

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

अवधि –20 अप्रैल 2018 से 24 अप्रैल 2018 तक
For the period 20 April 2018 to 24 April 2018

जारी करने का दिनांक
Issued on

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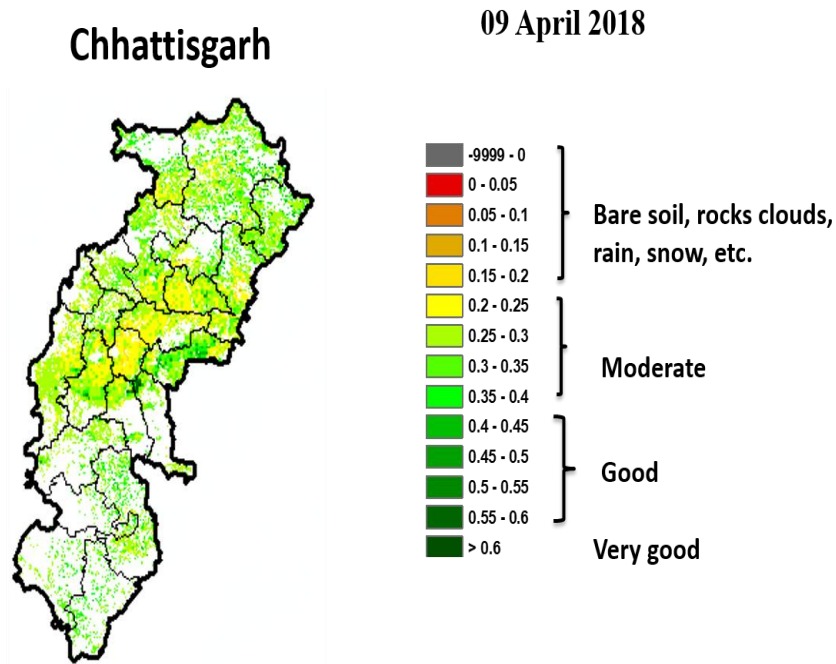
इंदिरा गांधी कृषि विश्वविद्यालय, रायपुर छ.ग.
Indira Gandhi Krishi Vishwavidhyalaya, Raipur
 तथा



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, राजनादगांव 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 09.04.2018



Past Weather summary for the period: 17.04.2018 to 20.04.2018

Chief Amount of Rainfall (cm):

17.04.2018	Nil.
18.04.2018	Sukma 4,Ramanujnagar 1 each.
19.04.2018	Sukma 1.
20.04.2018	Nil.

S.NO	STATION	RAINFALL(mm)			
		17.04.2018	18.04.2018	19.04.2018	20.04.2018
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	0.3	0.0	0.0	0.0
5	Ambikapur	0.0	0.2	0.0	0.0
6	Jagdapur	0.0	TRACE	TRACE	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	37 to 42	-01 to +04
Minimum temperature	20 to 27	-02 to +03

• Temperature

S.No	Station	17.04.2018		18.04.2018		19.04.2018	
		Max (° C)	Min (° C)	Max (° C)	Min (° C)	Max(° C)	Min (° C)
1	Raipur	40.7	26.7	41.0	26.0	40.6	25.8
2	Mana AP	42.0	26.8	41.9	26.3	41.5	25.6
3	Bilaspur	42.1	25.4	41.4	24.0	40.6	25.4
4	Pendra-road	38.1	23.9	38.9	22.8	39.3	20.3
5	Ambikapur	38.7	22.6	37.5	20.5	38.1	20.3
6	Jagdapur	37.1	23.0	37.3	22.6	37.0	23.2
7	Durg	39.8	24.0	40.4	23.2	41.6	25.2
8	Rajnandgaon	41.0	23.2	41.0	25.6	41.0	26.0

Relative humidity: RH was in the range of 16% to 84%.

Cloud amount: 00-05Octa.

Wind Speed: Ranged between 00-15 kmph in the state during the week.

