

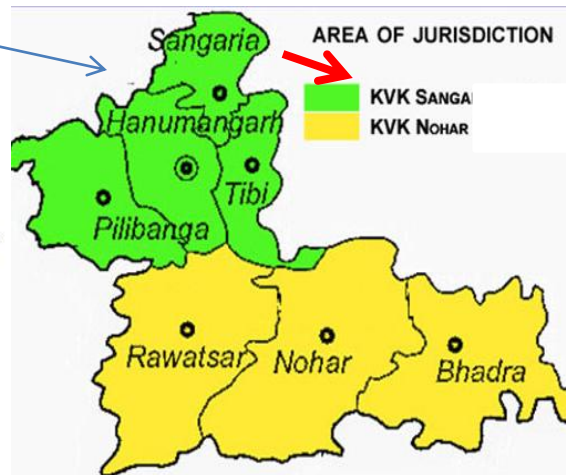
KRISHI VIGYAN KENDRA, HANUMANGARH-I Annual Progress Report (2020)

Dr. Anoop Kumar
Senior Scientist & Head



**GRAMOTTHAN VIDHYAPEETH,
SANGARIA (Raj.)**





Agro-Climatic Zone = IB

Geographical area = 9,70,315 ha

Cultivated area = 8,86,000 ha

Irrigated area = 3,74,357 ha

Rainfed area = 5,11,643 ha

Average rainfall = 250-300 mm

Soil type = Sandy Loam to loamy sand

Staff position = All positions are filled.

Average temperature = Maximum 48°C and Minimum 02°C

Farming system = Agriculture/Animal Husbandry/ Horticulture/Fisheries/Poultry

Kharif crops= Cotton, Paddy, Clusterbean, Pear millet, Mungbean, Mothbean, Groundnut and Sesamum.

Rabi crops= Wheat, Mustard, Chickpea, Barley and Taramera.

Major problems

1. Poor quality & discharge of under ground water.
2. Soil erosion and low soil fertility.
3. Short-term/long-term drought possibility due to untimely, inadequate and uneven distribution of rainfall.

Positive points= Large holdings per farmer. Adequate availability of canal water for irrigation. Soil is suitable for cultivation of Cotton, Paddy, Wheat, Barley, Chickpea, Mustard, Castor, Kinnow etc. crops. Adequate availability and use of improved agricultural equipments. Regular and balanced supply of agricultural inputs



District Agromet Unit –Aug.2019

India meteorological Department



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No. of Blocks for which Agromet Advisory is Prepared

7 Blocks

Total Advsiory- 159

Special advisory-3 (Frost, Tauktae and Very heavy rainfall (19 Aug 20)

General advisory-156

No. of FAP organised- 14

Total benefited farmers- 779

Total SMS on M-kisan- 25

Total benefited through M-kisan farmers- 70779

- Total No. of WhatsApp group- 67 (Farmers – 15667)
- No. of village covered- 1913

Status of media coverage/articles/Paper published

No. Of advisory published in local News paper/ TV/ Radio broadcast	No. of Folders/ Articles paper published in 2019-20	No. Of research paper published in 2019-20
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Newspaper- 48
T.V.- 6

Folders- 4
Articles- 3

1

आंधी-बाबरिया कृषि मौसम सेवा (राज्य मौसम विज्ञान विभाग)		कृषि विभाग, अन्न, जलसंधारण-1	
दिनांक : 23-06-2021	दिनांक : 03-07-2021	दिनांक : 03-07-2021	दिनांक : 03-07-2021
बनौटिया	29.06.2021	30.06.2021	01.07.2021
आंधी	29	29	29
बाबरिया	28	28	28
मौसम	27	27	27
अधिकतम तापमान (दिने)	36	36	36
न्यूनतम तापमान (रात्रि)	24	24	24
आर्द्रता	62	62	62
शुष्कता सूचकांक (सहस्रवत्)	27	27	27
पवन की दिशा/वेग	32	32	32
वहल की दिशा	पश्चिम	पश्चिम	पश्चिम

कृषि विभाग, अन्न, जलसंधारण-1	
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हनुमानगढ़ भास्कर 03-06-2021

नौतापे में मानसून सी ठंडक: 5 दिन में निरा 9 डिग्री तापमान, आगामी दो दिन आंधी-बारिश की संभावना

हनुमानगढ़/जिले में बुधवार को मौसम सुखानवा रहा। हाल ही में सक्रिय हूप पश्चिमी विक्षोभ के चलते बीती 2 दिनों में 9 डिग्री तापमान गिरा है। खान बला यह है कि 25 से 27 माई तक उच्चतम तापमान 46 डिग्री तक पहुंच चुका था। मौसम वैज्ञानिकों के मुताबिक, नीचा के 9 दिन में राजस्थान का औसत तापमान 45 डिग्री होगा है, लेकिन बुधवार को यह 36 के आसपास ही रहा। शाम 4 बजे बाद आसमान और बादलों और ठंडी हवाओं ने भी पूरे को बढ़ने नहीं दिया। ऐसे में दिन को तपने से तो राहत मिली। रात भी ठंडी ही गई है। मौसम विभाग कि माने तो बहुरे क्षेत्र में बारिश-आंधी की संभावनाओं की रही है। इसका प्रभाव भाबर, जोहर, राजबंसर क्षेत्रों में भी देखा जा सकता है। जिले में आंधी-बारिश का विलंबिता आगामी 2-3 दिन संभावित है। इस विभाग के प्रभाव से एक दो जगहों पर तेज वर्षा तथा ओलासूडि भी दर्ज की जा सकती है। वहीं मौसम में आए इस बदलाव के चलते इस बार मौसम अपने निर्धारित समय से पहले राजस्थान पहुंच सकता है।

हनुमानगढ़ भास्कर 23-06-2021

बदलता रहा मौसम: 24 और 26 को आंधी, हल्की बारिश के आसार

माहुर संवाददाता/ हनुमानगढ़

जिला मुख्यालय पर मौलवार को पूरे दिन मौसम बदलता रहा। दोपहर तक जहाँ धूप रही वहीं शाम के बाद धूल भरी हवाएं चली। इससे मौसम में ठंडक महसूस की गई। सोमिया मौसम केन्द्र के अनुसार ज्यादातर हिल्लियों में शुष्क मौसम का दौर रहा। वर्तमान स्थिति के अनुसार आगामी दिनों में भी मौसम गर्म और ज्यादातर हिल्लियों में शुष्क रहने के आसार हैं। पूर्वोत्तम के अनुसार जिले में 24 और 26 जून को कहीं-कहीं आंधी, छुटपुट या हल्की बारिश हो सकती है। भाबर, जोहर क्षेत्र के बहुरे सोमियावी क्षेत्रों में मध्य तथा जिले के अन्य

