

**Technologies assessed  
by KVKs of OUAT  
during 2008-09 to 2012-13**

## Performance of varieties

KVK	Crop	Season	Year	Situation	Variety	Farmers' variety	Yield (q/ha)			Net profit (Rs/ha)		
							Farmers field	OFT	% increase	Farmers	OFT	% increase
Boudh	Onion	Rabi	08-09	Irrigated	Bhima Super	Agri found light red	100	150	50.00	60000	120000	100.00
Boudh	Onion	Rabi	09-10	Irrigated	Agri found light red	Nasik red	208.6	247.3	18.55	56500	70350	24.51
Boudh	Onion	Kharif	12-13	Rainfed	Raising onion seedling (N-53)	Raising crop from onion bulb	192.6	201.6	4.67	101715	118215	16.22
Boudh	Tomato	Rabi	11-12	Irrigated	Utkal Pragyan	Selection-22	214.5	253.7	18.28	52750	72350	37.16

## Integrated nutrient management (INM)

KVK	Crop	Season	Year	Situation	Technology	Yield (q/ha)			Net profit (Rs/ha)		
						Farmers	OFT	% increase	Farmers	OFT	% increase
Boudh	Brinjal	Kharif	2012-13	Irrigated	Soil application of Azotobacter @ 5 kg/ha & PSB @ 5kg/ha along with RDF NPK @ 120:60:60 kg/ha	211.4	252.8	19.58	61965	89809	44.94
Boudh	Cauli flower	Rabi	2012-13	Irrigated	FYM- 5 ton/ha, NPK- 125:50:75 kg/ha, foliar spray of boron @ 2gm/lt	180.8	206.8	14.38	95640	114640	19.87
Boudh	Green gram	Rabi	2012-13	Irrigated	Cultivation of Greengram Var. TARM-1 with NPK @ 20:40:20 kg/ha, & spraying of Imidacloprid @ 125 ml/ ha	5.3	7.4	39.62	13600	14100	3.68

Boudh	Ground nut	Kharif	2012-13	Rainfed	Soil application of Gypsum @ 250 kg/ha along with RDF (NPK @ 20:40:40 kg/ha )	15.8	18.6	17.72	17460	23220	32.99
Boudh	Rice	Kharif	2011-12	Irrigated	Application of 75% of RD+ Green manuring with Dhanicha @ 25kg/ha, application of Azospirillum, PSB & 75% N,P <sub>2</sub> O <sub>5</sub> & full K <sub>2</sub> O	39.3	49	24.68	16465	25100	52.44
Boudh	Sun flower	Rabi	2011-12	Irrigated	Soil application of Gypsum @ 250 kg/ha along with RDF (NPK @ 20:40:40 kg/ha )	10.1	12.5	23.76	6735	11775	74.83
Boudh	Sun flower	Rabi	2008-09	Irrigated	Application of borax @ 10 kg/ha with RDF	8	12	50.00	14000	24000	71.43

### Integrated disease management (IDM)

KVK	Crop	Season	Year	Disease	Technology	Yield (q/ha)			Net profit (Rs/ha)		
						%increase	Farmers	%increase	Farmers	%increase	Farmers
Boudh	Arhar	Kharif	2012-13	wilt	Seed treatment with Vitavax power @ 2 gm / kg, Soil application of <i>T. viridae</i> @ 5 kg/ ha incubated with FYM	7.06	10.04	42.21	8070	19840	145.85
Boudh	Cucumber	Rabi	2012-13	Downy mildew	Soil application of <i>T. viride</i> @ 5 kg / ha with FYM & spraying mancozeb @ 3 gm /lit	75.2	94.6	25.80	39920	60740	52.15
Boudh	Groundnut	Kharif	2012-13	Cercospora leaf spot	Seed treatment with vitavax power @ 2 gm/kg & foliar application of Carbendazim 12 % + Mancozeb 63 % @ 2 gm /	16.3	19.4	19.02	18621	26340	41.45

					lit.						
Boudh	Rice	Kharif	2009-10	Blast	Application of Tricyclozole @ 300 g/ha	31.8	40.5	27.36	22700	31200	37.44
Boudh	Rice	Summer	2011-12	BLB	Foliar spraying with Streptocycline @ 50 gm + Copper oxychloride 1 kg/ha	34.1	40.8	19.65	11305	16095	42.37
Boudh	Sunflower	Rabi	2012-13	wilt	seed treatment with vitavax power @ 2 gm/kg of seed, drenching of plant base with ridomil @ 2gm/lt	8.6	10.8	25.58	3895	7965	104.49

