

कृषि मौसम परामर्श बुलेटिन
Agro Meteorological Advisory Bulletin
 के लिए
for the
 छत्तीसगढ़ राज्य
State of Chhattisgarh

अवधि –23 फरवरी 2018 से 27 फरवरी 2018 तक
For the period 23 February 2018 to 27 February 2018

जारी करने का दिनांक
Issued on

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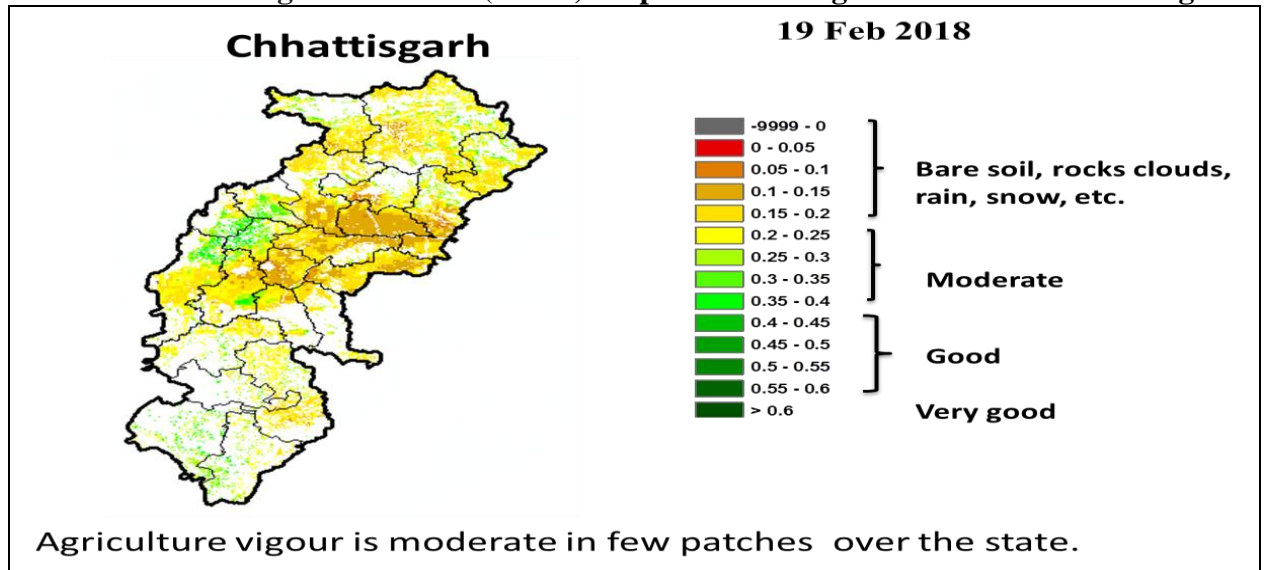
इंदिरा गांधी कृषि विश्वविद्यालय, रायपुर छ.ग.
 Indira Gandhi Krishi Vishwavidhyalaya, Raipur
 तथा



कृषि विभाग छत्तीसगढ़ शासन
 State Department of Agriculture

राज्य का कृषि जलवायु क्षेत्र Agro climatic Zone of State			
Sr.NO.	कृषि जलवायु क्षेत्र Agro climatic Zone	जिले Districts	कृषि मौसम क्षेत्र ईकाई Agro Met Field Unit (AMFU) location
1.	छत्तीसगढ़ का उत्तरीय पहाड़ी भाग Northern Hills Zone	सरगुजा, कोरिया ,जशपुरनगर, बलरामपुर और सुरजपुर Surguja, Korea, Jashpurnagar, Balrampur and Surajpur	अम्बिकापुर Ambikapur
2.	छत्तीसगढ़ का मैदानी भाग Chhattisgarh Plain Zone	रायपुर, कोरबा, रायगढ़, बिलासपुर चांपा-जांजगीर, कबीरधाम, दुर्ग, महासमुन्द, धमतरी, राजनांदगांव व कांकेर , बलौदाबाजार, गरियाबंद, बालोद, बेमेतरा और मुंगेली Raipur, Korba, Raigarh, Bilaspur, Janjgir-Champa, Kabirdham, Durg, Mahasamund, Rajnandgaon, Dhamtari, Kanker, Balodabazar, Gariaband, Balod, Bemetara, Mungeli.	रायपुर Raipur
3.	छत्तीसगढ़ के बस्तर का पठारी भाग Bastar Plateau Zone	बस्तर, दंतेवाड़ा, नारायणपुर ,बीजापुर कोंडागाव और सुकमा Bastar, Dantewada, Narayanpur, Bijapur, Kondagaon and Sukma	जगदलपुर Jagdalpur