मौसम ने मारी पलटी, हल्की बूदाबादी से तापमान में गिरावट

मौसम विभाग ने जारी किया था अलर्ट, किसानों को भी किया सबैत

प्रदीप कान

हनुमानगढ़। मौसम विभाग के पूर्वोत्तम अंशदायक पश्चिमी विक्षोभ के फिर से सक्रिय होने से इलाकों में मौसमबदल अलग बूदाबादी मौसम ने एक बार फिर मारी मारी। मौसमबदल को हनुमानगढ़ जिले में घेरावजन के साथ हल्की बारिश हुई। बूदाबादी में मौसम सुखानवा हो गया। आंधी के कारण दिन में ही अतिरिक्त गर्म हो गया। जिले में मुसलाधार के आसपास आसपास के गांवों में भी हल्की बूदाबादी होने से मौसम में ठंडक का अनुभव हुआ। पश्चिमी विक्षोभ के चलते मौसम विभाग ने सोमवार रात से मौसमबदल दोपहर तक तीन घण्टे के समय बारिश की संभावना जारी की थी। इसके बाद मौसमबदल बूदाबादी होने से आसपास में बालूब हवाएं चले। देरको ही देरको हल चकते लोगों और बूदाबादी का विलंबिता दर्ज हो गया। बारिशों के गर्म के साथ ही बूदाबादी शुरू हो गई। बारिशों की छुटपुट बारिश होने से पूरा नहीं मिले। पश्चिमी विक्षोभ के कारण एक एक पश्चिमी तालाबजल में बारिश शुरू हुई है। अतिरिक्त तापमान में गिरावट के से गर्मी से राहत मिली है। एकपे में रात पड़ी

हनुमानगढ़ भास्कर 23-05-2021

पश्चिमी विक्षोभ ने बदला मौसम, दोपहर तेज धूप के बाद देर रात को चली आंधी

कहीं बारिश तथा ओलासूडि की प्रभाव संभावना बना रही है। मौसम विभाग ने किसानों को सुझाव दे रहे हैं। कृषि मंडलों में सूखे आसपास में रहते हुए अनाज की खेतीकर या सुकृतिता खान पर रहे ताकि जलें भीगने में अपना जोर बने। यदि अपने आसपास घेरावजन की आवश्यकता हुई दिखाने की तो पूरे के नीचे रातमा जा लें। तेज अंतक के समय अडे धूपों के नीचे घ बचने सुझावों में सुराज लेने से बचें। तेज अंतक से किसानों के तात के दूधों पंपों के सभ्य उपयोग बका सुझावें। बारिशों के विलंबित की संभावना बड़ी है। इससे 40 से 50 फिलोमीटर प्रति घंटे की रफ्तार से भूतभीन तबा-आंधी बचने के साथ जारी-आलक विषय साधनाची है।

डा. अशुप कुमार
श्री. कल्पेश्वर रानी
डा. कुलदीप सिंह
प्रदीप कुमार

हनुमानगढ़ भास्कर 23-05-2021

ग्रामीण कृषि मौसम सेवा

(भारत मौसम विज्ञान विभाग)

मौसम आसारित प्रामाण्य सेवा का कृषि में योगदान

डा. अशुप कुमार
श्री. कल्पेश्वर रानी
डा. कुलदीप सिंह
प्रदीप कुमार

हनुमानगढ़ भास्कर 23-05-2021

OFT: Use of liquid bio fertilizers in chickpea (Rabi 2020-21) 2nd

Problem identified:- Chickpea is a major pulse crop and has good possibility to increase its production by inoculation with Rhizobium & PSB culture to the seed or to the soil even in fields where chickpea have been grown for many years. At present, Bio-fertilizers are supplied to the farmers as carrier based inoculants. Its consumption is not very satisfactory due to certain disadvantages associated with CB inoculants, while liquid bio fertilizer does not have these disadvantages.

Technology option & Performance

No. of replication:- 10

Technology Option	Yield (q/ha)	Increase in yield (%)	Net Returns (Rs./ha)	B:C Ratio	No. of nodules ⁻¹ per plant
No use of Bio-fertilizers. (Control)	16.95	--	62664	3.11	13
Use of Bio-fertilizers as per recommendation (CBI. (RP)	18.00	6.19	71337	3.30	28
Use of liquid Bio-fertilizers (Assessment)	18.74	10.56	72202	3.42	35

Source of technology:- *Tamilnadu Agricultural University, Coimbatore*

Results:- The effect of liquid and carrier based bio-fertilizers on grain yield was significant. Higher yield was recorded with liquid bio-fertilizers (17.82q/h) over carrier based bio-fertilizer treatment (17.20q/h) and un-inoculated control (16.25q/h). At vegetative stage, a significant increase in nodulation was observed with both liquid and carrier based bio-fertilizers over control treatment.

OFT : Brown Plant hopper management in paddy (Kharif 2020) 2nd

Problem identified:- Brown plant hopper is a major pest in paddy crop. They damaged rice directly through feeding and also by transmitting two viruses i.e. rice ragged stunt virus and rice grassy stunt virus. Up to 60% yield loss is common in susceptible rice cultivars attacked by the insect.

Technology option & Performance

No. of replication:- 10

Technology Option	Pest reduction (%)	Yield (q/ha)	Net Returns (Rs./ha)	B:C Ratio
Spray of Buprofezin 25 SC @ 1.5 ml/lt (Farmers practice)	70.45	58.50	122500	3.31
Spray of Pymetrozine 50WG @ 0.70 gm/lt (Assessment)	86.23	61.50	131182	3.46

Source of technology:- PAU, Ludhiana

Results:- The highest yield, B:C ratio and present pest reduction was obtained T₂ treatment Pymetrozine 50WG @ 0.70 gm/ltr. spray. The highest longevity duration of pest out break was find in T₂ treatment.

Farmers reactions:- Spraying of Pymetrozine 50 WG @ 0.70 gm/lit of water was more effective in terms of pest reduction and cost of cultivation.

OFT: Stem borer management in sorghum (Kharif 2020) 1st

Problem identified:- Sorghum is an important fodder crop which infested by stem borer from 25 DAS and dead hearts appear on 30-40 days old crop. It is regularly causing economic losses during kharif seasons. The existing chemicals are not controlling the insect and farmers are incurring heavy losses of fodder yield and poor quality.

Technology option & Performance

No. of replication:- 10

Technology Option	Pest reduction (%)	Yield (q/ha)	Net Returns (Rs./ha)	B:C Ratio
T ₁ -Lambda Cyhalothrin 5% EC @ 1.5 ml/lit. (FP)	62.25	470	33844	1.82
T ₂ - Chlorantraniliprole 18.5% SC @ 0.40 ml/lit. (Assessment)	70.22	498	36539	1.86
T ₃ -Tricogramma chilonis 2.5 lac. egg parasite/ha two time at one week interval (Assessment)	76.43	503	38064	1.89

Results:- The highest yield, B:C ratio and percent pest reduction was obtained T₂ and T₃ treatment. The highest longevity duration of pest outbreak was found in T₂ and T₃ treatment.

Farmers reactions:- Use of Tricogramma chilonis egg parasite and spray of Chlorantraniliprole 18.5% SC were found highest longevity duration and pest outbreak.

