

# Farmer Awareness Programme

## Gramin Krishi Mausam Sewa

16<sup>th</sup> March 2015



**AGRO-METEOROLOGICAL FIELD UNIT  
AGRICULTURAL RESEARCH STATION  
SWAMI KESHWANAND RAJASTHAN AGRICULTURAL UNIVERSITY  
BIKANER, RAJASTHAN**



उत्तमा वृत्तिस्तु कृषिकर्मव

## Report of the farmers awareness programme on Gramin Krishi Mausam Sewa held at agricultural research station on 16.03.2015

One hundred eighteen farmers from different villages of Bikaner district District and thirty one field staff & officers of department of Agriculture and NGOs were participated in the awareness programme on “Gramin krishi Mausam sewa”.

The farmer’s awareness programme was started with registration of participants by Mr. Virender Pal, SRF FASAL, at 9:30 a.m. and inaugurated by Dr. Tribhuvan Sharma, Director, Directorate of Extension Education, Rajasthan University of Vateriaary and Animal Science (RAJUVAS), Bikaner as Chief guest. The meeting was presided by Dr. S. L. Godara, Professor (Plant Pathology), Zonal Director Research and Nodal Officer GKMS, AMFU, Bikaner. Dr. Narendra Kumar Pareek, Assistant Professor and Technical Officer, AMFU, Bikaner coordinated the inaugural function. Scientists and other staff members of the Agricultural Research Station, Bikaner also attended the inaugural function.



Welcome Address by Dr. N. K. Pareek



Honouable guests sitting on dias



Inauguration address by chief guest and chairman



Participants of Farmers Awareness Programme on 16<sup>th</sup> March 2015

Dr. Narendra Kumar Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner welcome all the participants especially farmers attending the awareness programme in the condition of uncertain rains. He highlighted activities undertaken by the unit regarding dissemination of the agromet advisory bulletins on every Tuesday and Friday through department of Agriculture, KVKs, NGOs, All India Radio, Public relation officer of the district and FM radio working in the district. He also said that these advisories are also uploaded on the IMD website [www.imdagrimet.gov.in](http://www.imdagrimet.gov.in) both in English and Hindi languages and important advisories also in the form of SMS on the same website. He expressed the revolutionary step initiated on July 2013 by Ministry of Agriculture, Govt of India, to send SMS on individual farmers' mobiles through the web portal [www.mkisan.gov.in](http://www.mkisan.gov.in) both in English and regional language which has received wide accolade by the farming community. He mentioned that till date around 1252585 farmers of Bikaner and Jaisalmer districts have been benefited by 101 messages over mobile after start of this service by the unit in Dec. 2013.

The technical session started after the welcome address with the following topics and speakers.

<b>S. No.</b>	<b>Topic</b>	<b>Name of the Speaker</b>
1.	Livestock Production System vis a vis climate change	Dr. Tribhuvan Sharma, Professor, Animal Nutrition and Director, Extension Education, Rajasthan University of Veterinary and Animal Science, Bikaner
2.	Agromet Advisories Services : Helping farmers to cope up with prevailing weather conditions	Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner
3.	Selection of crops and varieties as per prevailing weather conditions	Dr. M. M. Sharma, Professor, Plant Breeding & Genetics and Incharge MNRP Arid legume, ARS, Bikaner
4.	Micro irrigation: A better way to schedule irrigation in changing climatic conditions	Er. A.K. Singh, Assistant Professor and Incharge, Precision Farming Development Centre, ARS, Bikaner
5.	Disease and pest management of crops in reference with climate change	Dr. S.L.Godara, Professor, Plant Pathology, Nodal officer and Zonal Director Research, ARS, Bikaner
6.	Field Visit of farmers	Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner

Chief Guest Dr. Tribhuvan Sharma, Director, Directorate of Extension Education, Rajasthan University of Vaternary and Animal Science (RAJUVAS), Bikaner in his lecture appraised the organizers and India Meteorological Department about conducting this type of event which is actually needed by the farming community in ever-changing climatic conditions. Dr. S. L. Godara, Zonal Director Research and Nodal officer, AMFU, Bikaner welcomed Dr. Sharma & farmers and thanked them to be their even in the event of untimely rains. In his address, Dr. Sharma said that the variation or changes in the climate and abnormal weather events have big impact on the performance of livestock, dairy and poultry. He explained how high temperature and cold affect the production and productivity in dairy and poultry. He told if

