Krishi Vigyan Kendra
ICAR-Indian Institute of Sugarcane Research
Lucknow, U.P. 226002

ANNUAL PROGRESS REPORT
(January-2021 to December-2021)

APR SUMMARY

(Note: While preparing summary, please don't add or delete any row or columns)

1. Training Programmes

Clientele	No. of Courses	Male	Female	Total participants
Farmers & farm women	87	1525	616	2141
Vocational Training Rural youths	10	173	41	214
Extension functionaries	2	51	2	53
Sponsored Training	6	62	2	64
Total	**105**	**1811**	**661**	**2472**

2. Frontline demonstrations

Enterprise	No. of Farmers	Area (ha)	Units/Animals
Oilseeds	283	58	
Pulses	190	30	
Cereals	407	83.35	
Horticultural crops	237	33	
Other crops (Fodder)	278	25.5	
Total	**1395**		
Buffalo (UMMB)			
Cattle and Buffalo (Dewormimg & Vaccination)	513		213
Other enterprises	286		286
Total	**779**		**499**
Grand Total	**2174**	**229.85**	

3. Technology Assessment & Refinement

Category	No. of Technology Assessed & Refined	No. of Trials	No. of Farmers
Technology Assessed			
Crops	8	71	71
Livestock	1	15	15
Various enterprises	1	3	3
Total	**10**	**89**	**89**
Technology Refined			
Crops			
Livestock			
Various enterprises			
Total			
Grand Total	**10**	**89**	**89**

4. Extension Programmes

Category	No. of Programmes	Total Participants
Extension activities	4041	90814
Total	**4041**	**90814**

5. Mobile Advisory Services

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Lucknow	Text only Whatsaap	2464	632	88	30	36		3250
	Voice & Text both							
	Total Messages	2464	632	88	30	36		3250
	Total farmers Benefitted	**29815**	**8816**	**21639**	**4830**	**5623**		**70723**

6. Seed ,Planting Material Production and other produce

	Quintal/Number	Value Rs.
Seed (q)	155.25	431445
Planting material (No.)	124417	3437201
Vermicompost (kg)	35000	350000
Earth worms(kg)	6	6000
Button Mushroom(kg)	170	21250
Cow milk (lit.)	4514	203130
Other produce		

7. Soil, water & plant Analysis

Samples	No. of Beneficiaries	Value Rs.
Soil – 272	272	00
Total - 272	**272**	

8. HRD and Publications

Sr. No.	Category	Number
1	Workshops	12
2	Conferences	0
3	Meetings	25
4	Trainings for KVK officials	7
5	Visits of KVK officials	12
6	Book published	0
7	Training Manual	1
8	Book chapters	0
9	Research papers	1
10	Lead papers	0
11	Seminar papers	2
12	Extension folder	0
13	Proceedings	0
14	Award & recognition	1

15	On going research projects	0

DETAIL REPORT OF APR-2021

1. GENERAL INFORMATION ABOUT THE KVK

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

Address	Telephone		E mail
	Office	FAX	
Krishi Vigyan Kendra, ICAR.IISR, Raebareli Road, Post: Dilkusha, Lucknow. 226002 (U.P.)	0522-2998036, 2480736	0522 248738	kvklucknow@gmail.com

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

Address	Telephone		E mail
	Office	FAX	
ICAR, Indian Institute of Sugarcane Research, Raebareli Road, Post: Dilkusha, Lucknow. 226002 (U.P.)	0522 2482527	0522 2480738	director.sugarcane@icar.gov.in

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

Name	Telephone / Contact		
	Residence	Mobile	Email
Dr. Akhilesh Kumar Dubey	..	9454332536	akdubeykvkiisr@gmail.com

1.4. Year of sanction: **02.06.2000**

1.5. Staff Position (as on 31st December, 2021)

Sl. No.	Sanctioned post	Name of the incumbent	Design-ation	Subject	Pay Scale (Rs.)	Present basic (Rs.)	Date of joining	Perman-ent /Temp-orary	Category (SC/ST/ OBC/ Others)	Mobile no.	Age	Email id
1	Senior scientist & Head	Dr. A.K. Dubey	Senior Scientist & Head	Agriculture Extension	13A	156900	20.07.2006	Permanent	Others	9454332536	48	akdubeykvkiisr@gmail.com
2	Subject Matter Specialist	Dr. (Mrs.) Vineeka Singh	SMS	Home Science	12	96900	29.08.2005	Permanent	Others	9456709229	47	singhveenika@gmail.com
3	Subject Matter Specialist	Dr. Deepak Rai	SMS	Plant Protection	12	96900	03.09.2005	Permanent	Others	9451189312	46	deepak.rai75@icar.gov.in
4	Subject Matter Specialist	Dr. Sanjay Kumar Pandey	SMS	Agronomy	11	80200	18.02.2011	Permanent	Other	6387222166	43	sanjay.kp79@gmail.com
5	Subject Matter Specialist	Dr. Viveka Nand Singh	SMS	Horticulture	11	78500	07.03.2011	Permanent	Other	7703042517	41	vivek.veg@gmail.com
6	Subject Matter Specialist	Dr. Rakesh Kumar Singh	SMS	Animal Science	11	78500	19.03.1997	Permanent	Others	9415577915	54	rksaskvkiisr@yahoo.in
7	Subject Matter Specialist	**Vacant**										
8	Programme Assistant	**Vacant**										
9	Programme Assistant (Computer)	Sh. Ram Lakhan	Computer Programmer	Computer Science	06	39900	26.10.2012	Permanent	OBC	9560144167	34	ram.lakhan@icar.gov.in
10	Farm Manager	Sh. Deep Kumar	Farm Manager	Horticulture	07	50500	06.06.2011	Permanent	OBC	9453782863	45	deep.kumar.caepht@gmail.com
11	Accountant / Superintendent	**Vacant**	Accountant									
12	Stenographer	Sh. Dhirendra Pratap Singh	Stenographer	..	05	37000	16.09.2010	Permanent	OBC	9026317652	30	d420commingsoon@gmail.com
13	Driver	**Vacant**										
14	Driver	Sh. Kulpreet Singh	Driver	..	04	33900	10.09.2010	Permanent	Other	9369510051	37	kulpreetwalia1984@gmail.com
15	Supporting staff	**Vacant**										
16	Supporting staff	Sh. Anoop Chand Kol	SSS	..	02	26000	16.09.2010	Permanent	SC	9956507129	39	anoopchandkol1979@gmail.com

1.6. Total land with KVK (in ha) : 20 ha.

S. No.	Item	Area (ha)
1	Under Buildings	0.4
2.	Under Demonstration Units	1.44
3.	Under Crops	17.9
4.	Orchard/Agro-forestry	0.232
5.	Others (specify) Roads	0.028

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	08.05.2013	550				
2.	Farmers Hostel							
3.	Staff Quarters							
4.	Demonstration Units	ICAR	2017	1.44				
5	Fencing							
6	Rain Water harvesting system							
7	Threshing floor							
8	Farm godown							

B) Vehicles

Type of vehicle	Year of purchase	Cost (Rs.)	Total kms. Run	Present status
Mahindra jeep (bolero)	2010	5.39370.00	194359	Poor Condition
Motorcycle	2005	46780.00	22963	Poor Condition

C) Equipments & AV aids

Name of the equipment	Year of purchase	Cost (Rs.)	Present status
Display board	2007	5760	Satisfactory
Display board	2007	5760	Satisfactory
LCD projector	2007	92000	Satisfactory
Computer (03)	2008	125000	Satisfactory
Computer (03)	2011	35000	Good Condition
Computer (03)	2016	125000	Good Condition
Computer (03)	2018	125000	Good Condition
Furrow Opener	2019	19500	Good Condition
Tractor Ridge Former	2019	12500	Good Condition
Tractor Drawn Seed Cum Fertilizer Drill	2019	51000	Good Condition
Knapsack Sprayer Battery	2019	4799	Good Condition
Solar Operated Hand Sprayer	2019	5477	Good Condition
Sonalika Tractor	2019	640395	Good Condition

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

Sl.No.	Date	Name and Designation of Participants	Salient Recommendations	Action taken
1.				

Note : This yellow mark may be treated as an example
**** Attach a copy of SAC proceedings along with list of participants***

2. DETAILS OF DISTRICT (31st December, 2021)

2.1 Major farming systems/enterprises (based on the analysis made by the KVK)

S. No	Farming system/enterprise
1.	Field Crop: Irrigated. Wheat, Rice, Mentha, Field Pea, Mustard etc. Rainfed. Black gram, Green gram, Pigeonpea, Red gram, Sesamum etc.
2.	Fruit Crops: Mango, Banana, Guava, Papaya etc. Potato, Tomato, Brinjal, Chilli, Okra, Vegetable Pea, Cole Crops, Cucurbits, Cowpea, Root Crops etc. Floriculture: Gladiolus, Marigold, Rose etc.
3.	Animal husbandry: Cow, Poultry, Buffalo, Goat, etc.

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

S. No	Agro-climatic Zone	Characteristics
1	AES.I	Sandy loam, loam and silty loam soil, irrigation through bore wells. Major crops are mango and other horticultural crops. Dairy is the major subsidiary occupation.
2	AES. II	Silty loam and silty clay soil are existing in this AES and mainly irrigated through bore wells and canal. Main crops are rice and mentha.
3	AES.III	Loamy sand and loamy soils are dominating, irrigation facilities are poor and mainly rainfed area and some areas are covered through bore wells.
4	AES.IV	Soils are silty clay loam, silty loam and loamy types. Irrigation mainly through bore wells. Crops grown are rice, wheat, pulses, oilseeds, vegetable, fruits and flowers etc.

2.3 Soil type/s

S. No	Soil type	Characteristics	Area in ha
1	Loamy soil	Good aeration, Poor water holding capacity	17304
2.	Sandy loam	Poor water holding capacity	22970
3.	Silty loam	Good aeration	99301
4.	Loam	Less aeration	28352
5.	Silty clay loam	Moderate aeration	18357
6.	Clay loam	Moderate aeration	8725
7.	Silty clay	Moderate aeration	4526
8.	Salt affected	High exchangeable sodium electrical conductivity less	25215

2.4. Area, Production and Productivity of major crops cultivated in the district (2017-18)

S. No	Crop	Area (ha)	Production (Qtl)	Productivity (Qtl /ha)
1.	Rice (Kharif)	51617	139727	27.07
2.	Maize (Kharif)	1483	1594	10.75
3.	Bajra	798	900	11.28
4.	Jowar	2103	2127	10.12
5.	Sawan (Kharif)	6	4	6.47
6.	Kodo	2	1	6.55
7.	Urad (Kharif)	6064	2947	4.86
8.	Moong (Kharif)	82	53	6.47
9.	Til (Pure)	844	360	4.27
10.	Ground Nut	89	84	9.41
11.	Soyabean	0	0	0
12.	Sugarcane	267	20849	780.88
13.	Cotton	0	0	0
14.	Sunnhamp	0	0	0
15.	Small Millets	8	5	6.25
16.	Kharif Cereals	56009	144353	25.77
17.	Kharif Pulses	6146	300	4.88
18.	Kharif Foodgrains	62155	147353	23.71
19.	Kharif Oilseed	933	444	4.76
20.	Wheat	81589	266225	32.63
21.	Barley	221	580	26.23
22.	Gram	934	880	9.42
23.	Peas	659	805	12.21
24.	Arhar	751	884	11.77
25.	Masoor	2127	4928	23.17
26.	Rapeseed & Mustard	4086	4748	11.62
27.	Linseed	0	0	0
28.	Potato	4410	85638	194.19
29.	Turmeric	3	3	11.15
30.	Tobbaco (Rabi)	0	0	0
31.	Mazi (Rabi)	1	3	30.02
32.	Onion (Rabi)	57	767	134.62
33.	Rabi Cereals	81811	266808	32.61
34.	Rabi Pulses	4471	4797	16.77
35.	Rabi Foodgrains	86282	274305	31.79
36.	Rabi Oilseed	4086	4748	11.62
37.	Rice (Zaid)	0	0	0
38.	Maize (Zaid)	131	287	21.92
39.	Swan (Zaid)	0	0	0
40.	Moong (Zaid)	32	15	4.74
41.	Urad (Zaid)	946	853	9.02
42.	Sun flower	0	0	0
43.	Onion (Zaid)	25	290	115.89
44.	Tobacco (Zaid)	0	0	0
45.	Zaid Cereals	131	287	21.91
46.	Zaid Pulses	978	868	8.88
47.	Zaid Foodgrains	1109	1155	10.41
48.	Total Cereals	137951	411448	29.83
49.	Total Pulses	11595	11365	9.8
50.	Total Foodgrains	149546	422813	28.27