Source of technology:- PAU, Ludhiana

OFT: Sucking pest management in Tinda (Kharif 2020) 1st

Problem identified:- Tinda is a popular vegetable in the area. Thrips suck the sap from the leaves regularly, due to this yellowing and drooping of leaves & flowers. As a result, the size and quality of fruits are affected. New molecules are available in the market for thrips management in tinda crop, which are quite effective.

Technology option & Performance

No. of replication:- 10

Technology Option	Pest reduction (%)	Yield (q/ha)	Net Returns (Rs./ha)	B:C Ratio
T ₁ -Use of Fipronil 5% SC @ 1.5 ml/lit. water. (Farmers practice)	58.78	60.10	65277	2.52
T ₂ -Use of Emamectin benzoate 5% SG @ 0.4 gm/lit. water. (Assessment)	78.45	85.40	98775	2.99
T ₃ -Use of Neem based insecticide (300 PPM) @ 5 ml/lit. water (Assessment)	62.10	66.30	75708	2.73

Results:- Spraying of 0.4 g Emamectin benzoate 5% SG per liter of water for thrips management was found effective as well as increased production, net profit and B:C ratio

Farmers reactions:- Spray of Emamectin benzoate 5% SG was more effective in terms of pest reduction and economics.

Source of technology:- TAU, Coimbatore

OFT: Nutrient management in kinnow through foliar (2020) 1st

Problem identified:- Kinnow, has become an important variety in north India occupying a major part of area under cultivation of fruit crops. It is a well established fact that deficiency of nutrient deteriorates vegetative growth quality and production of fruit and causes heavy flower and fruit drops which resulted in production of poor quality fruit coupled with yield losses.

Technology option & Performance

No. of replication:- 10

Technology Option	Yield (q/ha)	Increase in yield (%)	Net Returns (Rs./ha)	B:C Ratio
One spray of multi micro nutrients (Six elements) (Control)	337.0	--	227264	3.50
Three spray of ZnSO ₄ 0.3% + K ₂ SO ₄ 0.8% +MgSO ₄ 0.2% + MnSO ₄ 0.2% + Urea 0.15% from third week of May to August. (Assessment)	379.1	12.5	302043	4.20

Source of technology:- Central Citrus Research Institute, Nagpur

Results:- The quality, size and yield of fruits increased by 12.5% after 3 sprays of macro and micro plant nutrients at 20 days interval at fruit growth stage (during June to August) in Kinnow.

Farmers reactions:- Farmers realized that the spray of macro and micro nutrients resulted in reduction of immature fruit dropping as well as increase in yield and quality of fruits.

OFT: Micro nutrient management in onion (2020) 1st

Problem identified:- Onion is a cash crop the grown mainly in summer season. Nutrients play a major role in production. Nutrients normally applied in soil at primary stage of crops by the farmers. But foliar spray of micro nutrients at bulb stage may play a major role in increase the yield. So we design an on farm trial for study the impact of foliar spray of micro nutrients.

Technology option & Performance

No. of replication:- 10

Technology Option	Yield (q/ha)	Increase in yield (%)	Net Returns (Rs./ha)	B:C Ratio
No use of micro nutrients (Farmer's practice)	233.9	--	211848	2.80
One spray of multi micro nutrients (Six elements) (Assessment)	245.7	4.8	225968	2.90

Source of technology:- CCSHAU, Hissar

Results:- The yield of bulbs increased by 4.8% after 1 sprays of multi micro nutrients (six elements) at 50 day after plantation @ 4gml per liter of water.

Farmers reactions:- Farmers realized that the spray of multi micro nutrients resulted increase in yield and quality of bulbs.

OFT: Use of probiotic to improve milk production in cattle (2020-21) 2nd

Problem identified: low milk production.

Digestibility of feed and fodder affect milk production, use of probiotics improve digestibility by increasing micro-flora in rumen.

Replications-10 animals (Cross breed HF cow)

2-3rd lactation

Technology option & Performance

Treatments	Ave. Milk Prod. (lit./day)	Av. increase in milk production	cost of feeding (Rs. / Ani. / day)	Gross return (Rs. / Ani. / day)	Net Returns (Rs./Animal/day)	B:C Ratio
Balanced feed. (no use of probiotics).	11.1	25.23%	164.2	288.6	124.4	1.76
Balanced feed + Probiotics 20 gm per day . (Assessment)	13.9		189.8	361.4	171.6	1.9

Average sale rate of milk is – Rs. 26/kg

Duration of trial: 60 Days

Source of technology: AAU, Anand

Results:- The results indicate that use of probiotics improve digestibility of animal by increasing micro-flora in rumen. Resulting milk yield improves.

Farmers reactions:- Farmers were satisfied with the performance of probiotics.

OFT: Effect of chelated mineral mixture on milk yield in buffalo (2020-21) 2nd

Problem identified : Low milk production in lactating buffalo

Use of Chelated Mineral mixture improve absorption of minerals in GI track with low dose as compare to mineral mixture.

Replications 10 animals (Murrah Cross)

Technology option & Performance

2-3rd lactation



Treatments	Ave. Milk Prod. (lit./day)	Increase in milk production (%)	cost of feeding (Rs./Ani./day)	Gross return (Rs./Ani./day)	Net Returns (Rs./Ani./day)	B:C Ratio
Balance feed including Mineral mixture (FP)	19.11	24.54	273.05	535.08	262.03	1.96
Balance feed + Chelated Mineral mixture (30g/day) (Assessment)	23.80		283.96	666.4	382.44	2.35

Note:-Average sale rate of milk is - 28Rs.

Duration of trial: 60 Days

Source of technology: AAU, Anand

Results:- The results of the trial indicate that use of Chelated Mineral mixture improve uptake minerals in GI track with low dose as compare to mineral mixture. Resulting milk production and health improves.

Farmers reactions:- Farmers were satisfied with the performance of chelated mineral mixture & health of animal improves.

CFLD (NFSM) on Moong (Kharif-2020)

Area : 20 hectare
No. of Demon. : 50

Variety – MH 421
Local check – SML 668

State average yield : 5.59 q/h (2019-20)

District average yield : 3.86 (2019-20) q/h

Demonstration yield (q/ha)			Local check yield (q/ha)	% Increase in yield
High.	Min.	Av.		
14.80	7.80	9.33	7.59	22.92

MSP : Rs. 7196/- qtls (Rabi 2020-21)

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	18613	16336
Gross Return(Rs./ha.)	67139	54618
Net Return (Rs./ha.)	48526	38282
B:C Ratio	3.61	3.34

Extension activities under CFLD (Moong) conducted:

Field days (3)	:	89 participants
Field visit (7)	:	168 participants
Media coverage (1)	:	Not fixed

Technical feedback:-

1. Need of varieties, having tolerance or resistance to yellow mosaic virus and low water requirement.
2. Need of research on bio pesticides to control white fly & pod borer.