the temperature and humidity index is more than 75%, it will affect the milk production of cows. He also mentioned that the average milk production is reduced by 0.3-0.4kg per degree centigrade rise of temperature. High temperature also influences the health and reproduction of cattle. He mentioned that adoption of better dietary management practices can help the animals in protection of adverse weather conditions. He explained the process of making protein rich high nutritive urea – molasses bricks which could be an alternative source of protein during paucity of green fodder. He advised the farmers to take some shelter management practices to control high temperature for the animals and poultry particularly at the time of prevailing of extreme hot and cold weather periods. Animals and their sheds should be properly washed and try to clean regularly and make arrangement of plenty of drinking water for the animals.



Address by Chief Guest Dr. Tribhuvan Sharma, Director, Directorate of Extension Education, RAJUVAS, Bikaner

Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner introduced the farmers about concept of weather and climate and different elements of weather and climate. He explained the importance of meteorological observations in weather forecasting. He described the different types of forecast given by IMD i.e. long range forecast which is used for seasonal crop planning as selection of crops, deciding their acreage & sowing time etc. and short range and medium range weather forecast being issued for farmers and general public useful for day to day activities and agricultural operations. He asked the farmers on their awareness about weather based agro- advisory being published in news papers for different districts. He emphasized the importance of weather based agro – advisory for enhancing the income of the farmers by reducing the input cost and avoiding the losses through timely management of inputs for various agricultural operations, timely sowing, irrigation, fertilization, prevention and timely management of pests etc.

Dr. M. M. Sharma, Professor, Plant Breeding & Genetics and Incharge MNRP Arid legume, ARS, Bikaner in his lecture explained the importance of selection of crops and their varieties as per the weather conditions in relation to climate change. He advised the farming community to concentrate on selection of short duration crops and varieties when the onset of monsoon delayed. He also mentioned the some of the crops and varieties which are most suited and useful in arid regions and whose seed is easily available in the market. He explained the importance of some of the aspect in arid conditions such as use of less urea in drought condition, selection of short duration varieties, timely sowing and other operation, optimum plant population, proper planning for arrangements of inputs in order to get more profit under adverse climatic situation.

Er. A.K.Singh, Assistant Professor and Incharge, Precision Farming Development Centre, ARS, Bikaner in his lecture told the farmers about the importance of efficient water management in field crops, vegetables and orchards as a mitigating tool against adverse weather conditions. He explained that micro irrigation techniques as sprinkler, drip etc. are helpful in reducing the risk in changing climatic conditions and maximizing profits. He motivated the farmer for adoption of protected cultivation techniques as poly houses, shade net houses, low tunnels, mulches etc. to ensure the sustained production and as a source of regular income to the farmers and also as a tool for combating the aberrant weather conditions. He advised the farmers to adopt micro irrigation techniques to grow more crops on larger area with the existing water sources in comparison to the existing water application methods.



Farmers participating in the awareness programme visiting the Agromet observatory of the station

After lunch, farmers and field staff, department of agriculture and NGO personnel participating the awareness programme were taken for a field visit to show the various experiments, demonstrations, agromet observatory, fruit orchards etc. Farmers were very much interested in knowing about the experiments on protected cultivation with poly houses, shade net houses, low tunnels and mulches. They show their enthusiasm about the instruments placed in the observatory. Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner explained the farmers about the observation timings, importance of various weather parameters and procedure for taking observations with the instruments. Farmers were very happy from with the field visit and according to them it was very good medium for information providing and knowledge enriching as they can learn by seeing and by doing.

Dr. S.L.Godara, Professor, Plant Pathology, Nodal officer and Zonal Director Research, ARS, Bikaner delivered his lecture on disease and pest management of crops in reference with climate change. He explained the farmers about the effect of various weather parameters on outcome of different plant diseases and gave examples of various pests and diseases of different crops of the region. He further highlighted that temperature and humidity variation is mainly associated with disease-pest occurrence. He suggested some control measures to avoid the incidence of pest and disease and to follow the integrated pest management strategies which are not only helpful in preserving our environment from soil/air/water pollution but also in increasing their income through reducing input cost in insecticides and pesticides. He

narrated how the current weather situation favours the spread of the disease in crops. To explain this, he cited the example of white grub insect in groundnut whose infestation starts with the onset of monsoon. He also provided the information on management practices of various diseases in rabi and kharif crops. He also described the benefits of e-surveillance of insect-pest of crops to the farming community.