51.	Total Oilseed	5019	5192	10.34
52.	Total Rice	51617	139727	27.07
53.	Total Maize	1615	1884	11.67
54.	Total Sawan	6	4	6.67
55.	Total Urd	7010	3800	5.42
56.	Total Moong	114	68	5.96
57.	Total Tobacco	0	0	0
58.	Total Onion	82	1057	128.9

2.5. Weather data

Month	Rainfall (mm)	Temperature ^{0} C		Relative Humidity (%)
		Maximum	Minimum	
January 2021	0	20.7	7.4	96
February 2021	6.2	27.5	10.2	93
March 2021	1.2	33.7	16.5	77
April 2021	1.6	38.1	19.1	58
May 2021	85.6	35.02	24.5	74
June 2021	142.4	34.5	26.6	83
July 2021	144.4	35.2	27.5	86
August 2021	200.6	34.09	27.3	91
September 2021	357.4	33.2	25.8	90
October 2021	104.4	33.01	21.4	89
November 2021	0	28.3	12.3	92
December 2021	7	23.8	12.01	92

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

Category	Population	Production	Productivity
Cattle			
Crossbred	28790	2, 70,000 (t/yr.)	
Indigenous	249657	9, 12,500 (t/yr.)	
Buffalo	274517	141932 (t/yr.)	
Sheep			
Crossbred			
Indigenous			
Goats	167727		
Pigs			
Crossbred	767		
Indigenous	42379		
Rabbits	1416		
Poultry			
Hens	25745		
Desi	18162		
Improved	870		
Ducks	12		
Turkey and others			

Category	Area	Production	Productivity
Fish			
Marine			
Inland			
Prawn			
Scampi			
Shrimp			

2.7 Details of Operational area / Villages (31st December, 2021)

Sl.No.	Taluk	Name of the block	Name of the village	Major crops & enterprises	Major problem identified	Identified Thrust Areas
1.	Mohanlal ganj	Mohanla ganj	Beniganj, Rati, Ranikhera, Dhanuasand, Udawat khera, Mirkh Nagar, Purahiya, Kushmaura,	Wheat, mustard, sesamum, rice, green fodder, field pea dairy & vegatables	Use of old/variety seed materials, imbalanced use of fertilizers, infestation of termite,	Availability of seed of HYV , balanced fertilization, management of intercrops, control of termites, Performance of vegetable crops Deworming, vaccination and green fodder production round the year
2.		Gosaiganj	Ismailenagar, Ichcha khera, Bahrauri, Mitauli, Matera, Rasoolpur, Dahihar,Sataikhera,Karsanda,	Rice, wheat, mustard, sesamum, green fodder, field pea dairy & vegatables	Use of old/variety seed materials, imbalanced use of fertilizers, infestation of weeds,	Availability of seed of HYV , balanced fertilizer, management of intercrops, control of weeds, Performance of vegetable pea varieties Production of disease free and healthy potato seed Deworming, vaccination and green fodder production round the year
3.	Lucknow	Sarojani nagar	Mati,Gari chunauti, Pinwat Ramchaura, Dadupur, Aurawan, Guraura, Mirzapur, Benti.	Rice, Wheat, mustard, sesamum, green fodder, field pea dairy & vegatables	Use of old/variety seed materials, imbalanced use of fertilizers	Availability of seed of HYV , balanced fertilization, control of weeds, deworming, vaccination and green fodder production round the year
4.		Chinhat	Lodhmau	Rice, Wheat, mustard,& vegetables	Use of old/variety seed materials, imbalanced use of fertilizers	Availability of seed of HYV , balanced fertilization, control of weeds,
5.	Bakshi ka talab	Bakshi ka talab	Daulatpur, Kalyanpur Nagawa mau, Bikamaukhurd, Asti, Chanwatara, Kathwara, Indaurabagh, Raitha, Ahamadpurkhera	Potato, green fodder, field pea and Wheat, mustard	Infected planting materials	Production of disease free and healthy potato seed Performance of vegetable crop varieties
6	Malihabad	Malihabad	Budhariya, Ularamau	Mango, Cucurbits, Wheat & rice	Poor management, Irregular bearring& Use of old/variety seed materials, imbalanced use of fertilizers	trained to proper management, Availability of seed of HYV , balanced fertilization, control of weeds,
7		Mall	,Kolawan, Para Bhadrahi, Aant,Garhi, aura, Chaksaidapur, Ant,	Mango, Cucurbits, Flowers Wheat & rice	Poor management, Irregular bearring& Use of old/variety seed materials, imbalanced use of fertilizers	Availability of healthy planting materials of flowers, Availability of seed ofHYV, balanced fertilization, control of weeds.
8		Kakori	Baheliya,Gopharamau, Thawar,Bakhhakhera	Mango, Vegetables, Flowers Wheat & rice	Poor management, Irregular bearring& Use of old/variety seed materials, imbalanced use of fertilizers	Availability of healthy planting materials of flowers, Availability of seed of HYV , balanced fertilization, control of weeds,

2.8 **Priority/thrust areas**

Crop/Enterprise	**Thrust area**
Green Gram, Black Gram, Chickpea and Field Pea	Introduction of HYV, Integrated Crop Management (IPM, INM, etc.)
Mustard and Sesamum	Introduction of HYV Integrated crop management (IPM, INM, etc.).
Wheat	Introduction of HYV, Integrated Crop Management
Rice	Integrated crop management (IPM, INM, etc.). Introduction of HYV
Vegetable Pea, Tomato, Brinjal, Chilli, Cucurbits, Cole crops, onion, etc.	Introduction of HYV, Integrated Crop Management (INM, IPM, etc.).
Potato	Integrated Crop Management (INM, IPM, etc.)
Mango	ICM/ Integrated Nutrient Management//IPM
Feed and Fodder management	Introduction of HYV green fodder, Introduction of perennial fodder grasses
Livestock Production & Management	Dairy management, Animal nutrition management Disease management
Women empowerment	Introduction of kitchen gardening, value addition and drudgery reduction, Introduction of women and child care, Introduction of rural crafts, Rooftop Kitchen gardening

2.9 Intervention/ Programmes for the doubling the farmers income – (Jan 2021-Dec. 2021) **Demonstrations**

Before Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield (q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation(Rs/ha)***	**Net income (Rs/ha)**	**B.C: Ratio**	**Remark if any**
Mono Cropping System(Kharif-Rabi-Zaid) - Livestock etc.							
Paddy-Wheat-Mentha	61.3-36.6-108 lit			169300.0	124412.0	1.73:1	
Paddy-Mustard-Mentha	60.9-11.3-111 lit			151050.0	125146.0	1.82:1	
Paddy-Field Pea-Mentha	62.2-15.9-107.5 lit			160060.0	147704.0	1.92:1	
Urd/Moong-Wheat-Mentha	6.2-35.4-111.6 lit.			118100.0	99499.0	1.84:1	
Paddy-Vegetable Pea-Mentha	62.5-63.2-113.0 lit.			161060.0	16236.0	2.00:1	
Paddy-Barseem	61.3-379.0			67070.0	46938.0	1.69:1	
Sweet Sorghum-Wheat	603.4-34.8			63040.0	47064.0	1.75:1	
			Total	**889680**	**606999**	**1.84:1**	
Milk Production	Cow-4.5 lit/day/animal			55	**175**	4.1:1	
	Buffalo-5.1 lit/day/animal			65	**215**	4.3:1	
Addition Income to each family: Nutritional Kitchen Gardening	3.2			3500	**1300**	1.37:1	

After Interventions	**Main crop Yield(q/ha)**	**Inter crop Yield (q/ha)**	**Equivalent yield(q/ha)**	**Cost of cultivation (Rs/ha)***	**Net income (Rs/ha)**	**B.C: Ratio**	**Remark if any**
Mono Cropping System(Kharif-Rabi-Zaid) - Livestock etc.							
Paddy-Wheat-Mentha	63.5-42.8-117.0 lit			156500.0	162478.0	2.04:1	
Paddy-Mustard-Mentha	64.2-12.44-116.9 lit			145010.0	148493.0	2.02:1	
Paddy-Field Pea-Mentha	66.0-19.8-115.7 lit			151780.0	187031.0	2.32:1	
Urd/Moong-Wheat-Mentha	7.6-37.9-118.4 lit			109070.0	128599.0	2.18:1	
Paddy-Vegetable Pea-Mentha	63.7-38.3-121.0 lit			141660.0	151998.0	2.07:1	

Paddy-Barseem	64.6-463.0			63177.0	103793.0	2.64:1	
Sweet Sorghum-Wheat	643.0-36.9			62000.0	98925.0	2.60:1	
Perrinial Fodder Grasses	865.0			28500.0	58000.0	3.04:1	
			Total	**857697.0**	**1039317.0**	**2.21:1**	
Milk Production:							
Vaccination & deworming	Cow-4.9 lit/day/animal			50	**195**	4.9:1	
	Buffalo-6.0 lit/day/animal			65	**265**	5.08:1	
Addition Income to each family:							
Nutrition Kitchen Garden	6.2			5500.0	**6900.0**	2.25:1	

Discussion: Irrigation, Fertilizers, Labour, Land Preparation, Seed, Plant protection (Weed, Pest, disease) *

Particulars	**Before intervention**	**After intervention**
Cost benefit ratio	1.84:1	**2.21:1**
Income from cattle Milk	Cow : Rs. 160.0/day/animal	Cow : Rs. 195.0/day/animal
	Buffalo : Rs. 225.0/day/animal	Buffalo : Rs. 265.0/day/animal
Additional Income from Nutritional kitchen gardening	Rs. 1300/family/year	Rs. 6900/family/year

3. TECHNICAL ACHIEVEMENTS

3.A. Details of target and achievements of mandatory activities by KVK during 2021

OFT (Technology Assessment and Refinement)				FLD (Oilseeds, Pulses, Cotton, Other Crops/Enterprises)			
1				2			
Number of OFTs		Total no. of Trials		Area in ha		Number of Farmers	
Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
10	10	58	89	132.5	229.85	475	2174

Training (including sponsored, vocational and other trainings carried under Rainwater Harvesting Unit)					Extension Activities			
3					4			
Number of Courses			Number of Participants		Number of activities		Number of participants	
Clientele	Targets	Achievement	Targets	Achievement	Targets	Achievement	Targets	Achievement
Farmers	79	87	1580	2141	635	4041	4000	90814
Vocational/ Rural youth	07	10	140	214				
Extn. Functionaries	07	2	155	53				
Sponsored	08	6	140	64				

Seed Production (Qtl.)			Planting material (Nos.)		
5			6		
Target	Achievement	Distributed to no. of farmers	Target	Achievement	Distributed to no. of farmers
251	155.25	325	50000	124417	78

I.A TECHNOLOGY ASSESSMENT

Summary of technologies assessed under various crops by KVKs

Thematic areas	Crop	Name of the technology assessed	No. of trials	No. of farmers
Integrated Nutrient Management	Potato	Integrated Nutrient Management in Potato	05	05
Varietal Evaluation	Wheat	Performance of Wheat varieties in different location of Lucknow District	30	30
	Broccoli	Performance evaluation of broccoli varieties	10	10
Integrated Pest Management	Mango	Thrips management in mango orchard	03	03
	Paddy	IPM in Paddy crop	03	03
	Mushroom	Evaluation of different methods of button mushroom composting	03	03
Integrated Crop Management	Potato	Early planting of cucurbits in potato crops	05	05
Integrated Disease Management	Vegetable Pea	Disease management in vegetable pea	05	05
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Post Harvest Technology / Value addition				
Drudgery Reduction				
Storage Technique				
Post Harvest Management	Value Addition	Preservation of vegetable pea	74	74
Total				

Summary of technologies assessed under livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology assessed	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management	Animals	Performance of sugar rich green fodder round the year	15	15
Nutrition Management				
Production and Management				
Others (Pl. specify)				
		Total	15	15

Summary of technologies assessed under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers

Note: Suppose **IPM in paddy** is the technology assessed by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.B. TECHNOLOGY REFINEMENT

Summary of technologies refined under various crops by KVKs

Thematic areas	Crop	Name of the technology refined	No. of trials	No. of farmers
Integrated Nutrient Management				
Varietal Evaluation				
Integrated Pest Management				
Integrated Crop Management				
Integrated Disease Management				
Small Scale Income Generation Enterprises				
Weed Management				
Resource Conservation Technology				
Farm Machineries				
Integrated Farming System				
Seed / Plant production				
Value addition				
Drudgery Reduction				
Storage Technique				
Others (Pl. specify)				
Total				

Summary of technologies refined under various livestock by KVKs

Thematic areas	Name of the livestock enterprise	Name of the technology refined	No. of trials	No. of farmers
Disease Management				
Evaluation of Breeds				
Feed and Fodder management				
Nutrition Management				
Production and Management				
Others (Pl. specify)				
Total				

Summary of technologies refined under various enterprises by KVKs

Thematic areas	Enterprise	Name of the technology assessed	No. of trials	No. of farmers

Note: Suppose **IPM in paddy** is the technology refined by 50 KVKs in the Zone with 5 trials by each KVK, then IPM in paddy needs to be considered as a single technology, with 50*5 = 250 trials and No. of KVKs will be 50. In addition, please note that even if IPM in paddy is done with various combinations of Technology Options (treatments), it may be considered as a single technology only.

