

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

अवधि – 17 जुलाई 2018 से 20 जुलाई 2018 तक
For the period 17 July 2018 to 20 July 2018

जारी करने का दिनांक
Issued on

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सौजन्य से

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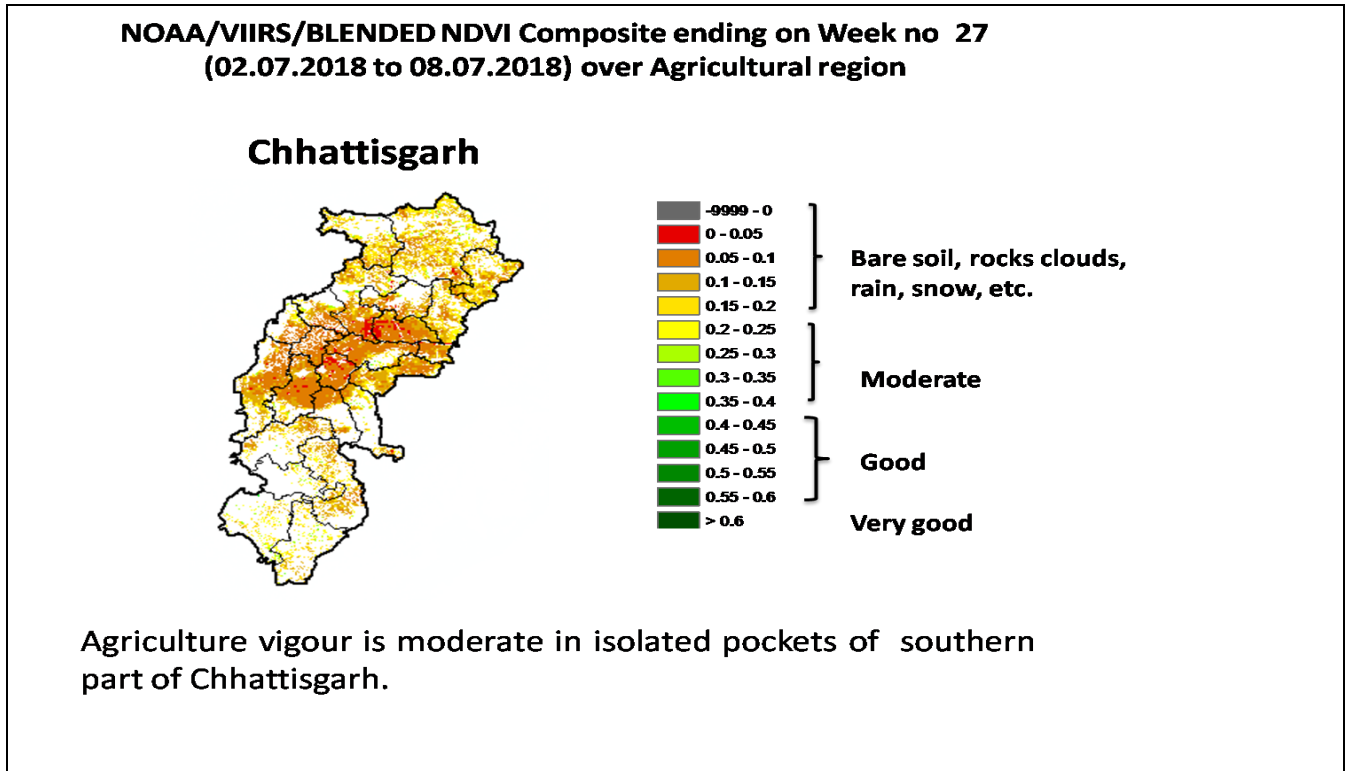
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 तथा



कृषि विभाग छत्तीसगढ़ शासन
State Department of Agriculture

राज्य का कृषि जलवायु क्षेत्र Agro climatic Zone of State			
Sr.N0.	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 02.07.2018 to 08.07.2018



