ON-FARM TESTING 2015-16

Crop &	& Variety	y	Groundnut, Devi								
Season	& Year		Rabi-2015-16								
Proble	m]	Low yield du	e to imbalanced	l nutrition in	Groundnut					
Farme	rs Pract	ices	No use of S & B with imbalanced dose of fertilizer.								
Detail	of Techn	ology	T2- Application of Sulphur@30kg/ha.								
Demon	strated	T3	T3- Applicati	on of Sulphur@	30kg/ha &	two spraying	g of Boron @0.20	% at			
		f	flowering & 2	20 days after flo	wering stag	e along with	recommended d	lose of			
		1	fertilizer @20	0-40-40 kg NPK	per ha (soil	test based)					
Recom	mendati	on	OUAT-2010								
Charac	cteristic	of	Application of S & B increases oil content, quality of pod & yield of groundnut								
techno	logy/var	iety									
Area (l	ha)		0.13ha No. of demo- 13 Farming situation Irrigated medium land								
	THE STATE OF THE S	The state of the s									
Results	Yield	%	No.of pods	% change in	Cost of	Avg. Gros	ss Net Income	BC			
	(q/ha)	change in	per plant	Parameter	cultivation	return(Rs/	ha) (Rs./ha)	Ratio			
		Yield			(Rs/ha)						
T1	17.3		17		34800	69200	34400	1.98			
T2	20.1	16.18	21	23.52	35250	80400	45150	2.28			
Т3	21.6	24.85	23	35.2	35625	86400	50775	2.42			

Assessment of Sulphur & Boron application in Groundnut.

Title

Title			Assessment of onion varieties OFT2							
Crop & variety			Onion, . Bhima Super							
Season &	Year		Kharif, 2015							
Problem			High market price of onion in Kharif due to scarcity of kharif onion							
Thematic	area		Varietal evaluation							
Farmers Practices			Usual onion cultivation in Rabi season							
			T1- Cultivation of multiplier onion							
Detail of Technology			T2- Cultivation of N-53							
Demonstr	ated			uper with recommer		ractices i.e, 12	0:60:60			
			kg NPK/ha, need based plant protection measures							
Recomme	endation		National Research Center of Onion and Garlic , Pune, 2012							
Characteristic of			Bulb maturity in 115-120 days after transplanting in late kharif. It produces							
technology/ variety			single centered bulbs average Yield 260-280 qtl./ha, suitable for kharif season							
Area (ha)			0.13 No. of Demo- 13 Farming situation Medium land							
Results Yield % char		% chan	ge bulb weight	Cost of	Avg. Gross	Net Income	BC			
	(q/ha)	in Yield	l	cultivation(Rs/ha)	return(Rs/ha)	(Rs./ha)	Ratio			
T1	162.4	32.63	4.26g	39200	97440	58240	2.48			
T2	215.4		72.2 g	49200	1,15,540	101580	3.06			
T3	236.2	45.44	78.6 g	49800	1,50,280	115540	3.3			

Title		Assessmer cabbage	Assessment of Integrated pest management practices against tobacco caterpillar in cabbage								
Crop & va	riety	Cabbage	Cabbage								
Season & Y	Year	Rabi,2015	Rabi,2015-16								
Problem	Heavy infestation leads to crop disaster, reduce quality and production of crops							crops			
Thematic a	area	IPM									
Farmers P	ractices	T1- Spray	ing of Triazoph	os 2ml /lit							
Detail of T	echnology	T2- Appli	T2- Application of neem cake @250kg/ha ,Spraying of Thiodicarb 2gm/lit at								
Demonstra	ited	10days int	10days interval thrice at 20, 30, 40 DAT								
		T3-Applic	T3-Application of neem cake @250kg/ha ,installation of ph traps 50/ha, spraying								
	of Spinosad 2.5SC										
Recommendation Department of Entomology, OUAT, 2010											
Characteristic of		IPM effec	IPM effectively reduces pest infestation and increase yield								
technology	/ variety										
Area (ha)		0.13	No. of Dem	no- 13 Farming situation Irrigated Medium			m land				
Results	Yield	% Change in	% infestation	Cost of culti		Gross cost of	Net Income	BC Ratio			
	(q/ha)	yield	22	(Rs./ha)	cultivation (Rs/ha		2.0			
T1	265		22	55500		159000	103500	2.9			

2.98

3.2

T2

T3

7.5

Crop & Varie	Crop & Variety Paddy, swarna									
Season & Year	Season & Year Kharif, 2015									
Problem		Broadcasting	of padd	dy leads to uneven pla	ant population	and difficulty in				
	j	intercultural operation								
Farmers Prac	tices	Broadcasting	j							
Detail of Tech	nology	Γ2:Bullock d	rawn fiv	ve row seed cum ferti	ilizer drill					
Demonstrated	I	T3: Tractor drawn seed cum fertilizer drill								
Recommenda	tion	Commercial, tested at C.A.E.T., O.U.A.T.								
Characteristic of		Line sowing of paddy seed along with fertilizer leads to good plant growth &								
technology/ va	ariety	more yield and easy in intercultural operation, row to row spacing 25cm.								
Area (ha)		1ha No. of Demo- 13		3 Farming si	tuation	Irrigated medium	rrigated medium land			
						PER PARTICIA THE PARTICIA STATE OF THE PART				
C	Field apacity (ha/h)	Seed rate (Kg/ha)	Yield (q/ha)	Cost of cultivation (Rs/ha)	Avg. Gross return(Rs/ha)	Net return (Rs./ha)	B:C ratio			

27250

28250

29500

45375

49000

49250

18115

20750

19750

1.66

1.73

1.67

Title

sowing paddy

75

37.5

37.5

36.3

39.2

39.4

0.57

0.163

0.4

T1

T2

T3

	farm wome	farm women							
Crop & Variety	Paddy,	Paddy,							
Season & Year	Kharif, 20	Kharif, 2015							
Problem	Drudgery	Drudgery due to manual transplanting							
Farmers Practices (FP)	T1-Manua	T1-Manual Transplanting							
	T2-Use of	T2-Use of two row drum seeder							
Detail of Technology	T3-Use of	four row drum seeder	r						
Demonstrated (RP)									
Recommendation	ANGARU	ANGARU, Hyderabad, 2008							
Characteristic of technology	pre-germiı	pre-germinated paddy seeds(24 hour soaking+draining & then							
	keeping it	keeping it for 24 hour germination) sown by drum seeder							
Area (ha)	No	No. of Demo- 5 Farming situation- Rainfed Medium land							
		CONFARINTAL S CRESPONDED BLOCK CRESPONDED BLOC			- 0174/01				
Treatments Yield Labour required()	Nos/ha) Output m2/hr	Est. Energy Expenditure kj/min.	WHR beat/min	% reduction in drudgery	% increase in efficiency				
T1 42.5 36	142	13.22	138	-	_				
T2 43.6 2	840	11.5	127	13.01	491				

Title

Assessment of Drudgery reduction by use of four row drum seeder by