Framer's reactions:-

1. Good response of the variety and basal application of fertilizers.
2. Good response of bio pesticides against white fly & pod borer.



Impact on CFLD (MH-421, a mungbean variety with full package)

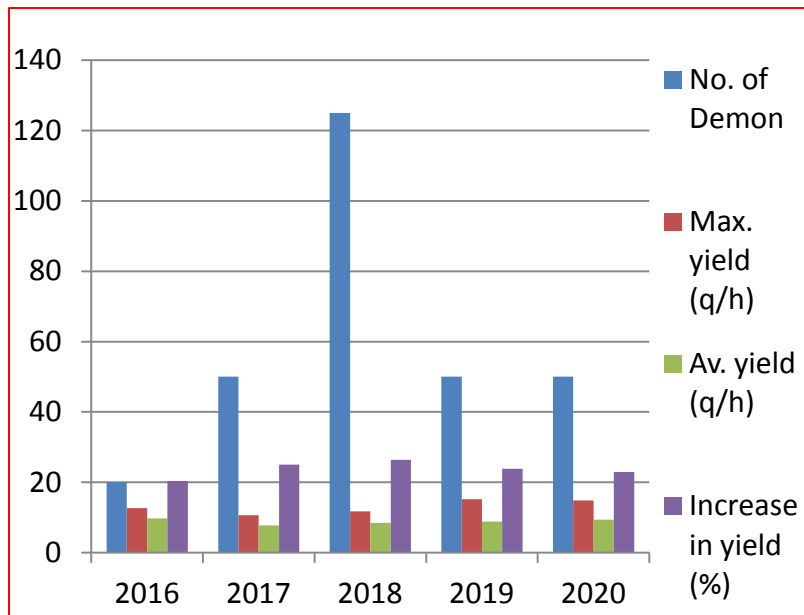


Fig.: Year-wise details of CFLDs

Included in POP (2019)

Now a day, this variety is sown in 18,700 ha of the total area sown under mungbean in the district.

Table : Details of CFLDs

Year	Area (ha)	No. of Demon	Yield (Q/ha)		Increase in yield (%)	Year wise adoption (ha)
			Max.	Av.		
2016	8	20	12.60	9.70	20.35	500
2017	20	50	10.63	7.70	25.00	4000
2018	50	125	11.80	8.44	26.34	8100
2019	20	50	15.20	8.84	23.81	16000
2020	20	50	14.80	9.33	22.92	18700

Variety MH 421 is suitable for the area due to short duration (60-65 days) and good yield potential. Medium seed size (32g per 1000 seeds) with light green color hence the market price is higher than existing variety



CFLD (NFSM) on Mustard (Rabi-2020-21)

Variety – RH-725
Local check – Laxmi (RH 8812)

Area : 67.6 hectare
No. of Demonstration : 169

State average yield (2019-20) : 15.86 q/h

District average yield (2019-20) : 13.95 q/h

Demonstration yield (q/ha)			Local check yield (q/ha)	% Increase in yield
High.	Min.	Av.		
24.90	16.00	21.69	18.10	19.83

Sale price: Rs.5200-5500/- quintal
MSP : Rs. 4650/- quintal (Rabi 2020-21)

Sale price of straw: Rs.150/- quintal

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	23727	23332
Gross Return(Rs./ha.)	124128	103600
Net Return (Rs./ha.)	100401	80268
B:C Ratio	5.23	4.44

CFLD (NFSM) on Mustard (Rabi-2020-21)

Variety – RH-0749
Local check – Laxmi (RH 8812)

Area : 67.6 hectare
No. of Demonstration : 169

State average yield (2019-20) : 15.86 q/h

District average yield (2019-20) : 13.95 q/h

Demonstration yield (q/ha)			Local check yield (q/ha)	% Increase in yield
High.	Min.	Av.		
26.40	16.00	20.52	18.10	13.37

Note:- Sale price: Rs.5200-5500/- quintal
MSP : Rs. 4650/- quintal (Rabi 2020-21)

Sale price of straw: Rs.150/- quintal

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	23727	23332
Gross Return(Rs./ha.)	117510	103600
Net Return (Rs./ha.)	93783	80268
B:C Ratio	4.95	4.44

Extension activities under CFLD (Mustard) conducted:

Field days (6)	:	252 participants
Field visit (15)	:	570 participants
Media coverage (2)	:	Not fixed

Framer's reactions:-.

1. Farmers were satisfied with the performance of RH-725 variety of mustard in reference of seed yield. This variety can be an alternative to Laxmi (RH-8812) variety in this region..
2. Good response of basal application of fertilizers.

Technical feedback:-.

1. Development of frost resistant bold seeded varieties of mustard.
2. Need for research on planting space in mustard crop.
3. Strong strategies should be developed for *Sclerotinia* stem rot disease in mustard.
4. Evaluation of some effective herbicides to control of weeds in mustard.

Impact on CFLD (RH-0749, a mustard variety with full package)

Table : Details of CFLDs

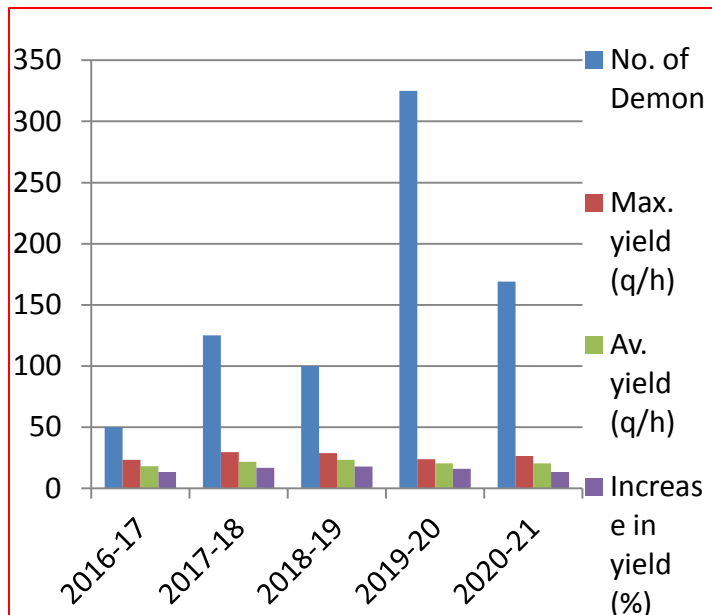


Fig. : Year-wise details of CFLDs

Suitable for wider spacing (45 cm)

Variety RH 0749 is suitable for the area. Maturity period is 146-148 days and average yield is 24-26 q/ha. Seed are bold and contain 39-40 per cent oil.

Year	Area (ha)	No. of Demon	Yield (Q/ha)		Increase in yield (%)	Year wise adoption (ha)
			Max.	Av.		
2016-17	20	50	23.40	18.03	13.25	3000
2017-18	50	125	29.60	21.76	16.80	7400
2018-19	40	100	28.80	23.36	17.81	12300
2019-20	130	325	23.80	20.45	16.00	15600
2020-21	67.6	169	26.40	20.52	13.37	21900

Due to technology intervention

- Yield increased up to 17.81%.
- Infestation of Sclerotinia stem rot disease reduced.
- 15,600 ha area covered of the total area of mustard by RH 0749.