Farmers were very eagerly participated in each lecture by asking several questions about weather forecasting, mode of dissemination, weed control, insect pest and diseases management which were answered by the experts. Most of the farmers were interested in registration on farmer portal for getting weather based advisories through SMS service.

Valedictory function of the awareness programme was presided by Dr. S.L.Godara, Professor, Plant Pathology, Nodal officer and Zonal Director Research, ARS, Bikaner. Dr. Govind Singh, Director Research, SKRAU, Bikaner was the chief guest of this function. Dr. I.J. Gulati, Dean College of Agriculture, Bikaner and Mr. Jaideep Dogne, Assistant Director (extension) were the Guest of Honour in the valedictory function. Dr. N.K. Pareek welcome all the guests and farmers attending the programme.



Address by Dr. Govind Singh, Director Research,  
SKRAU, Bikaner



Address by Dr. I. J. Gulati, Dean COA,  
SKRAU, Bikaner

Dr. Govind Singh in his address thanked the IMD in organizing this type of events and stressed on the importance of these programmes which are directly benefitting the farmers community in taking rational decisions related to their day to day agricultural operations. Dr. I.J. Gulati, in his speech informed the farmers about the latest developments regarding the weather forecasting. He informed the farmers that this service of IMD is in the reach of farmers hand and they should take the benefit from it. Mr. Dogne informed the farmers about the various schemes

of state Government being operated through department of Agriculture and he invited the farmers to get registered with the department to take the advantage of these schemes.

In the end a folder entitled, कृषि मौसम परामर्श सेवाएँ : विपरीत मौसम परिस्थितियों में किसानों के हितार्थ एक प्रयास written by नरेंद्र कुमार पारीक, शंकर लाल गोदारा, वीरेंद्र पाल, रमेश कुमार व सुरेश जाखड़ was released by the dignitaries sitting on the dais and distributed among the farmers. Ten rain gauges were distributed to the farmers identified by the officials of state department of Agriculture.

Finally Dr. N. K. Pareek thanked the VIP guests for giving their valuable time and encouraging the unit, resource persons for their valuable technical inputs and making the session lively and interactive, and participants for their active participation and their cooperation.

**Farmers Awareness Programme on “Agromet advisory services : an effort to help the farmers under adverse weather conditions”**

**Venue : Agricultural Research Station, Bikaner**

**Date: 16.03.2015**

**PROGRAMME**

Time	Particular	Speaker
9:30-10:30 a.m	Registration of the participants	
10:30-11:00a.m	Arrival of the guests, Presentation of bouquet, Inauguration of the session	
11:00-11.15 a.m.	High tea	
11:15-11:45 a.m.	Livestock Production System vis a vis climate change	Dr. Tribhuvan Sharma, Professor, Animal Nutrition and Director, Extension Education, Rajasthan University of Veterinary and Animal Science, Bikaner
11:45-12:15 p.m.	Agromet Advisories Services : Helping farmers to cope up with prevailing weather conditions	Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner
12:15-12:45 p.m.	Selection of crops and varieties as per prevailing weather conditions	Dr. M. M. Sharma, Professor, Plant Breeding & Genetics and Incharge MNRP Arid legume, ARS, Bikaner
12:45-1:15 p.m.	Micro irrigation: A better way to schedule irrigation in changing climatic conditions	Er. A.K. Singh, Assistant Professor and Incharge, Precision Farming Development Centre, ARS, Bikaner
1:30- 2.00 p.m.	Lunch	
2:00-3:00 p.m.	Field Visit of farmers	Dr. N.K.Pareek, Assistant Professor and Technical Officer, AMFU, ARS, Bikaner
3:00-3:30 p.m.	Disease and pest management of crops in reference with climate change	Dr. S.L.Godara, Professor, Plant Pathology, Nodal officer and Zonal Director Research, ARS, Bikaner
3:30-4:30 p.m.	Valedictory Function, release of folder and distribution of rain gauges	

**Annexure II**

**Funds utilized for Farmer Awareness Programme**

S.No.	Particulars	Cost Rs.
1	Transportation for farmers	10222.00
2	Honorarium for Lecturers	2500.00
3	Working Lunch and High Tea	12764.00
4	Preparation of training material for Seminar	4468.00
5	Miscellaneous	1468.00
	Total	31422.00