DISTRICT WISE SEASONAL RAINFALL FROM 01.06.2018 TO 17.07.2018

DISTRICT NAME	ACTUAL(mm)	NORMAL(mm)	DEP (%)	CATEGORY
BALOD	409.7	362.3	13	NORMAL
BALODA BAZAR	420.1	377.7	11	NORMAL
BALRAMPUR	102	369	-72	LARGE DEFICIENT
BASTAR	367.4	424.5	-13	NORMAL
BEMETARA	609.8	362.6	68	LARGE EXCESS
BIJAPUR	813.4	413.6	97	LARGE EXCESS
BILASPUR	323.9	371.2	-13	NORMAL
DANTEWADA	442.6	392.7	13	NORMAL
DHAMTARI	436.7	351.7	24	EXCESS
DURG	551.4	362.3	52	EXCESS
GARIABAND	282.9	367	-23	DEFICIENT
JANJGIR	275.8	391.1	-29	DEFICIENT
JASHPUR	346.3	480.1	-28	DEFICIENT
KABIRDHAM	306.9	300.9	2	NORMAL
KANKER	346	374.2	-8	NORMAL
KONDAGAON	331.6	385.9	-14	NORMAL
KORBA	338.1	469	-28	DEFICIENT
KORIYA	292.3	382.5	-24	DEFICIENT
MAHASAMUND	352.3	346.7	2	NORMAL
MUNGELI	446.7	371.2	20	EXCESS
NARAYANPUR	586.1	385.8	52	EXCESS
RAIGARH	322.7	392.9	-18	NORMAL
RAIPUR	427.1	383.7	11	NORMAL
RAJNANDGAON	348.4	342.3	2	NORMAL
SUKMA	700.6	386.3	81	LARGE EXCESS
SURAJPUR	389.4	398.3	-2	NORMAL
SURGUJA	357.4	467.7	-24	DEFICIENT
SUBDIVISION RAINFALL	398	389.2	2	NORMAL

Past Weather summary for the period: 13.07.2018 TO 17.07.2018

Chief Amount of Rainfall (cm):

13.07.2018	Gharghoda 15, Bemetara 13 Antagarh 9, Makadi 8, Simga 7, Mungeli, Chindgarh 6, Raigarh, Kondagaon, Saja, Bachel 5, Basna, Surajpur, Kasabel 4, Jashpurnagar, Ambagarh Chowki, Bhanupratappur, Konta, Baikunthpur, Marvahi, Malkharoda, Tamnar, Mohla, Lakhanpur, Udaypur, Kunkuri, Pharasgaon 3, Pendra Road 2, Bilaspur, Bijapur, Bhopalpatnam, Jagdalpur 2, 1 at many places
14.07.2018	Simga 16, Pamgath 15, Jaijaipur 12, Champa 10, Arang 9, Sarangarh, Masturi, Takhatpur 8, Pathariya, Kunkuri, Baderajpur 7, Bhanupratappur, Pali, Kanker, Mahasamund 6, Saraipali, Mungeli, Korba, Bemetara 5, Janjgir, Baloda Bazar, 4, Bhopalpatnam, Pallari/palari, Sakti, Pendra Road, Surajpur, Raipur, Bijapur, Bilaspur, Manendragarh, Raigarh, Gandai 3, 2 and 1 cm at many places.
15.07.2018	Durg, Bhairumgarh 7, Konta, mainpur 6, Baghbhara, Khariragarh 5, Saraipali, Chindgarh, Orcha 4, Dongargarh, Pratappur, Lakhanpur 3, Baikunthpur, Pathalgaon, Sakti, Champa 2, Mana-raipur-ap, Bijapur, Raipur, Surajpur, Deobhog, Ambikapur 1 each.
16.07.2018	Durgkondal 15, Baderajpur, chhurra, Pallari/palari 11, Sukma, Bastar 10, Arang, Bakawand 9, Deobhog, Bhairumgarh, Pamgarh, Bilha, Pharasgaon, Chindgarh, Mainpur, Khairagarh 8, Pithora, Kurud, Patan, Rajim, Konta, Raipur, Gariabund, Berla 7, Baloda Bazar, Durg, Bijapur, Pussor 6, Chhuriya, Raigarh, Rajnandgaon, Darbha, Bachel, Gidam, Bhopalpatnam, Mana-raipur-ap, Dantewara 5, Pathariya, Ambagarh Chowki, Narharpur, Orcha, Kanker, Narayanpur, Nagari 4, Jagdalpur, Balod, Mahasamund, Gandai, Kondagaon Pali, Champa, Bemetara 3, 2 and 1 cm at many places.
17.07.2018	Mohla 18, Ambagarh Chowki 15, Balod 15, Gurur 12, Pondiuproda, Mahasamund 11, Dongargaon, Pathariya, 10, Magarlod Korba, Arang 9, Dhamtari 8, Pali, Narhapur, Baghbhara, Bemetara 7, Dondilohara, Manpur, Takhatpur 6, Dharamjaygarh, Sitapur, Jashpurnagar, Bhatapara, Rajim 5, Mungeli, Bhanupratappur, Duldula, Manora, Pendra Road, Gariabund, Pathalgaon, Dongargarh, Gunderdehi, 4, Katghora, Simga, Sukma, Konta, Mana-raipur-ap, Bilaspur, Ambikapur, Janjgir, Raigarh 3, 2 and 1 cm at many places.

