLD
New Technology	i) Plant height-75-80 cm ii) no. of primary branch-5-6 iii) pod length-7.5 cm iv) Duration-70 days	55q	1,59,724	2.8	Recommended
Farmer Practice	i) Plant height-75-85cm ii) Fruit size-4.5 iii) No of primary branch/pl-4-5 iv) Pod length-6.5 cm v) Duration-150 days	50q	1,39,500	2.6	



Plant Protection : Shoot borer & smut management with chlorpyrifos & propiconazole

Crop / Enterprise	Sugarcane(irrespective of varieties)					
Problem diagnosed	Shoot borer & smut					
Severity of problem (%)	Fruit borer-50-70% ,Smut 30-40%					
Technology/ Social Concept	Shoot borer & smut management with chlorpyrifos 20% @ 2.5ml /lit + Propiconazole 25% @ 1ml/litre water					
Source					No. of trials	5
	Parameter of assessment (damage %)	Prodn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendation of FLD	
New Technology	Before treatment- Shoot borer-16% smut cane- 18% After treatment Stem borer-4% Smut cane-3%	53.3 tonnes /ha	1,40,00 0	2.06:1	Recommended	
Farmer Practice indiscriminate used of pesticide	Before treatment Shoot borer-20% Smut- 17% After treatment Shoot borer-12% Smut before- 11%	47 tonnes /ha	1,20,00 0	1.92:1		

Plant Protection : OFT on Pest management of rice with lamda + Imida chloprid

Crop / Enterprise	Rice					
Problem diagnosed	Pest infestation of stem borer BPH and Gundhi bug					
Severity of problem(%)	70%					
Technology demonstrated	Management of stem borer, BPH & Gundhi bug with Imidachloprid 6% + Lamda cyhalothrin 4.5 SL which sprayed on 30 th and 60 th DAT					
Source				No. of trials		5
	Parameter of assessment	Prdn. per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Recommen dation for FLD	
New Technology	% Dead heart 1. Before treatment-18% 2. 10 days after treatment-7% 3. 20days after treatment-3% Hopper count 1. Before treatment-47/pl 2. 10 days after treatment-11/pl 3. 20days after treatment-10/pl Gundhi bug- Nil	6.3	29,100	1.64:1		
Farmer Practice	Flubendamide and dichlorvos	5.8	24,000	1.5:1		

PBG: OFT on Zero tillage Cultivation of Mustard Variety DRMR-150-35

Crop / Enterprise	Mustard Variety -DRMR-150-35		
Problem diagnosed	Low yield of Present varieties		
Technology/ Social Concept	Variety -DRMR-150-35		
Source	Directorate of Rapeseed & Mustard Research,2015	No. of trials	5



	Parameter of assessment	Prdn . per unit	Net return (Rs/Ha)	B:C Ratio (GR/GC)	Remark for recommendation of FLD
New Technology	1.Plant height 2.No. branches 3. pod/plant 4 .seed/pod 5 .yield 6 B:C Check: PM-28				To be Repeated as OFT
Farmer Practice					



PBG : Hybrid Rice Cultivation

Crop / Enterprise	Hybrid Rice ,Variety- PAC-8744				
Problem diagnosed	Low yield of existing varieties				
Severity of problem(%)	37%				
Technology/ Social Concept	i.Seed rate-16 kg/ha ii.Spacing: 20 x 15 cm iii.Fertilizer;N:P:K ::80:40:30 iv. No. of plant/hill : single				
No. of trials	5	Source		DRR,Hyderabad	
	Parameter of assessment	Prdn . per unit	Net return (Rs/H a)	B:C Ratio (GR/GC)	Remark
New Technology	1 Plant ht-140cm 2.No.of tillers/plant-15 3.Grains/panicle-170 4 Duration-135	72m t/ha	16000	1.3	Recommended for FLD
Farmer Practice	Arize 6444G 1 Plant ht-135cm 2.No.of tillers/plant-13 3.Grains/panicle-165 4 Duration-140	6.8 mt/h a	12000	1.2	



Animal Science : Effect of feeding Azolla on milk yield of Dairy cattle.