CFLD (NFSM) on Chickpea (Rabi-2020-21)

Variety – GNG-2171

Local check – GNG-663

Area : 10.4 hectare

No. of Demonstration : 26

State average yield (2019-20) : 10.80 q/h

District average yield (2019-20) : 6.27 q/h

Demonstration yield (q/ha)			Local check yield (q/ha)	% Increase in yield
High.	Min.	Av.		
22.80	16.40	18.74	15.92	17.71

Note:- Sale price: Rs.4700-5000/- quintal
MSP : Rs. 5100/- quintal (Rabi 2020-21)

Sale price of straw: Rs.150/- quintal

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	30521	28097
Gross Return(Rs./ha.)	96502	82000
Net Return (Rs./ha.)	65981	53903
B:C Ratio	3.16	2.92

CFLD (NFSM) on Chickpea (Rabi-2020-21)

Variety – GNG-2144
Local check – GNG-663

Area : 9.6 hectare
No. of Demonstration : 24

State average yield (2019-20) : 10.80 q/h

District average yield (2019-20) : 6.27 q/h

Demonstration yield (q/ha)			Local check yield (q/ha)	% Increase in yield
High.	Min.	Av.		
22.20	16.40	18.23	15.92	14.51

Note:- Sale price: Rs.4700-5000/- quintal
MSP : Rs. 5100/- quintal (Rabi 2020-21)

Sale price of straw: Rs.150/- quintal

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	30521	28097
Gross Return(Rs./ha.)	93898	82000
Net Return (Rs./ha.)	63377	53903
B:C Ratio	3.08	2.92

Extension activities under CFLD (Chickpea) conducted:

Field days (3)	:	115 participants
Field visit (9)	:	246 participants
Media coverage (2)	:	Not fixed

Technical feedback:-

1. Need for effective herbicides to control pyaji (*Asphodelus tenuifolius*) in gram crop

Framer's reactions:-

1. Good response of the varieties and basal application of fertilizers.
2. Good response of trichoderma against wilt & root rot diseases



Impact on CFLD (GNG-2171, a chickpea variety with full package)

Table : Details of CFLDs

Year	Area (ha)	No. of Demon	Yield (Q/ha)		Increase in yield (%)	Year wise adoption (ha)
			Max.	Av.		
2017-18	2	5	24.00	21.52	28.17	1000
2018-19	16.8	42	26.80	19.72	22.87	6000
2019-20	11.2	28	23.60	18.30	15.38	18000
2020-21	10.4	26	22.80	18.74	17.71	26000

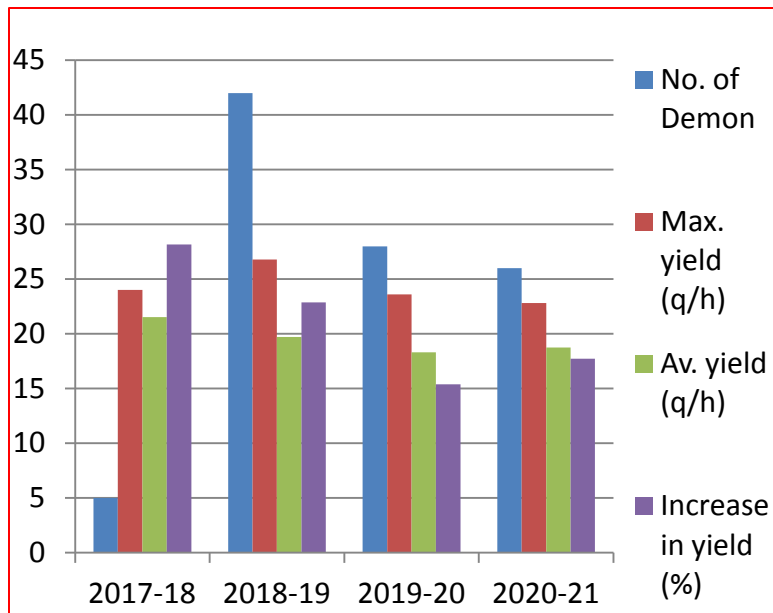


Fig. : Year-wise details of CFLDs

Due to technology intervention

- Yield increased up to 28.17 per cent.
- GNG-2171 (Meera) variety is being sown in about 26,000 hectare area of the district.

Variety GNG-2171 (Meera) (released in 2017) is suitable for the area. Maturity period is 150 days and average yield is 24 q/ha. Seed are medium (Test weight 16.5 g). Suitable for timely sowing in irrigated conditions.



FLD on IPM in Bt. Cotton (Kharif-2020)

Area (ha) - 4

No. of Demon. 10

Technology demonstrated – IPM module

Local check – Farmer's practice

State average yield (2019-20) : 6.23 q/h

District average yield (2019-20) : 7.04 q/h

Yield (q/ha)				% Increase in yield
High.	Min.	Av.	Local check	
24.25	16.20	20.18	16.45	22.67

Note:- Sale price: Rs.5440-5665/- quintal

MSP : Rs. 5665/- quintal (Rabi 2020-21)

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	61758	60513
Gross Return(Rs./ha.)	114320	93189
Net Return (Rs./ha.)	52562	32676
B:C Ratio	1.85	1.54

Technical feedback:- Para wilt management in cotton

Framer's reactions:- Neem oil helps to manage sucking pests and buildup population of natural enemies. Cost of chemical pesticides reduced.

Yellow sticky trap in Bt cotton used for monitoring and management of sucking pests like whitefly, thrips and red mites effectively.

FLD on Trichoderma in Chickpea (Rabi-2020-21)

Area : 4 hectare
No. of Demonstration : 10

Variety – GNG 1581

State average yield (2019-20) : 10.80 q/h

District average yield (2019-20) : 6.27 q/h

Yield (q/ha)				% Increase in yield
High.	Min.	Av.	Local check	
20.25	16.13	18.59	16.45	13.00

Note:- Sale price: Rs.4700 -5000/- quintal
MSP : Rs. 5100/- quintal (Rabi 2020-21)

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	29971	28471
Gross Return(Rs./ha.)	92950	82250
Net Return (Rs./ha.)	62979	53779
B:C Ratio	3.10	2.90

feedback:- Trichoderma is easily available in market. Farmers can be preparing at own farm.

FLD on Broccoli (Rabi-2020-21)

Area : 0.5 hectare
No. of Demonstration : 10

Variety – Green magic
Local Check-Cabbage

Yield (q/ha)				% Increase in yield
High.	Min.	Av.	Local check	
258.2	211.5	237.7	249.7	(-) 4.7

Note:- Sale price of broccoli: Rs.1600-1800/- quintal

Sale price of cabbage: Rs.800/- quintal

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs/ha)	68954	65358
Gross Return(Rs./ha.)	427860	199520
Net Return (Rs./ha.)	358906	134162
B:C Ratio	6.20	3.10

feedback:- Yield of crops is at par but B:C Ratio from Broccoli is very high due to its higher market price with good yield.

