

कृषि मौसम परामर्श बुलेटिन
Agro Meteorological Advisory Bulletin
 के लिए
for the
 छत्तीसगढ़ राज्य
State of Chhattisgarh
 अवधि – 21 नवम्बर 2017 से 24 नवम्बर 2017 तक
For the period 21 November 2017 to 24 November 2017

जारी करने का दिनांक
Issued on

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सौजन्य से
In collaboration with



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

Weather summary for the period: - 17.11.2017 to 21.11.2017

Chief Amount of Rainfall (cm):

17.11.2017	Nil
18.11.2017	Nil
19.11.2017	Nil
20.11.2017	Nil
21.11.2017	Nil

S.NO	STATION	RAINFALL(mm)				
		17.112017	18.11.2017	19.11.2017	20.11.2017	21.11.2017
1	Raipur	0.0	0.0	0.0	0.0	0.0
2	Mana AP	TRACE	0.0	0.0	0.0	0.0
3	Bilaspur	0.0	0.0	0.0	0.0	0.0
4	Pendra-road	0.0	0.0	0.0	0.0	0.0
5	Ambikapur	0.0	0.0	0.0	0.0	0.0
6	Jagdalpur	0.0	0.0	0.0	0.0	0.0
7	Durg	0.0	0.0	0.0	0.0	0.0
8	Rajnandgaon	0.0	0.0	0.0	0.0	0.0

Temperature:

- Range

	Temperature (° C)	Departure (° C)
Maximum temperature	26 TO 32	-04 TO +04
Minimum temperature	16 TO 22	+01 TO +06

- Temperature

S.No	Station	17.11.2017		18.11.2017		19.11.2017		20.11.2017	
		Max (°C)	Min (°C)	Max (°C)	Min (°C)	Max(°C)	Min (°C)	Max(°C)	Min (°C)
1	Raipur	29.0	21.7	29.5	20.5	30.9	21.5	32.1	22.2
2	Mana AP	27.4	21.3	29.0	19.7	30.9	20.0	32.0	21.3
3	Bilaspur	30.0	21.4	31.0	21.0	31.7	19.4	32.0	19.9
4	Pendra-road	28.4	19.0	30.2	16.9	31.6	17.3	29.8	16.7
5	Ambikapur	25.6	18.5	27.2	16.2	27.1	15.9	27.2	15.2
6	Jagdarpur	25.6	20.2	30.1	18.6	30.6	19.7	31.5	19.9
7	Durg	29.6	20.9	30.6	19.0	31.2	18.4	31.8	19.0
8	Rajnandgaon	-	19.0	27.0	19.0	28.0	19.0	28.2	18.8

Relative humidity: RH was in the range of **48% to 98%**.

Cloud amount: 02-08 Octa.

Wind Speed: Ranged between **00-12 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				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	27	26	26	26	26	27	26	26	26	26
Min. Temp. (°C)	13	13	12	12	11	13	13	12	12	11
Cloud Cover (Octa)	0	1	0	0	0	0	0	0	0	0
Maximum humidity (%)	85	85	85	85	85	85	85	85	85	85
Minimum humidity (%)	45	45	45	45	40	45	45	45	45	45
Wind Speed (kmph)	5	5	3	4	3	5	5	3	4	2
Wind Direction	S	SW	SE	SE	N	SW	SW	SW	SW	S
	Surajpur					Jashpur				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	27	26	26	26	26	25	25	25	25	25
Min. Temp. (°C)	13	13	12	12	11	15	15	14	14	13
Cloud Cover (Octa)	0	0	0	0	0	0	0	0	0	0
Maximum humidity (%)	85	85	85	85	85	85	85	85	85	85
Minimum humidity (%)	45	45	45	45	45	45	45	45	45	45
Wind Speed (kmph)	4	4	2	2	3	3	4	2	3	3
Wind Direction	SW	W	S	SE	E	NW	NW	SW	SW	E
	Koriya									
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV					
Rainfall (mm)	0	0	0	0	0					
Max. Temp. (°C)	27	26	26	26	26					
Min. Temp. (°C)	13	13	12	12	11					
Cloud Cover (Octa)	0	0	0	0	0					
Maximum humidity (%)	85	85	85	85	85					
Minimum humidity (%)	45	45	45	45	45					
Wind Speed (kmph)	4	5	2	3	2					
Wind Direction	NW	NW	NW	W	E					