I.C. TECHNOLOGY ASSESSMENT AND REFINEMENT IN DETAIL

(From each state please include the full details of three OFTs on technology assessment and or refinement under the broad thematic areas such as Integrated Crop Management, weed management, pest and disease management, nutrient management, resource conservation, livestock enterprises, Integrated Nutrient Management)

1. Title: Management of thrips (*Scirtothrips* spp.) in mango orchards.

Technology Assessed: Mango is an important crop of Lucknow district. Many number of insects infected this crop, in which, thrips is a very serious problem. This insect suck the sap of new foliage due to which new leaves dried and plant growth checked. So, for their management farmers used much number of pesticides but not get satisfactory results. So, keeping the facts, an OFT has conducted to assess the effect of Acetamiprid 20SP against thrips as compared to different chemical pesticides used by at village *Antgarhisaura* of Mall block. Result showed that thrips incidence reduced upto 5%. Details are given below:

Technology Option	No. of tria	% incidence	Av. Yield (q/ha)
T_1-Farmers Practices – Injudicious use of pesticides (Lamdacylothrin 5 EC@2ml/lit- 3 spray + Chloropyriphos 50EC + Cypermethrin 5EC@2.5ml./lit- 2 spray + Profenophos 40EC+ Cypermethrin 4EC @2.5ml./lit- 2 spray Total 7 spray.	3	17.5	110.3
T_2- Acetamiprid @20SP@0.2 gm/lit water		4.5	139.05

Economics:

Technology Option	Cost of Cultivation (Rs)	Gross Income (Rs)	Net Income (Rs)	B:C
T_1- Farmers Practices – Injudicious use of pesticides (Lamdacylothrin 5 EC@2ml/lit- 3 spray + Chloropyriphos 50EC + Cypermethrin 5EC@2.5ml./lit- 2 spray + Profenophos 40EC+ Cypermethrin 4EC @2.5ml./lit- 2 spray Total 7 spray.	83500	220600	137100	2.64:1
T_2 - Acetamiprid @20SP@0.2 gm/lit water	70,500	2,78,100	207600	3.94:1

2. Title: Management of root rot and powdery mildew in vegetable pea.

Technology Assessed: Vegetable pea in an important vegetable crop of Luck now district. Root rot and powdery mildew is important diseases, which was severely affected this crop. Generally farmers do not use any control measures for its management. So, the evaluation of efficacy of different fungicides in vegetable pea for overcoming the problems. Result showed that Seed treatment (Trichoderma viridae @5 gm/kg. seed) and spray of wetable sulphur (3.0 gm./lit.) showed root rot and powery mildew reduced upto 10% and 17-18% and 16.64% yield increased. Cost benefit ratio of demonstration plot and farmers practice were 2.18:1 and 1.60:1. Details are as follows:

Technology Option	No. of trials	Avg.% incidence		Av. Yield (q/ha)
		Root Rot	Powdery Mildew	
T1-Farmers Practices –Not use of pesticides	5	13.6	20.0	64.3
T2- Seed treatment (*Trichoderma viridae* @ 5 gm/kg. seed) and spray of wetable sulphur (3.0 gm./lit.)		3.34	2.44	77.14

Economics:

Technology Option	Cost of Cultivation (Rs)	Gross Income (Rs)	Net Income (Rs)	B:C
T1-Farmers Practices –Not use of pesticides	60000.0	96,450.0	36,450.0	1.60:1
T2- Seed treatment (*Trichoderma viridae*@5 gm/kg. seed) and spray of wetable sulphur (3.0 gm/lit.)	3000.0	115,710.0	62,710.0	2.18:1

3. Title: Integrated pest management in paddy crop.

Technology Assessed: In Kharif season major area covered under paddy crop in Lucknow district. This crop having high incidence of different insects like hoppers(Brown plant hopper, green leaf hopper, white backed plant hopper), gundhi bug and yellow stem borer etc.. Which affected crop growth and yield also. So, KVK,ICAR-IISR,Lucknow conducted an OFT on evaluation of IPM for overcoming the problems in paddy crop. Result showed that treatment T2- Profenophos 50EC@1ml./lit water+ Yellow sticky trap (10 No.) + Pheromone trap (10 No.) showed insect incidence up to 4.5% and yield was 68.98 q/ha . Cost benefit ratio of demonstration plot and farmers practice were 2.99:1 and 2.78:1. Details are as follows:

Technology Option	No. of trials	Avg.% incidence of insects	Av. Yield (q/ha)
T1-Farmers Practices –No use of pesticides	3	17.8	62.30
T2- Profenophos 50EC@1ml./lit water+ Yellow sticky trap (10 No.) + Pheromone trap (10 No.)		4.5	68.98

Economics:

Technology Option	Cost of Cultivation (Rs)	Gross Income (Rs)	Net Income (Rs)	B:C
T1-Farmers Practices –Use of pesticides	43550	120862	77312	2.78:1
T2- Profenophos 50EC@1ml./lit water+ Yellow sticky trap (10 No.) + Pheromone trap (10 No.)	44750	133821	89071	2.99:1

4. Title: Assessment of different methods of button mushroom composting.

Technology Assessed: Farmers generally use long method of preparation of button mushroom compost in Lucknow district due to which their fruiting time reduced and get less return as compared to crop potential. So, the KVK, ICAR-IISR, Lucknow conducted an OFT programme to assess the method of button mushroom composting at village Rambagh (Amethi) of Goshaiganj block of Lucknow district. Results are awaited. Details are as follows:

Technology Option	No. of trials	Duration of compost preparation	Av. yield (Q/650 compost)	Mushroom Production duration (Days)
T1-Farmers Practices – Long duration method of composting by poultry manure. (Wheat straw, Urea, DAP, MOP, Gypsum, Lime, Rice husk and poultry manure) - 08 turning.	3	28days	6.25	100
T2- Farmers Practices- Long duration method of composting except poultry manure (Wheat straw, Wheat Bran, Urea, DAP, MOP, Gypsum, Lime and Rice husk). 08 turning.		28days	6.50	100
T3- Short duration method of composting. (Wheat straw, Wheat Bran, Urea, DAP, MOP, Gypsum, Lime, Rice husk, poultry manure and Plastic pipe) – 15 turning.		18 days	7.38	120

Economics:

Technology Option	Cost of Cultivation (Rs)	Gross Income (Rs)	Net Income (Rs)	B:C
T1-Farmers Practices – Long duration method of composting by poultry manure. (Wheat straw, Urea, DAP, MOP, Gypsum, Lime, Rice husk and poultry manure) - 08 turning.	40750	75000	34250	1.84:1
T2- Farmers Practices- Long duration method of composting except poultry manure. (Wheat straw, Wheat Bran, Urea, DAP, MOP, Gypsum, Lime and Rice husk). 08 turning.	41500	78000	36500	1.88:1
T3- Short duration method of composting. (Wheat straw, Wheat Bran, Urea, DAP, MOP, Gypsum, Lime, Rice husk, poultry manure and Plastic pipe) – 15 turning.	41750	177000	93500	2.12:1

@ Rs. 120/kg.

5. Title: Assessment of integrated nutrient management in potato.

Technology assessed: Potato is an important commercial crop of Lucknow district. Farmers use fertilizers in this crop injudiciously. Due to which cost of cultivation become very high with poor quality of tuber. So keeping this facts KVK, ICAR-IISR, Lucknow conducted an on farm trail was conducted during winter season of 2020-21 to assess effect of nutrients application on the basis of soil test in potato crop. Nutrients application on the soil test base *i.e.,* 150 kg N + 80 kg P + 100 kg K/ha + 5.62 kg Zn/ha with green manuring of *Sesbania* increased 8.0 per cent tuber yield compared with farmers practice *i.e.* 250:172:180 kg/ha NPK without soil test. The B: C ratio in soil test base *i.e.,* 150 kg N + 80 kg P + 100 kg K/ha + 5.62 kg Zn/ha with green manuring of *Sesbania* (3.3:1) while farmer practice *i.e.* 250:172:180 kg/ha NPK without soil test (2.8:1) was recorded.

Table: 1- Soil analysis

Characters	Quantity	Characters	Quantity
pH	7.4	K (kg/ha)	140.0 (Medium)
EC (ds/m)	0.56	Zn (mg/kg)	0.6 (Low)
Organic carban (%)	0.26	Sulphur (mg/kg)	14.0
N (kg/ha)	234.0 (Low)	Boron (mg/kg)	1.13
P (kg/ha)	40.0 (Medium)	Fe (mg/kg)	5/7

Table: 2- Effect of integrated nutrient management on potato yield.

S. No.	Technology option	Av. weight of tubers/ plant (g)	Avg. No. of tubers /plant	Yield (q/ha)	% Yield increase
1	T1: Farmer Practice (250:172:180 kg/ha NPK without soil test)	295	8.5	306.6	-
2	T2 : Green Manuring + Soil test based dose of NPK Zn @ 150:80:100:5.62 kg/ha	310	9.3	336.5	8.0

Table: 3- Effect of integrated nutrient management on economic of potato yield.

S. No.	Technology option	Yield (q/ha)	Cost of cultivation (Rs)	Grass Income (Rs)	Net Return (Rs)	B:C Ratio
1	T1: Farmer Practice (250:172:180 kg/ha NPK without soil test)	306.6	98780	275940	177160	2.8:1
2	T2: Green Manuring + Soil test based dose of NPK Zn @ 150:80:100:5.62 kg/ha	336.5	90450	302850	212400	3.3:1

Table: 3- Saving of cost of nutrient in potato.

Nutrients	Farmers practiced N:P:K (250:172:180 kg/ha)	Source of Fertilizer	Rate of Fertilizer (Rs/kg)	Fertilizer used by farmer	Cost of farmers practiced N:P:K (kg/ha)	Green manuring + Recommended dose of N:P:K:Zn based on soil test (150:80:100:5.62 kg/ha)	Fertilizer used	Green manuring + Cost of recommended dose of N:P:K:Zn based on soil test (Rs)	Saving (Rs/ha)
N	250	Urea	5.91	396.8	2345.3	150	182.9	1080.8	1264.5
P	172	DAP	25	373.2	9331	80	173.6	4340	4991.0
K	180	MoP	15	300.6	4509	100	167	2505	2004.0
Zn	-	Zinc Sulphate	70	-	-	5.62	16.9	1180.2	-1180.2
Green manuring	-		-		-	-	-	5000	-5000.0
Total Saving (Rs/ha)									**2079.3**

6. Title: Problem definition: Performance of sugar rich green fodder round the year.

Technology Assessed:

For enhance the milk production in Lucknow district, there is need to provide sugar rich green fodder availability round the year to milk animals. So, an OFT was conducted to see the performance of different combination of cropping system. The result revealed that Sweet sorghum July to September – Barseem November to February and Sugar beet March to June) provided green fodder (300 days) and percent increase in milk was 24% due to sugar rich fodder followed by farmers practice, Barseem-Jwar-M.P. chari (228 days) cropping system.