S.NO	STATION	RAINFALL(mm)				
		13.07.2018	14.07.2018	15.07.2018	16.07.2018	17.07.2018
1	Raipur	0.0	32.8	12.8	67.6	18.7
2	Mana AP	0.6	22.7	14.3	46.4	29.0
3	Bilaspur	19.4	28.3	0.0	20.2	28.6
4	Pendra-road	21.4	34.5	9.9	10.2	40.1
5	Ambikapur	4.2	10.0	10.4	12.2	26.6
6	Jagdalpur	15.8	1.5	5.4	35.2	7.9
7	Durg	2.4	10.6	67.6	61.8	2.6
8	Rajnandgaon	1.0	1.2	1.0	50.2	9.4

Temperature:

- Range

	Temperature (° C)	Departure (° C)
Maximum temperature	26 to 33	-05 to +00
Minimum temperature	22 to 26	-01 to +03

- Temperature

S.No	Station	13.07.2018		14.07.2018		15.07.2018		16.07.2018	
		Max (° C)	Min (° C)	Max (° C)	Min (° C)	Max(° C)	Min (° C)	Max(° C)	Min (° C)
1	Raipur	29.5	25.5	29.8	25.7	29.2	25.6	27.1	25.5
2	Mana AP	29.5	25.3	30.3	25.4	28.9	25.6	26.8	25.1
3	Bilaspur	30.8	25.9	31.0	25.2	33.0	26.6	30.4	25.0
4	Pendra-road	30.7	22.6	30.1	22.3	32.6	22.7	29.1	23.4
5	Ambikapur	27.9	25.0	29.2	23.9	31.0	24.7	30.9	24.2
6	Jagdapur	25.7	22.0	25.1	22.5	24.4	22.6	26.8	22.0
7	Durg	31.6	24.2	30.6	23.6	29.6	24.4	28.2	23.6
8	Rajnandgaon	29.9	24.9	28.0	23.8	27.2	25.6	26.8	25.0

Relative humidity: RH was in the range of 71% to100%.

Cloud amount: 05-08 Octa.

Wind Speed: Ranged between 00-25 kmph in the state during the week.

