PROGRESS REPORT

APRIL 2012- MARCH 2013

KRISHI VIGYAN KENDRA, POONCH

Directorate of Extension

Sher-e-Kashmir
University o f Agricultural Sciences & Technology of Jammu
(Jammu & Kashmir)- 180 009

ANNUAL PROGRESS REPORT – April 2012 – March 2013

1. GENERAL INFORMATION ABOUT THE KVK

1.1. Name and address of KVK with phone, fax and e-mail

Address	Telephone		Website/E mail
Krishi Vigyan Kendra, Qazi Mohra, Poonch, Jammu (J&K)	**Office** 01965221796	**FAX** 01965221796	www.kvkpoonch.nic.in kvkpoonch@gmail.com

1.2 .Name and address of host organization with phone, fax and e-mail

Address	Telephone		E mail
	Office	FAX	
Sher-e-Kashmir University of Agricultural Sciences & Technology of Jammu, Main Campus Chatha, Jammu (J&K)	0191-2262028	0191-2262029	deeskuastj@gmail.com

1.3. Name of the Programme Coordinator with phone & mobile No

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Shahid Ahamad		9018719944	Shahid_2056@yahoo.co.in

1.4. **Year of sanction: 2007**

1.5. Staff Position (as on 31st March 2013)

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Pay Band & Grade pay	Present Basic	Date of joining	Permanent /Temporary	Category
1	Programme Coordinator	Dr. Shahid Ahamad	Programme Coordinator	Plant Pathology	15600-39100 G.P :- 9000	34140	5/03/12	Temporary	General
2	Subject Matter Specialist	Dr. Arvind Kumar Ishar	SMS	Entomology	15600-39100 G.P:- 6000	28430	19/6/07	Temporary	General
3	Subject Matter Specialist	Dr. Sanjeev Kumar	SMS	Plant Breeding & Genetics	15600-39100 G.P:- 6000	28430	19/6/07	Temporary	General
4	Subject Matter Specialist	Sh. Suraj Parkash	SMS	Agril. Ext. Education	15600-39100 G.P:- 6000	25050	19/6/07	Temporary	General
5	Subject Matter Specialist	Sh. Pawan Kumar	SMS	Agril. Economics	15600-39100 G.P:- 6000	25050	13/09/07	Temporary	General
6	Subject Matter Specialist	Vacant	SMS		15600-39100 G.P:- 6000				

7	Subject Matter Specialist	Vacant	SMS		15600-39100 G.P:-6000				
8	Programme Assistant	Sh. Sudhir Singh	Programme Assistant	Pomology	9300-34800 G.P:-4220	15210	14/8/08	Temporary	General
9	Computer Programmer	Sh. Jagdish Kumar	Programme Assistant(Computer)	IT	9300-34800 G.P:-4220	14330	25/05/10	Temporary	SC
10	Farm Manager	Sh. Mushtaq Ahmad Guroo	Programme Assistant(Farms)	Entomology	9300-34800 G.P:-4220	13500	03/07/2012	Temporary	General
11	Accountant / Superintendent	Sh. Darshan Kumar	Head Assistant	--	9300-34800 G.P:-4600	23290	11/11/08	Temporary	General
12	Stenographer	Sh. Sahil Talgotra	Jr. Steno	--	5200-20200 G.P:-2400	9840	30/01/12	Temporary	General
13	Driver	Sh. Sham Lal	Driver	--	9300 – 34800 G.P:-4200	21710	30/07/12	Temporary	General
14	Driver	Sh. Mohd. Aslam	Driver	--	5200 – 20200 G.P:-1900	8210	23/8/10	Temporary	General
15	Supporting staff	Sh. Suresh Kumar	OCC	--	5200 – 20200 G.P:-1300	8130	23/8/10	Temporary	SC
16	Supporting staff	Sh. Kewal Kishore	OCC	--	5200 – 20200 G.P:-1300	6100	23/8/10	Temporary	General

1.6. Total land with KVK (in ha) : 3.2 ha

S. No.	Item	Area (ha)
1	Under Buildings	0.99
2.	Under Demonstration Units	0.01
3.	Under Crops	2.20
4.	Orchard/Agro-forestry	NIL
5.	Others	NIL

1.7. Infrastructural Development:

A) Buildings

S. No.	Name of building	Source of funding	Stage					
			Complete			Incomplete		
			Completion Date	Plinth area (Sq.m)	Expenditure (Rs.)	Starting Date	Plinth area (Sq.m)	Status of construction
1.	Administrative Building	ICAR	15-3-2011	400		2008		Completed
2.	Farmers Hostel	ICAR	15-3-2011	300		2008		Completed
3.	Staff Quarters (6)	ICAR	15-3-2011	400		2008		Completed
4.	Demonstration Units (2)	ICAR				2008	90	Under construction
5	Fencing	ICAR				2009		Partially completed
6	Rain Water harvesting system	-	-	-	-	-	-	-
7	Threshing floor	-	-	-	-	-	-	-
8	Farm godowns	-	-	-	-	-	-	-

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Tractor	2008	4,30,000	149.15 hours	Good
Tata Sumo	2010	5.98,973	19231 km	Good
Motor Cycle	2012	45,202	3776 km	Good

C) Equipments & AV aids

Name of the equipment	Year of Purchase	Cost (Rs.)	Present status
Computer	2008	34,528.00	Good
Computer	2009	33,217.00	Good
Printer Coloured	2008	19,717.36	Good
Scanner	2008	2,600.00	Good
Sony Handycam	2008	29,900.00	Good
Song Digital Camera	2009	16,800.00	Good
Fax Machine	2009	7,000.00	Good
Laser Printer (1007hp)	2009	5,475.00	Good
LED 26”	2010-11	26,500.00	Good
DVD 5.1 channel	2010-11	1900.00	Good
Xerox Machine	2010-11	43040.00	Good
Computer	2013	41,788.00	Good

1.8. A). Details SAC meeting conducted in the year 2012

S.No.	Name and Designation of Participants	Salient Recommendations	Action taken
1.	Dr. K.S. Risam Director Extension	1. Incorporation of recommendation of all the members 2. Establish demonstration units of Mushroom cultivation, Bee keeping and Vermicompost. 3. Add more no. of training programmes in Action plan in each discipline. 4. To organize awareness programme on different Govt. Scheme being run for benefits of farmers. 5. Replace wheat var. PBW 373 with some new promising variety. 6. Use of vermin-compost instead of Azobacter in OFT concerned. 7. Conduct OFT on Pea in Mandi and local area.	- Incorporated as per suggestions. - All three demonstration units established. - More No. of training programmes added in Action plan 2012-13.
2.	Mr. Inderjeet Singh, Chief Agriculture officer Poonch	1. Farmers prefer white maize to yellow because of taste and non-availability of market for yellow maize.	As per instruction of Dr. K.S.Risam possibilities being explored for market of yellow maize for human consumption and also in poultry industry as yellow maize has better productivity than white maize.
3.	Mr. P.K Koul Chief Horticulture Officer, Poonch	1. More training programmes may be conducted on same orchard at different stages top see the on farm impact of the training. 2. Management of Anar butterfly.	Farmer's Trainings have been conducted on these topics. Matter was discussed with Forest department and necessary methodology being formulated.
4.	Mr. Bashir Ahmad Chauhan, Asstt. Director Fisheries	1. More awareness Camps on Fisheries in collaboration with Fisheries Deptt.	- Awareness Camps and Farmer's Trainings have been conducted during 2012-13.
5.	Dr. Hardeep Singh, Assistant Manager Poultry	1. Training on Poultry farming for a successful enterprise in the region. 2. Introduce RIR breed in backyard poultry.	-Trainings organized during 2012-13 in collaboration with Department of Animal Husbandry, Poonch and FLD on Backyard Poultry also conducted. Vanraja breed was preferred over RIR breed.
6.	Dr. V.K Bhalla, BVO	More trainings programme on live stock management	- Training programmes conducted in 2012-13.
7.	Mr. Talveer Bandey Asstt. Sericulture Officer	Dissemination of new technologies for increasing sericulture production.	- Dy. Director Sericulture was asked to provide suitable dates for training programmes. …….?
8.	Mr. Rajinder Singh Sudan Department of Irrigation, Poonch.	1. Awareness camps on soil erosion and importance of soil testing to the farmers keeping in view the steep topography of Poonch 2. Mass awareness , TV/radio programmes on this aspect by	- Trainings and Radio talks conducted during 2011-12. - Awareness camps are proposed in 2012-13

		KVK Scientist.	
9.	S. Kuldeep Singh R/o Darra Dullian, Progressive Farmer	1.Appreciated work of KVK 2. Desires for more interaction with KVK.	- KVK would be keen always to develop linkages and transfer new technologies.
10.	Smt. Bhajan Kour R/o Magnad, Farm Women	1.Providing new technologies for vegetable production	- Trainings on Off-season vegetables conducted during 2011-12.
11.	Smt. Kulwant Kour R/o Magnad, Poonch Farm Women		

***Copy of Proceedings attached as annexure**

2. DETAILS OF DISTRICT (2012-13)

Poonch is located on the Southern slopes of Pir Panjal range and as such is rugged with spurs and valleys. It lies between 33^0 25' to $34^0$10' North latitude and 73^0 58' to 74^0 35' East longitude. It is bounded on the north by Baramula and Budgam district of Kashmir valley, on its west and North-West lies Pakistan Occupied Kashmir (POK). The district having population of 3.71 lacs consists of 4 tehsils, 6 blocks and 178 villages covering an area of 1674 sq. km. The climate of the district varies from Sub-tropical to temperate and receives good annual rainfall.

2.1 **Major farming systems/enterprises** (based on the analysis made by the KVK): Maize – Wheat (as fodder) is the major cropping sequence being followed in the district. Besides this, other cropping rotations being practiced in the district are:-

S. No	Farming system /Enterprise
1	Maize -solo crop
2	Maize – Wheat
3	Maize – Potato
4	Maize – Berseem
5	Rice – wheat
6	Rice – Fodder

2.2 **Description of Agro-climatic Zone & major agro ecological situations** (based on soil and topography)

S. No	Agro-climatic Zone	Characteristics
1	Sub-Tropical (Up to 800 m)	Plain area with water logging
2	Intermediate lower (800 to 1500)	Slopy land with problem of soil erosion
3	Intermediate higher (Above 1500)	High hills with gully erosion

S. No	Agro ecological situation	Characteristics
1	AES-I	Plain topography with thick soil and canal irrigated
2	AES-II	Slopy land with thin soil cover and rainfed
3	AES-III	Thick growth of conifers & deciduous forests

2.3 Soil Type/s

S. No	Soil type	Characteristics	Area in ha
1.	Silty	Soil is Silty with water logged and flood prone	N.A.
2.	Sandy loam	Soil is sandy to sandy loam with salt affected in patch.	N.A.

2.4. **Area, Production and Productivity of major crops cultivated in the district (2011-12)**

S. No	Crop	Area (ha)	Production (MT)	Productivity (Qtl. /ha)
1	Paddy	4,300	7037.38	16.37
2	Maize	24,000	46,680	19.45
3	Wheat	15,000	NA	NA

2.5. **Weather Data**

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity
		Maximum	Minimum	
April 12	243	N/A	N/A	N/A
May 12	79.5	N/A	N/A	N/A
June 12	12.5	N/A	N/A	N/A
July 12	171.0	N/A	N/A	N/A
August 12	530.0	N/A	N/A	N/A
September 12	369.0	N/A	N/A	N/A
Oct. 12	25.0	N/A	N/A	N/A
Nov. 12	30.0	N/A	N/A	N/A
Dec. 12	126.0	N/A	N/A	N/A
Jan. 2013	170.0	N/A	N/A	N/A
Feb. 2013	361.0	N/A	N/A	N/A
Mar. 2013		N/A	N/A	N/A

2.6. Production and productivity of livestock, Poultry, Fisheries etc. in the district

Category	Population	Production	Productivity
Cattle			
Crossbred	69445	16425 MT (Milk)	--
Indigenous	137491	16525 MT (Milk)	--
Buffalo	203336	50850 MT (Milk)	--
Sheep			
Crossbred	180964	Mutton 19.99 lakh kg Wool 4.91 lakh kg	--
Indigenous	102007		--
Goats	170090		--
Pigs	--	--	--
Crossbred	--	--	--
Indigenous	--	--	--
Rabbits	21	--	--
Poultry			
Hens	349894	245 Lakh eggs	
Desi	250870	100 Lakh eggs	
Improved	99024	135 Lakh eggs	
Ducks	--	--	--
Turkey and others	--	--	--

Category	Area	Production	Productivity
Fish			
Marine	--	--	--
Inland	1.98 ha	3.6 tonnes/ year	--
Water bodies (Riverine)		33.24 tonnes/ year	--
Prawn	--	--	--
Scampi	--	--	--
Shrimp	--	--	--

2.7 **Details of Operational area / Villages (2012-13)**

S.No.	Taluka/Tehsil	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1	Poonch Haveli	Haveli	Madari Magnad Jhallas, Nangali, Salotri, Digwar, Bandi Chechian, Khanetar	Maize (*Zea mays*), Paddy (*Oryza sativa*), Fodder	- Low Productivity in maize and paddy - Fodder scarcity - non availability of fertilizer at right time	- INM & IPM in Paddy and Maize - Standardization of wheat Production technology under rainfed conditions - Introduction of improved fodder varieties. - Standardization of Pulses Production technology under rainfed conditions
2	Mandi	Mandi	Sathra, Rajpura, Mandi	Maize (*Zea mays*), Rajmash (*Phaseolus* sp.), walnut appler & apricot	- Low Productivity in maize - Attack of insect pest in rajmash under mixed cropping - Large Mono-cropped area	- INM & IPM in Maize - IPM in rajmash - Introduction of Kalazeera for Monocropped area of the block

3	Surankote	Surankote, Bufliaz	Draba, Potha, Kallar, Seri Khwaja,	Maize (*Zea mays*) Rajmash (*Phaseolus* sp.) Paddy (*Oryza sativa*)	- Low Productivity in maize and paddy - Large Mono-cropped area	- INM & IPM in Maize - IPM in rajmash
4	Mendhar	Balakote	Ucchaad, Mankote, Sagra, Ari, Dargloon	Maize (*Zea mays*) Mustard Wheat (*Triticum aestivum*)	- Low productivity in maize - Problem of weed management in wheat - Use of Local varieties for oilseed and pulses	- INM & IPM in Maize - Standardization of wheat Production technology under rainfed conditions - Introduction of improved varieties of oilseed and pulses.