Technology Option	No. of trials	Production of different fodder (Q/ha.)	No. of days for production of fodder	Average production (Q./ha.)
T1: Farmers Practices. Barseem-Jwar-M.P. chari	15	Barseem – 450 Qt. Jwar – 250 Qt. Chari – 310 Qt.	228	333.33
T2 : Sweet sorghum– Barseem-Sugar beet		Sweet sorghum– 360Qt. Barseem – 480Qt. Sugar beet – 620Qt.	300	456.7

Economics:

Technological option	Cost Of Cultivation (Rs.)	Gross Income (Rs.)	Net Income (Rs.)	B:C
T1: Farmers Practices: Barseem-Jwar-M.P. chari	65990.00	116665.5	50675.5	1.76:1
T2 : Sweet sorghum– Barseem-Sugar beet	56700.00	248000.0	191300.0	4.37:1

7. Title: Assessment and feasibility of preservation of vegetable pea.

Technology Assessed: Green peas are very popular and they are used along with other vegetables in many vegetarian and continental dishes. Thus apart from household demand, there is a continuous demand from restaurants, dhabas, caterers and canteens. Green peas are available for around 5 months during winter season only. Hence, if they are made available even during off-season, there is a good market for them. A small scale unit with lower overheads can offer competitive prices. Keeping in view of the above points, KVK, ICAR-IISR, Lucknow was conducted on farm trial to assess the feasibility of preservation of vegetable green pea through blanching techniques compared with marketing of green pod of vegetable pea. The on farm trial was conducted at ten farmer's household at Lucknow district. The results highlighted that, blanching pea was attaining olive green colour and it was stored in deep freezer for one year with original test. The economics of vegetable green pea preservation was calculated and the benefit cost ratio was 1.5:1

Table: Feasibility and economics of commercial preservation of vegetable pea (blanching).

S. No.	Particulars	Technology option	
		T_1 - Farmers Practices (Green pod)	T_2 - Preservation of vegetable pea (Green preserved pea)
1.	**No. of farmer/ Units**	10	10
2.	**Weight of Vegetable pea taken**	100 kg	100 kg
3.	**Preservation Technique**	Not practiced	Blanching
4.	**Shelling Percentage**	45%	45%
5.	**Yield of green pea /100 kg**	45kg	45 kg

6.	**Yield after blanching/ 100 kg**	-	48 kg
7.	**Colour of green pea after blanching**	-	Olive green
8.	**Shelf-life**	2-3 days	01 year
9.	**Selling price**	Rs 30/- per kg	Rs 120/- per kg
10.	**Salling, storage, etc. cost (Rs)**	Rs 300/-	Rs 840/-
11.	**Gross Income (Rs)**	Rs 3000/-	Rs 5760/-
12.	**Net income (Rs)**	-	Rs 4920/-
13.	**Additional Saving (Rs)**	-	Rs 1920/-

8. Title: Performance evaluation of broccoli varieties.

Technology assessed: Farmers of Lucknow district grow broccoli for high remuneration. They mainly grow many numbers of varieties; they give less return as compared to cost of cultivation. So, keeping this facts in view KVK,ICAR-IISR, Lucknow conducted an OFT to evaluate the performance of different varieties of broccoli as compared to farmers used variety.

Technology Option	**No. of trials**	**Curd weight (Kg.)**	**Duration of full bloom of curd (Days)**	**Average production (Q./ha.)**
T1: Farmers Practices.	15			
T2 : Broccoli cv. Sakhi				
T3: Broccoli cv. Fantasy				

Economics:

Technological option	**Cost Of Cultivation (Rs.)**	**Gross Income (Rs.)**	**Net Income (Rs.)**	**B:C**
T1:				
T2 : Broccoli cv. Sakhi				
T3: Broccoli cv. Fantasy				

9. Title: Early planting of cucurbits in potato crop.

Technology assessed:

Relay cropping system is also the system of growing different crops on the same land within a year but in this system succeeding crop is sown/ planted before the preceding crop is ready for harvest. The objective of on farm trial was to maximise the resource use (soil, water, sunlight, vegetation, humans and animals) and achieve through identification of crop adaptation for maximum productivity, based on soil, climate and management strategy. Keeping in view, the above facts that relay cropping system with potato and cucurbits was conducted at farmer's field. The seeds of cucurbits viz. bottle gourd, cucumber and pumpkin was grown by forcing in poly-low-tunnels during December and planted in the month of January in standing crop of potato. The results shown that, the first picking of fruits in cucurbits was 20-24 days early as compared to farmers practice. However, early yield was 131.7q/ha in cucumber, 138.9 q/ha in pumpkin and 137.5 q/ha in bottle gourd fetches higher remuneration Rs 118566.0/ha, Rs 111104.0/ ha and Rs 110020.0/ha in cucumber, pumpkin

and bottle gourd respectively due to higher price during early harvesting as compared to farmers practice. The overall benefit cost ratio 1:4.05, 1: 4.41 and 1: 4.27 was calculated planting of cucurbits with potato as relay cropping in comparison with farmers practice sole cultivation of cucurbits at main season.

Adopting suitable cropping systems is one of the best possible options to improve the resource use efficiency under changing climate scenario.

Technology option	First picking (Days)	Early Yield (q/ha)	Total Yield (q/ha)	Cost of cultivation (Rs)	Saving (Rs/ha)	Early Income (Rs)	Total Gross Income (Rs)	Net Income (Rs)	B:C Ratio
T_1-Farmers Practice									
Cucumber	-	-	370.80	71690.0	-	-	185400	113710.0	2.59
Pumpkin	-	-	380.50	69340.0	-	-	209275	139935.0	3.02
Bottle gourd	-	-	403.20	67470.0	-	-	181440	113970.0	2.69
T_2- Potato + Cucurbits									
Potato + Cucumber	20	131.74	376.4	59502.7	12187.3	118566.0	240896.0	181393.3	4.05
Potato + Pumpkin	24	138.88	396.8	57413.5	11926.5	111104.0	252960.0	195546.5	4.41
Potato + Bottle gourd	21	137.525	421.5	55662.8	11807.3	110020.0	237808.8	182146.0	4.27

10. Problem definition: Performance of fortified variety of wheat in Lucknow district.

Technology assessed: Performance of wheat varieties in different location of Lucknow district. Farmers of Lucknow district mainly grow non-fortified variety. So, KVK,ICAR-IISR, Lucknow conducted an OFT to evaluate the performance of fortified variety.ie DBW-187(Karan Bandana) in comparision to other varieties. DBW 187 also has better nutritional qualities which are reflected by maximum Mn (52.1 ppm), Cu (5.32 ppm) and Fe content (50.3 ppm) and one of the best Zn content (43.7 ppm) in comparison from others.

Technology Option	No. of trials	Av. Yield (q/ha)
T1-Farmers Practices – Wheat HD-2967	30	
T2- Wheat DBW-187		

Economics:

Technology Option	Cost of Cultivation (Rs)	Gross Income (Rs)	Net Income (Rs)	B:C
T1-Farmers Practices – Wheat HD-2967				
T2- Wheat DBW-187				

II. FRONTLINE DEMONSTRATION

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

List of technologies demonstrated during previous year and popularized during 2020 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	Sesamum	ICM	Improved variety(RT-351)	Demonstration, training, Literature, Farmers interaction and insure timely availability of inputs	13	250	35
2	Mustard	ICM	Improved variety (Giriraj)		25	350	45
3	Toria	ICM	Improved variety (Uttara)		10	75	25
4	Black gram	ICM	Improved variety (KUG-479)		15	150	25
5	Green Gram	ICM	Improved variety(IPM2-3)		20	250	20
6	Field Pea	ICM	Improved variety (HFP-529)		21	150	18
7	Chickpea	ICM	Improved variety (Ujjwala)		10	70	15
8	Paddy	IPM	Mgt. of yellow stem borer		10	120	15
	Potato	IPM	Pest mgt. in potato		20	220	20
9	Mango	IPM	Mgt. of leaf webber		9	50	50
10	Onion	ICM	Agrifound light red		1	7	1
11	Vegetable Pea	ICM	Kashi Uday		1	4	1
12	Hy.Sweet Sorghum	ICM	CSH-24MF		3	16	5
13	Perennial FodderGrasses	ICM	Naiper/Guinea		7	10	2
14	Barseem	ICM	Mescavi		3	39	5
15	Oat	ICM	Kent				

**** Thematic areas as given in Table 3.1 (A1 and A2)***

b. Details of FLDs implemented during **2021** (Information is to be furnished in the following **three tables** for **each category** i.e. **cereals, horticultural crops, oilseeds, pulses, cotton and commercial crops**.)

Sl. No.	Crop	Thematic area	Technology Demonstrated	Season and year	Area (ha)		No. of farmers/ demonstration			Reasons for shortfall in achievement
					Proposed	Actual	SC/ST	Others	Total	
1	Sesamum	ICM	Improved variety (Gujarat-1)	Kharif-2021	10	10	24	52	76	-
2	Mustard	ICM	Improved variety (Giriraj)	Rabi-2020-21	10	28	30	90	120	-
3	Mustard	ICM	Improved variety (RH-749)	Rabi-2021-22	20	20	33	54	78	
4	Chickpea	ICM	Improved variety (GNG-2144)	Rabi-2020-21	10	10	0	55	55	-
5	Black gram	ICM	Improved variety (PU-31)	Kharif-2020	10					-
6	Wheat	ICM	DBW-187	Rabi-2021-22	10	63.35	334	0	334	-

7	Paddy	IPM	Disease management	Kharif -2021	10	10	25	0	25	-
8	Maize	ICM	Improved variety (Dicalb-9144 & 8181)	Kharif -2021	10	10	34	0	34	-
9	Potato	IPM	Dis.& insects mgt.	Rabi-2021-22	2	2	7	0	7	-
10	Bottle gourd	IPM	Use of fruit fly trap	Khari-2021	5	5	12	0	12	-
11	Mango	IPM	Mgt. of leaf webber	2021-22	2	2	4	0	4	-
12	Broccoli	ICM	Improved variety (Fantasy F-1)	Khari-2021	1	1	10	0	10	-
13	Cauliflower	ICM	Improved variety (Madhuri)	Rabi-2021-22	1	0.5	10	0	10	-
14	Brinjal	ICM	Improved variety (Navkiran)	Rabi-2021-22	1	1	10	0	10	-
15	Chilli	ICM	Improved variety (Surymukhi)	Rabi-2021-22	1	0.5	10	0	10	-
16	Tomato	ICM	Improved variety (US-2853)	Rabi-2020-21	1	1	14	0	14	-
17	Tomato	ICM	Improved variety (US-2853)	Rabi-2021-22	1	5	10	0	10	-
18	Vegetable pea	ICM	Improved variety (Kashi Uday)	Rabi-2019-20	5	5	42	0	42	-
19	Vegetable pea	ICM	Improved variety (Kashi Uday)	Rabi-2021-22	10	10	108	0	108	-
20	Fodder Sorghum multicut	ICM	Improved variety (UPMC-503)	Kharif-2021	10	10	0	68	68	-
21	Barseem	ICM	Improved variety (BL-42)	Rabi-2021-22	10	10	62	124	186	-
22	Perennial grasses	ICM	Napier-3108		1	0.5	0	5	5	-
23	Oat	ICM	Kent	Rabi-2021-22	1	5	19	0	19	-

Details of farming situation

Crop	Season	Farming situation (RF/Irrigated)	Soil type	Status of soil			Previous crop	Sowing date	Harvest date	Seasonal rainfall (mm)	No. of rainy days
				N	P	K					
Sesamum	Kharif-2021	Irrigated	Sandy loam	M	M	L	Wheat /Mentha	5-15 July 2020	25-30 Sept. 2020	1028.1	15
Mustard	Rabi-2021-22	Irrigated	Sandy loam	M	M	L	Rice	3-10Nov. 20120	8-12 Feb 2021	115.4	5
Mustard	Rabi-2021-22	Irrigated	Sandy loam	M	M	L	Rice	7-12 Nov 2021	--	--	--
Black gram	Kharif-2021	Irrigated	Sandy loam	M	M	L	Wheat	15-20 Jul 2021	10-20 Oct 2021	693	13
Chickpea	Rabi-2021-22	Irrigated	Sandy clay loam	L	L	H	Rice, Sesamum, black gram	4-11 Nov 2021	--	--	--
Wheat	Rabi-2020-21	Irrigated	Sandy clay loam	L	L	H	Rice, Sesamu	8-12 Dec 2020	15-20 April 2021	177.2	10

							m, black gram				
Potato	Rabi-2020-21	Irrigated	Sandy loam	M	M	L	Wheat	5-10 Oct 2020	8-12 Feb 2021	120.4	6
Mango	Rabi-2020-21	Irrigated	Sandy loam	M	M	L	Mango	--	--	--	--
Vegetable pea	Rabi-2020-21	Irrigated	Sandy clay loam	M	M	H	Rice, black gram, chilli, brinjal	10.11.2020	17.02.2021	115.4	5
Broccoli	Rabi-2020-21	Irrigated	Sandy clay loam	M	M	H	Tomato, bottle gourd, watermelon,	10.10.2020	18.01.2021	106.2	4
Tomato	Rabi-2021-22	Irrigated	Sandy clay loam	M	M	H	Cucurbits, Rice, Okra	18.10.2021	-	--	--
Hy.Sweet Sorghum	Kharif-2021	Irrigated	Sandy loam	M	M	L	Wheat	15-22 July 2020	25-30 Sept. 2020	--	--
Perennial Fodder Grasses	Rabi-2021-22	Irrigated	Sandy clay loam	M	M	H	Rice, Sasbenia, Black gram, sesamum	15-17 July 2020	Round the year		
Perennial grasses	Rabi-2020-21	Irrigated	Sandy loam	M	M	L	-	15-17 July 2020	Round the year		
Barseem	Rabi-2021-22	Irrigated	Sandy loam	M	M	L	Paddy	15-20 Nov2021	--	--	--
Oat	Rabi-2021-22	Irrigated	Sandy loam	M	L	H	Paddy	15-20 Oct 2021	--	--	--