छत्तीसगढ़ का मैदानी भाग
Weather forecast for Chhattisgarh Plain Zone

	Bilaspur					Mungeli				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	31	31	30	30	29	31	31	30	30	29
Min. Temp. (°C)	17	17	18	17	16	17	17	18	17	16
Cloud Cover (Octa)	0	1	1	0	0	0	0	0	0	0
Maximum humidity (%)	70	65	65	65	65	70	65	65	65	65
Minimum humidity (%)	55	55	55	55	55	55	55	55	55	55
Wind Speed (kmph)	3	3	2	4	3	4	3	2	4	3
Wind Direction	S	S	S	S	SE	S	S	S	S	E
	Raigarh					Korba				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp (°C)	31	31	30	30	29	31	31	30	30	29
Min. Temp. (°C)	17	17	18	17	16	17	17	18	17	16
Cloud Cover (Octa)	0	0	0	0	0	0	0	0	0	0
Maximum humidity (%)	70	65	65	65	65	70	65	65	65	65
Minimum humidity (%)	55	55	55	55	55	55	55	55	55	55
Wind Speed (kmph)	2	3	2	3	2	2	3	2	2	3
Wind Direction	SE	SW	NE	NE	NE	SW	W	SE	SE	E
	Janjgir					Rajnandgaon				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp (°C)	31	31	30	30	29	28	28	27	27	26
Min. Temp (°C)	17	17	18	17	16	19	18	18	17	16
Cloud Cover (Okta)	0	0	0	0	0	2	2	0	1	1
Maximum humidity (%)	70	65	65	65	65	80	80	80	80	80
Minimum humidity (%)	55	55	55	55	55	55	55	55	55	55
Wind Speed (kmph)	2	3	2	3	2	0	0	0	0	0
Wind Direction	SE	SW	N	N	N	0	0	0	0	0
	Kabirdham					Durg				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp (°C)	31	31	31	30	30	30	30	29	29	29
Min. Temp. (°C)	20	19	18	17	17	17	17	17	16	16
Cloud Cover (Okta)	0	0	0	0	0	2	2	2	0	1
Maximum humidity (%)	65	65	65	65	65	75	75	75	75	75
Minimum humidity (%)	55	55	55	55	55	50	50	50	50	50
Wind Speed (kmph)	2	3	2	3	2	4	4	3	4	3
Wind Direction	S	SW	S	S	NE	NE	E	NE	NE	N
	Balod					Bemetara				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	30	30	29	29	29	30	30	29	29	29
Min. Temp (°C)	17	17	17	16	16	17	17	17	16	16
Cloud Cover (Okta)	1	0	0	1	1	1	0	0	0	0
Maximum humidity (%)	75	75	75	75	75	75	75	75	75	75
Minimum humidity (%)	50	50	50	50	50	50	50	50	50	50
Wind Speed (kmph)	4	4	3	3	3	4	4	2	4	3
Wind Direction	NE	NE	NE	NE	NE	N	E	N	NE	N

	Kondagaon					Sukma				
	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV	22 NOV	23 NOV	24 NOV	25 NOV	26 NOV
Rainfall (mm)	0	0	0	0	0	5	0	0	0	0
Max. Temp (°C)	30	30	29	29	28	30	30	29	29	28
Min. Temp. (°C)	17	17	16	15	14	17	17	16	15	14
Cloud Cover (Octa)	3	3	1	3	2	3	3	1	3	2
Maximum humidity (%)	90	90	90	90	90	90	90	90	90	90
Minimum humidity (%)	70	70	70	70	70	70	70	70	70	70
Wind Speed (kmph)	2	2	2	2	2	2	2	2	2	2
Wind Direction	N	NE	NE	N	E	SE	E	NE	NE	NE