FLD on Kitchen Gardening (2020)

Area under each demonstration : 150 sqm
 No. of Demonstration : 20

Duration : One year

<i>Average Yield (Kg)</i>		% change in yield	<i>Other parameters (Availability of fresh vegetables)</i>	
<i>Demo</i>	<i>Local check</i>		<i>Demo</i>	<i>Local</i>
341.4	128.9	164.9	Maximum	Least

Local check : 2 or 3 vegetables only

Economics

	Demonstration Plot	Farmer's Existing Plot
Gross Cost (Rs)	990	615
Gross Return(Rs)	10242	3867
Net Return (Rs)	9252	3252
B:C Ratio	10.3	6.2

Farmers' reactions:- Kitchen gardening can improve health, save money, maximum use of space in backyard and even wonderful activity for relive stress.
 Availability of fresh and chemical free vegetables.
 Improvement in dietary intake and nutritional status..

FLD on Use of by-pass protein with mineral mixture - 2020

No. of Demon. :

10

Animal – cross breed HF cow 2 (10) 2-3rd lactation

Milk Yield (lit./day)				% Increase in yield
Animals under demonstration			Local check animals	
High.	Min.	Av.	Av.	
23	16.5	19.3	15.4	25.32

Economics

	Demonstration	Farmer's practice
Gross Cost (Rs/ha)	233.28	180.4
Gross Return(Rs./ha.)	521.1	338.8
Net Return (Rs./ha.)	287.82	158.4
B:C Ratio	2.23	1.88

Results:- Average milk production increased with Fat% and SNF% as compare to normal feeding of animal at farmer's level. Due to this, sale price of milk is also increased at milk collection center from 20 Rs/lit to 26.00 Rs/lit. Animal health condition also improved.

Framer's reactions:- Farmer's were satisfied with feeding by pass protein with mineral mixture in terms of milk density/viscosity and sale price..

FLD on Anestrous in lactating buffaloes - 2020

No. of Demonstrations : 20

No. of Buffaloes -20
2-3rd lactation

Treatment given for Anestrous	No. of animals comes in heat & conceived
Mineral Mixture@ 50g bd + Cu & Co tablets. (local check)	6 Animals conceived out of 20
Mineral mixture@ 50 g bd + Cu & Co tablets + deworming of Animals. (Demonstration)	16 Animals conceived out of 20

Results:- Result shows that 16 animals conceived out of 20 animals treated with mineral mixture, Cu & Co tablets and deworming. It is revealed that mineral mixture is required for reproduction in buffalo and Cu & Co is major ions for reproduction but presence of internal parasites reduces absorption of minerals and nutrient loss in animal body that leads to temporary infertility .

Framer's reactions:- Animals treated with Mineral Mixture and Cu & Co tablets with de-worming; animals show heat signs and have least reproductive problems..

Results of FLD:

Enterprises	: Fish culture
Year	: 2019-20
Fish species	: Catla, Rohu & mrigal
Stage of seed	: Fingerlings (3000)
No. of Demonstration/ Ponds	: 10
Area per unit	: 0.25 ha.
Time of seed releasing	: September 2019
Harvesting Time	: August 2020
Average production per unit	: 750 kg.



Economics {per unit (0.25ha.)}:

Cost of cultivation	: Rs. 26,050
Gross income	: Rs 75,000
Net profit	: Rs. 48,950
B:C ratio	: 2.87
Sale price	: Rs 100 per kg



DOUBLING FARMER INCOME (DFI)

Trainings

Village	Households (No.)
Jandawala Sikhan	502 (Census, 2011)
Malarampura	434 (Census, 2011)

Title	Participants
Use of social media in agriculture for sustainable farm income.	35
Mobilization of social capital for economic sustainability of farming system	51
Tailoring & stitching training for 1 month	28
Organic farming in wheat	64
Training 2 for FIG (Kinnow grower)	23 +16 (39)
Soil sampling technique	38

Demonstrations

Crop /Enterprises	Area (ha)	Demon.
Moong (MH-421)	10	25
Chickpea	10.8	27
Mustard	5.6	14
Oat (Fodder) Area per Demonstration 0.05 ha	0.95	19
Backyard poultry	20 birds/unit	48

Note: Establishment of 6 gobar gas plant

Extension activities

Activities	No.	Participants
Field days	03	154
Kisan gosthi	08	301
Scientist visit to farmer 's field	32	610
Method demonstratio	02	42
Kisan club (TTC)-2	04	62

Convergence –

Under SCSP

- Provided seed bin – 64
- Provided power operated spray pumps – 35
- Provide sewing machines - 28
- Demonstration on Kitchen gardening- 12
- Demonstration on fodder (Oat) – 19

ATMA - Demonstration- 38

Soil & water sample analysis

Type	No. of samples	No. of farmers
Soil samples	89	89
Water samples	48	48



Change in productivity (q/ha) of major crops of DFI adopted villages

Crops	Prior to KVK (2018)	Post to KVK (2020-21)	% increase
Pulses			
Moong	4.35	5.98	37.47
Chickpea	6.60	8.20	24.24
Oilseeds			
Mustard	13.70	15.10	10.22
Others			
Wheat	39.55	42.36	7.10
Cotton	7.60	8.16	7.36
Guar	3.70	4.22	14.05



International Women Day 2020



43 Women

8 March 2020

03 Men





World Soil Day 2020



63 Participants

5 December 2020

25
Soil Health Card



“Keep soil alive, protect soil biodiversity”

FAO



SOIL AND WATER SAMPLE ANALYSIS

S.No.	Type of Sample	No. of Samples	No. of soil health card/Reports distributed
1.	Orchard Soil Sample	836	136
2.	Soil Sample	1073	1073
3.	Water Sample	560	560
	Total Samples	2469	1769



Migrants Training programmes Under

Garib Kalyan Rozgar Abhiyan

Programmes
16

Total expenditure Rs 2,84,290

Migrant
workers
582





15 days certificate course on “Integrated Nutrient Management” For obtaining license for selling fertilizers



One programme conducted with 40 participants (19.10.2020 to 02.11.2020)



Impact

15 days certificate course on “Integrated Nutrient Management”

Two programmes conducted (23.05.2019 to 06.06.2019 & 02.12.2019 to 16.12.2019)

66 participants successfully complete
52 persons started their own work



Schedules Caste Sub-plan (SCSP) under Special Central Assistance (SCA)



- Spray pump distribution programme (2020-21) – 35 farmers

- 30 days Training programme Tailoring & stitching (2020-21) – 28 SC women of Jandawala sikhyan



Pradhanmantri Kausal Vikas Yojana (Agricultural Skill Council of India)