Agroclimatic Zone wise Weather forecast for Chhattisgarh

छत्तीसगढ़ का उत्तरीय पहाड़ी भाग

Weather forecast for Northern Hills Zone

	Surguja					Balrampur				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	29	5	23	25	20	20	7	10	20	25
Max. Temp. (°C)	30	30	30	30	30	30	30	30	30	30
Min. Temp. (°C)	24	24	24	25	25	24	24	24	25	25
Cloud Cover (Octa)	7	6	7	7	7	7	6	7	7	7
Maximum humidity(%)	94	94	94	96	96	91	87	90	92	92
Minimum humidity(%)	75	75	75	70	71	70	70	70	75	75
Wind Speed (kmph)	5	4	5	7	4	6	5	6	7	6
Wind Direction	SE	SE	W	W	SW	S	S	SW	W	S
	Surajpur					Jashpur				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	33	0	15	25	30	38	0	15	30	20
Max. Temp. (°C)	30	30	30	30	30	27	27	27	27	27
Min. Temp. (°C)	24	24	24	25	25	23	23	23	24	24
Cloud Cover (Octa)	7	6	7	7	7	7	7	7	7	7
Maximum humidity(%)	93	92	94	94	95	93	94	93	92	94
Minimum humidity(%)	75	75	75	75	75	70	70	70	75	75
Wind Speed (kmph)	6	5	6	9	5	6	5	4	7	5
Wind Direction	S	S	W	W	S	S	S	W	W	W
	Koriya									
	18July	19July	20July	21July	22July					
Rainfall (mm)	33	4	10	25	30					
Max. Temp. (°C)	31	31	31	31	31					
Min. Temp. (°C)	24	25	25	25	25					
Cloud Cover (Octa)	7	6	7	7	7					
Maximum humidity(%)	94	93	94	95	97					
Minimum humidity(%)	75	70	75	73	75					
Wind Speed (kmph)	8	4	11	14	9					
Wind Direction	SE	S	W	W	S					

छत्तीसगढ़ का मैदानी भाग

Weather forecast for Chhattisgarh Plain Zone

	Bilaspur					Mungeli				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	40	6	20	30	30	24	9	15	30	30
Max. Temp. (°C)	33	29	29	30	30	33	29	29	30	30
Min. Temp. (°C)	24	25	24	26	26	24	25	24	26	26
Cloud Cover (Octa)	8	7	7	7	7	8	6	7	7	7
Maximum humidity (%)	95	91	91	93	97	92	91	91	94	97
Minimum humidity (%)	66	69	69	70	75	66	69	71	70	90
Wind Speed (kmph)	9	9	9	13	12	6	7	7	12	11
Wind Direction	S	SW	W	W	SW	S	SW	W	W	W
	Raigarh					Korba				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	31	3	10	20	10	30	4	20	25	30
Max. Temp (°C)	33	29	29	30	30	33	29	29	30	30
Min. Temp. (°C)	24	25	24	26	26	24	25	25	26	26
Cloud Cover (Octa)	8	7	7	7	7	7	7	7	7	7
Maximum humidity (%)	95	95	95	95	95	93	92	93	95	96
Minimum humidity (%)	70	73	70	75	75	70	68	70	75	77
Wind Speed (kmph)	9	9	8	12	16	5	5	5	6	5
Wind Direction	S	SW	W	W	W	SE	S	W	W	S