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)

- **Paddy harvest:** Forecasted weather will remain favorable for harvesting and threshing of paddy crop. Farmers are advised to do this giving top priority so that the field preparation for sowing of *rabi* crops can be done on time.
- **Wheat Sowing:** Temperature condition is becoming favorable for sowing of timely sown wheat crop. Farmers are advised to start the sowing of normal sown wheat. Apply 120 kg nitrogen, 60 kg phosphorus and 40 kg potassium per hectare at the time of field preparation. Use seed rate for normal sowing @ 100 kg per hectare & for broadcast @ 120 kg per hectare.
- **Wheat:** This is the right time for wheat crop sowing hence farmers are advised to complete the sowing operation at the earliest.
- **Seed treatment:** Before the sowing of pulse crops farmers are also advised for the seed treatment with Bavistin or Thiram @ 2.5 g per kg of seed followed by treating with recommended Rhizobium cultures @ 5 g per kg seed.
- **Sowing:** Farmers are advised for sowing of gram with zero tillage practice.
- **Chick pea/Toria:** Sowing of late varieties of these crops is advised. Interculturing is advised in the toria crop which is sown around 2nd November apply N@30 kg per hectare after giving irrigation.
- **Green Pea:** The crop may be attacked by powdery mildew disease. Hence, spray Karathen @ 1 ml per litre of water or Sulfex @ 3 gm per litre of water to control the disease.
- **Transplanting:** Looking to the present weather conditions farmers are advised for the transplanting of cauliflower, tomato, brinjal, chilli etc. in the main field during evening hours. Farmers can also sow the leafy vegetables.

- **Onion:** Present weather conditions are favourable for the sowing of potato and garlic and also for raising seedlings of Onion. Hence, farmers having proper irrigation facilities are advised for the sowing of the same. Seed treatment before planting is advised.
- **Orchard:** Farmers are advised to Paint stem of tree by using Bordo mixer/pest, maintain cleanness in the orchard, prepare basin around the tree and apply recommended dose of manure and fertilizer.
- **Green fodder:** At present green fodder is available in plenty. Therefore daily farmers are advised that green fodder mixed with forage should be fed to animals/ cows/ buffaloes. Care for prevention of loose motion should be followed.
- **Milch animals:** Provide concentrate feed to milch animals mix with dry and green fodder and insure for enrich diet having protein, carbohydrate, fat, vitamins etc. Provide concentrate feed to milch animals mix with dry and green fodder and insure for enrich diet having protein, carbohydrate, fat, vitamins etc.
- **Animal care:** Low temperature condition may adversely affect the milk production and performance of domestic animals. Farmers are advised to give protein enriched diet to the animals. Do not keep the animal in the open.

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)

General

1. After rice harvesting residual moisture should be properly conserved and this can be utilized for rabi crops sowing by zero seed drill.
2. Prepare the fields for sowing of rabi crops and go for sowing of chickpea ,safflower, linseed and lentil in time.
3. Seed treatment is mandatory in gram corp. For seed treatment apply Carbendazim @ 1.5 gram + Rhizobium culture @ 6 to 10 gram and Trichoderma @ 6 to 10 gram/kg seed.
4. Rotovator should be used for shallow ploughing. This will help in saving of time and fuel.
5. Small farmers can use Bullock drawn Bhoramdev seed drill for line sowing of chickpea.

Vegetables:

1. Before sowing the seed of vegetables seed should be treated with Metalexyl @ 1 gram per kilogram of seed.
2. Use Pheromone Traps @ 20 Nos/ha to control attack of fruit borer in brinjal, tomato and bhindi crops.

Fruits:

1. To rejuvenate old anola tree cutting and pruning should be done at 1 m height above the ground level.
2. Apply Borex @ 100 gram and Magnesium Sulfate @ 80 gram per tree near the root zone and mixed properly in the soil.
3. To increase the water use efficiency in horticulture crop adopt drip irrigation system.

