

10. KRISHI VIGYAN KENDRA

Training Achievements

Ninety six short duration (1 to 3 days) on campus and off campus training courses were conducted in different disciplines for 1176 practicing farmers,

504 rural youths and 592 extension functionaries. 2282 participants benefited from the courses.

Similarly, 13 sponsored training courses were

organized for 1 to 3 days duration in different discipline like crop production, horticulture, plant protection, veterinary science, home science and extension deputed by state Agriculture Department Maharashtra, Bank of India, CIPM Nagpur, MAFSU Nagpur, MCED and ICDS Nagpur. In all 550 participants attended the course.

Short duration training courses

Discipline	No of courses	No. of participant			Total
		Practicing farmers	Rural youth	Extension functionaries	
Crop Production	15	199	56	21	276
Horticulture	16	240	36	57	333
Plant Protection	16	159	101	42	302
Veterinary Science	21	216	151	45	412
Home Science	15	165	89	337	602
Extension	13	196	71	90	357
Total	96	1176	504	592	2282

Sponsored training courses

Discipline	No. of courses	No. of participants	Sponsoring agency
Crop Production	2	37	StateAgrilDeptt., Maharashtra
Horticulture	3	63	State Agril Deptt., MS and MP
Plant Protection	2	46	State Agril. Deptt., AP, MP and CIPM, Nagpur
Veterinary Science	3	64	MCDC, Nagpur
Home Science	2	311	ICDS, Nagpur
Extension	1	29	State Agril. Deptt., Maharashtra
Total	13	550	

Collaborative Training Programmes

On Citrus Production and Protection technology

KVK conducted 14 training programmes on “Citrus Production & Protection Technology”, in

collaboration with NRCC, Nagpur in 14 Villages of 6 Tahsils of Nagpur District and 315 trainees (P.F. 227, R.Y. 13, EF -77) participated in the programme. Diagnostic surveys were conducted on 42.5 acre of land and 73 farmers were benefited.

On Technique of Soybean processing

KVK conducted three training programmes on “Technique of Soybean processing”, in collaboration with ICDS, Nagpur District in 3 tahsils of Nagpur District and 319 Anganwadi Workers, Supervisors and SHGs participated in the programme. In these training programmes, participants were imparted skills of preparation of soy-milk, soy-nut and soy-flour.

Fifteen technologies in agriculture and allied fields were demonstrated under FLD in KVK adopted villages namely Mandavghorad and Mangli during 2007-08. Several extension activities like field days, field visits of farmers to FLD demonstrations, group discussions, scientists-farmers meet, etc. were conducted for effective implementation of FLDs. The data on certain production parameters as well as feedback from farmers and visitors was recorded.

Front Line Demonstrations

Details of Assessment of technologies under Front Line Demonstrations are as follows

Sr. No.	Crop/Animal	Technologies Demonstrated	No. of farmers	Area covered (ha)	Yield (q/ha)		% Increase Over FP
					Demo.	FP	
1.	Cotton	NCH 145 Bt + INM	50	20	19.10	13.88	37.60
2.	Soybean	INM	25	10	17.60	14.10	24.82
3.	Pigeonpea	ICPL 87119 (Asha)	25	10	20.27	16.10	25.90
4.	Chickpea	Saki 9516	25	10	13.10	10.25	27.80
5.	Wheat (Timely sown)	AKW 3722 (Vimal)	9	2	32.10	24.30	32.99
6.	Wheat (Late sown)	AKW 1071 (purna)	5	1	25.40	20.29	25.12
7.	Brinjal	Management of shoot and Fruit borer	16	4	205	188	10.3
8.	Chickpea	Management of <i>Helicoverpa armigera</i>	15	6	12.8	11.3	13.3
9.	Okra	Varietal Akola bahar	15	6	65.75	57	15.35
10.	Onion	Varietal Akola Safed	19	6	83.52	70.00	19.31
11.	Nagpur mandarin	Rejuvenation of old Nagpur mandarin	13	5	-	-	-
12.	Nagpur mandarin	Nutrient management	13	5	-	-	-
13.	Cowpea & wheat	Reduction of women drudgery through improved sickle	12	-	0.024 ha/hr	0.009 ha/hr	0.015 ha/hr
14.	Cross bred jersey cow	Feed supplementation of diet with mineral mixture in cross bred jersey cows	10	10 cows	9.2 lit/cow/day	7.5 lit/cow/day	22.66
15.	Goat	Use of ecto & endo parasiticial drugs in goat	10	20 goats	Avg. live body wt. - 21.88 kg	Avg. live body wt. - 20.04 kg	9.18
		Total	139	63			



On Campus Crop Demonstrations

Twenty two crop demonstrations on cotton, pigeonpea, soybean, fodder Jawar, fodder Maize, Lucerne, berseem, vegetables, fruits and flowers were undertaken on KVK's instructional farm. The production and protection technologies of these crops were demonstrated on area ranging from 0.2 ha to 0.4 ha for each crop. Several farmers, farmwomen and extension functionaries from Nagpur district and other states visited these demonstrations and were benefitted.