Long Range Forecast For 2018 Southwest Monsoon Seasonal (June-September) Rainfall

Summary of the Forecast for the 2018 southwest monsoon Rainfall

- a) Quantitatively, the monsoon seasonal rainfall is likely to be 97% of the Long Period Average (LPA) with a model error of $\pm 5\%$. The LPA of the season rainfall over the country as a whole for the period 1951-2000 is 89 cm.
- b) Forecast also suggests maximum probability for normal monsoon rainfall (96-104% of LPA) and low probability for deficient rainfall during the season. IMD will issue the update in early June, 2018 as a part of the second stage forecast. Along with the updated forecast, separate forecasts for the monthly (July and August) rainfall over the country as a whole and seasonal (June-September) rainfall over the four geographical regions of India will also be issued

Agro climatic Zone wise Weather forecast for Chhattisgarh

छत्तीसगढ़ का उत्तरीय पहाड़ी भाग Weather forecast for Northern Hills Zone

	Surguja					Balrampur				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	39	39	39	40	40	39	39	39	40	40
Min. Temp. (°C)	21	21	22	22	22	21	21	22	22	22
Cloud Cover (Octa)	0	0	0	0	0	1	1	0	0	0
Maximum humidity(%)	60	60	45	45	45	55	60	45	45	45
Minimum humidity(%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	4	4	3	4	4	4	4	2	2	3
Wind Direction	W	SW	NE	NE	E	SW	SW	SW	SW	SW
	Surajpur					Jashpur				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	39	39	39	40	40	37	37	37	38	38
Min. Temp. (°C)	21	21	22	22	22	19	19	20	20	20
Cloud Cover (Octa)	0	0	0	0	0	0	0	0	0	0
Maximum humidity(%)	55	55	45	45	45	65	60	50	45	45
Minimum humidity(%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	3	4	2	2	2	3	4	4	4	4
Wind Direction	SW	W	S	S	S	SW	S	E	E	SE
	Koriya									
	21 April	22 April	23 April	24 April	25 April					
Rainfall (mm)	0	0	0	0	0					
Max. Temp. (°C)	40	40	40	41	41					
Min. Temp. (°C)	21	21	22	22	22					
Cloud Cover (Octa)	0	0	0	0	0					
Maximum humidity(%)	55	55	50	50	50					
Minimum humidity(%)	20	20	20	20	20					
Wind Speed (kmph)	4	4	2	2	2					
Wind Direction	SW	SE	SW	SW	SW					

छत्तीसगढ़ का मैदानी भाग
Weather forecast for Chhattisgarh Plain Zone

	Bilaspur					Mungeli				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	41	41	41	42	42	41	41	41	42	42
Min. Temp. (°C)	24	24	25	26	26	24	24	25	26	26
Cloud Cover (Octa)	1	1	1	0	0	1	1	1	0	0
Maximum humidity (%)	55	55	40	40	40	55	55	40	40	40
Minimum humidity (%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	5	6	4	4	3	4	7	4	3	3
Wind Direction	SW	SE	SW	SW	SW	W	SE	SW	SW	S
	Raigarh					Korba				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	41	41	41	42	42	42	42	42	43	43
Min. Temp. (°C)	24	24	25	26	26	23	23	24	25	25
Cloud Cover (Octa)	1	1	1	0	0	1	1	1	0	0
Maximum humidity (%)	60	55	55	55	50	55	55	55	55	50
Minimum humidity (%)	20	20	20	20	20	20	20	20	20	20
Wind Speed (kmph)	4	4	2	2	2	2	5	4	3	2
Wind Direction	SW	SW	NE	NE	SE	SW	SW	S	S	SW
	Janjgir					Rajnandgaon				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	41	41	41	42	42	41	42	42	42	43
Min. Temp. (°C)	23	23	24	25	25	26	26	27	27	27
Cloud Cover (Octa)	1	1	1	0	0	1	0	0	0	0
Maximum humidity (%)	55	55	55	55	55	35	30	25	25	25
Minimum humidity (%)	20	20	20	20	20	11	11	8	11	8
Wind Speed (kmph)	5	4	3	2	2	10	7	6	6	10
Wind Direction	SW	W	E	NE	SW	S	S	S	SW	S
	Durg					Balod				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	41	41	42	42	43	41	41	42	42	43
Min. Temp. (°C)	24	24	25	25	26	24	24	25	25	26
Cloud Cover (Octa)	1	1	0	0	0	1	1	0	0	0
Maximum humidity (%)	50	45	45	45	45	55	50	50	55	55
Minimum humidity (%)	30	30	25	25	25	30	30	25	25	25
Wind Speed (kmph)	7	5	4	4	5	6	4	4	4	5
Wind Direction	SW	SW	SW	W	SW	SW	SW	S	SW	SW
	Bemetara					Raipur				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	41	41	42	42	43	42	42	42	43	43
Min. Temp. (°C)	24	24	25	25	26	26	26	26	27	27
Cloud Cover (Octa)	1	1	0	0	0	1	1	0	0	0
Maximum humidity (%)	45	45	45	45	45	45	40	35	35	35
Minimum humidity (%)	25	25	25	25	25	15	15	15	15	15
Wind Speed (kmph)	6	5	3	5	4	8	5	4	5	5
Wind Direction	SW	SW	W	W	S	SW	SW	S	SW	SW
	Mahasamund					Kabirdham				
	18 April	19 April	20 April	21 April	22 April	18 April	19 April	20 April	21 April	22 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	42	42	42	43	43	42	42	42	43	43
Min. Temp. (°C)	26	26	26	27	27	23	23	23	24	24
Cloud Cover (Octa)	1	1	0	0	0	1	1	0	0	0
Maximum humidity (%)	50	45	40	40	40	40	40	40	40	40
Minimum humidity (%)	15	15	15	15	15	15	15	15	15	15
Wind Speed (kmph)	8	6	4	5	5	5	6	4	4	4
Wind Direction	SW	SW	SW	W	SW	W	SW	SW	SW	SW