Enterprise	Non Descript Local Dairy cattle			
Problem diagnosed	Scarcity of fodder during winter season	Severity of problem(%)		80
Technology/ Social Concept	Effect of feeding Azolla on milk yield of Dairy cattle. Amount to be fed is 2kg/animal/day . By replacing 25% of concentrate 30 th day after feeding			
Source				
No. of trials	5			
	Parameter of assessment	Prdn. per unit/per day	Net return (Rs/Unit /day)	B:C Ratio (GR/G C)
New Technology	i. Milk yield-2700ml ii.Fat% -5.6% iii.SNF – 8.95 iv.CLR – 29	2700ml	Rs.68	1:2.7
Farmer Practice	i)Milk yield-2000ml ii)Fat% -4.8% iii)SNF – 8.5 iv)CLR – 27	200ml	Rs.26	1.8



Animal Sc. : Comparison of early restricted time feeding (4,6 & 8hr/day restriction of feed) on performance of broiler chicken

Crop / Enterprise	Broiler Chicken		
Problem diagnosed	Cost price of concentrate feed	Severity of problem(%)	60
Technology/ Social Concept	Comparison of early restricted time feeding (4,6 & 8hr/day restriction of feed) on performance of broiler chicken Ad libitum feeding done till 10 th day afeter hatch and restriction done from 11 th day till 18 th day and from 18 th till 42 days normal feeding continues		
Source	C.V.Sc.AAU,2015		
No. of trials	5		



**Parameter of assessment for Comparison of early restricted time feeding
(4,6 & 8hr/day restriction of feed) broiler chicken**

		Body Wt.(gm)		
		4 hr	6hr	8hr
New Technology	10th day	148	170	128
	18th day	388	420	354
	42nd day	1980	2100	1800
	Prodn.per unit/bird	1980	2100	1800
	Net return(Rs./unit)	40	45	28.5
	BC ratio	1.2	1.41	1.17
Farmer Practice	42nd day	2000kg (no feed restriction)		
	Production/unit/bird	2 kg		
	Net return	1130		
	BC ratio	1.23		
Remark		Recommended for FLD with 6hr restriction		



Home Sc. : OFT on Production of fiber from ladies finger

Crop / Enterprise	Ladies finger stem			
Problem diagnosed	Dearth of fiber extracting plant			
Technology/ Social Concept	Fiber extraction fro ladies finger by water retting			
Source	Assam Agriculture University,2014			
No. of trials	5			
	Parameter of assessment	Results on selected Parameters	% increase/ Change in parameters (Remark)	Remark for recommendation of FLD
New Technology	Optimization of time for water retting in different time intervals 9 days 12days 15days	1) Water retting period 9 day- fiber extraction not possible there is breakage 12 day- partially extractable 15 day- Plants were soften completely & fibers came out easily. 2) Yield of fiber	Use of waste ladies finger stem for production of fiber & value added products minimize disposal problem & source of dual economy for grower.	Recommended for FLD



Home Sc. : OFT on Production of fish silage from fishery waste

Crop / Enterprise	Scientific Storage technique of fish waste		
Problem diagnosed	Disposal of fish waste		
Technology/ Social Concept	Preparation of fish silage-i) grinding of fish waste ii. Addition of 30 ml formic acid/kg of waste iii. Put in plastic/stainless steel container under anaerobic condition. iv. Stirred in 3 days.		
Source	CIFT,Cochin,2014		
No. of trials	5		
	Parameter of assessment	% increase/ Change in parameters (Remark)	Remark for recommendation of FLD
New Technology	1) Duration of liquification-6 days 2) Shelf life-6 mnths	Shelf –spoiled in 2 days & wasted Shelf l can be mnths	Recommended for FLD
Farmer Practice	Dispose as waste products.		