S.No.	Title	Duration	No. of Participants	No. of participants started dairy farming
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1.	Dairy farmers	200 hrs	25	12
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S.No.	Title	Duration	No. of Parti.	No. of parti. started extension services
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2.	Extension service provider	200 hrs	22	8
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Impact of PMKVY Trainings conducted in 2019

(Agriculture skill council of India)

Small poultry farmer

Name and village of Trainees	Work started	Contact Information	Number of birds	Earning per Batch
Ravinder Kumar, kharakhera	2012	8104000005	100000	150000
Deep Singh, sadulashar	2018	9660008334	1000	25000
Kuldeep Brar, bolanwali	2019	9660113043	5000	40000
Swarn singh sidhu, haripura	2019	9785378479	1000	20000
Surender Singh, satipura	2019	8279200382	2500	10000
Gurpinder Singh, satipura	2019	8386096292	2500	10000
Jaspreet Singh, lambi dhab	2020	9079750962	200	12000

Training programmes conducted during 2020

For farmers/Farm women

S.No	Discipline	No. of training programmes	No. of training participants		
			Male	Female	Total
1.	Crop production	15	465	74	539
2.	Horticulture	06	179	29	208
3.	Plant protection	05	201	01	202
4.	Animal Science	06	249	29	278
	Fisheries Science	04	140	06	146
5.	Extension Education	06	307	43	350
	Total	42	1541	182	1723



Training programmes conducted during 2020

For Rural Youth

S.No.	Area of training	No. of courses	No. of training participants		
			Male	Female	Total
1.	Mushroom Production	1	40	4	44
2.	Bee-keeping	2	56	0	56
3.	Dairying	1	20	4	24
4.	Sheep and goat rearing	2	45	12	57
5.	Poultry production	1	28	0	28
	Total	7	189	20	209

For Extension personals

S.No.	Area of training	No. of courses	No. of training participants		
			Male	Female	Total
1.	Integrated Pest Management	1	26	0	26
	Total	1	26	0	26

Sponsored Training Programme 2020

For farmers/farm women/rural youth

S. No.	Area of training	Duration	No. of participants			Sponsoring agency
			Male	Female	Total	
1.	PMO level workshop	2 days	32	7	39	RWSLIP
2.	ToT General Agri. Tech.	2 days	30	5	35	RWSLIP
3.	Dairy farmer	200 hrs	25	00	25	ASCI, New Delhi
4.	Extension Service provider	200 hrs	20	06	25	ASCI, New Delhi
	Total	04				



Extension Activities

Activities	No. of programmes	No. of farmers	No. of Extension Personnel	TOTAL
Advisory Services	01	1703	35	1738
Field Day	09	337	10	347
Group discussions	02	71	03	74
Kisan Ghosthi	26	960	18	978
Film Show	95	754	26	780
Self -help groups	09	165	-	165
Exhibition	01	400	78	478
Scientists' visit to farmers field	119	2457	8	2465
Animal health camps	01	69	04	73
Kisan Club (TTC)	22	312	6	318
Ex-trainees Sammelan	02	35	11	46
Farmers' workshop	01	65	6	71
Method Demonstrations	04	83	05	88
Celebration of important days	06	227	04	231
Special day celebration	03	92	20	112
Exposure visits	01	16	01	17
Exposure visits at KVK	05	248	5	253
Total	307	7994	240	8234

Other Extension activities

Activities	Number
Extension Literature	11
News paper coverage	70
Popular articles	7
Radio Talks	3
TV Talks	7
Animal health camps (Number of animals treated)	22
Total	120



SEED PRODUCTION AT KVK

S. No.	Crop	Varieties	Quantity (Q)
1	Wheat	HD-2967, HD-3086, HD-3226, CSW-18	84.86
2	Chickpea	GNG-2171 & GNG-2144	13.85
3	Mustard	RH 0749 & RH-725	8.55
4	Til	RT-46	1.00
5	Moong	MH-421	3.60

Provided seed to farmers : 583

Amount : Rs. 4.35 lacs

STATUS REVOLVING FUND

Year	Opening balance as on 1 st April	Income during the year	Expenditure during the year	Net balance in hand as on 1 st April of each year
2017-18	3398434.61	2966066.50	3461319.99	2301576.32
2018-19	2301576.32	4214994.77	3927079.78	2566978.31
2019-20	2566978.31	4842108.09	2744539.29	4510892.36
2020-21	4510892.36	5009066.50	3520336.10	5816236.51

Life become change with mushroom production

Sh. Ram Pratap S/o Sh. Asha Ram

Age- 36 yrs

Mobile no:- 9571395228

Workplace- Kulchandra, Tehsil (Tibbi)

Education - Graduate

Before training- Traditional Farming



Situation Analysis: - Mr Ram partap is progressive farmer and grow Potato, Paddy, cotton grower and dairy farming. He is chairperson of FPO (Bhatner SWIDS potato production Co. Ltd.

Technology Implementation and Support:- Mr. Ram Pratap Contact with KVK in Jan. 2017 and desire to learn about mushroom production. After that, in June, 2018 he participated in 4 days mushroom cultivation training at KVK.

Uptake: - He prepared 250 qtls. Compost for Button mushroom and getting production 62 qtls. mushroom during December, 2019 to March, 2020 and sale of mushroom Rs 100/kg.

Benefit:- He earned net income Rs. 2.90 Lacs in four month.

Future plan – To establishment Hi-tech compost making unit, spawn lab and canning unit.

Spread: - 12 farmer's in this area also started mushroom production.

Self employment by Honey production

Sh. Nar Singh S/o Sh. Badev Singh

Mobile No.- 8949311162

VPO Gurusar, Distt. - Hanumangarh

Age- 28 yrs

Education -B.Tech.



Situation Analysis: - After B.tech, by skipping private jobs he preferred farming. He wanted to start his own entrepreneur in agriculture sector. So, he came to KVK and visited various live units of KVK and decided bee farming.

Technology Implementation and Support:- Mr. Nar Singh contacted with KVK in May 2016 and desired to learn about beekeeping after that, in Oct. 2017 he participated in beekeeping training at KVK. After training he started Honey production unit.

Uptake: - He purchased 160 Bee Hives with honey production equipment's on Nov., 2017. Initial cost of the project was Rs. 3.50 lakh.

Benefit:- Now he has 850 Bee hives by multiplying from bee unit income.

He earned net income Rs. 9.50 Lakh in 2019-20 by sale of 30.00 MT honey & 200 bee colonies.

Future plan – To establish small honey processing unit, pollen collection and brand marketing of bee product.

Spread: - Youths of area got inspiration from his bee farming and more than 14 youth started bee farming.

Success of A2 Milk Dairy Farm, Pakka Saharna

Name : Mr. Jitendra Godara & Mr. Manminder Singh

work place: Pakka saharna, District-Hanumangarh (Raj.)

Mobile no:- 8094868013, 9468951313

Situation Analysis: - They realized that there is a shortage of quality milk, especially in urban areas. So, they decided that work should be done in the field of Desi cow milk production.