	Janjgir					Rajnandgaon				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	29	3	9	20	30	14	7	20	19	20
Max. Temp. (°C)	33	29	29	30	30	27	27	28	28	28
Min. Temp. (°C)	24	24	24	24	24	23	24	24	24	24
Cloud Cover (Octa)	8	7	7	7	7	8	7	6	6	6
Maximum humidity (%)	95	90	90	90	90	94	94	93	91	95
Minimum humidity (%)	70	75	70	75	77	90	90	90	90	87
Wind Speed (kmph)	10	10	9	12	14	7	8	7	8	8
Wind Direction	S	SW	W	W	W	SW	SW	W	W	W
	Durg					Balod				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	10	6	31	30	30	3	3	19	9	21
Max. Temp. (°C)	28	28	28	29	29	28	28	28	29	29
Min. Temp. (°C)	23	23	23	24	24	23	23	23	24	24
Cloud Cover (Octa)	5	5	6	6	6	5	5	6	6	6
Maximum humidity (%)	90	89	91	90	93	91	91	93	88	94
Minimum humidity (%)	85	85	85	85	86	85	83	84	80	85
Wind Speed (kmph)	7	8	8	8	10	7	8	7	8	9
Wind Direction	SW	SW	W	W	W	SW	W	W	W	W
	Bemetara					Raipur				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	20	5	21	30	30	16	3	20	30	30
Max. Temp. (°C)	28	28	28	29	29	28	27	28	28	29
Min. Temp. (°C)	23	23	23	24	24	25	25	24	24	24
Cloud Cover (Octa)	5	5	6	6	6	7	7	7	7	7
Maximum humidity (%)	89	88	88	92	94	95	95	95	95	95
Minimum humidity (%)	85	85	85	85	88	80	80	80	80	85
Wind Speed (kmph)	6	7	6	8	8	12	12	12	12	12
Wind Direction	SW	SW	W	W	W	SW	SW	W	W	W

	Mahasamund					Kabirdham				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	24	0	20	13	18	34	17	25	30	30
Max. Temp. (°C)	28	27	28	28	29	31	30	31	31	32
Min. Temp. (°C)	25	25	24	24	24	25	25	24	24	24
Cloud Cover (Octa)	7	7	7	7	7	7	7	7	7	7
Maximum humidity (%)	95	95	95	95	95	93	91	92	94	96
Minimum humidity (%)	80	76	72	68	78	80	80	80	80	80
Wind Speed (kmph)	15	16	12	12	11	6	9	12	12	10
Wind Direction	SW	W	W	W	W	SW	SW	W	W	W

	Balodabazar					Gariyaband				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	16	3	18	30	30	7	4	21	13	10
Max. Temp (°C)	28	27	28	28	29	28	27	28	28	29
Min. Temp. (°C)	25	25	24	24	24	25	25	24	24	24
Cloud Cover (Octa)	7	7	7	7	7	7	7	7	7	7
Maximum humidity (%)	95	95	95	95	95	95	92	95	95	95
Minimum humidity (%)	80	75	75	80	86	80	80	80	80	80
Wind Speed (kmph)	11	10	10	11	12	14	13	15	17	12
Wind Direction	SW	SW	W	W	W	SW	W	W	W	W
	Dhamrati					Kanker				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	4	0	31	13	17	16	14	25	30	26
Max. Temp. (°C)	28	27	28	28	29	28	27	28	28	29
Min. Temp. (°C)	25	25	24	24	24	25	25	24	24	24
Cloud Cover (Octa)	7	7	7	7	7	7	7	7	7	7
Maximum humidity (%)	95	92	94	90	91	96	97	95	92	94
Minimum humidity (%)	80	81	80	80	80	80	80	81	80	74
Wind Speed (kmph)	15	13	13	12	12	15	12	13	15	16
Wind Direction	SW	W	W	W	W	SW	SW	W	W	W