2.8 Priority/thrust areas

Agriculture

Crop	Thrust area
Maize (*Zea mays*)	- Line Sowing / Proper Spacing - Integrated Nutrient & Pest Management - Introduction of single cross hybrids
Paddy (*Oryza sativa*)	- Integrated Nutrient Management, weed management
Wheat (*Triticum aestivum*)	- Standardization of Production technology under rainfed conditions, weed management
Pulses	- Standardization of Production technology under rainfed conditions, High yielding improved varieties

Horticulture

Crop/Enterprise	Thrust area
Pear (*Pyrus communis*), Plum (*Prunus domestica*), Apple (*Malus sylvestris*)	Promoting balance use of fertilizers
	Application of recommended micronutrients
	Promoting IPM & IDM
Walnut (*Juglans* spp.)	Management of walnut weevil

Animal Husbandry

Enterprise	Thrust area
Cow, Buffalo, Sheep, Goat	Fertility improvement by addressing reproductive problems
	Availability of green fodder round the year
	Breed up-gradation in Buffalo
	Disease Management in Sheep & Goat

3.TECHNICAL ACHIEVEMENTS

3. A. **Details of target and achievements of mandatory activities by KVK during 2012-13**

	OFT **(Technology Assessment & Refinement)**				FLD **(Oilseeds, Pulses, Cotton, Other Crops/Enterprises)**			
	1				2			
	Number of OFTs		Number of Farmers		Number of FLDs		Number of Farmers	
	Target	Achievement	Target	Achievement	Targets	Achievement	Targets	Achievement
	09	08	-	24	Maize - 10 ha.	10 ha		39
					Maize (ISOPOM) 0.8 ha	0.8 ha		03
					Paddy - 10 ha.	10 ha		30
					Rajmash(O&P) 03 ha	04 ha		15
					Rajmash(KVK) 03 ha.	03 ha		08
					Wheat - 10 ha.	10 ha		36
					Mustard(KVK) – 01 ha.	1.0 ha		07
					Lentil(O&P) 02 ha	02 ha		08
					Fodder(Oat) – 02 ha	02 ha		
					Chicks - 300	300		05

	Training				**Extension Activities**			
	3				4			
	Number of Courses		Number of Participants		Number of activities		No. of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Target	Achievement
Farmers	Crop Production (08)	07		120	Kisan Gosthi(02)	02	-	51
Farmers	Agroforestry (07)	-	-	-	Field Day	04	-	134
Farmers	Horticulture (08)	07	-	120	Awareness camps	06	-	168
Farmers	Plant Protection (08)	20	-	360	Advisory Services	09	-	138
Farmers	Extension Education (12)	10	-	181	Agri Clinical camp- (02)	02		
Farmers	Home Science (1)	1	-	16				
Farmers	Animal Husbandry							

Vocational Trainings								
Rural youth	Mushroom Production (01)	1	-	27	Campaign/ Surveys	02	-	35
Rural youth	Backyard Poultry(01)	1	-	10	**Newspaper Coverage**	47	-	-
Rural youth/ Farm women	Knitting (01)	1	-	21	Farmer visit to KVK	270		
Rural youth	Composite Fish culture (01)	1	-	32	Scientific visit to farmers field	121		
Rural youth	vermicomposting and vermiculture techniques (01)	1		35				
Rural youth	Bee Keeping (01)	1		16				
Farm women	Value added products of fruits, vegetables & mushroom (01)	1	-	18				
Farm women	Soft toys making (01)	1	-	23				
In-Service Trainings								
Extn. functionaries	Crop Production (01)	01	-	08	-	-	-	-
Extn. functionaries	Crop Protection (05)	05	-	62	-	-	-	-
Extn. Functionaries	Horticulture (02)	-	-	-	-	-	-	-
Extn. Functionaries	Agroforestry (01)	-	-	-	-	-	-	-
Extn. Functionaries	Extension Education (03)	03	-	31	-	-	-	-

Seed Production (Qtl.)		**Planting material (Nos.)**	
5		**6**	
Target	**Achievement**	**Target**	**Achievement**
-	-	Tomato Seedling	200
		Knol-Khol (*Brassica oleracea* var. *gongylodes*)	500
		Strawberry (*Fragaria spp.*)	1000
		Poplar (*Liriodendron* sp.)	15

3.B. Abstract of interventions undertaken

S. No	Thrust area	Crop/ Enterprise	Identified Problem	Interventions					
				Title of OFT if any	Title of FLD if any	Title of Training if any	Title of training for extension personnel	Extn. activity	Supply of seeds, planting materials
1.	Seed Treatment/ Pest management	Wheat Rajmash Vegetables Fruits	-Pest incidence - Seed borne diseases	- Management of *Phytophthora* blight in tomato - Management of Chili wilt - Management of Anar butterfly in wild pomegranate	- IPM in Wheat and Rajmash	- Management of insect Pests of cole crop vegetables - Insect Pest Management in Maize - Management of Chili wilt - Insect pest and disease management in paddy	- Insect Pest and Disease management in Fruit crops -	- Field days (2) - Trainings (7)	Supply of chemicals/ Pesticides
2.	Production technology	Paddy Maize Pulses Vegetables Agroforestry	-Low productivity - Nutrient management	- Evaluation of wheat varieties under rainfed and irrigated conditions. - Evaluation of maize hybrids over composites - Performance of different varieties/hybrids in cauliflower - Effect of Integrated Nutrient Management on the production of knoll-khol. - Effect of fertilizer doses on the yield of cabbage - Effect of spacing on yield of tomato (var. Shivalik) - Economy of spraying micro-nutrients on Plum - Effect of NPK doses on yield of plum (var. Chukendari) in an Agroforestry system.	- Line sowing and Nutritional Management in Maize - Optimum seed rate and nutritional management in paddy -Varietal evaluation and nutritional management in oilseed and pulses	- Importance and cultivation of high yielding wheat varieties - Scientific cultivation of Black gram - Scientific cultivation of maize hybrids - High yielding varieties of oilseeds (Gobhi Sarson, mustard, Toria) - Integrated commercial farming through Horti-agroforestry crops - Tree crop combination for planting on farmers field	- - Recent advances in vegetable production	- Field days (5) - Training (5) - Camps- (4)	Supply of seed/ seedlings, Fertilizers

3.1 Achievements on technologies assessed and refined

A.1 Abstract of the number of technologies **assessed*** in respect of crops/enterprises

Thematic areas	Cereals	Oilseeds	Pulses	Commercial Crops	Vegetables	Fruits	Flower	Plantation crops	Tuber Crops	TOTAL
Varietal Evaluation	4	3	3	-	2	-	-	-	-	12
Seed / Plant production	-	-	-	-	-	-	-	-	-	-
Weed Management	1	1	-	-	-	-	-	-	-	2
Integrated Crop Management	-	-	-	-	3	3	-	-	-	6
Integrated Nutrient Management	-	-	-	-	-	1	-	-	-	1
Integrated Farming System	-	-	-	-	-	-	-	-	-	-
Mushroom cultivation	-	-	-	-	-	-	-	-	-	-
Drudgery reduction	1	-	-	-	-	-	-	-	-	1
Farm machineries	-	-	-	-	-	-	-	-	-	-
Value addition	-	-	-	-	-	-	-	-	-	-
Integrated Pest Management	-	-	-	-	3	-	-	-	-	3
Integrated Disease Management	-	-	-	-	2	-	-	-	-	2
Resource conservation technology	-	-	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-	-	-
TOTAL	6	4	3	-	10	4	-	-	-	27

A.2.Abstract of the number of technologies **refined*** in respect of crops/enterprises NIL

A.3. Abstract of the number of technologies **assessed** in respect of livestock / enterprises

Thematic areas	Cattle	Poultry	Sheep	Goat	Piggery	Rabbitary	Fisheries	TOTAL
Evaluation of Breeds	-	1	-	-	-	-	-	1
Nutrition Management	-	-	-	-	-	-	-	-
Disease of Management	-	-	-	-	-	-	-	-
Value Addition	-	-	-	-	-	-	-	-
Production and Management	-	-	-	-	-	-	-	-
Feed and Fodder	-	-	-	-	-	-	-	-
Small Scale income generating enterprises	-	-	-	-	-	-	-	-
TOTAL	**-**	**1**	**-**	**-**	**-**	**-**	**-**	**1**

A.4. Abstract on the number of technologies **refined** in respect of livestock / enterprises Nil

B. Details of each On-Farm Trial

A. Technology Assessment

Trial 1

1) Title : Management of San Jose scale in apple.

2) Problem diagnose/defined : Low productivity

3) Details of technologies selected for assessment :
i. Farmer Practice (No Chemical)
ii. Spray of Horticulture Oil + Metasystox
iii. Spray of Horticulture Oil + Chlorpyriphos

4) Source of technology : Package of practices, SKUAST- Kashmir

5) Production system : Rainfed / Horticulture based

6) Thematic area : Insect Pest Management

7) Performance of the Technology with performance indicators : Trial could not be conducted successfully due to heavy rains at flower formation and thereby Very Poor Fruit Setting.

8) Final recommendation for micro level situation : .

9) Constraints identified and feedback for research :

10) Process of farmers participation and their reaction :

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10

Technology Assessed	Production per plant	Net Return (Profit) in Rs./ plant	B:C Ratio
11	12	13	14

Trial 2

11) Title : Insect Pest management in Cucumber

12) Problem diagnose/defined : Low productivity

13) Details of technologies selected for assessment :
i. Farmer Practice (Endosulfan)
ii. Carbaryl (Sevin)
iii. Cypermethrin

14) Source of technology : Package of practices, SKUAST-Jammu

15) Production system : Irrigated / Vegetable based

16) Thematic area : Insect Pest Management

17) Performance of the Technology with performance indicators : Results of the trials conducted at farmers' field at three different locations revealed that incidence of insect pests was least when crop was sprayed with Carbaryl (9 %). It was followed by Cypermethrin (17%), whereas crop sprayed with Endosulfan showed maximum (26%) insect pest incidence.

18) Final recommendation for micro level situation : Spraying the crop with Carbaryl gave the best results followed by Cypermethrin and Endosulfan.

19) Constraints identified and feedback for research : Non-availability of Quality plant protection chemicals in local market and reliability of farmer on shopkeepers for selection of pesticides.

20) Process of farmers participation and their reaction : Farmers were satisfied with the performance of new chemical and were ready to use it in the future.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Cucumber	Irrigated	Losses due to insect pest attack	Insect Pest Management in Cucumber	03	i. Farmer Practice (Endosulfan) ii. Carbaryl iii. Cypermethrin	% insect incidence	26% 9% 17%	Least insect pest incidence was observed in the crop sprayed with Carbaryl. Cypermethrin also gave promising results whereas Endosulfan treated crop suffered maximum yield loss.	Farmer was impressed with the performance of the chemicals but non-availability in the local market was major constraint.

Technology Assessed	Production per hectare (Quintals)	Net Return (Profit) in Rs./ ha	B:C Ratio
11	12	13	14
i. Farmer Practice (Endosulfan)	367	2,52,000	3.19
ii. Carbaryl	453	3,38,000	3.93
iii. Cypermethrin	405	2,90,000	3.52

Trial 3

1) Title : Management of Head Smut disease in Maize (KH-612)

2) Problem diagnose/defined : Head Smut incidence in maize.

3) Details of technologies selected for assessment : Application of fungicides
i) KH-612 untreated
ii. Captan @ 3g/kg seed

4) Source of technology : Package of practice for field crops, SKUAST-J.

5) Production system : Rainfed/ cereal based

6) Thematic area : Head Smut disease management in Maize

7) Performance of the Technology with performance indicators : Results of the trials conducted at farmers' field at three locations revealed that there is 26.78 % increase in yield (35.50 q/ha) in case of KH-612 treated with Captan over untreated..

8) Final recommendation for micro level situation : Application of captan @3g/ kg seed may be recommended .

9) Constraints identified and feedback for research : Farmers were not aware for the use of seed treatment for the control of head smut disease in maize.