Technical Feedback on the demonstrated technologies

S. No	Feed Back
1	Farmers seek quality seeds input like seed and fertilizer in time.
2	Seed replacement in high order needed
3	Marketing of output/product
4	Agricultural implements required for line sowing as well as harvesting
5	Sowing methods adopted in improved technology impressed farmers by virtue of high yield & easy management in cultural practices
6	Knowledge and input of nutrients are essential.
7	Mechanization in agricultural crops are essential.
8	Demonstration of Cowpea cv. Kashi Nidhi was most suitable crop for small and marginal vegetable farmers in context of higher profit in per unit area at late kharif sowing as well as early crop in summer.
9	Farmers got more remuneration from kharif onion cv. L-883 as green onion compared to rabi onion.
10	Commercial cultivation of vegetable pea was more profitable.
11	Commercial cultivation of broccoli was more remunerative as compared to other cole crops.
12	Farmer of the district was more excited about cultivation of red cabbage.
13	Cultivation of onion cv. Agrifound Light Red/ Red-3 in rabi season after harvesting of early planted potato was more remunerative.

Farmers' reactions on specific technologies

S. No	Feed Back
1	Farmers realized the effect of quality seeds, line sowing, use of recommended dose of fertilizer and pesticides in relation to crop yield.

2	Introduction of cash crop like vegetable and horticultural crops were beneficial for peri-urban farmers of Lucknow district. Introduction of sugar beet as fodder crop for increasing milk production were very effective.
3	Farmers appreciated the KVK demonstration for pest management practices in horticultural crops.
4	Performance of Cowpea cv. Kashi Nidhi was most suitable crop for late kharif sowing as well as early crop in summer and fetches higher profit.
5	Cultivation of kharif onion cv. L-883 was more remuneration when harvested and sold out as green onion. It is most suitable for inter crop on bunds of other vegetables for marginal vegetable grower.
6	Vegetable pea cv. Kashi Uday was performed better.
7	Commercial cultivation of broccoli was more remunerative.
8	Farmer got higher profit from red cabbage as compared to normal cabbage.
9	Onion cv. Agrifound Light Red/ Red-3 was performed better than other varieties practicing by farmers.

Extension and Training activities under FLD

Sl.No.	Activity	No. of activities organized	Date	Number of participants	Remarks
1	Field days				
2	Farmers Training				
3	Media coverage				
4	Training for extension functionaries				

Performance of Frontline demonstrations

Frontline demonstrations on oilseed crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Groundnut																		
Sesamum	ICM	Improved Variety	Gujarat-1	76	10	5.8	4.9	5.4	3.8	29.6	24084	39457.8	15373.8	1.6:1	18509.8	27666.6	9256.8	1.4:1
Mustard	ICM	Improved variety+ fertilizer+NPKS:40:60:80:20 +Insecticide Imidachloprid@.3ml/lit	Giriraj	120	28	17.3	11.4	14.35	11.3	21.25	38500	66727.5	28227.5	1.73:1	33500	52545	19045	1.56:1
Mustard	ICM	Improved variety	RH-749	87	20			Result	Awaited									

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

Frontline demonstration on pulse crops

Crop	Thematic Area	technology demonstrated	Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
						Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
						High	Low	Average										
Chick Pea	ICM	Improved variety N.P.:20:40	GNG-2144	55	10	17.5	11.3	14.91	10.4	30.25	28500	72686.3	44186.3	2.55:1	25900	50700	24800	1.96:1
Black Gram	ICM	Improved variety N.P.:15:40	PU-31	135	20	10.5	8.6	9.5	6.2	34.7	32775	59850	27075	1.8:1	23659.2	39060	15400.8	1.6:1

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other crops

Category & Crop	Thematic Area	Name of the technology	No. of Farmers	Area (ha)	Yield (q/ha)				% Change in Yield	Other Parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demo			Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average												
Cereals																			
Paddy	IPM	Pheromone trap, sticky trap and Insectcide (Profenophos 50%)	39	10	75.6	64.3	69.63	61.3	12			44750	135082	90322	3.02:1	43550	118922	75372	2.73:1
Wheat	ICM	Improved variety	1	0.5	48.9	42.3	44.23	36.63	17.2			34560	81383.24	6823.2	2.35:1	35550	67399.2	31849	1.89: 1

		HD-2967 NPK:120:60:40																.2	
Wheat	ICM	Improved variety (DBW-187)	334	63.35			Result Awaited												
Maize	ICM	Improved variety (Dicalb-9144)	18	5	53.7	48.8	50.9	38.8	23.77			38500	95183	56683	2.47:1	36000	72556	36556	2.0:1
	ICM	Improved variety (Dicalb-8181)	16	5	45.6	38.7	41.7	38.8	6.95			37500	77979	40479	2.1:1	36000	72556	36556	2.0:1
Horticulture Crops																			
Potato	IPM	Yellow sticky trap, spray of insecticide (Acetamepride 20%), Fungicide (Propeneb 70 WP)	7	2	355.6	325.8	339.9	305.0	11.44			125000	408000	283000	3.26	155000	366000	211000	2.36
Bottle gourd	IPM	Use of fruit fly trap (10 trap/ha.) through fruit fly trap	12	5	422.4	350.5	393.28	273.8	30.4	FFI:5.5	FFI:15.7	64250	196640	132390	3.06:1	62750	136900	74150	2.18: 1
Mango	IPM	Spray of Lamdacylothrien 5%	5	2	150.7	130.6	141.7	104.6	26.2	LW-44		75500	283400	207900	3.75:1	83500	209200	125700	2.50:1
Broccoli	ICM	Improved variety (Fantasy F-1) NPK:100:80:60	10	1	210.6	196.5	205.4	134.3	34.6	Head weight: 0.7-1.1kg	Head weight: 0.6-0.8kg	95440	369720	274280	3.9:1	99700	241740	142040	2.4: 1
Cauliflower	ICM	Improved variety (Madhuri) NPK:100:80:60, Foliar Spray of Boron @ 2.5 g/l	10	0.5	353.5	295.5	340.5	298.8	12.2	Head weight: 1.2-1.6kg	Head weight: 1.1-1.4kg	102000	238350	136350	2.3	105500	209160	142040	2.0
Chilli	ICM	Improved variety (Suryamukhi), NPK@ 100:80:60 kg/ha Two foliar spray of NPK (19:19:19)	10	0.5	135.6	122.5	131.5	115.5	12.2	High Pungrncy	Medium Pungrncy	95500	236700	141200	2.5	98800	173250	142040	1.8
Brinjal	ICM	Improved variety (Navkiran), NPK@ 120:80:80 kg/ha Two foliar spray of NPK (19:19:19)	10	1	335.5	315.9	320.8	240.5	25.0			91250	256640	165390	2.8	98900	192400	142040	1.9
Tomato	ICM	Improved variety (US-2853)	14	1	623.5	585.6	590.5	514.2	12.9	-	-	175950	413350	237400	2.3	197700	359940	206140	1.8
Tomato	ICM	Improved variety (NS-4266) NPK@ 120:80:80 kg/ha Two foliar spray of NPK (19:19:19)	10	0.5	623.5	585.6	590.5	514.2	12.9	Shelf life: Very good	Shelf life: Good	126950	295250	168300	2.3	197700	359940	206140	1.8
Vegetable pea	ICM	Hybrid Variety (Kashi Uday)	42	5	79.6	68.9	75.62	62.5	17.3	-	-	43500	136116	92616	3.1	48600	112500	46850	2.3
Vegetable pea	ICM	Improved Variety (Kashi Uday) Sulphur 10 kg/ha	108	10	85.5	69.5	78.4	62.8	19.9			49700	117600	67900	2.4	48600	94200	46850	1.9
Fodder Crops																			
Fodder Sorghum Multicut	ICM	Improved variety (UPMC-503)	68	10	1380	1760	1660	1230	26.03			125000	398000	273000	3.2:1	155000	369000	214000	2.4:1
Barseem	ICM	Improved variety (BL-42)	186	10	926.1	754.5	842.8	560	33.5	--	--	217021	421400	204379	1.94:1	144200	224000	79800	1.5:1
Perennial grasses	ICM	Napier-3108	5	0.5	890	760	865	585	32.4	-	-	29830	129750	99920	4.3:1	37500	87750	50250	2.3:1
Oat	ICM	Improved variety (Kent)	19	5	480	390	435	340	21	-	-	30000	282750	252750	9.4:1	30000	221000	141000	7.3:1

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Livestock

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of Units (Animal/ Poultry/ Birds, etc)	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Cattle																	
Vaccination																	
Deworming	Endoparasite management	All clear: Fenbendazole BP (vet) 3g	31	31	Endoparasite controlled 100%	Endoparasite controlled 15%	85%	--	--	--	--	--	--	--	-	--	--

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.

** BCR= GROSS RETURN/GROSS COST

FLD on Fisheries

Category	Thematic area	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.)				Economics of check (Rs.)			
					Demonstration	Check		Demonstration	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Common Carps																	
Composite fish culture																	
Feed Management																	

* Economics to be worked out based total cost of production per unit area and not on critical inputs alone.
** BCR= GROSS RETURN/GROSS COST

FLD on Other enterprises

Category	Name of the technology demonstrated	No. of Farmer	No.of units	Major parameters		% change in major parameter	Other parameter		Economics of demonstration (Rs.) or Rs./unit				Economics of check (Rs.) or Rs./unit			
				Demo	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Oyster Mushroom																
Button Mushroom																
Apiculture																
Maize Sheller																

Vermi Compost	Earthworm species (Jai Gopal)	6	6 Vermibed size: 90ft²	2.5	-	100%	9.3	-	5720	21100	15380	3.7:1	-	-	-	-
Vermicompost	Earthworm species (Jai Gopal)	5	Result awaited													
Balance Nutrition																

FLD on Farm Implements and Machinery

Name of the implement	Crop	Technology demonstrated	No. of Farmer	Area (ha)	Major parameters	Filed observation (output/man hour)		% change in major parameter	Labor reduction (man days)				Cost reduction (Rs./ha or Rs./Unit etc.)			
						Demo	Check		Land preparation	Sowing	Weeding	Total	Land preparation	Labour	Irrigation	Total

FLD on Other Enterprise: Kitchen Gardening

Category and Crop	Thematic area	Name of the technology demonstrated	No. of Farmer	No. of Units	Yield (Kg)		% change in yield	Other parameters		Economics of demonstration (Rs./ha)				Economics of check (Rs./ha)			
					Demonstration	Check		Demo	Check	Gross Cost	Gross Return	Net Return	BCR (R/C)	Gross Cost	Gross Return	Net Return	BCR (R/C)
Kitchen Gardening	ICM	NKG	200	200	Result	Awaited											
rooftop Gardening	ICM	RTG	86	86	Result	Awaited											

FLD on Demonstration details on crop hybrids *(Details of Hybrid FLDs implemented during* **2020***)*

Crop	technology demonstrated	Hybrid Variety	No. of Farmers	Area (ha)	Yield (q/ha)				% Increase in yield	Economics of demonstration (Rs./ha)			
					Demo			Check		Gross Cost	Gross Return	Net Return	BCR (R/C)
					High	Low	Average						
Oilseed crop													

Pulse crop													
Cereal crop													
Vegetable crop													
Fruit crop													
Other (specify)													