	Balodabazar					Gariyaband				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	42	42	42	43	43	42	42	42	43	43
Min. Temp. (°C)	26	26	26	27	27	26	26	26	27	27
Cloud Cover (Octa)	1	1	0	0	0	1	1	0	0	0
Maximum humidity (%)	45	40	35	35	35	57	50	52	47	58
Minimum humidity (%)	15	15	15	15	15	15	15	15	15	15
Wind Speed (kmph)	9	4	4	5	5	6	5	4	4	4
Wind Direction	SW	SW	S	SW	SW	SW	SW	SW	SW	SW
	Dhamrati					Kanker				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	0	0
Max. Temp. (°C)	42	42	42	43	43	42	42	42	43	43
Min. Temp. (°C)	26	26	26	27	27	26	26	26	27	27
Cloud Cover (Octa)	1	1	0	0	0	1	1	0	0	0
Maximum humidity (%)	57	50	41	46	52	60	60	55	55	55
Minimum humidity (%)	15	15	15	15	15	15	15	15	15	15
Wind Speed (kmph)	6	4	4	4	4	5	4	2	2	4
Wind Direction	SW	SW	SW	SW	SW	S	S	S	SW	S

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

	Baster					Dantewada				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	0	0	0	4	7
Max. Temp. (°C)	37	37	38	38	37	37	37	38	38	37
Min. Temp. (°C)	23	23	24	24	23	23	23	24	24	23
Cloud Cover (Octa)	2	2	2	2	3	2	2	2	2	3
Maximum humidity (%)	80	80	80	75	75	86	82	83	77	71
Minimum humidity (%)	35	35	35	35	35	35	35	35	35	35
Wind Speed (kmph)	6	5	4	2	4	5	7	5	4	5
Wind Direction	SW	SW	SW	SW	SW	S	S	S	S	S
	Bijapur					Narayanpur				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	3	4	0	0	0	0	0	0
Max. Temp. (°C)	40	40	41	41	40	37	37	38	38	37
Min. Temp. (°C)	24	24	25	25	24	23	23	24	24	23
Cloud Cover (Octa)	2	2	2	2	3	2	2	2	2	3
Maximum humidity (%)	82	74	73	65	63	78	74	77	61	63
Minimum humidity (%)	35	35	35	35	35	35	35	35	35	35
Wind Speed (kmph)	5	7	7	4	5	8	6	5	4	5
Wind Direction	SE	SE	SE	SE	SE	S	S	S	S	S
	Kondagaon					Sukma				
	21 April	22 April	23 April	24 April	25 April	21 April	22 April	23 April	24 April	25 April
Rainfall (mm)	0	0	0	0	0	4	5	0	4	10
Max. Temp. (°C)	37	37	38	38	37	37	37	38	38	37
Min. Temp. (°C)	23	23	24	24	23	23	23	24	24	23
Cloud Cover (Octa)	2	2	2	2	3	2	2	2	2	3
Maximum humidity (%)	80	80	75	60	61	80	80	80	79	73
Minimum humidity (%)	35	35	35	35	35	21	24	27	27	24
Wind Speed (kmph)	7	6	4	2	4	4	6	4	4	5
Wind Direction	SW	SW	SW	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)