10) Process of farmers participation and their reaction : Farmers were ready to adopt effective fungicide.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Yield	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Maize	Rainfed	Low productivity	Head smut disease in Maize	1	i. KH-612 untreated ii. Treated with Capton	Percent of disease incidence	21.50% 10.50%	There is 19.86 % increase in yield in case of hybrid treated with Captan @ 3g/kg seed over check	Farmers are ready to adopt with catpon for seed treatment

Technology Assessed	Production per unit	Net Return (Profit) in Rs./hectare	B:C Ratio
11	12	13	14
Seed treatment with capton	32.8 q/ha	23500 24500	2.7 2.8

Trial 4

1)	**Title**	**:**	**Performance of different varieties of Radish in Poonch Distt.**
2)	Problem diagnose/defined	:	Low productivity
3)	Details of technologies selected for assessment	:	i. Farmer Practice ii. White Ivory iii. Sparkle White
4)	Source of technology	:	Package of practices, SKUAST-Jammu
5)	Production system	:	Irrigated
6)	Thematic area	:	Evaluation of vegetable production technology
7)	Performance of the Technology with performance indicators	:	Results of the trials conducted at farmers' field at two different locations revealed that there is 25.45% increase in yield of radish from variety White Ivory compared to farmers practice of their own seed. Variety "Sparkle White" gave 18.78 % higher yield compared to farmers' practice.
8)	Final recommendation for micro level situation	:	White Ivory performed well under Poonch conditions and may be recommended for large scale cultivation.
9)	Constraints identified and feedback for research	:	Provision of quality varieties/hybrid seeds.
10)	Process of farmers participation and their reaction	:	Farmers were shown and given trainings in scientific cultivation of radish.

11). Results of On Farm Trials

Crop	Farming situation	Problem Diagnosed	Title Of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Radish	Irrigated	Low Productivity	Varietal Evaluation of radish	2	i. Farmer Practice ii. White Ivory iii. Sparkle White	Yield	165 q/ha 207 q/ha 196 q/ha	There is 25.45% increase in yield of radish from variety White Ivory compared to farmers practice. Variety "Sparkle White" gave 18.78 % higher yield compared to farmers' practice.	Provision of hybrid varieties

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / ha	B:C Ratio
11	12	13	14
i. Farmer Practice	165 q/ha	99,000	1.52
ii. White Ivory	207 q/ha	1,24,200	2.30
iii. Sparkle White	196 q/ha	1,17,600	2.04

Trial 5

1) Title : Effect of fertilizers on the yield of Tomato (*Lycopersicon esculentum*) (Var. Shivalik)

2) Problem diagnose/defined : Low productivity

OFT could not be conducted due to transfer of concerned SMS

Trial 6.

1) Title : Evaluation of Wheat (*Triticum aestivum*) varieties under rainfed conditions

2) Problem diagnose/defined : Low productivity

3) Details of technologies selected for assessment /refinement : i. Var. 1 HS 490
ii. Var. 2 PBW 373

4) Source of technology : IARI Karnal/Deptt. of Agriculture J&K

5) Production system thematic area : Rainfed

6) Thematic area : Evaluation of High yielding variety

7) Performance of the Technology with performance indicators : Trials are conducted at two different locations

8) Final recommendation for micro level situation : Var. HS490 gave higher yield than PBW373.

9) Constraints identified and feedback for research : -

10) Process of farmers participation and their reaction : -
.

11) Results of On Farm Trials

Crop	Farming situation	Problem Diagnosed	Title Of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat	Rainfed	Low Productivity	Evaluation of Different varieties of wheat	2	i. HS 240 ii. PBW 373	Yield q/ha	30 q/ha 22 q/ha	There was 26.67 % increase in yield of PBW 373	Farmers were ready to adopt the variety seeing increased productivity

Technology Assessed	Production per unit	Net Return (Profit) in Rs. / unit	B:C Ratio
11	12	13	14
i. HS 240	30 q/ha	22500	1:3
ii. PBW 373	22 q/ha	14500	1:1.93

Trial 7

1) Title : Evaluation of Garlic varieties
2) Problem diagnose/defined : Low productivity
3) Details of technologies selected for assessment /refinement :
   i. Var. 1 Garlic (G-50)
   ii. Var. 2 Garlic (G-313)
   iii. Var. 3 Garlic(Ooty)
4) Source of technology : IARI Karnal/Deptt. of Agriculture J&K
5) Production system thematic area : Rainfed
6) Thematic area : Evaluation of High yielding variety
7) Performance of the Technology with performance indicators : Trials are conducted at eleven different locations and at present crop is in the vegetative stage
8) Final recommendation for micro level situation :
9) Constraints identified and feedback for research : -
10) Process of farmers participation and their reaction :
    .
11) Results of On Farm Trials

Crop	Farming situation	Problem Diagnosed	Title Of OFT	No. of trials	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Garlic	Rainfed	Low Productivity	Evaluation of Different varieties of Garlic	11	i. Garlic (G-50) ii. Garlic (G-313) iii Garlic(Ooty)	Crop is in Progress			

Technology Assessed	Production per tree	Net Return (Profit) in Rs. / unit	B:C Ratio
11	12	13	14
i. Garlic (G-50) ii. Garlic (G-313) iii Garlic(Ooty)			

Trial 8

1) Title : Effect of time of planting on the yield of Pea under intermediate conditions of Poonch

2) Problem diagnose/defined: Low Productivity

3) Details of technologies selected for assessment :
I) 1-10-12
ii) 10-10-12
iii) 20-10-12

4) Source of technology : Package of practices, SKUAST-Jammu

5) Production system : Irrigated

6) Thematic area : Time of planting Evaluation

7) Performance of the Technology with performance indicators :

Final recommendation for micro level situation :

8) Constraints identified and feedback for research : -

9) Process of farmers : Farmers were trained in scientific cultivation of vegetables through training programmes participation and their reaction

.

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Cauliflower	Irrigated	Low productivity	Performance of	3	Sowing dates 1-10-12 10-10-12 20-10-12	Crop is in Progress			

Technology Assessed	Production per unit	Net Return (Profit) in Rs./ ha	BC Ratio
11	12	13	14
i. Farmer Practice ii.			

Trial 9

1) Title : **Economic appraisal of Nutrient management in wheat.**
2) Problem diagnose/defined: Low Productivity
3) Details of technologies selected for assessment : HS -490

4) Source of technology : Package of practices, SKUAST-Jammu

5) Production system : Rainfed
6) Thematic area : Nutrient management
7) Performance of the Technology with performance indicators :
Final recommendation for micro level situation : Crop is in vegetative stage.
8) Constraints identified and feedback for research :

9) Process of farmers : Farmers were trained in scientific cultivation of wheat through training programmes participation and their reaction

11). Results of On Farm Trials

Crop/ enterprise	Farming situation	Problem Diagnosed	Title of OFT	No. of trials*	Technology Assessed	Parameters of assessment	Data on the parameter	Results of assessment	Feedback from the farmer
1	2	3	4	5	6	7	8	9	10
Wheat HS-490	Irrigated	Low productivity	Nutrient management in wheat	2	Seed rate i	i) Farmer's practice ii) 125kg/ha iii) 100 kg/ha	Crop is in progress		

Technology Assessed	Production per unit	Net Return (Profit) in Rs./ ha	BC Ratio
11	12	13	14
i) Farmer's practice ii) 125kg/ha iii) 100 kg/ha			

3.2 Achievements of Frontline Demonstrations

a. Follow-up for results of FLDs implemented during previous years

List of technologies demonstrated during previous year and popularized during 2012-13 and recommended for large scale adoption in the district

S. No	Crop/ Enterprise	Thematic Area*	Technology demonstrated	Details of popularization methods suggested to the Extension system	Horizontal spread of technology		
					No. of villages	No. of farmers	Area in ha
1	Maize	Variety Evaluation Nutrient Management	Sowing of hybrid variety. Recommended dose of fertilizers	Field days, Awareness camps, Trainings	13	39	10
2	Maize (ISOPOM)	Variety Evaluation Nutrient Management	Sowing of hybrid variety. Recommended dose of fertilizers		19	68	20
3	Paddy	Variety Evaluation Nutrient Management	Sowing of hybrid variety. Recommended dose of fertilizer		11	30	10
4	Wheat	Nutrient Management Weed Management	Recommended dose of fertilizer Application of weedicides		17	36	10
5	Mustard	Nutrient Management	Recommended dose of fertilizer		02	04	01
6	Rajmash	Cropping System, Pest Management	Mixed cropping with maize, IPM		01	08	02

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season & year	Area (ha)		No. of farmers/ demonstration			Reason for shortfall
					Propos-ed	Actual	SC/ ST	Others	Total	
Cereals										
1.	Maize(KVK	Introduction of hybrids. Nutrient Management	Sowing of hybrid variety. Recommended dose of fertilizers	Kharif 2012	10	10	08	31	39	
	Maize (ISOPOM)	Introduction of hybrids. Nutrient Management	Sowing of hybrid variety. Recommended dose of fertilizers	Kharif 2012	20	20	25	43	68	
2.	Paddy	Nutrient Management.	Sowing of hybrid variety. Recommended dose of fertilizer	Kha2if 2012	10	10	10	20	30	
3.	Wheat	Varietal introduction	Sowing of improved variety	Rabi 2012	10	10	12	24	36	
4.	Oat	Fodder Introduction	Oat as Fodder against wheat	Rabi 2012	02	02	03	05	08	
Oilseeds& Pulses (KVK Scheme)										
5	Mustard	Nutrient Management.	Recommended dose of fertilizer Pest management	Rabi 2012	01	0.8	03	04	07	
6	Rajmash	Pest Management	IPM	Kharif 2012	03	04	04	11	15	

Details of farming situation

Crop	Season	Farming situation	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Maize	Kharif 2012	Rainfed	Sandy Loam	-	-	-	Wheat/ Oats	16/5/12 – 03/06/12	1/10/12 to 01/11/12	-	-
Paddy	Kharif 2012	Irrigated	Clay Loam	-	-	-	Paddy/ Berseem		18/10/12 to 30 /10/12	-	-
Wheat	Rabi 2012	Rainfed	Sandy loam	-	-	-	Maize			-	-
Mustard	Rabi 2012	Rainfed	Sandy loam	-	-	-	Maize			-	-
Rajmash	Kharif 2012	Rainfed	Sandy loam	-	-	-	Wheat/ Fallow	20/04/12 to 04/05/12	15-10-12 to 25-10-12	-	-

Performance of FLD (2012-13)

Sl. No.	Crop	Technology Demonstrated	Variety	No. of Farmers	Area (ha.)	Demo. Yield Qtl/ha			Yield of local Check Qtl./ha	Increase in yield (%)	Data on parameter in relation to technology demonstrated	
						H	L	A			Demo	Local
1	***2***	***3***	***4***	***5***	***6***	***7***	***8***	***9***	***10***	***11***	***12***	***13***
1	Maize	Variety Nutrient. Management.	PA 4794	39	10	120	22.0	32.65	24.35	30.86	No. of seeds/line - 29 Length of cob= 18cm	Broardcast 11.20 cm
	Maize (ISOPOM)	Line sowing technology Nutrient Management	PA-4794 Deklab Double PG-Hybrid	68	20.0	34.2	20.0	28.94	23.71	22.05	**No. of Cobs/plant = 1.5 Plant height = 3.72 m**	**0.69** **2.16 m**
2	Paddy (KVK)	-Nutrient Management -Integrated Disease Management	K-343	30	10	53.7	41.6	46.2	38.40	20.31	Plant ht= 112cm No. of tillers/plant= 7.2	117cm 4.6
3	Wheat (KVK)	Nutrient Management Weed Management	PBW-373	36	10	Crop is in the vegetative phase						
4	Mustard (KVK)	Nutrient Management	RSPR-01	04	01	Crop is in the vegetative phase					-	-
5	Rajmash (KVK)	Integrated Pest Mgmt	Local	15	04	4.05	2.95	3.55	2.71	30.99	**% incidence = 17**	**% incidence = 328**
6	Oat	Introduction of Fodder	Kent	08	02	Crop is in the vegetative phase						

Economic Impact (continuation of previous table)

	Average Cost of cultivation (Rs./ha)		Average Gross Return (Rs./ha)		Average Net Return (Profit) (Rs./ha)		Benefit-Cost Ratio
	Demonstration	Local Check	Demonstration	Local Check	Demonstration	Local Check	
	14	15	16	17	18	19	20
1.	14,265	13,401	35,915	26,785	21,650	13,284	2.52/1.99
	13,610	13,205	31,834	26,081	18,224	13,411	2.33/1.97
2.	17,425	19,637	99,836	80630	55,960	39,700	2,86/2.39
3.	-	-	-	-	-	-	-
4.	-	-	-	-	-	-	-
5.	4500	4900	36450	26550	31950	21650	
6.	-	-	-	-	-	-	-

Analytical Review of component demonstrations

Crop	Season	Component	Farming situation	Average yield (q/ha)	Local check (q/ha)	%increase in productivity over local check
Maize	Kharif 2012	1. Seed/Variety	Rainfed	32.65	24.95	30.86
Maize (ISOPOM)		2. Fertilizer management		28.94	23.71	22.05
Paddy	Kharif 2012	1. Seed/Variety 2. Fertilizer management	Irrigated	46.20	38.40	20.31
Rajmash	Kharif 2012	Pest/Disease Mgmt	Rainfed	3.55	2.71	30.99

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1. Line sowing technology in Maize	Maize Planter should be given to the progressive farmers on subsidy for the large scale adoption of technology DAP should be available in the market at the time of sowing
2. Nutritional Management in maize	Soil testing should be done compulsory done before the application of NPK.
3. Nutritional Management in Paddy	Soil testing should compulsory be done before the application of NPK.
4. Nutritional Management in wheat	Soil testing should compulsory be done before the application of NPK.
5. Weed Management in wheat	There is severe incidence of weeds in wheat in the region. Management of weed is very important factor for increasing the productivity; awareness regarding use of weedicides.
6. Nutritional Management in Mustard	Soil testing should compulsory be done before the application of NPK.