Normalized Difference Vegetation Index (NDVI) Map for Chhattisgarh state for week ending 19.02.2018



Weather summary for the period: 20.02.2018 to 23.02.2018

Chief Amount of Rainfall (cm):

20.02.2018	Nil.
21.02.2018	Nil.
22.02.2018	Nil.
23.02.2018	Nil.

S.NO	STATION	RAINFALL(mm)			
		20.02.2018	21.02.2018	22.02.2018	23.02.2018
1	Raipur	0.0	0.0	0.0	0.0
2	Mana AP	0.0	0.0	0.0	0.0
3	Bilaspur	0.0	0.0	0.0	0.0
4	Pendra-road	0.0	0.0	0.0	0.0
5	Ambikapur	0.0	0.0	0.0	0.0
6	Jagdapur	0.0	0.0	0.0	0.0
7	Durg	0.0	0.0	0.0	0.0
8	Rajnandgaon	0.0	0.0	0.0	0.0

Temperature:

• **Range**

	Temperature (° C)	Departure (° C)
Maximum temperature	28 TO 34	+00 TO +04
Minimum temperature	12 TO 20	-03 TO +03

• **Temperature**

S.No	Station	20.02.2018		21.02.2018		22.02.2018	
		Max (° C)	Min (° C)	Max (° C)	Min (° C)	Max(° C)	Min (° C)
1	Raipur	32.5	20.2	33.5	18.5	34.4	17.6
2	Mana AP	32.7	19.2	33.2	17.3	34.6	16.2
3	Bilaspur	32.7	18.3	33.5	15.8	34.1	15.4
4	Pendra-road	30.1	14.4	31.1	12.0	32.9	14.0
5	Ambikapur	27.5	13.3	28.5	11.8	30.4	12.5
6	Jagdapur	33.3	16.3	33.0	15.9	33.2	13.4
7	Durg	33.2	16.4	34.4	14.6	34.6	15.2
8	Rajnandgaon	31.2	17.2	31.8	17.8	33.2	17.6

Relative humidity: RH was in the range of 11% to 90%.

Cloud amount: 00-03 Octa.

Wind Speed: Ranged between 00-10 kmph in the state during the week.