## Annexure III

**List of farmers of Bikaner district attended the Farmers Awareness Programme on 16.03.2015 held at ARS, SKRAU, Bikaner**

Sr.No.	Farmer Name	Father Name	Village	Tehsil
1	Sarvan dogriwal	Nathu ram	Banisar	Shri dungargarh
2	Rajendra kumar	Devilal	2 LKD	Puggal
3	Makbul khan	Pera khan	13 LKD	Chattrgarh
4	Shivraj	Gangajal	13 LKD	Chattrgarh
5	Rampartap	Ghirdari ram	Sawroopdasar	Bikaner
6	Mohan	Ladhuram	Sawroopdasar	Bikaner
7	Mukesh kumar	Jatharam	Chak 26 JMD Kasani	Bikaner
8	Sampat ram	Bijaram	Chak 26 JMD Kasani	Bikaner
9	Sarvan kumar	Ram kumar	Chak 26 JMD Kasani	Bikaner
10	Hari ram	Gowardhan ram	Chak5 BSM Pamasar	Bikaner
11	Bhiya ram	Gopalaram	Chak5 BSM Pamasar	Bikaner
12	Dularam	Surjaram	Katriasar	Bikaner
13	Balvindra	Devilal legha	Anupgarh	Anupgarh
14	Ramchandra	Jaitharam	Kavani	Bikaner
15	Birbal ram	Guguram	Ratnadasar	Rawatsar
16	Rajendra Bhadu	Chunilal	12 KJD	Khajuwala
17	Bim dhaka	Jagdsih parsad	4 KWM	Khajuwala
18	Ramji lal	Hari ram	5PHM	Khajuwala
19	Manroop	Shyopat ram Beniwal	14 KJD	Khajuwala
20	Murad kahn	Hajuhajur khan	2 BRWM	Khajuwala
21	Mahiram	Gopi ram	10 PB	Khajuwala
22	Manoj kumar	Ratan lal chagani	7 DODDR	Puggal
23	Basant kumar	Gori shankar ojha	6 DOLB	Rawal mandi
24	Sabor ali	Mhomhad	Ramai 7 RM	Puggal
25	Bhudh ram	Danaram	Gangajali	Puggal
26	Nisar ahmad	Harjiamir din	Jamsar	Bikaner
27	Ikkal	Mhomhad hussan	Gangajali	Puggal
28	Ismail	Akbar khan	Gangajali	Puggal
29	Bhawar lal	Magharam	Khara	Bikaner
30	Bhagirath	Punaram	Ghadwala	Bikaner
31	Bajrang	Mohanlal	Ghadwala	Bikaner
32	Ganesharam	Jayram	Badrasar	Bikaner
33	Sonaram	Pemaram	Badrasar	Bikaner
34	Tejaram	Suganaram	Badrasar	Bikaner
35	kaluram	Bewair ram	Badrasar	Bikaner
36	Ramniwas	Likhmaram	Rajadu	Dunagargarh
37	Omparkash	Chunaram	Rajadu	Dunagargarh
38	Ravindra	Rameshwar lal	Rajadu	Dunagargarh