Farmers' reactions on specific technologies

S. No	Feed Back
1. Line sowing technology in Maize	Farmers are only reluctant to adopt the said technology due to un-availability of labour in peak season (short span due to rainfed). Moreover very small and un-geometrical fields also hinder the adoption. Seed drill should be available on subsidy during the time of sowing
2. Nutritional Management in maize	Farmers are ready to adopt the technology but un-availability of fertilizers at right time is main limitation.
3. Nutritional Management in Paddy	Farmers are ready to adopt the technology but un-availability of fertilizers at right time is main limitation. In addition to that non availability of rice transplanter is also a major limitation.
4. Improved variety in paddy	Only source of seed supply is Department of Agriculture which supplies subsidized seed. Farmers are forced to sow what department is providing.
5. Nutritional Management in wheat	Farmers are ready to adopt the technology but non-availability of fertilizers at right time is main limitation
6. Nutritional Management in Mustard	Farmers are ready to adopt the technology but non-availability of fertilizers at right time is main limitation. Aphid resistant varieties are also not available

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days	04	20-9-12, 5-10-12,10-10-12, 26-10-12	134	-
2	Farmers Training	02	1-11-12, 19-6-12	74	-
3	Media coverage	03		-	-
4	Training for extension functionaries	-	-	-	-

c. Details of FLD on Enterprises

(i) Farm Implements: Nil
(ii) Livestock Enterprises: 05 (Backyard Poultry)
(iii) Other Enterprises: Nil

3.3 Achievements on Training (Including the sponsored, vocational, FLD and trainings under Rainwater Harvesting Unit) :

A) ON Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management										
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop Management										
Fodder production										
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit										
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of										

ornamental plants										
Propagation techniques of Ornamental Plants										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
III Soil Health and Fertility Management										
Soil fertility management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing										
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Disease Management										
Feed management										
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening										
Design and development of low/minimum cost diet										
Designing and										

development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
VII Plant Protection										
Integrated Pest Management										
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and										

prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics										
Formation and Management of SHGs										
Mobilization of social capital										
Entrepreneurial development of farmers/youths										
WTO and IPR issues										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
TOTAL										
(B) RURAL YOUTH										
Mushroom Production	01	5	5	10	10	7	17	15	12	27
Bee-keeping	01	0	0	0	16	0	16	16	0	16
Integrated farming										
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture	01	29	0	29	6	0	6	35	0	35
Sericulture										
Protected cultivation of										

vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition	01	0	9	9	0	9	9	0	18	18
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	01	5	0	5	5	0	5	10	0	10
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture	01	15	1	16	16	0	16	31	1	32
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	02	0	37	37	0	7	7	0	44	44
TOTAL	**08**	**54**	**52**	**106**	**53**	**23**	**76**	**107**	**75**	**182**
(C) Extension Personnel										
Productivity enhancement in field crops	01	8	0	8	0	0	0	8	0	8
Integrated Pest Management	05	56	1	57	05	0	05	61	1	62
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Formation and Management of SHGs	01	16	0	16	0	0	0	16	0	16
Group Dynamics and farmers organization										
Information networking among farmers	01	7	0	7	0	0	0	7	0	7
Capacity building for ICT application										
Care and maintenance of farm machinery and										

implements										
WTO and IPR issues	01	7	0	7	1	0	1	8	0	8
Management in farm animals	01	6	0	6	0	0	0	6	0	6
Livestock feed and fodder production										
Household food security										
Women and Child care										
Low cost and nutrient efficient diet designing	01	7	0	7	0	0	0	7	0	7
Production and use of organic inputs										
Gender mainstreaming through SHGs										
Agroforestry										
TOTAL	**11**	**107**	**01**	**108**	**06**	**00**	**06**	**113**	**01**	**113**

B) OFF Campus

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	01	16	0	16	0	0	0	16	0	16
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop Management	01	11	4	15	0	0	0	11	4	15
Fodder production	05	53	9	62	24	3	27	77	12	89
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	03	26	4	30	25	1	26	51	5	56
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning	02	13	0	13	19	2	21	32	2	34
Layout and Management of Orchards										
Cultivation of Fruit	01	12	0	12	4	2	6	16	2	18
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
c) Ornamental Plants										
Nursery										

Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	01	10	0	10	2	0	2	12	0	12
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
III Soil Health and Fertility Management										
Soil fertility management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing	01	10	5	15	3	0	3	13	5	18
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Disease										

Management										
Feed management										
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01	12	0	12	4	0	4	16	0	16
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale processing and value addition										
Post Harvest Technology										
VII Plant Protection										
Integrated Pest Management	12	126	6	132	91	7	98	217	13	230
Integrated Disease Management	07	91	14	105	19	4	23	110	18	128

Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and implements										
Production of livestock feed and fodder										
Production of Fish feed										
X Capacity Building and Group Dynamics										
Leadership development										

Group dynamics	01	17	0	17	0	0	0	17	0	17
Formation and Management of SHGs										
Mobilization of social capital	05	63	4	67	24	1	25	87	5	92
Entrepreneurial development of farmers/youths	03	28	5	33	22	0	22	50	5	55
WTO and IPR issues	01	0	0	0	15	2	17	15	2	17
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
TOTAL	**45**	**488**	**51**	**539**	**252**	**22**	**274**	**740**	**73**	**813**
(B) RURAL YOUTH										
Mushroom Production										
Bee-keeping										
Integrated farming										
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture										
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Para vets										
Para extension										

workers										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
TOTAL										
(C) Extension Personnel										
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Formation and Management of SHGs										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Care and maintenance of farm machinery and implements										
WTO and IPR issues										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Women and Child care										
Low cost and nutrient efficient										

diet designing										
Production and use of organic inputs										
Gender mainstreaming through SHGs										
TOTAL										

C) Consolidated table (ON and OFF Campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
(A) Farmers & Farm Women										
I Crop Production										
Weed Management	01	16	0	16	0	0	0	16	0	16
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Water management										
Seed production										
Nursery management										
Integrated Crop Management	01	11	4	15	0	0	0	11	4	15
Fodder production	05	53	9	62	24	3	27	77	12	89
Production of organic inputs										
II Horticulture										
a) Vegetable Crops										
Production of low volume and high value crops	03	26	4	30	25	1	26	51	5	56
Off-season vegetables										
Nursery raising										
Exotic vegetables like Broccoli										
Export potential vegetables										
Grading and standardization										
Protective cultivation (Green Houses, Shade Net etc.)										
b) Fruits										
Training and Pruning	02	13	0	13	19	2	21	32	2	34
Layout and Management of Orchards										
Cultivation of Fruit	01	12	0	12	4	2	6	16	2	18
Management of young plants/orchards										
Rejuvenation of old										

orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants	01	10	0	10	2	0	2	12	0	12
d) Plantation crops										
Production and Management technology										
Processing and value addition										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
f) Spices										
Production and Management technology										
Processing and value addition										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
III Soil Health and Fertility Management										
Soil fertility management										
Soil and Water Conservation										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Soil and Water Testing	01	10	5	15	3	0	3	13	5	18

IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Disease Management										
Feed management										
Production of quality animal products										
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	01	12	0	12	4	0	4	16	0	16
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Income generation activities for empowerment of rural Women										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
VI Agril. Engineering										
Installation and maintenance of micro irrigation systems										
Use of Plastics in farming practices										
Production of small tools and implements										
Repair and maintenance of farm machinery and implements										
Small scale										

processing and value addition										
Post Harvest Technology										
VII Plant Protection										
Integrated Pest Management	12	126	6	132	91	7	98	217	13	230
Integrated Disease Management	07	91	14	105	19	4	23	110	18	128
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
VIII Fisheries										
Integrated fish farming										
Carp breeding and hatchery management										
Carp fry and fingerling rearing										
Composite fish culture										
Hatchery management and culture of freshwater prawn										
Breeding and culture of ornamental fishes										
Portable plastic carp hatchery										
Pen culture of fish and prawn										
Shrimp farming										
Edible oyster farming										
Pearl culture										
Fish processing and value addition										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production										
Organic manures production										
Production of fry and fingerlings										
Production of Bee-colonies and wax sheets										
Small tools and										

implements										
Production of livestock feed and fodder										
Production of Fish feed										
X Capacity Building and Group Dynamics										
Leadership development										
Group dynamics	01	17	0	17	0	0	0	17	0	17
Formation and Management of SHGs										
Mobilization of social capital	05	63	4	67	24	1	25	87	5	92
Entrepreneurial development of farmers/youths	03	28	5	33	22	0	22	50	5	55
WTO and IPR issues	01	0	0	0	15	2	17	15	2	17
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
TOTAL	**45**	**488**	**51**	**539**	**252**	**22**	**274**	**740**	**73**	**813**
(B) RURAL YOUTH										
Mushroom Production	01	5	5	10	10	7	17	15	12	27
Bee-keeping	01	0	0	0	16	0	16	16	0	16
Integrated farming										
Seed production										
Production of organic inputs										
Integrated Farming										
Planting material production										
Vermi-culture	01	29	0	29	6	0	6	35	0	35
Sericulture										
Protected cultivation of vegetable crops										
Commercial fruit production										
Repair and maintenance of farm machinery and implements										
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Value addition	01	0	9	9	0	9	9	0	18	18
Production of quality animal products										
Dairying										
Sheep and goat										

rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production	01	5	0	5	5	0	5	10	0	10
Ornamental fisheries										
Para vets										
Para extension workers										
Composite fish culture	01	15	1	16	16	0	16	31	1	32
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts	02	0	37	37	0	7	7	0	44	44
TOTAL	**08**	**54**	**52**	**106**	**53**	**23**	**76**	**107**	**75**	**182**
(C) Extension Personnel										
Productivity enhancement in field crops	01	8	0	8	0	0	0	8	0	8
Integrated Pest Management	05	56	1	57	05	0	05	61	1	62
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Formation and Management of SHGs	01	16	0	16	0	0	0	16	0	16
Group Dynamics and farmers organization										
Information networking among farmers	01	7	0	7	0	0	0	7	0	7
Capacity building for ICT application										
Care and maintenance of farm machinery and implements										
WTO and IPR issues	01	7	0	7	1	0	1	8	0	8
Management in	01	6	0	6	0	0	0	6	0	6

farm animals										
Livestock feed and fodder production										
Household food security										
Women and Child care										
Low cost and nutrient efficient diet designing	01	7	0	7	0	0	0	7	0	7
Production and use of organic inputs										
Gender mainstreaming through SHGs										
Agroforestry										
TOTAL	**11**	**107**	**01**	**108**	**6**	**0**	**6**	**113**	**01**	**114**

(D) Vocational training programmes for Rural Youth

Crop / Enterprise	Date	Training title*	Identified Thrust Area	Duration (days)	No. of Participants			Self employed after training			No. of persons employed else where
					Male	Female	Total	Type of units	Num. of units	No. of persons employed	
Poultry	3-12-12 to 4-12-12	Backyard Poultry	Vocational Opportunities for rural youths	2 days	10	0	10	Back-yard Poultry	32	32	-
Fish production	30-10-12 to 31-10-12	Composite fish culture	Vocational Opportunities for rural youths	2 days	31	1	32				
Vermi-compost	23-7-12 to 24-7-12	Vermicomposting & vermiculture techniques	Vocational Opportunities for rural youths	2 days	35	0	35	-	-	-	-
Clothing	26-11-12 to 30-11-12	Knitting	Vocational Opportunities for rural youths	5 days	0	21	21	-	-	-	-
Rural Craft	12-9-12 to 14-9-12	Soft toy making	Vocational Opportunities for rural youths	3 days	0	23	23				
Mushroom Production	14-1-13 to 17-1-13	Mushroom Production	Vocational Opportunities for rural youths	4 days	15	12	27				
Value added products	9-4-12 to 11-4-12	Mushroom, fruits & vegetables	Vocational Opportunities for rural youths	3 days	0	18	18				
Bee Keeping	12-4-12 to 14-4-12	Bee keeping	Vocational Opportunities for rural youths	3 days	16	0	16	-	-	-	-

(E) Sponsored Training Programmes:

Sl. No	Date	Title	Discipline	Thematic area	Duration days	Client	No. of courses	No. of Participants									Sponsoring Agency	Amount of fund received (Rs.)
								Others			SC/ST			Total				
								M	F	T	M	F	T	M	F	T		
1.																		
Total							01											

3.4. Extension Activities (including activities of FLD programmes)

Sl. No.	Nature of Extension Activity	Purpose/ topic and Date	No. of activities	Participants											
				Farmers (Others) (I)			(Farmers) SC/ST (II)			Extension Officials (III)			Grand Total (I+II+III)		
				Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
1.	Field day	Maize 20-09-12 & 5-10-12, 10-10-12	03	9	47	56	41	10	51	00	00	00	50	57	107
2.	Field day	Paddy 26-10-12	01	12	9	21	3	3	6	00	00	00	15	12	27
	Total		**4**	**21**	**56**	**77**	**44**	**13**	**57**	**0**	**0**	**0**	**65**	**69**	**134**
1.	Kisan Mela														
	Total														
2.	Kisan Gosthi	16-4-12	01	0	9	9	2	8	10	0	0	0	2	17	19
3.	Kisan Gosthi	5-3-13	01	1	0	1	30	0	30	0	0	0	31	0	31
	Total		**02**	**1**	**9**	**10**	**32**	**8**	**40**	**0**	**0**	**0**	**33**	**17**	**50**
4.	Exhibition														
5.	Film Show														
6.	Method Demonstrations														
7.	Farmers Seminar														
8.	Workshop	T&V 20-4-12, 13-6-12, 22-8-12, 18-10-12, 11-12-12,	05	0	0	0	0	0	0	56	2	58	56	2	58
9.	Group meetings														
10.	Lectures delivered as resource persons														
11.	Newspaper coverage		47												