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

	Baster					Dantewada				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	4	16	20	15	3	15	20	20	15	19
Max. Temp (°C)	25	24	23	23	24	25	24	23	23	24
Min. Temp. (°C)	22	22	21	21	21	22	22	21	21	21
Cloud Cover (Octa)	7	8	7	8	8	7	7	7	8	8
Maximum humidity (%)	96	97	95	92	88	96	94	95	96	91
Minimum humidity (%)	95	95	90	90	85	95	90	90	88	85
Wind Speed (kmph)	8	6	6	8	8	8	7	9	8	9
Wind Direction	SW	W	W	W	W	SW	W	W	W	W
	Bijapur					Narayanpur				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	9	10	20	10	17	11	15	20	10	11
Max. Temp. (°C)	25	24	23	23	24	25	24	23	23	24
Min. Temp. (°C)	22	22	21	21	21	22	22	21	21	21
Cloud Cover (Octa)	7	7	7	8	8	8	7	7	8	8
Maximum humidity (%)	97	95	95	95	94	97	98	96	95	97
Minimum humidity (%)	95	90	90	90	85	95	92	95	90	85
Wind Speed (kmph)	10	8	11	8	9	7	7	7	7	7
Wind Direction	SW	W	W	W	W	SW	W	W	W	W
	Kondagaon					Sukma				
	18July	19July	20July	21July	22July	18July	19July	20July	21July	22July
Rainfall (mm)	4	7	10	11	3	15	20	20	25	27
Max. Temp (°C)	25	24	23	23	24	25	24	23	23	24
Min. Temp. (°C)	22	22	21	21	21	22	22	21	21	21
Cloud Cover (Octa)	7	8	7	8	8	7	7	8	8	8
Maximum humidity (%)	96	97	95	95	95	96	94	95	96	91
Minimum humidity (%)	90	90	90	90	90	95	90	90	95	90
Wind Speed (kmph)	8	7	7	9	10	7	6	9	8	7
Wind Direction	SW	W	W	W	W	SW	W	W	W	W

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)

- **Rice:** Due to the light to medium rainfall received during past week soil has become saturated, it is therefore advised for transplanting of rice crop in main field.
- **Rice:** Possibility of light to medium rains forecast farmers are advised to store the water in the rice fields and complete the transplanting and Biasi operation in the crop at 25-30 days seedling stage as early as possible.
- **Line sowing Rice:** Farmers are advised to go for line sowing in rice crop. In case farmers have sown rice crop by *broadcast biasi* method and wish to go by this method, seed rate should be kept somewhat less @ 60-80 Kg./ha. and weeds should be managed by post-emergence herbicide.
- **Seed treatment:** During monsoon period the chances of soil and seed borne diseases may increase due to higher soil moisture and temperature. Hence, farmers are advised for seed treatment with Thiram or Bavistin @ 3 g per kg of seed to protect the crop at early stage.
- **Weed management:** Farmers are advised to use pre-emergence herbicides within 3-7 days of sowing and post-emergence herbicides should be applied 25-35 days after sowing. This will ensure that weeds are controlled to a large extent and crops are able to utilize the soil moisture.
- **Vegetables:** Farmers are advised to sow brinjal, early tomato, chilli and onion in the nursery in the upland areas.
- **Horticulture:** It is proper time for plant propagation like lairing, budding, grafting etc.
- **Horticulture:** Present weather conditions are favourable for the planting of horticultural crops viz, papaya, mango, guava etc. Farmers are advised for the planting the same at the earliest.
- **Cattle:** Farmers are advised to provide vaccination to their cattle to protect from contagious diseases under current weather condition.
- **Poultry:** During monsoon season normally low light duration due to cloudy weather condition hence farmers are advised increase light duration in poultry farms.
- **Animal:** Create smoke in cattle house to prevent them from mosquitoes.

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. This week there is wide spread rainfall across all the districts of Chhattisgarh plain region, hence the rice crop has sufficient moisture. However, in pulse and oilseed crops there may be water logging condition. Looking into the future rainfall forecast it is advised to make drainage channels in the pulses and oilseed field.
2. Farmers are advised for transplanting of rice crop wherever irrigation facilities are available.
3. Farmers are advised for storage of rain water in their fields so that biasi could be done after completion of 25-30 days age of rice seeding.
4. Preparation and repairing of bunds should be done for soil and water conservation.
5. SRI method nursery can be prepared in secure place use seed rate @ 5-8 kg per hectare. In this method distance between line to line and plant to plant 20X25 or 25X25 cm and keep one plant in one place.
6. Apply nitrogenous fertilizer 7 days after transplanting.
7. Remove excess water from the field.
8. For seed treatment of rice seed, use Azotobacter @ 5 gram + PSB @ 10 gram / Kg. followed by Carbendazim (Bavistin) @ 1.5 gram per Kg. of seed and four days before transplanting in 3-4 weeks old nursery apply Carbofuran@ 20 kg per acre.
9. Pigeon pea and other pulses crops should be sown with proper drainage. Seeds must be treated with Rhizobium culture @ 5 gram + PSB@ 10 g/ Kg. before sowing.
10. Drainout excess water from Soybean field.
11. In the new crop of sugarcane need based intercultural operations and earthing should be done. Proper drainage system in the sugarcane fields should be maintained to minimize outbreak of pyrilla pests.