Animal husbandry:

1. Newly borne calves should be prevented from cold condition. For this floor should be covered with paddy straw litter which provides a thermal mulch. All milch animals should be kept in specially protected and safe cattlesheds during night.
2. Perennial forage crops should be harvested and additional forage should be kept for feeding animals.
3. Sowing of Berseem should be completed by month-end.

छत्तीसगढ़ के बस्तर का पठारी भाग

Bastar Plateau Zone

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

<u>Seed treatment</u>	<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>Vegetable Crops</u>	<ul style="list-style-type: none"> ➤ Harvesting of kharif planted colocasia should be done for again sowing of Rabi crops like Pea and French bean on same field. ➤ Field preparation to be started for planting of Rabi colocasia and bunda.
<u>Kharif Crop/ Rabi Crop</u>	<ul style="list-style-type: none"> ➤ Field preparation should be done soon after harvesting of rice using minimum tillage/zero tillage so that the conserved moisture may be utilized by following rabi crop. ➤ Store rice at 12% moisture level. The stage when the rice is tested by pressing between the teeth to hear 'cut' sound is considered safe to store seed. ➤ Treat the gunny bags with insecticide and dry for proper storage. ➤ Use Indira seed cum fertilizer drill (Bullock drawn) for sowing rabi crops. ➤ Treat pulse and oilseed crops seed with <i>Rhizobium</i> culture (seed treatment). ➤ Rabi crop seeds should be treated with <i>Bavistin</i> @2 to 3 gram per Kg prior to sowing. ➤ For year around fodder production for cattle adopt - Crop rotation - Berseem + Mustard - Hybrid Napier - Lobia. ➤ For timely (15 November) sowing of wheat crop under irrigated condition selects→ any variety: - Lok-1, W.H. 147, Kanchan & Raj. ➤ For partially irrigated condition important variety of wheat: - C 308, Sujata,→ H.W. 2004, Ratan, H.I.-8627 & H.I. 1531. <p style="text-align: center;">Arrange the seed of different crops for utera cultivation and start sowing for better utilization of soil moisture according to land topography.</p> <p>Suitable varieties of pulse crops :</p> <ul style="list-style-type: none"> ➤ Lathyrus - Ratan, Prateek, Mahatiwada.

	<ul style="list-style-type: none"> ➤ Gram - J.G.-74, Vijay, Vebhav, J.G.-14, Indira Chana-1, J.S.C.-56. ➤ Pea - Ambika, Adharsh(I.P.F. 99-25), Shubra, J.P. - 885, Paras, Vikas(I.P.F.D. 99-13), Praksh(I.P.F.D. 1-10), I.P.F.D.-10-12. ➤ Lentil -Lens-4076, I.P.L.-81(Nuri), J.L.-3. <p>Suitable varieties of oilseed crops :</p> <ul style="list-style-type: none"> ➤ Linseed : R 552, Kiran, T-397, Padmini , Shekhar, Indira als-32, Kartika, Deepika, ➤ Mustard : Pusa jai kisan, Pusa bold ,Kranti, Vardan, Varuna, chhattisgarh sarso ➤ Safflower : J S F-1, J S I-7, Veema, A-1, Nari N H-1, Nari-6, P B B N S -12 . ➤ In those field where crops are ready to harvest, select any one variety of toria like Indira toria-1, Pant toria - 30, T-9, P.T.- 303 and Anuradha for sowing after harvest of kharif crop. ➤ If the white fly is occurring during flowering stage in niger. spray the triazophos 1gm/liter for their control. ➤ Harvest the pulse crops before the shattering. ➤ Soaked the seed of pea for four hours than sow it. ➤ Long duration rice variety where flowering in not initiated apply last dose of fertilizers. ➤ Prepare the nursery for rabi vegetables like- cabbage, cauliflower, brinjal, tomato and chilly etc. ➤ For the control of swarming cater pillar - protexophos + cypermethrin @ 1.5ml/litre.
<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.