12.	Radio talks	Apr 10, 21, May 3, 25, June 12, 19, July 2, 14, Aug 22, Sep 12, Oct 4,7, 15, Nov 6.11,15,29, Dec 23, Jan 08	19												
13.	TV talks														
14.	Popular articles														
15.	Extension Literature														
16.	Advisory Services														
17.	Scientific visit to farmers field		121												
18.	Farmers visit to KVK		270												
19.	Diagnostic visits														
20.	Exposure visits														
21.	Ex-trainees Sammelan														
22.	Soil health Camp														
23.	Animal Health Camp														
24.	Agri mobile clinic														
25.	Soil test campaigns														
26.	Farm Science Club Conveners meet														
27.	Self Help Group Conveners meetings														
28.	Mahila Mandals Conveners meetings														
29.	Celebration of important days	Parthenium week = 18th Aug.													
36	Awareness Camps	16-6-12 ,21-8-12, 23-8-12, 27-8-12, 11-10-12, 30-11-12,	06	66	83	149	12	7	19				78	90	168
	Grand Total		**468**	**88**	**148**	**236**	**88**	**28**	**116**	**56**	**2**	**58**	**232**	**178**	**410**

3.5 Production and supply of Technological products: Nil

PLANTING MATERIALS

Major group/class	Crop	Variety	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
VEGETABLES					
	Tomato	Kuber Geeta high	**200**	**Provided to the farmers free of cost**	**10**
	Knol-khol	Purple Vienna	**500**		**25**
FOREST SPECIES	Strawberry	Chandeler	**1000**		**20**
	Poplar	-	**15**		**5**

SUMMARY

Sl. No.	Major group/class	Quantity (Nos.)	Value (Rs.)	Provided to No. of Farmers
1	VEGETABLES	700	-	35
2	FRUITS	1000	-	20
3	FOREST SPECIES	15	-	5
	TOTAL	**1715**		**60**

3.6. Literature Developed/Published (with full title, author & reference)

(A) KVK News Letter ((Date of start, Periodicity, number of copies distributed etc.): N.A.

(B) Literature developed/published

Item	Title	Authors name	No. of copies
Book publications/Research Papers	**Book :** Recent Trends in Plant Disease Management in India. Published by Kalyani Publisher, Ludhiana, India PP. 468.	**Dr. Shahid Ahamad (2012)**	
	Terminology on Plant Pathology. Jaya Publishing House. Delhi-1100195, India PP 167.	**Dr. Shahid Ahamad** and Ali Anwar (2013)	
	Breeding of Ricebean (*Vigna Umbellata*) PP 64 Publisher: LAP-LAMBERT, Germany	**Dr. Sanjeev Kumar**	
	Breeding of rice (*Oryza sativa* L) PP 152 Publisher: LAP-LAMBERT, Germany	**Dr. Sanjeev Kumar**	
	Genetics of Linseed/Flax PP 124 Publisher: LAP-LAMBERT, Germany	**Dr. Sanjeev Kumar**	
	Mutagenic effectiveness and efficiency in Macrosperma Lentil (Lens culinaris Medik.) under mid hills of North-Western Himalayas. Himachal Journal of Agricultural Research (Accepted).	**Sanjeev Kumar and R K Chahota** (2012).	
	Combining ability analysis for seed and	**Sanjeev Kumar**	

	seedling traits in indigenous maize (Zea mays L) germplasm of Himachal Pradesh. The Madras Agricultural Journal MAJ Vol. 99 (10-12): 645-48.	Jagdish Kumar and Kiran (2012)	
	Economic Impact of Front Line Demonstrations (FLD's) in Poonch district of Jammu & Kashmir. Economic Affairs 57(1): 99-106.	Sharma, P.K., **Kumar Sanjeev**, Ishar AK, Parkash, S. and Jamwal, S.S. (2012)	
	Genetic variability, Association for Morph-Physio Trails and Screening of Genotypes against Pea Seed Borne Mosaic Virus in Lentil. Indian Journal of Food Legumes (Accepted).	**Sanjeev Kumar**, Sanjay Khar, Vishal Mahajan, Pawan Kumar, Arvind Kumar Isher, Suraj Parkash and S. S. Jamwal (2012)	
	Ethnobotanical inventory on medicinal plants of North Western Himalayas. Journal of Krishi Vigyan Vol 1(1): (July -December, 2012).	Vishal Mahajan, Amrish Vaid, A.P. Singh and **Sanjeev Kumar** (2012)	
	Gene action study in indica x japonica derivatives of rice. Presented in 2nd J&K agricultural Science congress held in SKUAST-Jammu wef 15th to 17th December, 2012 at page no. 178.	**Sanjeev Kumar** (2012)	
	Role of maize hybrids for increasing the productivity in Poonch presented in 2nd agricultural science congress w.e.f. 15th to 17th December, 2012 at page no. 08.	**Sanjeev Kumar**, Shahid Ahamad, Pawan Kumar (2012)	
	Screening of rice hybrids against rice blast under foot hills of North Western Himalayas' presented in symposium of emerging trends in Plant Pathology held at SKUAST Jammu w.e.f. 19 to 20th December, 2012 at page no. 53.	**Sanjeev Kumar** (2012)	
	Seed discolouration in rice grains in the intermediate zone of Jammu region. In: Nat.Symposium on Emerging Trends in Plant Pathology organized by Indian Society of Mycology and Plant Pathology at SKUAST-Jammu in December 19-20,2012	**Shahid Ahamad** (2012).	
	"Management of Chilli wilt" in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	**Arvind kumar Ishar,** Suraj Parkash, Pawan Sharma, Anamika jamwal, Sonika Jamwal	
	"Management of Phytopthora blight in Tomato" in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	**Arvind kumar Ishar,** Suraj Parkash, Pawan Sharma, Anamika jamwal, Sonika Jamwal	

	Evaluation of Bio Agents against Pythium Apradnidermatum causing damping off of chilli. in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	Anamika Jamwal, Sonika Jamwal, Amrish vaid and **Arvind Ishar**	
	Management of Ring Rust or Aonta Rust caused by Ravenelia Emplicae with chemicals in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	Sonika Jamwal, Anamika Jamwal and **Arvind Ishar**	
	On Farm Trial : An Aprroach for management of late blight in Potato in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	Anamika jamwal, Amrish vaid, Sonika Jamwal, Brijesg Airawat and **Arvind Ishar**	
	Management of Tomato wilt caused by Fusarium Oxysporum f. sp. Lycopersici with Trichoderma Spp. in National Symposium on "Emerging Trends in Plant Pathology" 19-20 Dec 2012 at SKUAST-Jammu	Sonika Jamwal, Anamika Jamwal, **Arvind Ishar**	
	Incidence of blister beetle(Mylabris Pusturata) : An emerging threats to Maize production in Poonch district in 2nd J&K Agriculture Science Congress 15-17 Dec. 2012 at SKUAST-J pp.223		
Total	12	**-**	-
PAPERS PUBLISHED IN COMPEDIUMS	Plant diseases management in Kharif Crops. KVK, Poonch, pp 45.	**Dr. Shahid Ahamad**	
Total			
POPULAR ARTICLES	➢ Maize : as Kharif Cereal forage for Live stock of Hilly areas of Poonch Region, Krishi Vigyan Kendra, Poonch-185101, SKUAST-Jammu (J.&K.). ➢ BAJRA: as Kharif Cereal forage for Live stock of Hilly areas of Poonch region , Krishi Vigyan Kendra, Poonch-185101, SKUAST-Jammu (J.&K.). ➢ Jowar (Sorghum): as Kharif Cereal forage for Live stock of Hilly areas of Poonch Region, Krishi Vigyan Kendra, Poonch-185101. SKUAST-Jammu (J.&K.). ➢ Oat : as Rabi Cereal forage for Live Stock of Hilly areas of Poonch Region,, Krishi Vigyan Kendra, Poonch-185101, SKUAST-Jammu (J.&K.).	**Dr. Shahid Ahamad** (2012). **Dr. Shahid Ahamad** (2012). **Dr. Shahid Ahamad** (2012). **Dr. Shahid Ahamad** (2012).	

	➢ Grasses for Live Stock of Hilly areas of Poonch region, Krishi Vigyan Kendra, Poonch-185101, SKUAST-Jammu (J.&K.).	**Dr. Shahid Ahamad** (2013).	
	Economic Impact of Front Line Demonstrations on cereals in Poonch district Jammu & Kashmir 2012. *Economic Affairs: 57(1) 99-106.*	Pawan Kumar Sharma, Sanjeev Kumar, **Arvind Ishar**, Suraj Parkash and Sudhir Jamwal,	
Total			
GRAND TOTAL	**23**	**-**	**-**
Leaflets/Pamphlets	1) Technical Bulletins.:- Khumb ke beej ki Gunvatta evm Pahchaan .	Sachin Gupta V.K Razdan, Moni gupta, **Arvind Ishar**, Deepak Kumar, Shabir Ahamed, Ranbir Singh.	

(C) Details of Electronic Media Produced: Nil

3.7. Success stories/Case studies, if any (two or three pages write-up on each case with suitable action photographs):

Enhanced Maize productivity in Poonch district:

KVK play major role for increasing the productivity of Maize in Poonch. Earlier the farmers were not aware about hybrids (mainly single cross hybrids). Most of the farmers were growing composites and outdated hybrids which are less yielding and susceptible to biotic and abiotic stresses.

Firstly the areas were identified by SMSs of KVK,Poonch and found that more than 90% area was sown by composites, synthetics, double cross hybrids, etc. To make the farming community aware, farmers' training programmes were conducted on "Scientific cultivation of maize" in which various important aspects of maize were discussed with them (viz. management of biotic and abiotic stresses, single cross hybrids, use of weedicides, insecticides etc). In 2008, six hectare area were sown under FLDs of Maize by KVK,Poonch and it was observed that 32.35% higher yield was recorded over local check. Average yield was 48.72 qt./ha which is higher than district maize productivity 194.45qt./ha) and national productivity of maize. In 2009, 32 hectare of area was covered under FLDs benefitting 100 farmers and average productivity of FLDs was 23.12 qt/ha which is 50% higher than the yield of local check and also higher than the state and national productivity. In 2011, FLDs of maize wase conducted in 06 ha area and hybrid was supplied PA 4794. It was found that average yield of maize 35.27 q/ha which was 26.51% higher than the yield of local check.

During 2012, 10 hectare area was covered for conducting Maize FLDs and same hybrid was supplied as in 2011. It was observed that PA 4794 gave average yield 32.65 q/ha which is higher than district (18.64 q/ha) maize yield as well as state and national productivity.

To sum up it was found that by the intervention of KVK, Poonch average maize yield of FLDs were much higher than the district state and national productivity. It was only happened by the hard working, honesty & dedication towards duty by Scientific staff of KVK Poonch. "Now we can say that KVK has played vital role for increasing the productivity of maize in Poonch."




3.8 Give details of innovative methodology/technology developed and used for Transfer of Technology during the year: Nil

3.9 Give details of indigenous technology practiced by the farmers in the KVK operational area which can be considered for technology development (in detail with suitable photographs) - Nil

3.10 Indicate the specific training need analysis tools/methodology followed for Identification of courses for

Farmers/farm women

- Intensive and extensive surveys are conducted to identify the training needs of farmers and farm women keeping in view the need of area, agro-climatic conditions, interest of farmers, socio-economic condition, kinds of crops being raised.
- The response of trainees during training programme are analyzed to bring about improvement in training programme to be conducted in future.
- The suggestions and feed back of farmers during field days, training camps, Kisan ghosties were taken into consideration.

Rural Youth

- At the start of the training, the participants are supplied with the questionnaire for testing their knowledge level and on the basis of that training methodologies are finalized.

In-service personnel

- Performa given to the trainees were filled and returned back to KVK, Poonch and with the collected information, percent adoption is calculated.

3.11 Field activities

i.	Number of villages adopted:	02	
ii.	No. of farm families selected:	17	
iii.	No. of survey/PRA conducted		02

3.12. Activities of Soil and Water Testing Laboratory

Status of establishment of Lab : N.A.

4.0 IMPACT

4.1. Impact of KVK activities (Not to be restricted for reporting period).

1. The farmers of the district were facing huge losses in wheat due to the weeds and were unaware of the weedicides application in wheat. KVK through its FLDs, demonstrated the use of weedicide by supplying pre emergence weedicides. As a result, losses due to weeds in wheat have been reduced considerably.
2. Orchards of horticulture crops mostly remained un-managed in the district. Due to awareness camps and Front Line demonstrations conducted and regular visits by SMS of KVK, farmers are now applying recommended fertilizers doses to the fruit trees and are getting higher returns.
3. In maize crop, farmers were mostly applying higher seed rate i.e. up to 100 kg per hectare. With the intervention of KVK, farmers are now using optimum seed rate i.e. up to 25 kg/ha and in 20 kg/ha in case of hybrids. Moreover, in paddy farmers are now applying optimum dose of fertilizers and in wheat, weedicide application is also practiced by them.
4. With the intervention of KVK and trainings conducted in different villages, farmers are now using seed after treatment, especially in vegetable crops for management of seed borne diseases.