Technology Implementation and Support:- During year 2017 they came in contact with KVK Hanumangarh-I, After getting sufficient knowledge, they started Dairy Farming. During 2020-21 they got training from KVK, Hanumangarh-1st on “Dairy farmer/Entrepreneur” under ASCI for update their knowledge about scientific dairy farming.

Uptake: -After opening the dairy farm, on 9 August 2018, first time milk was supplied in Hanumangarh city with packed glass bottles. After one year, the supply of milk to Sri Ganganagar city was also started. Now they have started preparing and selling milk by-products like Milk cake, Laddu, Mava laddu, Barfi etc.

Benefit:- Now they have 100 Gir cow's and 2 breeding male. Their daily average milk production is 2q. The milk sale price is Rs. 55 per liter in Hanumangarh & Rs. 64 per liter in Sri Ganganagar. They also prepared 30 kg ghee per month and sale Rs. 2000 per kg. Their monthly net income from dairy farm is Rs. 2,25,000.

Spread: - Mr. Jitendra Godara & Mr. Manminder Singh become a role model for youths of the district. 26 farmers and youth of district have started A2 milk producing Indian cattle dairy farming by seeing their progress.



A visit by the Director, ATARI, Jodhpur and KVK scientists



Backyard Poultry Farming: Role model

Name : Mr. Surender singh & Mr. Gurbinder Singh

Mobile no. : 6375112450

Work place: Satipura (Hanumangarh)

Situation Analysis: - Two cousin brothers from satipura village, Hanumangarh started Backyard poultry farming during 2018-19 after got training from KVK HMH-I under ASCI with 500 birds.

Technology implementation and support:- During year 2018 they came in contact with KVK Hanumangarh-I and they got training from KVK, on “small poultry farmer” under ASCI for update their knowledge about scientific Poultry farming.

Uptake: - After starting backyard poultry farming, on their first poultry batch they were not able to save money because of less market demand of desi birds and their eggs. When Covid period started in 2020 all broiler farm were in loss and suddenly desi poultry bird demand was increased resulting their income also increased. They prepared a home made egg

hatching and incubation machine as they learn basic principal during training and start hatching of egg. Resulting they started selling chicks also.

Benefit:- Now they have 1400 poultry bird's including RIR, kuroiler, Kharknath. The average egg sale price is Rs. 15/egg. Their day-old chick sell price is Rs. 40/chick, Mature bird sale price is Rs. 250/Kg. Their monthly net income from poultry farm is Rs. 20000.

Spread: - Mr. Surender singh & Mr. Gurbinder Singh become a role model for youths of the district. 21 farmers and youth of district have started Backyard poultry farming by seeing their progress.



Scientific Goat Farming

Name : Mr. Harshpinder singh

s/o Sh. Sardul singh

Educational qualification: 10th

Mobile no. : 9521423855

Work place: Buglanwali, Sangaria, (Hanumangarh)

Situation Analysis: - He started goat farming during 2014-15 with 20+1 Beetal goats after getting basic knowledge from KVK during a awareness program. He was facing problem's like, infertility, poor growth and kid mortality. So, he decided to get detailed knowledge from KVK HMH-I.

Technology implementation and support: - During year 2017 he got training from KVK, Hanumangarh-1st on "Goat farming" for detail because he was facing various problems in rearing goats. He learns disease prevention, vaccination schedule, breeding management and balance feeding during training.

Uptake: - After got training from KVK-HMH-I he started balance feeding, mineral mixture feeding, scientific breeding and disease management system. Which increases his income by 35%- 40%.

Benefit:- Now he have 80 beetal goat's and 12 bucks. He started sell of goat milk @55 Rs/Lit. he started vaccination by own and preparing balance ration for different category of animals. His net income is Rs. 40000/month.

Spread: - Mr. Harshpinder Singh become a role model for youths of the district. 18 farmers and youth of surrounding village started goat farming by seeing his progress.



Diversification in Farming

Name : Sudhir Kumar S/o Sh. Raja Ram

Mobile No. : 6375741450

Education : Post Graduate

Total Land : 22.5 ha (Irrigated- 18 ha)

Award : Block level

Address: 1 AMP(B), Dingarh, Teh.- Sangaria

Situation Analysis: - Traditional farming with Irrigation from Canal, Tubewell, he got inspiration of orchard from kvk during an exposure visit.

Technology implementation and support: - Planting material, training, exposure visit.

Uptake: - During 2016 he established a Kinnow orchard in 1.5 hac land with technical guidance of KVK. The orchard totally irrigated by drip Irrigation system with solar pump.

Benefit:- After 4 years of transplanting. He earned 1.0 lakh net worth from 4 year old orchard (1.5 ha) in 1st flowering. He also applied inter cropping like Moong & Gram in orchard and worth Rs. 116000 net income from intercropping.

Cost of cultivation : Rs. 1,50,000/

Net income : Rs. 2,16,000/-

Spread:- After success of Mr. Sudhir Kumar 20 orchard have been planted in the surrounding area.



An Innovation – Fig Farming



Name : Mr. Jalandhar Singh S/o Sh. Rajwant Singh

Mobile No. : 9950177341

Education : 10+2

Total Land : 6.25ha Irrigated

Workplace : 5 KSD, Santpura, Teh.- Sangaria

Situation Analysis: - Traditional farming Irrigation with Canal & Tubewell.

Technology implementation and support: -Motivation & Technical guidance about orchard management.

Uptake: - In 2018 he transplanted 421 plants of Fig in one acre land with the association of private company on contract basis. He got 5 quintal fresh fruit by 1st harvesting in April, 2019. That have worth 1.5 lakh rupees.

Benefit:- In 2020 he produce 25.2 quintal fresh fruit and earned 756000 rupees as gross income. Sale price is Rs. 300 per kg fresh fruit.

Cost of cultivation - Rs. 300000 upto 2020

Net Income – Rs. 456000

Spread:- 5 farmer of area got inspiration and started Fig orchard plantation.



Onion Cultivation : A Profitable Farming

Name : Shamsheer Singh s/o Sh. Bhagat Singh

Age : 52 years **Land :** 2.75 ha Irrigated

Educational qualification: Primary

Mobile no. : 9571337415

work place: Chak-1 STD, Manaksar (Manaksar)

Situation Analysis: - Traditional farming in sandy loan soil with canal irrigation.

Technology implementation and support: - Motivation & Technical guidance, kvk help selling of seedlings.

Uptake: - In 2018 he came in contact with KVK and start the cultivation of onion in 2 Bigha land. First of all he sown 18 kg onion seed for seedling purpose. After 45 days sowing of seed, he transplant onion seedlings in 2 Bigha own farm.

Benefit:- After crop harvest, he sell out 100 quintal onion @ Rs. 2200 / quintal and gain Rs. 220000 and also sell rest of seedlings worth Rs. 30000/-

Cost of Cultivation : Rs. 80600

Gross income : Rs. 265000

Net Income : Rs. 184400

Spread:- He sell rest of seedlings to other about 70 farmers.





Farm activities
in onion field



Thank you