On Farm Testing

On farm testing for assessment of technology was undertaken for the management of inferior hide quality and increasing the body weight gain in goats. The result revealed that the goats grazed for 6-8 hrs + supplemented with home made concentration feed + sprayed with cypermethrine (1 ml/ liter water) showed significant improvement in live body weight and improved the hide quality as compared to farmers practice i.e. sole grazing + use of lindane powder for ectoparasitic control in goats.

On farm testing was conducted on anaemia in rural pregnant women in the age group of 20- 35 years. The result revealed that the pregnant women supplemented with daily routine diet with green leafy vegetables, soybean flour and jaggary significantly increased the haemoglobin percentage as well as improved the body weight gain which leads to best development and nourishment of foetus as compared to normal diet and recommended diet.

Insecticide Resistance Management(IRM) Project under TMC MM-II

Insecticide Resistance Management (IRM) Project on cotton was started in Nagpur district of Maharashtra state during year 2006-07. In 2007-08, the project has been implemented in 60 villages of 4 tahsils namely, Kalmeshwar, Katol, Narkhed and Saoner of Nagpur district on the fields of 1308 cotton growing farmers covering 1774.6 hectares area. The aim of this project is to establish a sustainable cotton pest management system which will lead to the following goals :

- Overall reduction in insecticidal resistance already developed in cotton bollworms.

- Enhanced pest control efficacy of the recommended insecticides
- Reduce the number of insecticidal sprays and simultaneously reduce the expenditure on crop protection in cotton.

During this year, 60 field workers were appointed and trained in IRM strategies by imparting skill- oriented training and practical demonstrations to implement in the adopted villages at farmer's fields for keeping day to day contact with the client farmers, to get feed-back from them and to disseminate the IRM technology. Several extension activities like field days, farmers meet, group discussions, diagnostic surveys, field visits were conducted. Kisan Melas in four distinct villages of Nagpur district were conducted and the visits of Monitoring Committee constituted by Director, CICR, Nagpur to the cotton fields of adopted farmers were arranged under IRM project. A team of NaLMoT Committee constituted by Ministry of Agriculture, Govt. of India also visited the IRM demonstrations in Nagpur district.

Due to the implementation of IRM strategies under this project, the farmers were convinced to reduce the number of insecticidal sprays from 3.3 to 1.48 approx. Hence, the cost of cultivation has been reduced from Rs. 20700/ha to 19800/ha. Moreover seed cotton yield also increased to 15.05 q/ha from 13.25 q/ha.

Extension Activities

Four field days were organized on cotton, pigeonpea, floriculture and women in agriculture day in which 239 farmers, farm women and rural youths participated. During the year 2007-08, KVK has participated in one Kisan Mela and six National and State level agricultural and animal exhibitions organized by the different organizations throughout the country and displayed KVK activities and cotton production and protection technologies developed by CICR. Eight radio talks and one television shows on various topics of agriculture, animal science, home science and allied subjects were delivered on AIR, Nagpur and Doordarshan Kendra, Nagpur respectively. Three Animal treatment and vaccination camps and one ectoparasitic control and deworming camp were organized in Mangli and Mandavghorad villages benefiting more than 150 farmers. In these camps, 317 animals including goats, cows, buffaloes, bullocks

were treated and vaccinated.

Diagnostic Survey

Twenty nine diagnostic surveys in adopted villages and other villages of Nagpur district were undertaken to suggest the remedies to overcome specific problems in field crops, citrus and animals covering more than 56 ha cropping area and 114 animals in 20 villages of six tahsils of Nagpur district.

Scientific Advisory Committee Meeting

The 11th and 12th SAC meetings of KVK, CICR, Nagpur were held on 25th May, 2007 and 27th Nov, 2007 under the Chairmanship of Director, CICR, Nagpur. More than 20 members from agriculture and allied departments participated