4.2. Cases of large scale adoption

- Yet to be assessed

4.3 Details of impact analysis of KVK activities carried out during the reporting period: N.A.

LINKAGES

5.1 Functional linkage with different organizations

Name of organization	Nature of linkage
1. State Department of Agriculture, Poonch	Participation in meeting, conducting training programmes, invitation of lectures, awareness camps
2. State Department of Horticulture	Participation in meeting, conducting training programmes, awareness camps
3. State Animal Husbandry Department	Participation in meeting, invitation of lectures, Trainings, awareness camps
4. State Sheep Husbandry Department	Participation in meeting, conducting training programmes, Trainings, awareness camps
5. Co-operatives	In-service training
6. State Department of Floriculture	Training Programmes
7. NGOs	Awareness camp in far flung area

5.2 List special programmes undertaken by the KVK, which have been financed by State Govt./Other Agencies: Nil

5.3 Details of linkage with ATMA

a) Is ATMA implemented in your district - Yes, Implemented

S. No.	Programme	Nature of linkage	Remarks
1.	Kissan Melas	Research-Extension-Farmer linkage	-
2.	Farmers-Scientists Interaction	Research-Extension-Farmer linkage	-

5.4 Give details of programmes implemented under National Horticultural Mission

- Nil

5.5 Nature of linkage with National Fisheries Development Board: Nil

6.1 Performance of demonstration units (other than instructional farm)

Sl. No.	Demo Unit	Year of estt.	Area	Details of production			Amount (Rs.)		Remarks
				Variety	Produce	Qty.	Cost of inputs	Gross income	
	Under Construction								

Performance of instructional farm (Crops) including seed production

Name Of the crop	Date of sowing	Date of harvest	Area (ha)	Details of production			Amount (Rs.)		Remarks
				Variety	Type of Produce	Qty.	Cost of inputs	Gross income	
Cereals									
Rice									
Pulses									
Pigeonpea									
Oilseeds									
Fibers									
Spices & Plantation crops									
Floriculture									
Fruits									
Vegetables									
Others (specify)									

6.3 Performance of production Units (bio-agents / bio pesticides/ bio fertilizers NIL

Sl. No.	Name of the Product	Qty	Amount (Rs.)		Remarks
			Cost of inputs	Gross income	
	-				

6.4 Performance of instructional farm (livestock and fisheries production) NIL

Sl. No	Name of the animal / bird / aquatics	Details of production			Amount (Rs.)		Remarks
		Breed	Type of Produce	Qty.	Cost of inputs	Gross income	
	-						

6.5 Rainwater Harvesting

Training programmes conducted by using Rainwater Harvesting Demonstration Unit

NIL

Date	Title of the training course	Client (PF/RY/ EF)	No. of Courses	No. of Participants including SC/ST			No. of SC/ST Participants		
				Male	Female	Total	Male	Female	Total
		-							

Seed produced using Rainwater Harvesting Demonstration Unit - Nil

Name of the crop	Quantity of seed produced (q)

Plant materials produced using Rainwater Harvesting Demonstration Unit - NIL

Name of the crop	Number of plant materials produced

Other activities organized using Rainwater Harvesting Demonstration Unit - NIL

Activity	No. of visitors
Visit of farmers	
Visit of officials	

6.5 Utilization of hostel facilities

Yet to be handover.

7. FINANCIAL PERFORMANCE

7.1 Details of KVK Bank accounts

Bank account	Name of the bank	Location	Account Number
With Host Institute	-	-	-
With KVK	J&K Bank	Poonch	Revolving fund: 22987 S/B: 22969

7.2 Utilization of funds under FLD on Oilseed *(Rs. In Lakhs)* - *Nil*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2012
	Kharif 2011	Rabi 2011 – 12	Kharif 2011	Rabi 2011-12	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	Nil		Nil		Nil

7.3 Utilization of funds under FLD on Pulses *(Rs. In Lakhs)* - *Nil*

Item	Released by ICAR		Expenditure		Unspent balance as on 1st April 2013
	Kharif 2012	Rabi 2012 –13	Kharif 2012	Rabi 2012-13	
Inputs	-	-	-	-	-
Extension activities	-	-	-	-	-
TA/DA/POL etc.	-	-	-	-	-
TOTAL	Nil		Nil		Nil

7.4 Utilization of funds under FLD on Cotton *(Rs. In Lakhs)* - NIL

Item	Released by ICAR	Expenditure	Unspent balance as on 1st April 2013
	Kharif 2012	Kharif 2012	
Inputs	N.A.		
Extension activities			
TA/DA/POL etc.			
TOTAL			

7.5 Utilization of KVK funds during the year 2012-13 (upto March 2013)

S. No.	Particulars	Sanctioned (lacs)	Release (lacs)	Expenditure (Rs.)
A. Recurring Contingencies				
1	**Pay & Allowances**	58.65	58.65	57.37
2	**Traveling allowances**	1.00	1.00	0.98
3	**Contingencies**	5.00	5.00	4.80
A	Stationery, telephone, postage and other expenditure on office running, publication of Newsletter and library maintenance (Purchase of News Paper & Magazines)			
B	POL, repair of vehicles, tractor and equipments			
C	Meals/refreshment for trainees (ceiling up to Rs.40/day/trainee be maintained)			
D	Training material (posters, charts, demonstration material including chemicals etc. required for conducting the training)			
E	Frontline demonstration except oilseeds and pulses (minimum of 30 demonstration in a year)			
F	On farm testing (on need based, location specific and newly generated information in the major production systems of the area)			
G	Training of extension functionaries			
H	Maintenance of buildings			
I	Establishment of Soil, Plant & Water Testing Laboratory			
J	Library			
TOTAL (A)		**64.65**	**64.65**	**63.15**
B. Non-Recurring Contingencies				
1	**Works**			
2	**Equipments including SWTL & Furniture**			
3	**Vehicle** (Four wheeler/Two wheeler, please specify)	-	-	-
4	**Library** (Purchase of assets like books & journals)	-	-	-
TOTAL (B)		-	-	-
C. REVOLVING FUND		**-**	**-**	-
GRAND TOTAL (A+B+C)		**64.65**	**64.65**	**63.15**

7.5 Status of revolving fund for the three years.

(Amount in Rupees)

Year	Opening balance as on 1st April	Income during the year	Expenditure during the year	Net balance in hand as on 1st April of each year
April 2010 to March 2011	39,030	211858	6,403	2,44,485
April 2011 to March 2012	2,44,485	88679	8656	3,24,508
April 2012 to March 2013	3,24,508	1,04,902	2496.50	76,913.50 + FDR(3,50,000)

8.0 Please include information which has not been reflected above (write in detail).

8.1 Constraints

(a) **Administrative**

- Limited mobility due to disturbed area.

(b) **Financial**

- Funds are not available in time.
- Separate funds are required for incomplete boundary wall of KVK.
- Funds for watershed are required for life saving irrigation.
- Funds for Bore well are required for assured irrigation.
- Funds for Demonstration units viz; Vermicompost, apiry and Mushroom production unit.

(c) **Technical**

- Quality inputs (seeds, pesticides and fertilizers) are not easily available in the area and mostly rely on other institutes and states.

Annexures I (District Profile)

1. General census

Population	3.71	Lacs as per 2001 Census
Number of Tehsils	04	--
Number of Blocks	06	--
Number of Panchayats	51	--
Number of villages	178	--
Number of Households	60235	--
Area	1,14387.00	ha
Area under forests	21,039.18	ha
Land put to Non - Agriculture Use	19,010.20	ha
Barren and Un-cultivated Land	16,796.00	ha
Permanent Pastures & Grazing Land	11,240.00	ha
Miscellaneous Tress etc	22,994.14	ha
Net Sown Area (Kharif)	30,570.00	ha
Net Sown Area (Rabi)	20,642.00	ha
Gross Sown Area (Kharif & Rabi)	51,212.00	ha
Cropping Intensity	166%	
Irrigated Area (Kharif)	4,250.00	ha
Irrigated Area (Rabi)	580.00	ha
Un-Irrigated Area (Kharif)	26,520.00	ha
Un-Irrigated Area (Rabi)	19,912.00	ha
Percentage (Irrigated area)		
Kharif	13.90%	
Rabi	2.80%	

2. Agricultural and allied census

PRODUCTION AND PRODUCTIVITY OF PRINCIPAL CROPS 2011-12

Crop	Season	Area (h)	Production (MT)	Avg Yield (Q/ h)
Paddy	Kharif 2011	4,300	7037.38	16.37
Maize	Kharif 2011	24,000	46680	19.45
Wheat	Rabi 2008	15,000	NA	NA

CROP WISE AREA 2011-12

S.NO	Name of Crop	Season Wise Area in h		
		Kharif	Rabi	Total
1.	Paddy	4300	-	4300
2.	Maize	24000	-	24000
3.	Wheat	-	15000	15000
4.	Pulses	1000	500	1500
5.	Oil Seeds	270	4000	4270
6.	Fodder	500	1000	1500
7.	Vegetable	1000	600	1600
8.	Fallow Land	118	NA	118
Total		**31585**	**30593**	**62178**

AREA COVERED UNDER DIFFERENT CROPS

S.No	Crops	Unit	2003-04	2004-05	2005-06
1	Paddy	ha	11821	11,130	11,040
2	Maize	ha	13920	14,010	14,000
3	Wheat	ha	20170	16,410	20,060
4	Oilseeds	ha	4150	3,710	3,815
5	Vegetable	ha	560	1,000	1,025
6	Fodder	ha	1570	1,750	1,680
7	Pulses	ha	2947	2,450	2,495

AREA AND PRODUCTION OF PRINCIPAL FRUIT CROPS IN POONCH –2010-11

S.No.	Item	Area (Hectare)	Production (M. Tonnes)
Fresh Fruits			
1.	Apple	1800.00	3280.00
2.	Pear	1650.00	7654.00
3.	Apricot	935.00	89.00
4.	Peach	580.00	556.00
5.	Plum	1266.00	1612.00
6.	Cherry	3.00	1.00
7.	Grapes	1.00	1.00
8.	Citrus	330.00	283.00
9.	Olive	21.00	
10.	Other Fresh	1445.00	660.00
	Total	**8031.00**	**15136.00**
Dry Fruits (08-09)			
11.	Walnut	7310.00	6880.00
12.	Almond	42.00	1.00
13.	Pecan nut	283.00	5.00
	Total	**7635.00**	**6886.00**
	Grand Total	**15400.00**	**22022.00**

LIVESTOCK POPULATION IN POONCH – 2007-08

Cattle Population	Local (Desi)	Cross Bred	Total
Male	64,362	15,638	80,000
Female	64,032	25,476	89508
Total	12,83,94	41,114	169508
Buffalo Population			
Male	15,894	-	15,894
Female	17,23,81	-	17,23,81
Total	18,82,75		18,82,75
Grand Total	**31,66,69**	**41,114**	**35,77,83**

STATUS OF ANIMAL PRODUCTS – 2007-08

S.No.	Item	Production
1.	Milk	82.90,000 MT
2.	Mutton	19.99 Lac kg
3.	Chicken	2.70 Lac kg
4.	Wool	4.91 Lac kg
5.	Eggs	680 Lacs

SHEEP & GOATS REARING IN POONCH – 2007-08

Sheep Rearing			
	Local	**Cross Bred**	**Total**
	102007	180964	**282971**
Goat Rearing			
	170090	-	**170090**
	Grand Total		**453061**

POULTRY POPULATION IN POONCH- 2007-08

Breed	**Numbers**
Desi	96915
Fouls	190061
Improved	44283
Total	**331259**

FISHERIES PRODUCTION IN POONCH -2007-08

Riverine Fish production	153.25 tonnes
No. of Government farms	01
Production in Government farm	4.443 tonnes
No. of private ponds	23
Production in private ponds	26.30 tonnes

3. **Agro-climatic zones**

   a. Sub-Tropical (Up to 800 m)

   b. Intermediate lower (800 to 1500)

   c. Intermediate higher (Above 1500)

4. **Agro-ecosystems**

AES-I	Plain topography with thick soil and canal irrigated
AES-II	Slopy land with thin soil cover and rainfed
AES-III	Thick growth of conifers & deciduous forests

5. **Major and micro-farming systems**

S. No	Farming system/enterprise
1	Maize – Wheat
2	Maize – Potato
3	Maize – Berseem
4	Rice – wheat
5	Rice – Fodder

6. **Major production systems**

1. Maize based: Maize + Rajmash .
2. Maize based: Maize-Wheat, Maize- Mustard,
3. Paddy based: Paddy - Berseem

7. **Major agriculture and allied enterprises**

Agriculture: Maize, Paddy,

Horticulture: Plum, Walnut, Pear

Animal Husbandry: Cow, Buffalo, Sheep & Goat, backyard poultry

Annexure-II

Agro-ecosystem Analysis of the focus/target area

1. **Names of villages, focus area, target area etc.**

   Survey was conducted in villages like Madari and Chhatral. The aim of survey was to identify of problems related to agriculture of small and marginal farmers of the area.