Agro climatic Zone wise Weather forecast for Chhattisgarh

छत्तीसगढ़ का उत्तरीय पहाड़ी भाग Weather forecast for Northern Hills Zone

	Surguja					Balrampur				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	30	30	30	30	30	30	30	30	30	30
Min. Temp. (°C)	14	14	14	13	13	14	14	14	13	13
Cloud Cover (Octa)	0	0	0	0	0	0	0	0	0	0
Maximum humidity(%)	70	70	75	70	70	70	70	70	70	70
Minimum humidity(%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	0	0	2	3	3	2	2	2	2	3
Wind Direction	0	0	NW	E	SW	SE	SE	SW	SW	SW
	Surajpur					Jashpur				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	30	30	30	30	30	29	29	29	29	29
Min. Temp. (°C)	14	14	14	13	13	13	13	13	12	12
Cloud Cover (Octa)	0	1	1	0	0	0	0	1	0	0
Maximum humidity(%)	70	70	70	70	70	70	70	70	65	65
Minimum humidity(%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	2	2	2	2	2	2	2	2	3	3
Wind Direction	NE	E	S	S	SW	NE	NE	E	SW	W
	0									
	24FEB	25FEB	26FEB	27FEB	28FEB					
Rainfall (mm)	0	0	0	0	0					
Max. Temp. (°C)	32	32	32	32	32					
Min. Temp. (°C)	14	14	14	13	13					
Cloud Cover (Octa)	0	0	1	0	0					
Maximum humidity(%)	70	70	70	70	70					
Minimum humidity(%)	20	20	20	20	20					
Wind Speed (kmph)	2	3	2	2	2					
Wind Direction	NE	E	SW	NW	NW					

छत्तीसगढ़ का मैदानी भाग
Weather forecast for Chhattisgarh Plain Zone

	Bilaspur					Mungeli				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	34	35	35	35	35	34	35	35	35	35
Min. Temp. (°C)	16	16	17	17	17	16	16	17	17	17
Cloud Cover (Octa)	0	1	1	0	0	0	0	0	0	0
Maximum humidity (%)	80	80	75	75	75	80	80	75	75	75
Minimum humidity (%)	15	15	15	15	15	15	15	15	15	15
Wind Speed (kmph)	2	2	3	3	3	2	2	3	3	4
Wind Direction	SE	E	S	SE	SE	S	SE	SW	SE	S
	Raigarh					Korba				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	34	35	35	35	35	34	35	35	35	35
Min. Temp. (°C)	16	16	17	17	17	15	15	16	16	16
Cloud Cover (Octa)	0	0	0	0	0	0	0	1	0	0
Maximum humidity (%)	80	80	75	75	75	80	80	80	75	75
Minimum humidity (%)	15	15	15	15	15	15	15	15	15	15
Wind Speed (kmph)	3	2	2	2	2	2	2	2	3	3
Wind Direction	E	E	E	SE	E	E	E	SE	SW	W
	Janjgir					Rajnandgaon				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	33	34	34	34	34	33	34	35	35	35
Min. Temp. (°C)	18	18	19	19	19	18	19	19	19	20
Cloud Cover (Octa)	0	0	0	0	0	0	0	0	0	1
Maximum humidity (%)	80	80	80	75	75	75	75	75	75	70
Minimum humidity (%)	15	15	15	15	15	20	20	20	20	20
Wind Speed (kmph)	2	3	3	2	2	0	0	0	0	0
Wind Direction	E	E	NE	SE	E	0	0	0	0	0
	Kabirdham					Durg				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	35	35	35	35	35	33	33	34	35	35
Min. Temp. (°C)	15	16	16	16	17	16	17	17	18	18
Cloud Cover (Octa)	0	1	0	0	1	0	0	0	1	1
Maximum humidity (%)	55	55	55	55	50	75	75	75	75	70
Minimum humidity (%)	13	14	13	13	12	30	30	30	30	30
Wind Speed (kmph)	2	2	4	3	4	3	4	4	3	3
Wind Direction	W	SE	NW	W	SW	S	SE	SW	E	E
	Balod					Bemetara				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	35	35	35	35	35	35	35	35	35	35
Min. Temp. (°C)	19	20	20	20	21	19	20	20	20	21
Cloud Cover (Octa)	0	0	0	1	0	0	0	0	0	1
Maximum humidity (%)	56	55	50	49	50	55	55	55	55	50
Minimum humidity (%)	11	11	11	12	11	10	12	11	13	12
Wind Speed (kmph)	3	2	3	4	4	3	3	3	2	2
Wind Direction	S	SE	SE	N	N	S	S	S	S	S
	Raipur					Mahasamund				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	35	35	35	35	35	35	35	35	35	35
Min. Temp. (°C)	19	20	20	20	21	19	20	20	20	21
Cloud Cover (Octa)	0	0	0	1	0	0	0	0	0	0
Maximum humidity (%)	54	53	49	49	45	55	49	52	55	50
Minimum humidity (%)	10	11	11	12	11	10	11	11	11	11
Wind Speed (kmph)	4	2	3	3	4	2	2	4	3	4
Wind Direction	S	S	S	N	N	S	SE	SW	E	NE