- **Wheat:** Farmers are advised to dry the grain in sunlight before threshing and storage. Crops should be stored immediately after threshing.
- **Irrigation:** Farmers are advised for proper water management in summer vegetables, summer rice, summer maize, groundnut and sunflower as per the requirement. The farmers having drip irrigation system for vegetables and plantation crops should regulate the water discharge rate accordingly to maintain proper soil moisture around root zone.
- **Summer Plough:** To conserve soil moisture farmers are advised for deep summer ploughing in their vacant fields.
- **Kharif Crop:** Farmers are advised to arrange the seeds of *kharif* paddy from reliable sources.
- **Summer Rice:** As temperature is going to increase therefore increasing the rate of water requirement in summer paddy. Farmers are advised for irrigating the crop as per requirement.
- **Summer Mung:** Irrigate the crop immediately in case of deficient soil moisture. Before irrigation, weeding is must to conserve moisture for a longer period.
- **Onion and Garlic Crops: Maturity stage:** With increasing temperature, farmers are advised to dig out the tubers from the fields.
- **Mango, Litchi:** Irrigate the fruit bearing trees at regular interval.
- **Vegetables:** Need based irrigation and intercultural operation should be done in tomato, brinjal, chilli, okra and other vegetable crops. Increase frequency of irrigation as per environment temperature.
- **Buffalo:** Buffalo should be kept in the water-filled pond for at least half an hour every day.
- **Livestock:** Special attention should be given to milch animals with regard to feed and water looking to high temperature. Give lot of clean water to the animals and keep them in the shaded place. If possible arrange the fogger in animal shed and sprinkling should be done at an interval of every four to five hours.
- **Cattle:** There is a chance of attack of Heat stroke in cattle at present weather condition. Hence, farmers are requested to avail plenty of drinking water for them and do not allow them to remain in sunlight during intense heat. To keep their room cool, Jute bag may be hanged as curtain in the windows and it should be wetted time to time.
- **Poultry:** Poultry farmers are advised to cover their poultry house with mat and keep it wet so that inner temperature may maintain normal.

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. Evaporation rates have increased during past week (8-9 mm/day) and thereby the water requirement of rabi crops has also increased. Therefore, it advised to reduce the interval between two irrigations to maintain proper soil-moisture and micro-climate within the crop canopy to minimise the adverse effect of higher temperature or thermal stress. The farmers who have facility of drip irrigation system for vegetables and plantation crops should regulate the water discharge rate accordingly to maintain proper soil moisture around root zone.
2. To conserve soil moisture farmers are advised for summer ploughing.
3. After harvesting of rabi crops, clean and healthy seed should be kept ready for sowing during next year.

Vegetables:

1. Regular monitoring of the summer vegetables crops should be done and irrigate the crop as per need.
2. Vine vegetables viz., bottlegourd, watermelon, musk melon planting should be ensured as this is the appropriate time.
3. Green vegetables and cowpea sowing must be ensured by the farmers.

Fruit /Floriculture :

1. Orchard interested farmers should prepare the pits of the size 1x1x1 meter and should prepare the fields after proper solar solarization. Appropriate varieties of fruits should be chosen and plantation should be done accordingly.
2. This is the right time for papaya plantation. These should be planted in the polybags so that these can be planted in the main fields on the onset of monsoon. The appropriate varieties for papaya are Pusa Nanha, Pusa Dwarf.
3. Prepare basin around the tree of mango, pomegranate and lemon and provide irrigation regularly at 4-5 days interval.
4. For tree plantation the pit should be dug now. Then after onset of monsoon plantation can be done.

Animal husbandry:

1. Looking into increasing temperature farmers are advised to keep their animals in shade and give regularly water to them
2. Poultry farmers are advised to cover their poultry house with mat and keep it wet so that inner temperature may be maintained normal.

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 inter 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"> ➤ The harvested rabi crops should be stored 12-14 % moisture . ➤ In last fortnight we have received 77 mm rainfall this is the high time for summer deep ploughing and sowing of green manure crops viz sanai , diacha etc. ➤ Top dressing of nitrogen fertilizer should be done in last month sown crops ➤ All tubers inter crops of coconut orchard should be dug out and stored at cool Place. ➤ Looking to the present weather conditions farmers are advised to complete the harvesting of matured rabi crops followed by threshing and winnowing of produce kept in the threshing floors as early as possible and store the produce in safe place. ➤ After the harvest of wheat crop deep ploughing should be done and try to sow green manure crops in the month of May. ➤ 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.