2. **Survey methods used**

   Survey was conducted by pre-structured questionnaire and by PRA

3. **Various techniques used and brief documentation of process involved in applying the techniques used like release transect, resource map, etc.**

   Transect walk taken along with farmers to observe the facts directly on the fields. The main observations were made about problems related to two main crops of the district i.e. maize and paddy. Their source of irrigation and cropping pattern was also observed.

4. Analysis and conclusions

5. About 89% of the farmers were associated with agriculture and 72% came under marginal category. Maize and Wheat were the two major crops grown under rainfed conditions.

6. List of location specific problems and brief description of frequency and extent/ intensity/severity of each problem

   - The inorganic fertilizers were not available at the time of sowing. Farmers were also unaware of the recommended dose to be used in major cereals i.e. maize and wheat.
   - Scarcity of green fodder is the major problem.
   - The farmers are not fully acquainted with the application of plant protection measures.
   - The practice of decomposition of farm waste and animal excreta was unscientific.
   - Farmers were not able to get fair price for their produce due to lack of any organized market.

- Lack of farmers' interest in Oilseed and Pulses due to high risk involved as area is rainfed. Also, due to the scarcity of fodder, majority of the farmers cultivate wheat and sarson for fodder purposes.
- Lack of awareness about income generating activities like mushroom cultivation, bee keeping, poultry, post harvest and value addition.

7. Matrix ranking of problems: -
8. List of location specific thrust areas
    - Integrated Nutrient management in Maize
    - Integrated pest management in Maize, mustard and vegetables
    - Introduction of high yielding varieties of fodder
    - Adoption of income generating units other than agriculture
9. List of location specific technology needs for OFT and FLD
    - Availability of hybrids
    - Line sowing in Maize and wheat
    - Provision of high yielding fodder varieties
    - Provision of post harvest processing units
10. Matrix ranking of technologies: -
11. List of location specific training needs
    - Training on crop specific nutrient management
    - Integrated pest management
    - Management and marketing of fruit crops
    - Mushroom cultivation and bee-keeping

Technology Inventory and Activity Chart - III

Include

1. Names of research institutes, research stations, regional centres of NARS (SAU and ICAR) and other public and private bodies having relevance to location specific technology needs
    - VPKAS, Almora
    - IARI Regional Station, Karnal
2. Inventory of latest technology available

Sl. No	Technology	Crop/ Enterprise	Year of release or recommendation of technology	Source of technology	Reference/ citation
1.	Variety	**Maize** HQPM-1 Pro Agro 4794	2005 2005	- CSS, Hisar - Poonch Cooperative Society	-
2.	Variety	**Wheat** HS-490	2009	IARI Regional station, Karnal Wheat Research Station Shimla	-
3.	Nutrient Management	Paddy K-448	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Kharif crops, 2007
7.	Nutrient Management	Black gram Uttara	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Kharif crops, 2007
9.	Nutrient Management	Lentil L-4076	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Rabi crops, 2007
10.	Nutrient Management	Mustard Pusa Bold	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Rabi crops, 2007
11.	Nutrient Management	Chickpea BG-1103	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Rabi crops, 2007
12.	Nutrient Management	Gobhi Sarson DGS-1	2007	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Rabi crops, 2007
13.	Breed	Chicks Vanaraja	-	-	-
15.	IPM	Rajmash	-	Package of practices, SKUAST-J	Package of practices, SKUAST-J for Kharif crops, 2007

3. Activity Chart

Crop/Animal/ Enterprise	Problem	Cause	Solution	Activity	Reference of Technology
Maize	- Low Productivity	- Imbalance use of fertilizers - Use of old variety - Broadcasting of seed	- Introduction of hybrid seed - Line sowing in Maize	1. FLDs laid on Single cross. hybrids in maize 2. FLDs laid on line sowing in maize.	-
Paddy	- Low Productivity	- Imbalance use of fertilizers	- Nutritional Management in paddy	1. FLDs laid on Nutritional management in Paddy	-
Wheat	- Low Productivity - Weed incidence	- Imbalance use of fertilizers - Use of old variety	- Introduction of High yielding varieties - Weed Management	1. FLDs laid on High yielding varieties like HS-490 and PBW-343. 2. FLDs and OFTs conducted on weed management	-
Lentil	- Low Productivity	- Imbalance use of fertilizers - Use of old variety	- Introduction of High yielding varieties	1. FLDs laid on High yielding varieties like L-4076	
Black gram	- Low Productivity - Not sowing as sole crop	- Imbalance use of fertilizers - Use of old variety	- Nutritional Management - Sowing as sole crop	1. FLDs laid on Nutritional management in mash, sown as sole crop	
Mustard	- Low Productivity	- Imbalance use of fertilizers	- Nutritional Management	1. FLDs laid on Nutritional management	
Chickpea	- Low Productivity	- Imbalance use of fertilizers	- Nutritional Management	1. FLDs laid on Nutritional management	
Gobhi Sarson	- Low Productivity	- Imbalance use of fertilizers	- Nutritional Management	1. FLDs laid on Nutritional management	
Chicks	- High moirtality of backyard poultry	- Low temperature	- Introduction of improved breeds	1. FLDs laid on Vanaraja breed	

1. Details of each of the technology under Assessment, Refinement and demonstration

Include

a. Detailed account on varietal/breed characters for each of the variety/breed selected for FLD/OFT.

Maize

HQPM-1: HQPM-1 recommended for hilly areas, have maturity period of 90 to 100 days. It contains more amino acids and has average potential yield of about 67q/ha.

Paddy (K-448): The average potential yield of the variety is 35-40 q/ha with maturity period of 140-160 days.

Wheat (HS-490): The variety has Harvest index of 4.5 with maturity period of 140-145 days and is also resistance to rusts and smut.

Black gram (Uttara): It is a mid duration variety with maturity period of 100-120 days and has average yield of 16-18q/ha with harvest index of 3.5 to 4.

Lentil (L-4076): The average potential yield of the variety is 14-16 q/ha with maturity period of 90-120 days. The average weight of 100 seeds range from 2.5 to 3g.

Mustard (RSPR-1): The potential yield of the variety is 16-18 q/ha with 44% oil content and maturity period of 130 to 135 days.

Chickpea (BG-1103): The average potential yield of the variety is 14 q/ha with maturity period of 130-140 days.

Gobhi Sarson (DGS-1): The potential yield of the variety is 20-22 q/ha with 42% oil content and maturity period of 140 to 145 days.

8. Details of technologies that may include formulation, quantity, time, methods of application of nutrients, pesticides, fungicides etc., for technologies selected under FLD and OFTs

- Nutritional management in Paddy, Black gram, Mustard, Chickpea and Gobhi Sarson was demonstrated as per the package of practices issued by Directorate of Extension Education, SKUAST-J in the year 2007.

Annexure III

Details of training programmes

Date	Clientele	Title of the training programme	Discipline	Thematic area	Duration Days	Venue	Other participants			Number of SC/ST			Total number of participants		
							M	F	T	M	F	T	M	F	T
21/06/2012	Farmers/ Farm Women	Fodder cultivation in Kharif	Crop Production		01	Off – campus	20	-	20	-	-	-	20	-	20
25/07/2012		Perennial Grasses Cultivation in Kills			01	Off – campus	13	-	13	10	-	10	23	-	23
04/10/2012		Effect of INM on the Productivity of Wheat Varieties			01	Off – campus	11	04	15	-	-	-	11	04	15
08/10/2012		Management of Parthenium in hills			01	Off – campus	16	-	16	-	-	-	16	-	16
07/11/2012		Year round cultivation of Fodder crops			01	Off – campus	04	02	06	07	01	08	11	03	14
03/01/2013		Silage making through green fodder crops			01	Off – campus	10	04	14	02	02	04	12	06	18
09/01/2013		Fodder cultivation techniques			01	Off – campus	06	03	09	05	-	05	11	03	14
10/07/2012		Kitchen gardening through integrated organic nutrition	Horticulture		01	Off – campus	15	-	15	-	-	-	15	-	15
29/08/2012		Role of horticulture in Diversification			01	Off – campus	12	-	12	04	02	06	16	02	18
31/08/2012		Organic farming in Vegetables			01	Off – campus	11	04	15	-	01	01	11	05	16
21/09/2012		Organic farming in Vegetables			01	Off – campus	-	-	-	25	-	25	25	-	25
22/10/2012		Cultivation of Different Ornamental Flower			01	Off – campus	10	-	10	02	-	02	12	-	12
20/12/2012		Training and Pruning of Fruit Plants			01	Off – campus	13	-	13	07	-	07	20	-	20
30/01/2013		Pruning and Training of Fruit Plants			01	Off – campus	-	-		12	02	14	12	02	14

19/04/2012		Disease free nursery raising technique			01	Off – campus	19	-	19	02	-	02	21	-	21
27/4/2012		Insect Pest Management in Apple			01	Off-Campus	14	0	14	2	0	2	16	0	16
23/05/2012		Insect Pest Management in Pear and Plum			01	Off – campus	04	01	05	04	04	08	08	05	13
28/05/2013		Management of Cutworm in Rajmash and Maize			01	Off – campus	04	-	04	18	-	18	22	-	22
03/06/2012	Farmers/ Farm Women	Farmers training programme on seed treatment in commercial farming			01	Off – campus	17	06	23	-	01	01	17	07	24
07/06/2012		Wilt management in chillies			01	Off – campus	08	03	11	04	01	05	12	04	16
08/06/2012		Insect Pest Management in Rajmash and Maize			01	Off – campus	-	-	-	25	-	25	25	-	25
14/06/2012		Insect Pest Management in Maize and Rajmash			01	Off – campus	20	-	20	-	-	-	20	-	20
20/06/2012		Insect pest and disease management in Paddy Nursery			01	Off – campus	15	-	15	05	-	05	20	-	20
22/06/2012		Insect pest and disease management in Pear and Plum			01	Off – campus	15	-	15	08	-	08	23	-	23
02/07/2012		Insect pest management in Apple			01	Off – campus	18	-	18	-	-	-	18	-	18
03/07/2012		Importance of Soil Testing			01	Off – campus	10	05	15	03	-	03	13	05	18
11/07/2012		Insect Pest and Disease Management in Paddy Nursery			01	Off – campus	08	-	08	06	-	06	14	-	14
18/07/2012		Seed treatment in commercial farming			01	Off – campus	13	03	16	03	02	05	16	05	21
19/07/2012		Insect pest management in Apple			01	Off – campus	14	-	14	01	-	01	15	-	15
04/09/2012		Selection of pesticides for successful control of pests and diseases			01	Off – campus	10	-	10	12	-	12	22	-	22
06/09/2012		Judicious use of pesticides in vegetables			01	Off – campus	09	05	14	03	01	04	12	06	18
12/09/2012		Judicious use of pesticides in vegetables			01	Off – campus	03	-	03	13	02	15	16	02	18
12/11/2012		Disease Management in Maize			01	Off –	11	02	13	01	-	01	12	02	14

						campus									
13/02/2013		Selection of Pesticides for Successful control of Pest and Diseases			01	Off – campus	15	-	15	03	-	03	18	-	18
24/04/2012		Marketing Strategies for Rabi Crops	Extension		01	Off – campus	14	-	14	02	-	02	16	-	16
30/04/2012		Income generating units for rural youth			01	Off – campus	05	-	05	11	-	11	16	-	16
09/05/2012		Loan/credit facilities for Agriculture			01	Off – campus	18	-	18	03	-	03	21	-	21
12/06/2012		Prospects of commodity future trading for farmers			01	Off – campus	14	04	18	03	-	03	17	04	21
21/08/2012	Farmers/ Farm Women	Commodity futures trading	Extension		01	Off – campus	15	05	20	03	-	03	18	05	23
27/09/2012		Marketing Strategies for Kharif Crops			01	Off – campus	08	-	08	08	-	08	16	-	16
30/10/2012		Estimation of Cost and return in field crops			01	Off – campus	17	-	17	-	-	-	17	-	17
19/11/2012		Commodity Futures Trading			01	Off – campus	-	-	-	15	02	17	15	02	17
21/11/2012		Availing Crop Insurance against Natural Calamities			01	Off – campus	-	-	-	16	01	17	16	01	17
29/11/2012		Reducing drudgery of women in agricultural operations			01	Off – campus	17	-	17	-	-	-	17	-	17
16/12/2012		Importance of fruits and vegetables in human diet	Home Science		01	Off – campus	12	-	12	04	-	04	16	-	16
12/04/2012 To 14/04/2012	Rural Youth	Bee Keeping	Entomology		03	On-campus	-	-	-	16	-	16	16	-	16
09/04/2012 to 11/04/2012		Vocational training on value added products of fruits, vegetables and mushroom	Horticulture		03	On-campus	-	09	09	-	09	09	-	18	18
23/07/2012 & 24/07/2012		Vocational training on vermicomposting and vermiculture techniques	Plant Pathology		02	On-campus	29	-	29	06	-	06	35	-	35
12/09/2012 To 14/09/2012		Vocational training on Soft toys making			03	On-campus	-	16	16	-	07	07	-	23	23