Note : Remove the Enterprises/crops which have not been shown

III. Training Programme

Farmers' Training including sponsored training programmes (on campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management										
Resource Conservation Technologies	4	0	0	0	154	29	183	154	29	183
Cropping Systems										
Crop Diversification										
Integrated Farming	2	20	4	24	21	0	21	41	4	45
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management										
Soil & water conservatioin										
Integrated nutrient management	3	0	0	0	49	6	55	49	6	55
Production of organic inputs										
Others (pl specify)										
Total	**9**	**20**	**4**	**24**	**224**	**35**	**259**	**244**	**39**	**283**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising										
Exotic vegetables										
Export potential vegetables										
Grading and standardization										
Commercial cultivation	2	0	0	0	40	8	48	40	8	48
Others (pl specify)										
Total (a)	**2**	**0**	**0**	**0**	**40**	**8**	**48**	**40**	**8**	**48**
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										
Others (pl specify)										
Total (b)										
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										

g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)	1	29	0	29	0	0	0	29	0	29
Total	**1**	**29**	**0**	**29**	**0**	**0**	**0**	**29**	**0**	**29**
IV Livestock Production and Management										
Dairy Management										
Poultry Management										
Piggery Management										
Rabbit Management										
Animal Nutrition Management										
Disease Management	1	0	0	0	15	1	16	15	1	16
Feed & fodder technology	2	7	0	7	35	0	35	42	0	42
Production of quality animal products										
Others (pl specify)										
Total	**3**	**7**	**0**	**7**	**50**	**1**	**51**	**57**	**1**	**58**
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										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment										
Location specific drudgery reduction technologies										
Rural Crafts										
Women and child care										
Others (pl specify)										
Total										
VI Agril. Engineering										
Farm Machinary and its maintenance										
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										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	5	107	5	112	40	7	47	147	12	159
Integrated Disease Management										
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**5**	**107**	**5**	**112**	**40**	**7**	**47**	**147**	**12**	**159**

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										
Others (pl specify)										
Total										
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total										
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										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**20**	**163**	**9**	**172**	**354**	**51**	**405**	**517**	**60**	**577**

Farmers' Training including sponsored training programmes (off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	9	0	9	47	25	72	56	25	81
Resource Conservation Technologies										
Cropping Systems										
Crop Diversification										
Integrated Farming										
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	41	0	41	24	3	27	65	3	68
Soil & water conservatioin										
Integrated nutrient management	3	61	1	62	32	18	50	93	19	112
Production of organic inputs										

Others (pl specify)										
Total	**9**	**111**	**1**	**112**	**103**	**46**	**149**	**214**	**47**	**261**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery Management	1	0	0	0	24	0	24	24	0	24
Exotic vegetables										
Cultivation of vegetables										
Scientific cultivation	6	0	0	0	114	34	149	114	35	149
Commercial cultivation	3	0	0	0	60	0	60	60	0	60
Others (Seed production of Potato)										
Total (a)	**10**	**0**	**0**	**0**	**198**	**35**	**233**	**198**	**35**	**233**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	0	0	0	33	10	43	33	10	43
Management of young plants/orchards										
Rejuvenation of old orchards										
Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (Canopy management in mango)										
Total (b)	**2**	**0**	**0**	**0**	**33**	**10**	**43**	**33**	**10**	**43**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)										
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)	1	0	0	0	5	25	30	5	25	30
Total	**1**	**0**	**0**	**0**	**5**	**25**	**30**	**5**	**25**	**30**
IV Livestock Production and Management										
Dairy Management	4	0	0	0	75	16	91	75	16	91
Poultry Management										

Piggery Management	2	0	0	0	34	28	62	34	28	62
Goat Farming	2	0	0	0	40	6	46	40	6	46
Animal Nutrition Management										
Disease Management	6	0	0	0	98	26	124	98	26	124
Feed & fodder technology	13	41	0	41	196	59	255	237	59	266
Production of quality animal products										
Others (Goat farming)										
Total	**27**	**41**	**0**	**41**	**443**	**135**	**578**	**484**	**135**	**619**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	0	0	0	0	80	80	0	80	80
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										
Value addition										
Women empowerment	3	0	0	0	0	60	60	0	60	60
Location specific drudgery reduction technologies	2	0	0	0	0	40	40	0	40	40
Rural Crafts										
Women and child care	6	0	0	0	0	120	120	0	120	120
Others (pl specify)										
Total	**15**	**0**	**0**	**0**	**0**	**300**	**300**	**0**	**300**	**300**
VI Agril. Engineering										
Farm Machinary and its maintenance										
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										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	1	20	0	20	11	0	11	31	0	31
Integrated Disease Management	1	0	0	0	18	2	20	18	2	20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**2**	**20**	**0**	**20**	**29**	**2**	**31**	**49**	**2**	**51**
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										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										

Vermi-compost production	1	0	0	0	25	2	27	25	2	27
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**1**	**0**	**0**	**0**	**25**	**2**	**27**	**25**	**2**	**27**
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										
Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**69**	**172**	**1**	**173**	**836**	**555**	**1391**	**1008**	**556**	**1564**

Farmers' Training including sponsored training programmes – CONSOLIDATED (On + Off campus)

Thematic area	No. of courses	Participants								
		Others			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
I Crop Production										
Weed Management	3	9	0	9	47	25	72	56	25	81
Resource Conservation Technologies	4	0	0	0	154	29	183	154	29	183
Cropping Systems										
Crop Diversification										
Integrated Farming	2	20	4	24	21	0	21	41	4	45
Micro Irrigation/irrigation										
Seed production										
Nursery management										
Integrated Crop Management	3	41	0	41	24	3	27	65	3	68
Soil & water conservatioin										
Integrated nutrient management	6	61	1	62	81	24	105	142	25	167
Production of organic inputs										
Others (pl specify)										
Total	**18**	**131**	**5**	**136**	**327**	**81**	**408**	**458**	**86**	**544**
II Horticulture										
a) Vegetable Crops										
Production of low value and high valume crops										
Off-season vegetables										
Nursery raising	1	0	0	0	24	0	24	24	0	24
Exotic vegetables										
Cultivation of vegetables										
Scientific cultivation	6	0	0	0	114	35	149	114	35	149
Commercial cultivation	5	0	0	0	100	8	108	100	8	108
Others (Seed production of Potato)										
Total (a)	**12**	**0**	**0**	**0**	**238**	**43**	**281**	**238**	**43**	**281**
b) Fruits										
Training and Pruning										
Layout and Management of Orchards										
Cultivation of Fruit	2	0	0	0	33	10	43	33	10	43
Management of young plants/orchards										
Rejuvenation of old orchards										

Export potential fruits										
Micro irrigation systems of orchards										
Plant propagation techniques										
Others (Canopy management in mango)										
Total (b)	**2**	**0**	**0**	**0**	**33**	**10**	**43**	**33**	**10**	**43**
c) Ornamental Plants										
Nursery Management										
Management of potted plants										
Export potential of ornamental plants										
Propagation techniques of Ornamental Plants										
Others (pl specify)										
Total (c)										
d) Plantation crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (d)										
e) Tuber crops										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (e)										
f) Spices										
Production and Management technology										
Processing and value addition										
Others (pl specify)										
Total (f)										
g) Medicinal and Aromatic Plants										
Nursery management										
Production and management technology										
Post harvest technology and value addition										
Others (pl specify)										
Total (g)	**14**	**0**	**0**	**0**	**271**	**53**	**324**	**271**	**53**	**324**
GT (a-g)										
III Soil Health and Fertility Management										
Soil fertility management										
Integrated water management										
Integrated Nutrient Management										
Production and use of organic inputs										
Management of Problematic soils										
Micro nutrient deficiency in crops										
Nutrient Use Efficiency										
Balance use of fertilizers										
Soil and Water Testing										
Others (pl specify)	2	29	0	29	5	25	30	34	25	59
Total	**2**	**29**	**0**	**29**	**5**	**25**	**30**	**34**	**25**	**59**
IV Livestock Production and Management										
Dairy Management	4	0	0	0	75	16	91	75	16	91
Poultry Management										
Piggery Management	2	0	0	0	34	28	62	34	28	62
Goat Management	2	0	0	0	40	6	46	40	6	46
Animal Nutrition Management										
Disease Management	7	0	0	0	113	27	140	113	27	140
Feed & fodder technology	15	48	0	48	231	59	290	279	59	338
Production of quality animal products										
Others (pl specify)										
Total	**30**	**48**	**0**	**48**	**493**	**136**	**629**	**541**	**136**	**677**
V Home Science/Women empowerment										
Household food security by kitchen gardening and nutrition gardening	4	0	0	0	0	80	80	0	80	80
Design and development of low/minimum cost diet										
Designing and development for high nutrient efficiency diet										
Minimization of nutrient loss in processing										
Processing and cooking										
Gender mainstreaming through SHGs										
Storage loss minimization techniques										

Value addition										
Women empowerment	3	0	0	0	0	60	60	0	60	60
Location specific drudgery reduction technologies	2	0	0	0	0	40	40	0	40	40
Rural Crafts										
Women and child care	6	0	0	0	0	120	120	0	120	120
Others (pl specify)										
Total	**15**	**0**	**0**	**0**	**0**	**300**	**300**	**0**	**300**	**300**
VI Agril. Engineering										
Farm Machinary and its maintenance										
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										
Others (pl specify)										
Total										
VII Plant Protection										
Integrated Pest Management	6	127	5	132	51	7	58	178	12	190
Integrated Disease Management	1	0	0	0	18	2	20	18	2	20
Bio-control of pests and diseases										
Production of bio control agents and bio pesticides										
Others (pl specify)										
Total	**7**	**127**	**5**	**132**	**69**	**9**	**78**	**196**	**14**	**210**
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										
Others (pl specify)										
Total										
IX Production of Inputs at site										
Seed Production										
Planting material production										
Bio-agents production										
Bio-pesticides production										
Bio-fertilizer production										
Vermi-compost production	1	0	0	0	25	2	27	25	2	27
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										
Mushroom Production										
Apiculture										
Others (pl specify)										
Total	**1**	**0**	**0**	**0**	**25**	**2**	**27**	**25**	**2**	**27**
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										

Others (pl specify)										
Total										
XI Agro-forestry										
Production technologies										
Nursery management										
Integrated Farming Systems										
Others (pl specify)										
Total										
GRAND TOTAL	**87**	**335**	**10**	**345**	**1190**	**606**	**1796**	**1525**	**616**	**2141**

Training for Rural Youths including sponsored training programmes (On campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

Training for Rural Youths including sponsored training programmes (Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

Training for Rural Youths including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Nursery Management of Horticulture crops										
Training and pruning of orchards										
Protected cultivation of vegetable crops										
Commercial fruit production										
Integrated farming										
Seed production										
Production of organic inputs										
Planting material production										
Vermi-culture										
Mushroom Production										
Bee-keeping										
Sericulture										
Repair and maintenance of farm machinery and										

implements										
Value addition										
Small scale processing										
Post Harvest Technology										
Tailoring and Stitching										
Rural Crafts										
Production of quality animal products										
Dairying										
Sheep and goat rearing										
Quail farming										
Piggery										
Rabbit farming										
Poultry production										
Ornamental fisheries										
Composite fish culture										
Freshwater prawn culture										
Shrimp farming										
Pearl culture										
Cold water fisheries										
Fish harvest and processing technology										
Fry and fingerling rearing										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training programmes (on campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management	01	28	2	30	10	0	10	38	2	40
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production	1	13	0	13	0	0	0	13	0	13
Household food security										
Any other (Management of Nutritional Garden)										
Commercial cultivation of vegetable pea										
TOTAL	**2**	**41**	**2**	**43**	**10**	**0**	**10**	**51**	**2**	**53**

Training programmes for Extension Personnel including sponsored training programmes (off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops										
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										

Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals										
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL										

Training programmes for Extension Personnel including sponsored training programmes – CONSOLIDATED (On + Off campus)

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Productivity enhancement in field crops	01	28	2	30	10	0	10	38	2	40
Integrated Pest Management										
Integrated Nutrient management										
Rejuvenation of old orchards										
Protected cultivation technology										
Production and use of organic inputs										
Care and maintenance of farm machinery and implements										
Gender mainstreaming through SHGs										
Formation and Management of SHGs										
Women and Child care										
Low cost and nutrient efficient diet designing										
Group Dynamics and farmers organization										
Information networking among farmers										
Capacity building for ICT application										
Management in farm animals	1	13	0	13	0	0	0	13	0	13
Livestock feed and fodder production										
Household food security										
Any other (pl.specify)										
TOTAL	**2**	**41**	**2**	**43**	**10**	**0**	**10**	**51**	**2**	**53**