### Integrated pest management (insect)

KVK	Crop	Season	Year	Insect	Technology	Yield (q/ha)			Net profit (Rs/ha)		
						Farmers	OFT	%increase	Farmers	OFT	%increase
Boudh	Arhar	Kharif	2011-12	Pod borer	Use of Pheromone trap @ 20 nos/ha, Application of Bt @ 1 kg/ha & Cypermethrin 10 EC @ 1 lit/ha alternatively	7.2	10.8	50.00	11800	24162	104.76
Boudh	Brinjal	Rabi	2009-10	fruit & shoot borer	Application of neem cake @ 250 kg./ha and spray of Trizophus and neem oil	168	208	23.81	33600	44700	33.04
Boudh	Cauliflower	Rabi	2011-12	Tobacco caterpillar	Use of Pheromone traps @ 20 nos. /ha, Alternate application of Bt @ 1 kg/ha and Cypermethrin 10 EC @ 1 lit/ha	151.3	185.7	22.74	42080	60726	44.31

Boudh	Rice	Rabi	2009-10	Stem borer	Application of cartap hydrochloride @ 20 kg/ha with egg parasite T. Japonicum	30.6	42.2	37.91	12600	31800	152.38
Boudh	Rice	Kharif	2011-12	Leaf folder	Foliar application of Triazophos 40 EC @ 1 lit/ha	34.7	41.9	20.75	12435	18895	51.95

### **Integrated weed management**

KVK	Crop	Season	Year	Technology	Yield (q/ha)			Net profit (Rs/ha)		
					Farmers	OFT	%increase	Farmers	OFT	%increase
Boudh	Groundnut	Kharif	2011-12	Pre emergence application of Oxyfluorfen @ 200 ml /ha.	16.5	20.2	22.42	12515	20625	64.80
Boudh	Onion	Rabi	2011-12	Spraying Quizalofop ethyle @ 1 l/ha + Oxyfluorfen @ 200 ml/ ha at 20 days of transplanting	192.4	224.6	16.74	46300	64300	38.88
Boudh	Rice	Kharif	2012-13	Application of herbicide fenoxaprop-p-ethyl @ 750 ml/ha+ Almix @ 20gm/ha at 25 days after transplanting	39.5	46.7	18.23	13600	18840	38.53

## Farm mechanisation

KVK	Crop	Implement	Year	Unit	Technology	Performance			Net profit (Rs/ha)		
						Farmers	OFT	% increase	Farmers	OFT	% increase
Boudh	Brinjal	Rotary peg weeder	2012-13	ha/day	Use of rotary peg weeder	0.025	0.1	300.00			
Boudh	Groundnut	Thresher	2009-10	Kg/hr	Padal operator groundnut thresher	3.4	27.4	705.88			
Boudh	Sunflower	Threshing bench	2011-12	kg/hr	Use of Sunflower threshing bench for threshing sunflower	1.37	7.7	462.04			
Boudh	Vegetables	Hand ridger	2011-12	ha/day	Use of hand ridger for making ridge and furrow in vegetable	0.08	0.1	25.00	360	450	25.00

## Goatary

District	Broad area	Year	Unit	Technology	Parameter			Net profit		
					Farmers field	OFT	% increase	Farmers field	OFT	% increase
Boudh	Disease management	2011-12	Mortality (%)	Oral feeding with Fenbendazole + Traziquintal (200 mg) with livotas for Deworming of kids	19.5	4.5	-76.92			

## Pisciculture

District	Broad area	Year	Unit	Technology	Result			Net profit (Rs/ha)		
					Farmers	OFT	% increase	Farmers field	OFT	% increase
Boudh	Nutrient management	2012-13	q/ha	Assessment of GNOC + rice bran (1:1) in carp culture	19	24	26.32	71550	101500	41.86
Boudh	Production management	2012-13	q/ha	assessment of grow-out culture of yaerlings of IMC @ 5000 nos/ha	20	25	25.00	79500	109250	37.42

## Miscellaneous

KVK	Component	Year	Unit	Technology	Result			Net profit (Rs/ha)		
					Farmers	OFT	% increase	Farmers	OFT	% increase
Boudh	Tube rose	2011-12		Tube rose (subhasini) cultivation in back yard		28			14000	