30/10/2012 & 31/10/2012		Composite Fish culture	Animal husbandry		02	On-campus	15	01	16	16	-	16	31	01	32
26/11/2102 To 30/11/2012		Vocational training programme on Knitting			05	On-campus	-	21	21	-	-	-	-	21	21
03/12/2012 & 04/12/2012		Vocational training programme on poultry earning	Animal husbandry		02	On-campus	05	-	05	05	-	05	10	-	10
14/01/2013 To 17/01/2013		One week vocational training programme on mushroom cultivation	Plant Pathology		04	On-campus	05	05	10	10	07	17	15	12	27
20/06/2102	Extension Functionaries	ETL based decision making in Pest Management	Plant protection		01	On-campus	12	01	13	02	-	02	14	01	15
21/06/2012		Plant disease management in Kharif crops	Plant protection		01	On-campus	15	-	15	02	-	02	17	-	17
17/07/2012		WTO: Implications on Indian Agriculture	Extension		01	On-campus	07	-	07	01	-	01	08	-	08
18/07/2012		Identification of Insect pests for successful pest management	Plant Protection		01	On-campus	08	-	08	01	-	01	09	-	09
25/09/2012		Selection of pesticide in eco-friendly pest management	Plant Protection		01	On-campus	16	-	16	-	-	-	16	-	16
26/09/2012		Formation and strengthening of SHGs	Extension		01	On-campus	16	-	16	-	-	-	16	-	16
09/10/2012		Weed management in Rabi crops	Plant Production		01	On-campus	08	-	08	-	-	-	08	-	08
17/10/2012		Scientific sheep & goat management	Animal Husbandry		01	On-campus	06	-	06	-	-	-	06	-	06
14/11/2012		Plant disease management in vegetables	Plant Protection		01	On-campus	05	-	05	-	-	-	05	-	05
23/01/2013		Mushroom Production- An income generating enterprise	Plant Pathology		01	On-campus	07	-	07	-	-	-	07	-	07
24/01/2013		Impact assessment of extension activities	Extension		01	On-campus	07	-	07	-	-	-	07	-	07


KRISHI VIGYAN KENDRA
SKUAST-J, POONCH


KRISHI VIGYAN KENDRA
SKUAST-J, POONCH
WELCOMES

Annexure IV

TRAININGS/ WORKSHOP/ SEMINARS ATTENDED BY KVK STAFF

S. No.	Topic	Location	Duration	Date
1	Zonal Workshop cum Training programme of Zone			
2	7th National Conference on KVKs	PAU Ludhiana	3 Days	2-4 Nov 2012
3	Symposium-Emerging trends in plant health management.	Dr. YSPUH&F Solan, H.P.	2 Days	28-29 Sept, 2012
4	2nd J&K Agriculture Science Congress	SKUAST-J	3 Days	15-17 Dec, 2012
5	National Symposium on Emerging trends in Plant Pathology	SKUAST-J	2 Days	19-20 Dec, 2012
6	Consultancy Projects Management	NAARM, Hyderabad	8 day	7-14 Aug. 2012
7	Extension Methodologies for dissemination of Agricultural Technologies	Directorate of Extension, SKUAST-J	1 day	28-3-13
8	Agri- Entrepreneurship Development	Directorate of Extension, SKUAST-J	1 day	29-3-13
9	Role of ICT in Agriculture	Directorate of Extension, SKUAST-J	1 day	30-03-13

Annexure V

MINUTES OF 5TH SAC MEETING OF KVK POONCH ORGANIZED ON 15th May 2012

Krishi Vigyan Kendra, SKUAST-J, Qazi Mohra, Poonch organized its 5th Scientific Advisory Committee (SAC) meeting for Kharif-2012 on 15th of May 2012 at Conference Hall of KVK Poonch. The meeting was chaired by Dr. K.S.Risam, Director Extension SKUAST-Jammu. Dr. Snajay Khar, Programme Coordinator KVK Rajouri and District Officers of allied departments along with farmers/farm women members participated in the meeting. The list of participants is enclosed as Annexure-I. Dr. Arvind Ishar, Subject Matter Specialist (Entomology) welcomed Dr. K.S.Risam and other members of the SAC. The deliberations on various agenda items were taken up as per below given details.

Agenda Item 1. : Confirmation/approval of proceedings of 3rd SAC meeting.

The proceedings of the Fourth SAC meeting held on 9th September 2011 were circulated among the members before the house for confirmation which was approved by the house.

Agenda Item 2 : Action taken report of 4th SAC meeting .

Regarding the action taken report of 4th SAC meeting. Dr. Shahid Ahamad informed the house that there is an excellent linkage between the KVK and the allied departments. Several trainings have already been conducted in the field of agriculture and veterinary sciences after the 4th SAC meeting. High yielding varieties of wheat, mustard, gobhi Sarson toria lentil and chickpea have been promoted through FLDs along with recommended package of practices of SKUAST-J for their adoption enmass. Efforts are being made towards procurement of basmati cultivars that are suitable for Poonch. As desired by the Sericulture department , training programmes on sericulture have been planned. Regarding horticulture, the package of practices for the cultivation of persimmom have already been provided to the department of horticulture and training programmes on soil conservation and fisheries have been proposed in the action plan. Also the new technology for the off season vegetable productions have been demonstrated to the farmers.

Agenda Item 4 : Presentation of Progress Report

Dr. Shahid Ahamad , Member Secretary and Programme Coordinator of KVK Poonch presented the progress report of KVK w.e.f October 2011 to 13th May 2012.

Dr. K.S. Risam, Director Extension Education asked KVK scientists for the introduction of latest high yielding varieties of mustard, gobhisarson, toria, lentil, chickpea etc by way of FLDs and also suggested for popularization of yellow maize hybrids which are generally high in yielding as compared to white maize hybrids.

(Action: KVK Poonch, RARS Rajouri)

S. Inderjeet Singh, Chief Agriculture Officer, Poonch requested for introducing some new hybrids of maize and informed that maize is a stapled food of this region and farmers prefer white maize over yellow maize. He informed the house that some farmers are successfully cultivating Basmati-370 by procuring its seed of their own and emphasized upon the need for introduction of some good basmati varieties of paddy. Dr. A.K. Sharma, Associate Director, RARS (Rajouri) suggested to introduce PusaSugandh 2, 3 or 5 which were tested and performed well under Rajouri conditions. Dr. K.S.Risam, Director Extension Education suggested to procure seed from a government organization for its constant supply over the years. He also emphasized upon the KVK SMS(Plant breeding) to

collect the sample of red scented variety of rice and get it characterized from University HQ/NBPGR. Mr. Sharma also demanded a technical bulletin on new varieties of wheat suitable for Poonch and training programme on vermi-compost unit that can be popularized/advocated in Poonch for greater acceptance among farmers.

(Action: KVK Poonch)

Mr. P.K. Koul, Chief Horticulture Officer acknowledged the receipt of package of practices for Persimmon and pecan nut sought by him in previous SAC meeting and found the literature quite useful. He informed the house about the scope of pomegranate in Poonch and told that fruit bearing in pomegranate is good but attack of insects causes huge losses for which he sought some effective remedy. In this regards, Dr. Risam told the house that Himachal Pradesh is doing well in the field of pomegranate cultivation and we should follow them. He also stressed upon introduction of good varieties of pomegranate and timely spray of insecticides to control of anar butterfly. He further emphasized upon the need of increasing training programmes in scientific cultivation of horticultural crops especially in training and pruning as farmers of the district are not fully aware of its benefits for fruit trees. Mr. Koul demanded training programme on training and pruning of plum, pear and quince fruits along with recommendations for control of beetle attack inside pear and quince fruits. It was resolved to add Mandi area as venue for this training programme.

(Action: KVK Poonch)

Mr. B. Ahmed Chauhan, Assistant Director Fisheries, clarified that at present there is a very limited scope of fisheries in Poonch so there is need to aware people about nutritional value of fish. He proposed to conduct some awareness camps for farmers in collaboration with KVK. Dr. K.S.Risam, Director Extension Education assured the provision of expert in fisheries from university if the department of fisheries proposes some training programme for its officials. However he asked KVK scientists to go for impact analysis of such vocational trainings. Such trainees can also be linked to JKEDI for loan/subsidy facility. Care should be taken to popularize the technologies among more farmers and not a single farmer.

(Action: KVK Poonch, Department of Fisheries)

Dr. Hardeep Singh, Assistant Manager, Poultry (CAHO), Poonch informed that there is a vast scope for dairy and Poultry if taken up by the farmers as an enterprise. He also suggested taking up training programmes in poultry and dairying especially for youth so that their involvement can be enhanced in agricultural activities. He assured the full cooperation of his department in organizing training programmes for the rural youths of the district.

(Action: KVK Poonch and Department of Animal Husbandry)

Dr. V.K. Bhalla B.V.O., Poultry assured full co-operation of his department to KVK for collaborative programmes. Dr. K.S.Risam, Director Extension Education suggested to organize clinical camps for Bakerwals enroute during migration of livestock in collaboration with animal/sheep husbandry departments. Experts whenever needed will be deputed from veterinary college and other KVKs . **(Action: KVK Poonch and Department of Sheep Husbandry)**

Mr. M.A. Reshi, Deputy Director, Sericulture asked for dissemination of new technologies available for increasing the sericulture production in the district. Dr. Sanjay Khar, Programme coordinator requested for the results of the recommendations made

available to the department by KVK Poonch regarding diseases(powdery mildew) in cocoon. Deputy Director informed that the technology could not be tested as yet due to the lack of technical personnel. Dr. K.S.Risam, Director Extension Education assured the provision of expert in sericulture from university, if some training programmes are proposed by the department in collaboration with KVK and dates communicated well in advance

(Action: KVK Poonch, Department of Sericulture)

Mr. Rajinder Singh Sudan, Department of Irrigation briefed about the need for conducting training programmes on soil erosion & on importance of soil testing to the farmers keeping in view the steep topography of the district. For mass awareness, TV/Radio programmes on this aspect may also be given by KVK scientists. **(Action: KVK Poonch)**

Progressive farmers of the district also shared their views and experiences of working with KVK. They asked for strong cooperation and support of KVK in future as well. Mr. Kulwant Singh informed the house that with the intervention of KVK farmers have harvested good monetary benefits from production of off season vegetable crops. In this context, Dr. Risam informed the house that there are so many varieties of vegetables that have been released by IARI regional station, Katarian, H.P from where the seeds can be procured. Also, varieties and seed from public sector should be preferred rather than private sector seeds.

(Action: KVK Poonch and Farmers)

Addressing to the suggestions and queries of the members, Dr. K.S. Risam, DE, SKUAST-J directed Programme Coordinator to incorporate all the suggestions of the members of Scientific Advisory Committee. Applauding the work of KVK scientists, he stressed upon the need to do more for the benefit of farming community especially through organization of vocational trainings in mushroom cultivation and bee keeping. He advised the scientists of KVK to collaborate with the allied departments for effective dissemination of technologies. He stressed upon the need of developing KVK farm as a demonstration unit which can be shown to the visiting farmers for adoption on their own fields. He stressed that KVK should be ideal point for inspiration of the farmers and best for their motivation towards adoption of agriculture as an enterprise. He suggested to conduct a trial of winter maize on KVK farm for testing its feasibility at Poonch. He further advised that only technical support should be given to the progressive farmers and improved free inputs should be made available to the poor farmers for all-round progress of the district. He requested animal husbandry officer to arrange chicks and provide them o KVK so that they could be distributed as FLD to the farmers. Department of Sericulture was assured full cooperation from KVK as well as Division of Sericulture, SKUAST-Jammu, so that problems faced by farmers in silk worm rearing could be sorted out. He also desired from Chief Agriculture officer, Poonch to explore the possibilities of providing green houses and drip irrigation system to the farmers at the lowest subsidized rates so that the farmers are benefitted. He assured the full co-operation of Directorate of Extension Education, SKUAST-J for improving the working of KVK in the district. He also emphasized upon the KVK SMS(PBG) to collect the sample of red scented variety of rice. He also appreciated Mr. Jagdish, Computer Programmer, KVK Poonch for his good efforts towards IT and

developing KVK Poonch website for the benefit of the farmers. **(Action: KVK Poonch and DEE, SKUAST-J)**

The meeting ended with the vote of thanks proposed by Sh. Pawan Kumar Sharma (SMS, Agricultural Economics).

Annexure I

List of member participants who attended 4th SAC meeting of KVK Poonch

S.No.	Name	Designation
9.	Dr. K.S. Risam	Director Extension Education, SKUAST-J
10.	Dr. A.K. Singh	In-charge, MBRSS, Poonch
11.	Sh. Inderjeet Singh	Chief Agriculture Officer, Poonch
12.	Sh. P.K.Koul	Chief Horticulture Officer, Poonch
13.	Sh Younis Choudhary	SDAO, Poonch
14.	Dr. Hardeep Singh	Asstt. Manager Poultry (CAHO), Poonch
15.	Dr. V.K. Bhalla	BVO (Sheep Husbandry) Poonch
16.	Sh. Rajinder Singh Sudan	Assistant Soil conservation Officer, Poonch
17.	Sh. Talveer Bandey	Assistant Sericulture officer, Poonch
18.	Sh. Bashir Ahmed Chouhan	Assistant Director, Fisheries
19.	Sh. Kuldeep Singh	Progressive Farmer
20.	Sh. Sarfraz Rathore	Progressive Farmer
21.	Smt. Kulwant Kour	Progressive Farmer
22.	Smt. Bhajan Kour	Progressive Farmer
23.	Dr. Shahid Ahamad	Programme Coordinator, Member Secretary
24.	Dr. Sanjay Khar	Programme Coordinator, KVK Rajouri.(non member)
25.	Dr. Maghdeshwar Sharma	Jr. Scientist, MBRSS Poonch (Non Member)
26.	Dr. Parveen Singh	Jr. Scientist, MBRSS Poonch(Non Member)
27.	Project Operator,	Distt. Information Officer