Table. Sponsored training programmes

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Increasing production and productivity of crops										
Commercial production of vegetables										
Production and value addition										
Fruit Plants										
Ornamental plants										
Spices crops										
Soil health and fertility management										
Production of Inputs at site										
Methods of protective cultivation										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Processing and value addition										
Others (pl. specify)										
Total										
Farm machinery										
Farm machinery, tools and implements										
Others (pl. specify)										
Total										
Livestock and fisheries										
Livestock production and management										
Animal Nutrition Management										

Animal Disease Management										
Fisheries Nutrition										
Fisheries Management										
Others (pl. specify)										
Total										
Home Science										
Household nutritional security										
Economic empowerment of women										
Drudgery reduction of women										
Others (pl. specify)										
Total										
Agricultural Extension										
Capacity Building and Group Dynamics	**5**	**20**	**2**	**22**	**22**	**0**	**22**	**42**	**2**	**44**
Beekeeping	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Total										
GRAND TOTAL	**6**	**40**	**2**	**42**	**22**	**0**	**22**	**62**	**2**	**64**

Name of sponsoring agencies involved

Details of vocational training programmes carried out by KVKs for rural youth

Area of training	No. of Courses	No. of Participants								
		General			SC/ST			Grand Total		
		Male	Female	Total	Male	Female	Total	Male	Female	Total
Crop production and management										
Commercial floriculture										
Commercial fruit production										
Commercial vegetable production	**1**	**20**	**0**	**20**	**0**	**0**	**0**	**20**	**0**	**20**
Integrated crop management										
Organic farming										
Others (pl. specify)										
Total										
Post harvest technology and value addition										
Value addition	**1**	**0**	**15**	**15**	**0**	**15**	**15**	**0**	**30**	**30**
Others (pl. specify)										
Total										
Livestock and fisheries										
Dairy farming										
Composite fish culture										
Sheep and goat rearing										
Piggery										
Poultry farming										
Others (pl. specify)										
Total										
Income generation activities										
Vermicomposting	**1**	**11**	**0**	**11**	**9**	**0**	**9**	**20**	**0**	**20**
Production of bio-agents, bio-pesticides,										
bio-fertilizers etc.										
Repair and maintenance of farm machinery										
and implements										
Rural Crafts										
Seed production										
Sericulture										
Mushroom cultivation	**5**	**67**	**11**	**78**	**11**	**0**	**11**	**78**	**11**	**89**
Nursery, grafting etc.										
Tailoring, stitching, embroidery, dying etc.										
Agril. para-workers, para-vet training										
Beekeeping	**1**	**31**	**0**	**31**	**4**	**0**	**4**	**35**	**0**	**35**
Total										
Agricultural Extension										
Capacity building and group dynamics										
Others (pl. specify)										
Total										
Grand Total	**9**	**129**	**26**	**155**	**24**	**15**	**39**	**153**	**41**	**194**

IV. Extension Programmes

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services (Mobile)	3250	70711	12	70723
Diagnostic visits				0
Field Day	4	82	6	88
Group discussions	25	494		494
Kisan Ghosthi	38	4271	174	4445
Film Show	5	768		768
Kisan Mela	6	1785		1785
Exhibition				0
Scientists' visit to farmers field	273	2583	22	2605
Plant/animal health camps				0
Farm Science Club				0
Ex-trainees Sammelan				0
Farmers' seminar/workshop				0
Method Demonstrations	274	1502	9	1511
Celebration of important days	3	346	47	393
Special day celebration	5	604	38	642
Exposure visits				0
Lecture Delivered	148	5784	221	6005
Others	10	1235	120	1355
Total	**4041**	**90165**	**649**	**90814**

Details of other extension programmes

Particulars	Number
Electronic Media (CD./DVD)	
Extension Literature	
News paper coverage	8
Popular articles	12
Radio Talks	9
TV Talks	2
Animal health amps (Number of animals treated)	
Others (pl. specify)	
Total	**12**

Name of KVK	Message Type	Type of Messages						
		Crop	Livestock	Weather	Marke-ting	Aware-ness	Other enterprise	Total
Lucknow	Text only (Whatsaap)	2464	632	88	30	36		3250
	Voice only							
	Voice & Text both							
	Total Messages	2464	632	88	30	36		3250
	Total farmers Benefitted	**29815**	**8816**	**21639**	**4830**	**5623**		**70723**

V. DETAILS OF TECHNOLOGY WEEK CELEBRATIONS

Number of KVKs organised Technology Week	Types of Activities	No. of Activities	Number of Participants	Related crop/livestock technology
	Gosthies			
	Lectures organised			
	Exhibition			
	Film show			
	Fair			
	Farm Visit			
	Diagnostic Practicals			
	Distribution of Literature (No.)			
	Distribution of Seed (q)			
	Distribution of Planting materials (No.)			
	Bio Product distribution (Kg)			
	Bio Fertilizers (q)			
	Distribution of fingerlings			
	Distribution of Livestock specimen (No.)			
	Total number of farmers visited the technology week			

VI. PRODUCTION OF SEED/PLANTING MATERIAL AND BIO-PRODUCTS

Production of seeds by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Quantity of seed (q)	Value (Rs)	Number of farmers
Cereals	Wheat	DBW-187, K-9423, Black wheat and HD-2967		140.75	360495	110
Oilseeds	Mustard	RH-749		14.5	70950	215
Pulses						
Commercial crops						
Vegetables						
Total				**155.25**	**431445**	**325**

Production of planting materials by the KVKs

Crop	Name of the crop	Name of the variety	Name of the hybrid	Number	Value (Rs.)	Number of farmers
Commercial						
Vegetable seedlings						
	Brinjal	Navkiran		11100	33300	
	Chilli	Surymukhi		7100	21300	
	Tomato	NS-4266		9100	27300	
	Cabbage	Green head		12600	37800	
	Cauliflower	Madhuri, Girija		9600	28800	
	Broccoli	Sakhi, Fantasy		12600	37800	
	Capsicum	Asha		824	2472	
	Knolkhole			1500	4500	
	Drumstick	PKM-1		193	579	
Fruits	Aonla	Root stock		2000		
	Mango	Dasahari, Langda, Chausa, Amrapali, Mallika, Ramkela		40000	3200000	
	Beal	Root stock		10000		
	Jamun	Root stock		2000		
Tuber						
Fodder crop saplings						
Forest Species						
Others						
	Root Slips Perennial Fodder Grasses	Napier	IGFRI-3108	5800	43350	
Total				**124417**	**3437201**	

Production of Bio-Products

Bio Products	Name of the bio-product	Quantity Kg	Value (Rs.)	No. of Farmers
Bio Fertilisers				
	Vermicompost	35000	350000	
Bio-pesticide				
Bio-fungicide				
Bio Agents	Earth Worms	6	6000	
Others				
	Mushroom	177	21250	
	Cow Milk	4514 Liter	203130	
Total				

Table: Production of livestock materials

Particulars of Live stock	Name of the breed	Number	Value (Rs.)	No. of Farmers
Dairy animals				
Cows				
Buffaloes				
Calves		02	10000	
Others (Pl. specify)				
Poultry				
Broilers				
Layers				
Duals (broiler and layer)				
Japanese Quail				
Turkey				
Emu				
Ducks				
Others (Pl. specify)				
Piggery				
Piglet				
Others (Pl.specify)				
Fisheries				
Indian carp				
Exotic carp				
Others (Pl. specify)				
Total				

VII. DETAILS OF SOIL, WATER AND PLANT ANALYSIS

Samples	No. of Samples	No. of Farmers	No. of Villages	Amount realized (Rs.)
Soil	**272**	**272**	**19**	
Water				
Plant				
Manure				
Others (pl.specify)				
Total	**272**	**272**	**19**	

VIII. SCIENTIFIC ADVISORY COMMITTEE

Name of KVK	Number of SACs conducted	Date of SAC
Lucknow	Nil	

IX. NEWSLETTER/MAGAZINE

Name of News letter/Magazine	No. of Copies printed for distribution

X. PUBLICATIONS

Category	Number
Books	
Technical bulletins	**0**
Research Paper	1
Seminar Papers	2
Book Chapters	0
Popular Articles	8
Newsletters	0
Technical reports	30
Others (Abstract)	0
Training Manual	1

XI. DETAILS ON RAIN WATER HARVESTING STRUCTURE AND MICRO-IRRIGATION SYSTEM

Activities conducted				
No. of Training programmes	**No. of Demonstration s**	**No. of plant materials produced**	**Visit by farmers (No.)**	**Visit by officials (No.)**

XII. INTERVENTIONS ON DISASTER MANAGEMENT/UNSEASONAL RAINFALL/HAILSTORM/COLD WAVES ETC

Introduction of alternate crops/varieties

Crops/cultivars	Area (ha)	Extent of damage	Recovery of damage through KVK initiatives if any
Total			

Major area coverage under alternate crops/varieties

Crops	Area (ha)	Number of beneficiaries
Oilseeds		
Pulses		
Cereals		
Vegetable crops		
Tuber crops		
Total		

Farmers-scientists interaction on livestock management

Livestock components	Number of interactions	No.of participants
Total		

Animal health camps organised

Number of camps	No.of animals	No.of farmers
Total		

Seed distribution in drought hit states

Crops	Quantity (qtl)	Coverage of area (ha)	Number of farmers
Total			

Large scale adoption of resource conservation technologies

Crops/cultivars and gist of resource conservation technologies introduced	Area (ha)	Number of farmers
Total		

Awareness campaign

	Meetings		Gosthies		Field days		Farmers fair		Exhibition		Film show	
	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers	No.	No.of farmers

Total												

XIII. DETAILS ON HRD ACTIVITIES

A. HRD activities organized in identified areas for KVK staff by the Directorate of Extension

Name of the SAU	Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
ICAR-IISR, Lucknow	Capacity Building training programme for all staff ICAR-IISR, Lucknow	1	8	
ICAR-ATARI, Kanpur	Attended online Capacity Development Programme for SMSs of KVKs organized by ICAR-ATARI, Kanpur	1	7	
ICAR-IASRI, New Delhi	Online Training Kisan Sarathi organized by IT Unit, ICAR-IASRI, New Delhi	1	7	
ICAR-IIWBR, Karnal	Online training programme on Effective Extension Methods for Upscaling and Outscaling of Wheat and Barley Production Technologies organized by	1	1	
ICAR-NAARM, Hydrabad	Online training programme on enhancing resilience through entrepreneurship	1	1	
Total				

B. HRD activities organized in identified areas for KVK staff by Zonal Project Directorate

Title of the training programmes	No of programmes	No. of Participants	No. of KVKs involved
Total			

XIV. CASE STUDIES (CASE STUDIES MAY BE GIVEN IN DETAIL AS PER THE FOLLOWING FORMAT)

Each Zone should propose a minimum of three case studies with good action photographs (with captions on the backside of the hard copy of the photos) on the following topics

a) ***Effective popularization on a larger scale of any one FLD technology and its role in transformation of district agriculture with respect to that particular crop or enterprise***
b) ***Performance of the end results of any one technology assessed, its refinement if any and its impact in district agriculture with respect to that crop or enterprise***
c) ***Effect of production and supply of seeds and planting material / animal breed / or bio-product and its impact on district agriculture with respect to that crop/ enterprise/ bio-product***

The general format for preparing the above case studies are furnished below

Name of the KVK

TITLE

Introduction

KVK intervention

Output

Outcome
Impact

XIV. AGRICULTURAL TECHNOLOGY INFORMATION CENTRE

A. Details on ATICs

S. No	Name of the ATIC	Name of the Host Institute	Name of the ATIC Manager

B. Details on Farmer's visit

S. No	Purpose of visit	Number of farmer's visited
01	Technology Information	
02	Technology Products	
03	Others if any pl. specify	

C. Facilities in the ATIC which are in operation

S. No	Particulars	Availability (Please √ mark)	Number of ATICs
01	Reception counter		
02	Exhibition / technology museum		
03	Touch screen Kiosk		
04	Cafeteria		
05	Sales counter		
06	Farmer's feedback register		
07	Others if any (please specify)		

D. Technology information provided

D.1. Details on technology information

S. No	Information category	Number of ATICs	Total number of farmers benefitted	Category of information						
				Varieties / hybrids	Pest management	Disease management	Agro-techniques	Soil and water conservation	Post Harvest technology and Value addition	Animal Husbandry and fisheries
01	Kisan Call Centre / other Phone calls from farmers									
02	Video shows									
03	Letters									

	received									
04	Letters replied									
05	Training to farmers / technocrats / students									
06	Others pl. specify									

D.2 . Publications (Print & Electronic media)