	Balodabazar					Gariyaband				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	35	35	35	35	35	35	35	35	35	35
Min. Temp. (°C)	19	20	20	20	21	19	20	20	20	21
Cloud Cover (Octa)	0	0	0	1	0	0	0	0	0	1
Maximum humidity (%)	56	55	50	49	50	55	55	55	55	50
Minimum humidity (%)	11	11	11	12	11	10	12	11	13	12
Wind Speed (kmph)	3	2	3	4	4	3	3	3	2	2
Wind Direction	S	SE	SE	N	N	S	S	S	S	S
	Dhamrati					Kanker				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	34	34	34	34	34	35	35	35	35	35
Min. Temp. (°C)	14	15	15	15	15	15	16	16	16	17
Cloud Cover (Octa)	0	0	0	0	1	0	0	0	0	2
Maximum humidity (%)	55	55	55	55	50	53	55	55	55	50
Minimum humidity (%)	10	13	12	13	12	12	13	12	13	12
Wind Speed (kmph)	3	4	3	3	2	3	3	3	2	2
Wind Direction	S	S	S	E	E	S	S	S	SE	E

छत्तीसगढ़ के बस्तर पठारी भाग का
Weather forecast for Bastar Plateau Zone

	Baster					Dantewada				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	33	33	34	34	34	33	33	34	34	34
Min. Temp. (°C)	14	15	15	16	16	14	15	15	16	16
Cloud Cover (Octa)	0	0	0	0	3	0	0	0	0	2
Maximum humidity (%)	70	70	70	70	70	70	70	70	70	70
Minimum humidity (%)	30	30	30	30	30	30	30	30	30	30
Wind Speed (kmph)	2	2	3	2	2	3	2	3	3	3
Wind Direction	S	S	S	SW	SW	S	SE	S	SW	S
	Bijapur					Narayanpur				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	33	33	34	34	34	33	33	34	34	34
Min. Temp. (°C)	19	20	20	21	21	14	15	15	16	16
Cloud Cover (Octa)	0	0	0	0	1	0	0	0	0	3
Maximum humidity (%)	70	70	70	70	70	70	70	70	70	70
Minimum humidity (%)	30	30	30	30	30	30	30	30	30	30
Wind Speed (kmph)	2	2	2	2	2	2	2	2	2	2
Wind Direction	SE	SE	SE	S	SE	S	SE	S	SW	SE
	Kondagaon					Sukma				
	24FEB	25FEB	26FEB	27FEB	28FEB	24FEB	25FEB	26FEB	27FEB	28FEB
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	33	33	34	34	34	33	33	34	34	34
Min. Temp. (°C)	14	15	15	16	16	14	15	15	16	16
Cloud Cover (Octa)	0	0	0	0	3	0	0	0	0	1
Maximum humidity (%)	70	70	70	70	70	70	70	70	70	70
Minimum humidity (%)	30	30	30	30	30	30	30	30	30	30
Wind Speed (kmph)	2	2	3	2	2	3	2	3	3	3
Wind Direction	S	S	S	SW	SW	S	S	S	S	S

कृषि जलवायु क्षेत्रानुसार – कृषि/कृषि मौसम परामर्श
Agro climatic Zone wise Agricultural/Agro meteorological Advisories

छत्तीसगढ़ का उत्तरीय पहाड़ी भाग
Northern Hills Zone
(Surguja, Korea, Balrampur, Surajpur and Jashpurnagar district)