39	Bithal	Moolchand	Kanasar	Bikaner
40	Rajaram,	Parturam	Sabania	Loonkarnasar
41	Balaram	Devaram	Chattargarh	Chattargarh
42	Vedprkash	Choturam	2 CHD	Chattargarh
43	Anoparam	Nathuram	3 CSD	Chattargarh
44	Revantarm	Hanumanaram	4 JMD	Bikaner
45	Jagdish	Shankar	Khara	Bikaner
46	Megharm	Hanumanaram	Bijari	Khajuwala
47	Mahesh sharma	Jugal kishor	2 AWM	Chattargarh
48	Mangi lal	rameshwar lal	Chak 8 BHD	Loonkarnasar
49	Sharvan	Hari ram	Chak 8 BHD	Loonkarnasar
50	Madanlal	Surjaram	Badrasar	Bikaner
51	Jetharam	Moolarm	Badrasar	Bikaner
52	barkat ali	Abdulrazak	Badrasar	Bikaner
53	Liyakat ali	Abdulrazak	8 JMD	Bikaner
54	Sirajdin	Maji khan	Bikaner	Bikaner
55	Sewaram	Mumadram	Filter Plant	Bikaner
56	Rajuram	Randhan	Surpura	Nokha
57	Hanuman singh	Gumanaram	Chak 2 AWM	Chattargarh
58	Prakash pareek	Madan lal	Napasar	Bikaner
59	Mohan singh	Isal singh	Naal	Bikaner
60	Motidas	Panchi lal	Naal	Bikaner
61	Omprakash	Bhawar lal	Akasar	Kolyat
62	Birabal ram	Ramratan	Akasar	Kolyat
63	Birabal ram	Parbati lal	Akasar	Kolyat
64	Arjun ram	Laluram	Akasar	Kolyat
65	Prithviraj	LAdhuram	Akasar	Kolyat
66	Sharvanlal	Biram ram	Akasar	Kolyat
67	Rewatram	Kupra ram	Akasar	Kolyat
68	Hariram	Pemaram	Akasar	Kolyat
69	Sahiram	Chatra ram	Akasar	Kolyat
70	Mohanram	Sardara ram	Akasar	Kolyat
71	Ramgopal	Rameshwar ram	Akasar	Kolyat
72	Bhwarlal	Suraja ram	Kalu	Loonkarnasar
73	Rajuram	Badri ram	Nathwana	Loonkarnasar
74	Purnaram	Pusa ram	Badara	Loonkarnasar
75	Moorapram	Ganesh ram	Badara	Loonkarnasar
76	Kasuram	Girdhari ram	Khara	Bikaner
77	Rewatram	Jassu ram	Akasar	Kolyat
78	Omprakash	Hari ram	Akasar	Kolyat
79	Asharam	Amra ram	Akasar	Kolyat
80	Harikishan	Chanda ram	Akasar	Kolyat

81	Norang lal	Raghunath ram	Akasar	Kolyat
82	Gopiram	Gowardhan lal	Akasar	Kolyat
83	Bhagirathg	Rugha ram	Akasar	Kolyat
84	Sujaram	Rameshwar lal	Akasar	Kolyat
85	Basant kumar	Kali charan	Akasar	Kolyat
86	Kalupuri	Badal puri	Akasar	Kolyat
87	Raju ram	Govind ram	Dolara	Bikaner
88	Bhika ram	Sharvan lal	Akasar	Kolyat
89	Ramniwas	Nawla ram	Akasar	Kolyat
90	Ram kishan	Mohan ram	Sudasar	Dunagargarh
91	Sunder lal	Laksmi naryan	Khara	Bikaner
92	Makbolahmad	Haji umar khan	Kankrala	Puggal
93	Indraj	Raja ram	Kakadwala	Loonkarnasar
94	Rayashab	Gopi ram	Kakadwala	Loonkarnasar
95	Mukesh kumar	Sushil Sharma	Chattargarh	Chattargarh
96	Lichiram	Chuna ram	Badrasar	Bikaner
97	Gowadhan	Ramu ram	Badrasar	Bikaner
98	Revantarm	Bhghwana ram	Bhirdasar	Dunagargarh
99	Malaram	Sadhu ram	Bhirdasar	Dunagargarh
100	Rameshwar	Gullaram	Chak 3 BLD	Puggal
101	parbhu	Padma ram	Chak 247 RD	Loonkarnasar
102	Suganram	Narayan ram	Kuntasar	Dunagargarh
103	Sharvan kumar	Hanumanaram	Godu	Kolyat
104	Gopiram	Ganga ram	Godu	Kolyat
105	Mohanlala	Bhudha ram	Rajaldasal	Ratangarh
106	Shyam singh	Mohan singh	1 ADM	Khajuwala
107	Ramkaran	Khumanaram	Kusumdasar	Ratangarh
108	Magaram	Koju ram	Chak 483 RD	Bikaner
109	Hanuman singh	Ugam singh	Gadiyala	Kolyat
110	Madanlal	Diya ram	Jasrasar	Nokha
111	Hanumana ram	Kheta ram	Kudsu	Panchu
112	Ramdhyal	Shankar lal	Kudsu	Panchu
113	Pusaram	Ishwar lal	Saghasar	Nokha
114	Prabhu ram	Kusal ram	Bajrangasar	Dunagargarh
115	Kalu ram	Chetan ram	Surpura	Nokha
116	Chetan ram	Ladhu ram	Ghadwala	Bikaner
117	Shivkaran	Teja ram	Pemasar	Bikaner
118	Dhanpat Bhambhu	Ganga ram	Puggal	Puggal

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Assistant professor & Technical Officer  
AMFU, Bikaner

-sd-

Zonal Director & Nodal Officer  
AMFU, Bikaner