S. No	Particulars	Number sold	Revenue generated in Rs.	Number of farmers benefited
01	Books			
02	Technical bulletins			
03	Technology Inventory			
04	CDs			
05	DVDs			
06	Video films			
07	Audio CDs			
08	Others if any (please specify)			

E. Technology Products provided

S. No	Particulars	Quantity	Unit of quantity	Value in Rs.	Number of farmers benefited
01	Seeds		Quintal		
02	Planting materials		Numbers		
03	Livestock		Numbers		
04	Poultry birds		Numbers		
05	Bio-products		Quintals		
06	Others pl. specify				

F. Technology services provided

S. No	Particulars	Number of farmers benefited
01	Soil and water testing	
02	Plant diagnostics	
03	Details about the services to line Departments	
04	Others if any (please specify)	

XV. TECHNOLOGICAL BACKSTOPPING BY DIRECTORATES OF EXTENSION

States covered:

Number of Directorates of Extension:

A. Details on Directors of Extension

S. No	Name of the SAU	Name of the Director of Extension	Number of KVKs for which technological backstopping is provided					
			SAU/CAU	DU	ICAR	NGO	SDA	Others (pl. specify)

B. Workshops / meetings organized

S. No.	Details of workshop/meeting conducted	No. of KVKs participated

C. Visits made by DE / Officials in the Directorate to KVKs

S. No.	Particulars	Number of visits
01	SAC meetings	
02	Field days	
03	Workshops / seminars	
04	Technology week	
05	Training programmes	
06	Others pl. specify	

D. Overseeing of KVKs activities

S. No.	Particulars	Number of fields visited	Major observations / remarks	Major suggestions given
01	On Farm Trials			
02	Front Line Demonstration			
03	Others pl. specify			

E. Publication on Technology inventory

S. No.	Particulars	Number
01	Directorates published the technological inventory	
02	Directorates constantly updating the technological inventory	

F. Technological Products provided to KVKs

S. No.	Major technologies provided	Number of KVKs
01	Seeds	
02	Planting materials	
03	Bio-products	
04	Livestock breed	
05	Livestock products	
06	Poultry breed	
07	Poultry products	
08	Others pl. specify	

XVI Achievement of Special programmes

1) Achievement of skill development training funded by DAC&FW

S. No.	Name of QP/Job role	Duration (hrs)	No. of Courses Organised	No. of Participants						TOTAL
				SCs/STs		Others		Total		
				Male	Female	Male	Female	Male	Female	
1	Agriculture Extension Service Provider	200								
2	Agriculture Machinery Demonstrator	200								
3	Agriculture Machinery Operator	200								
4	Agriculture Machinery Repair and Maintenance Service Provider	200								
5	Animal Health Worker	300								
6	Aquaculture Technician	200								
7	Aquaculture Worker	200								
8	Aquarium Technician	200								
9	Artificial Insemination Technician	400								
10	Assistant Gardener	200								
11	Beekeeper	200								
12	Brackwishwater Aquaculture Farmer	210								
13	Broiler Farm Worker	200								
14	Citrus Fruit Grower	200								
15	Community Service Provider	200								
16	Dairy Farmer - Entrepreneur	200								

17	Fish Seed Grower	210								
18	Floriculturist - Open cultivation	200								
19	Floriculturist - Protected cultivation	200								
20	Forest Nursery Raiser	200								
21	Freshwater Aquaculture Farmer	200								
22	Friends of Coconut Tree	200								
23	Greenhouse Operator	200								
24	Group Farming Practitioner	200								
25	Harvesting Machine Operator	200								
26	Hatchery (Fishery) Production Worker	200								
27	Layer Farm Worker	200								
28	Mango Grower	200								
29	Medicinal Plants Cultivator	200								
30	Micro Irrigation Technician	200								
31	Mushroom Grower	200	1	0	0	19	1	19	1	20
32	Nursery Worker	200								
33	Organic Grower	200								
34	Ornamental Fish Technician	200								
35	Packhouse Worker	200								
36	Quality Seed Grower	200								
37	Seed Processing Plant Technician	200								

38	Seri culturist	200								
39	Service and Maintenance Technician-Farm Machinery	205								
40	Shrimp Farmer	240								
41	Small poultry farmer	240								
42	Soil & Water Testing Lab Analyst	240								
43	Soil & Water Testing Lab Assistant	200								
44	Supply Chain Field Assistant	200								
45	Tea Plantation Worker	200								
46	Tractor Operator	200								
47	Vermicompost Producer	200	1	11	0	9	0	20	0	20
	TOTAL									

2) Achievements under Crop Residue Management (CRM) Project by KVKs : NA

a) CRM Machinery procured by KVKs

S.No.	Name of the Machine/ Equipment	No. of machines procured
1	Happy Seeder	
2	Reversible M.B. Plough	
3	Paddy Straw Chopper/ Shradder / Mulcher	
4	Zero Till Drill	
5	Rotavator	
6	Tractor	
	Total	

b) IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities	No. of Participants
	Kisan Melas organized		
1.	Awareness programmes conducted at Village Panchayat/ Block/ District Level		
2.	Mobilization of schools and colleges through essay completion, painting, debate etc.		
3.	Demonstration conducted (ha)		

4.	Training Programmes conducted		
5.	Exposure visits organized		
6.	Field /harvest days organized		
	Total		

b) Other IEC activities organized under CRM Project by KVKs

S. No.	Name of IEC activity	No. of activities
1.	Advertisement in Print media	
2.	Column / Articles in newspaper and magazines etc.	
3.	Hoarding fixed (at Mandi/ Road side/Market/ Schools/ Petrol pump/ Panchayat etc.)	
4.	Poster/Banner placed	
5.	Publicity material - leaflets/ pamphlets etc. distributed	
6.	TV programmes/ panel discussions Doordarshan/ DD-Kisan and other private channels	
7.	Wall writing	
	Total	

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains (Number in lakh)	Production of fingerlings (Number	Testing of Soil, water, plant, manures samples
No. of Trainings/De	No. of Farmers	No. of Trainings/De	No. of Women Farmers	No. of Trainings/De	No. of Youths	No. of Trainings/De	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

3) Achievement of TSP (Tribal Sub Plan) : NA

4) Achievement of KSHAMTA (Knowledge Systems And Home Based Agricultural Management in Tribal Areas) :NA

Number of Adopted Villages	No. of Activities		No. of farmers benefited	
	Demo	Training	Demo	Training

5) Achievements of SCSP KVKs

Farmer Training		Women Farmer Training		Rural Youths		Extension Personnel		Number of farmers involved			Participants in extension activities (No.)	Production of seed (q)	Production of Planting material (Number in lakh)	Production of Livestock strains	Production of fingerlings (Number in lakh)	Testing of Soil, water, plant, manures
No. of Trainings/Dem	No. of Farmers	No. of Trainings/Dem	No. of Women Farmers	No. of Trainings/Demos	No. of Youths	No. of Trainings/Demos	No. of Ext. Person	On- farm trials	Frontline demos	Mobile agro-advisory to farmers						
84	1638	15	300	9	214	2	53	9	1395	3250	643	155.25	124217		2	272

6) Achievement under IFS KVKs

Sl. No.	IFS (Component Name)	No. of IFS established	Area (ha)	Number of Activities		No. of farmers benefited	
				Demo	Training	Demo	Training
1	Fruit crop	1	0.6965	1	6	56	123
2	Field crop		0.075	3	8	55	0
3	Intercrop crop		0.0285	0	3	15	64
4	Vegetable crop		0.1	7	7	104	144
5	Green fodder		0.1	1	4	25	84
6	Dairy (Animals)		2+2 calf	1	1	30	20
7	Vermicompost		1	1	1	45	40
8	Mushroom Production		1	1	2	60	40
		Total		**15**	**32**	**390**	**515**

7) Achievements under Mera Gaon Mera Gaurav (MGMG) project : NA

No. of institutes/ universities involved	Total No of Groups/team formed	No. of Scientists Involved	No. of villages covered	No. of field activities conducted	No. of messages/ advisory sent	Farmers benefited (No.)
5	1	5	5	2	45	269

8) Achievements of Farmers FIRST programme :NA

NRM Module		Crop Module		Horticulture Module		Livestock & Poultry			IFS Model		Extension Activities	
Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	Demon.	No Farm Families	No of Animals	Demon.	No Farm Families	No. of prog	Farmers

9) Activities performed under NARI programme

Nutritional Garden		Bio-fortified crops		Value addition		Training programmes		Extension activities	
No of Established	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries	No of activity	No. of farmers/ beneficiaries
200	200	0	0	3	70	**12**	**240**	4	464

Table-9.2: Details of Bio-Fortified Crops used for nutritional security under NARI programme

Category	Bio Fortified Crop	Variety	Area (ha)	No of Beneficiaries
Cereal	Maize			
	Rice			
	Wheat			
Millet	Finger millet			
	Pearlmillet			

	Sorghum			
Oilseed	Groundnut			
	Mustard			
Pulses	Lentil			
	Lathyras			
Vegetable	Cauliflower			
Tuber	Sweet Potato			
Total				

10) Achievements of Soil, water, plant and manure samples analyzed by KVKs and soil health cards issued

Sample	No. of Samples in lakh	No. of Farmers in lakh	No. of Villages in lakh	Amount realized (Rs. in lakhs)	No. of Soil Health Cards issued (lakhs)
Soil	272	272	19		
Water					
Plant					
Manure					
Total					

11) Achievements under NICRA Project

NRM		Crop production		Livestock & Fisheries			Capacity Building		Extension Activities	
Demo	Area (ha)	Demo	Area (ha)	Demo	Area (ha)	No. of animals	No of Courses	Farmers	No. of programmes	Farmers

12) Achievements under ARYA Project

Name of entrepreneurial units	No. of entrepreneurial units established	No. of Training programs organised	No. of rural youth trained		No. of youth established units	
			Male	Female	Male	Female
Mushroom production	32	2	31	1	31	1
Fruits and vegetable processing units,	1	1	0	30	0	1
Horticulture nursery	4	1	20	0	4	0
Fish farming						
Poultry						
Goat farming						
Piggery						
Duck farming						
Bee keeping						
Others if any						

13) Achievements under Rainwater Harvesting Structures

Sr. No.	Activities	Number
1	Training programmes	
2	Demonstration	
3	Plant materials produced	
4	Visit by farmers	42
5	Visit by officials	26

14) Achievements under Pulses Seed Hub programme : NA

Season/Crop	Name of Pulse crop	Variety	Production			Category of seed (F/S, C/S)
			Target (q)	Area sown (ha)	Actual Production (q)	
Kharif	Black gram					
	Green Gram					
	Pigeon pea					
Total (Kharif)						
Rabi	Chick pea					
	Field pea					
	Lentil					
Total (Rabi)						
Summer	Black gram					
Total (Summer)						
Grand Total						

15) NEMA (New Extension Methodologies and Approaches) :NA

Name of Crop with variety	No. of districts	No. of Villages selected	No. of Blocks	No. of household selected	
				Adapter household	Non adapter household

16) Achievements under CSISA (Cereal System Initiative for South Asia) project: NA

S.No.	Name of Programme	Number/quantity
1	Plantation by paddy uppulling	
2	DSR	
3	Laser leveler	
4	Training	
5	Kisan Mela	
6	Seminar	
7	Seed production (q)	

17) Achievements under NIFTD (National Initiatives for fodder technology demonstrations) NA

Name of fodder	Variety	Production (q)	Training courses	No. of farmers benefitted

18) Achievements under Swachhata Abhiyan Mission

S.No.	Items	No. of Programmes	No. of persons paticipated
1	Toilet maintenance	5	40
2	Road, drain cleaning	12	125
3	Garbage disposal	4	45
4	Door to door awareness	70	1345
5	Awareness campaign	02	243
6	Nookkad Drama		
7	School Drama		
8	School rally		
9	Writing paining slogans		
10	Composting	42	191
11	Other		

19) Achievements under Aspirational District Scheme :NA

Name of programme	Number
Training	
Session No.	
No. of farmers	
Officers/staff involved	
Seed & Plant Distribution	
Programme number	
Seed distribution in q	
No. of plant distributed	
Biological products distributed	
No. of programme organised	
No. of farmers	
Officers/staff involved	

Animal husbandra & fish distribution programme	
Vaccination	
Medicine for control of parasite	
Distribution of mineral mixure	
No. of farmers	
Officers/staff involved	

XVI Awards

S.No.	**Name of Award received**	**Name of KVK/farmer**	**Year of Award**	**Date on which award received**
1	Best worker Award	Dr. Viveka Nand Singh	2021	16.02.2021
2				

Note: Please also mention name of farmer who received the award.

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