Crops	Phenological Stages	Advisory (Based on weather forecast)
Harvesting	-	Looking to mainly dry weather in the forecasted period, farmers are advised to harvest and dry the Gram, Pea, Mustard and Lentil crops.
Land preparation	-	After ensuring that sufficient moisture is in soil, farmers are advised to plough their field for summer crops.
Wheat	Heading/milking/dough stage	<ul style="list-style-type: none"> Late sown crops are at milking to dough stage and at this stage, moisture deficiency may cause heavy reduction in yield. Hence, farmers are advised to irrigate their fields during night as per the requirement. Roughing out the plants in wheat field after ear head emergence to maintain healthy and pure seed production.
Summer Moong (Green gram)	Germination	Farmers wishing to cultivate summer moong, may proceed immediately for sowing after field preparation. Before sowing, seed must be treated with Rhizobium culture.
Mustard	Siliquea formation/Maturity	Timely sown early duration variety crops are now approaching the maturity stage. Harvest the crops when siliquea turns into bright yellow colour and dry the harvested crop in the sun for 2-3 days before threshing.
Potato	Tuber formation/Maturity	Harvesting of early variety of potato is advised. Stop the irrigation in the potato field before 15 days of harvest and also cut the vegetative leaf for having potato for seed purpose.
Sugarcane:	Germination stage/Two leaf/four leaf stage	Temperature condition is getting normal for planting of sugarcane setts in the fields. Farmers are advised to plant spring-planted sugarcane.
Vegetables	Sowing	<ul style="list-style-type: none"> Temperature condition is now congenial for sowing of summer sown cucurbitaceous vegetables (eg. Pumpkin, cucumber, sponge gourd etc). Farmers are advised to start this work as soon as. An intercultural operation is advised in standing vegetable crop and gives light irrigation as per requirement. Preparation of land for sowing of summer vegetables. Application of 15-20 ton FYM during land preparation. Looking to the present weather conditions, farmers are advised for sowing of cucurbitaceous crop in the polythenes. Also, sowing of leafy vegetables and land preparation for the summer vegetables like cowpea, okra is advised.
Onion	-	Intercultural operation in early sown onion crop is advised to remove the weeds. Give light and frequent irrigation at an interval of 10-12 days as per requirement.
Fruit trees	Flowering/fruitletting	Presently mango crop is at flowering/fruit setting stage, at this stage powdery mildew is commonly observed in mango, which causes poor fruit setting and later on fruit dropping. Hence, it is advised to keep watch over the crop and whenever the symptom appears, spray Carbendizim (Bavistin) @1.5g or Sulphex @3.0g per litre of water.
Animal care	-	For feeding of animals with good nutritional quality fodder, should be crop cutting done before flowering. Feed the cattle dried fodder chaff cutting mixed with legume fodder such as Berseem, Lucerne etc.

छत्तीसगढ़ का मैदानी भाग

Chhattisgarh Plain Zone

(Raipur, Korba, Raigarh, Bilaspur, Mungeli, Janjgir-Champa, Kabirdham, Durg, Balod, Bemetara, Mahasamund, Balodabazar, Gariyaband, Rajnandgaon, Dhamtari & Kanker districts)

Wheat/Cereal:

1. Irrigation must be given in flowering stage of wheat.
2. In summer paddy farmers are advised to fix pheromone traps and light trap nearby the field for the control of stem borer.
3. Roughing out the plants in wheat field after ear head emergence to maintain healthy and pure seed production.

Oilseed/Pulses:

1. If outbreak of aphid shown in mustard than apply imidaclopid @ 80 ml/acre dissolved in 200 liter water.
2. Harvested latyrus may be kept in the safe places.
3. For the control of adult caterpillar in gram spray Profenofas + Cypermethrin mixed insecticide @ 400 ml/acre dissolved in 200 liter water.

Vegetables:

1. To control borer insect in okra and brinjal, use pheromone traps@ 5 Nos/acre and destroy the upper portion of affected plants.
2. Farmers are advised for the control of purple blotch of onion by spraying saaf fungicide @ 2 g per liter of water.