Fruits & Vegetables

1. Looking to the present weather condition farmers are advised for planting of vegetable crops.
2. Weed management should be done in Brinjal, Tomato, Lady finger and cauliflower.
3. Drainage should be done in ginger and turmeric crops.
4. Need based intercultural operations should be done in tomato, brinjal, chilli, okra and other vegetable crops.

Animal husbandry:

1. Farmers are advised to increase light duration in poultry farms.
2. In case of gestic problem, cattle and buffaloes should be given Blotocil/ Blotinofen @100 ml.
3. For control of flies, cattle sheds flours should be cleared with phenyl water.
4. Dairy farmers are advised to give Albendazole fenbendazole to their animals @ 3.0 grams for big animals @ 1.5 gram for small animals in the morning hours in empty stomach.

छत्तीसगढ़ के बस्तर का पठारी भाग

Bastar Plateau Zone

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

Seed Treatment

- 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 - Vitavex/ 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 fluorescens may also be used for treatments.

Kharif Crops

- **For weed control in maize crop apply atrazine @ 600-800ml per hec. with in 2-3 days after sowing for latter stage 2,4-D 500ml/hect. after 25 days of sowing.**
- **At nursery stage of Rice crop for the control of insects like steam borer gall midge and white & brown hopper apply corbofuron 3 G@33 kg or phorat 10G @ 10 kg per /hectare and for cut worm clorpyrifos 20% 2500 mm or daiclorovash 80%600 mm.**
- **Transplanting should be done always in line. It give higher yield as well as helped in other agronomical activities.**

Post emergence herbicide for direct seeded rice

S.No	Technical name of herbicide	Active ingredient per acre (gm)	Total commercial quantity required (ml/gm)	Time of application (Days after sowing)
1.	Bispyriback sodium	10.0	100	20-25
2.	Fenexaprop p ethayl	24.0	250.0	20-25
3.	Ethoaxysulfuron	6.0	50.0	15-20
4.	Choloromeuron + Metsulfuron	1.60	8.0	15-20

- Fertilizer management in rice: Try to supplement with well decompose 5- 10 ton cow dung manure. If sufficient amount of compost is available than reduce half quantity of chemical fertilizer. Apply full dose of Phosphorus and potash as basal and nitrogen in 2-3 spilt .The recommended dose of fertilizer is as follow :

S.NO	Duration of rice crop	Nitrogen (kg/h)	Phosphorus (kg/h)	Potash (kg/h)
1	80-100	40-60	20-40	10-15
2	101-125	60-80	30-40	15-20
3	126-140	80-100	40-50	20-25
4	141			
	➤Dwarf variety	80-100	40-50	20-25
	➤Tall variety	40-60	20-30	10-15

Vegetable

- Important varieties of tomato - Pusa early dwarf, Sweet 72, Pusa rubi, Pusa Gurab, Mangala, Naveen,Laxmi 5005 & NS 815.
- Important varieties of brinjal :Punjab Shadabahr, K S 331, P H 5, P H 6 ,KS 224 ,A RB H - 543.

	<ul style="list-style-type: none"> ➤ Vegetable nursery should be sown in 15 cm high raised beds. In case nursery is protected by white agronet (mosquito net), viral diseases infection will not be there. Sowing should be done after seed treatment with fungicides against stem rot diseases.
<p><u>Animal Husbandry</u></p>	<ul style="list-style-type: none"> ➤ Prevent the animals to drink the stagnant water and also and make sure that hygiene conditions. ➤ 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.