Fruit :

1. Jowar and sun-hemp crops are planted in the circumstance of banana field so that during summer it will grow up to the height and protect banana crop from heat waves.
2. Presently mango crop is at flowering/fruit setting stage, at this stage powdery mildew is commonly observed in mango, which causes poor fruit setting and later on fruit dropping. Hence, it is advised to keep watch over the crop and whenever the symptom appears, spray Carbendizim (Bavistin) @1.5g or Sulphex @3.0g per litre of water.

Animal husbandry:

1. Berseem is available for feeding to animals as green fodder. Hence green fodder mixed with dry straw should be provided for feed.
2. Keep away mosquitos from animal shed by suitable areas. In summer season give 50-60 gram salt per animal per day.
3. Vaccinate the calves at the age of 6-8 months to once in a life with "contagious abortion" vaccine.

छत्तीसगढ़ के बस्तर का पठारी भाग

Bastar Plateau Zone

(Bastar, Dantewada, Narayanpur, Kondagaon, Bijapur and Sukma districts)

Seed Treatment	<ul style="list-style-type: none"> ➤ Non Systemic fungicide- From this group of fungicide the fungus found on the seed get destroyed Example- Thairum, Captan, Daithen M-45. Use any of fungicide @ 3 gram per kg of seed for treatment. ➤ Systemic Fungicide- Such type the fungicide enter the seed and destroyed the fungus. It also provide protection of the seeds up to 15-20 days from fungal attack. Example - Vitavax/ Bavistine 2 to 3 gram per kg of seed for treatment. ➤ For seed treatments several bioagent such as trichoderma harzeanum and trichoderma viridi 6-8 gm per kg of seed. If necessary than use pseudomonas flurocens may also be used for treatments.
<u>Rabi Crops</u>	<ul style="list-style-type: none"> ➤ In cucurbitaceous crops like bottlegaurd, pumpkin, ridgegaurd, and snakegaurd for control of powdery mildew diseases by karathan 1 gm/liter of water should be spray. ➤ In all fallow field deep summer ploughing should be done with the help of mould board plough for prevantion of insect, pathogen and weeds. ➤ For the control of white rust in mustard crop spray Mencozeb + Metalaxyl (2.5g./lit. water) or copper containing (2.5g./lit. water). ➤ In places where chickpea requires irrigation and irrigation facilities are not available than spray 2% of urea solution. ➤ For control of gram caterpillar spray N.P.V. 250 L.E. ➤ For the control of shoot & fruit borer of brinjal crop apply Carboril soluble powder 50% @ 2kg or Trizofhas 40 e.c. @ 1 lit per/hect. Further, repeat it 15-20 days interval. ➤ In early stage of maize for the control of stem borer spray (20 EC) Chlorpyrifos 1000 m.l./ha. For later stage Carbofuron G@ 10 kg. h in whorl portion ➤ For control of aphids in mustard crop <ol style="list-style-type: none"> 1. At flowering and siliqua stages maintain proper soil moisture. 2. Balanced fertilizer with special reference of potash application. 3. Chemical control through methayal oxydemeton 25 EC, OR Dimethoate 30 EC 750 ml per hectare OR Imedachloroprid 200 SL 0.5 ml per liter of water at 15 days interval for 2-3 times. ➤ The critical stages of wheat crop are CRI, trilling stage, jointing, flower initiation stage, milking stage and grain maturity stage. Out of this stages CRI and flower initiation stage is most critical. Hence, as per stages try to give irrigation. ➤ For year around fodder production for cattle adopt - Crop rotation - Berseem + Mustard - Hybrid Napier - Lobia.
<u>Animal Husbandry</u>	<ul style="list-style-type: none"> ➤ Supplement the wormicide medicine in feed of poultry birds at a regular interval of 3 months. ➤ Try to mentioned dry cattle sheds to prevent from disease.