



Composite Agromet Advisory Service Bulletin for the State of Jharkhand

BULLETIN NO. 75

Friday, 17th September, 2010

For the period: 18th to 22nd September 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

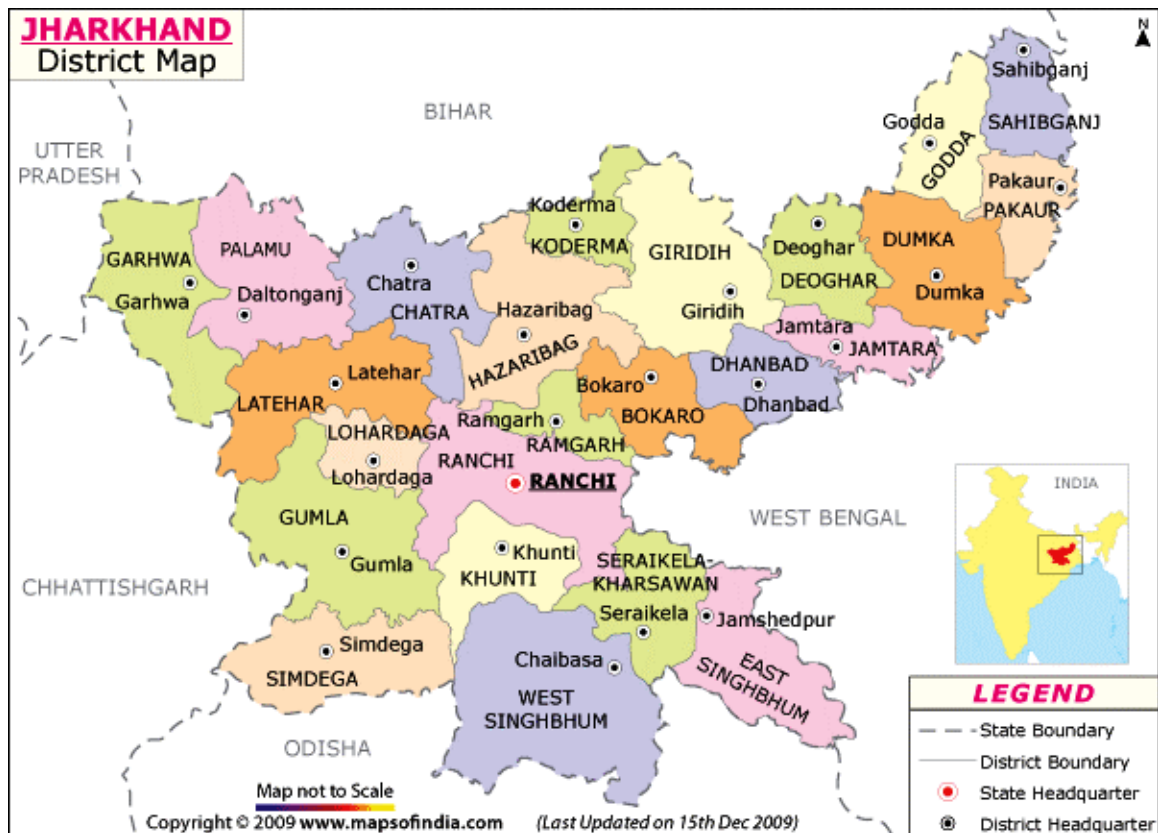
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

Meteorological sub-division of the state

As per IMD classification Jharkhand State consisting of twenty four districts is considered as one meteorological subdivision.

Agro Climatic Zones for the State of Jharkhand

S.No.	Agro climatic Zone	Districts	Agromet Field Unit(AMFU)
1	Central & Western Plateau Zone	Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega	Ranchi
2	Central and North Eastern Plateau Zone	Dumka, Sahebganj, Godda, Pakur, Deoghar, Giridih, Dhanbad, Jamtara, Koderma	Dumka
3	South Eastern Plateau Zone	West Singhbhum, East Singhbhum, Saraikela	Darisai



DISTRICT LEVEL WEATHER FORECAST

ISSUED ON: 17.09.2010

VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 14th September, 2010:-

Heavy rainfall occurred at isolated places during 15th to 17th. Rainfall occurred at many places during 15th to 17th September, 2010 in Jharkhand.

Chief amounts of rainfall reported (in cm):

15th: Daltonganj – 9, Hiranpur & Borio -7 each, Kanke – 6, Ranchi & Sahebganj – 5 each, Pupunki, Messenjore, Pakur, Bishrampur, Chanho & Pakuria – 4 each, Gumla, Kolebiera, Manatu, Japla, Ramgarh, Gola, Topchanchi, Karo & Bengabad – 3 each.

16th: Rajmahal – 26, Udhwa – 14, Dhanbad & Hiranpur -10, Taljhari, sahebganj & Tenughat – 9 each, Gobindapur & Jharia – 8 each, Littipara -7, Pupunki & Chakradharpur – 6 each, Bengabad, Giridih, Palkot, Raidih & Nirsa – 4 each, Barharwa, Patana, Dumari, Gandey, Jamui, Panchet, Jarmundi, Jamshedpur, Gumla, Lohardaga, Pakur, Kurdege, Simdega, Ratu, Tamar, tundi & Thakurganjhi – 3 each.

17th: Kanke – 9, Hiranpur – 7, Harharganj & Raidih – 6 each, Pakur & Japla – 5 each, Littipara & Maheshpur -4 each, jamshedpur, Balumath, Daltonganj, Namkum, Thakurganjhi, Amarpara & Paljori – 3 each.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 14th to 17th September, 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj	
Parameters				
Total rainfall (mm)	64.7	53.3	132.8	
Max Temp range (° c)	28-30	31-33	30-32	
Min Temp range (° c)	22-23	24-25	24-25	
Cloud Coverage (octa)	8	7	8	
Relative Humidity (%)	54-98	64-98	67-100	
Wind Direction/ Speed (kmph)	Morning	South Easterly	Easterly	Calm
		05	07	00
	Evening	South Easterly	Easterly	Calm
		06	09	00

Current synoptic condition:

South West Monsoon remained active over Jharkhand on 15th & 16th. A cyclonic circulation lies over Bihar & adjoining East Uttar Pradesh extending up to 0.9 km above sea level. A low pressure area has formed over west central Bay & adjoining northwest Bay off south Orissa, North Andaman Coast. The axis of Monsoon trough on sea level charts passes through Bikaner, Jaipur, Gwalior, Allahabad, Daltonganj, Jharsugda, Gopalpur & thence to east central Bay across centre of low pressure area.

Forecast valid up to 0830 hours IST of 20th September, 2010:-

Rain or Thundershowers would occur at many places over Jharkhand.

Warning: Heavy rain may occur at isolated places over Jharkhand during next 48 hrs.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 20th September, 2010:-

Little change.

A.WEATHER FORECAST

AMFU :RANCHI (Districts: Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega)

DISTRICTS		FORECAST				
		DAY-1 18-09-10	DAY-2 19-09-10	DAY-3 20-09-10	DAY-4 21-09-10	DAY-5 22-09-10
BOKARO	Rainfall (mm)	9	10	6	4	7
	Max Temperature (deg C)	29	27	27	26	30
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	7	6	7	6	7
	Max Relative Humidity (%)	99	100	99	99	100
	Min Relative Humidity (%)	94	96	85	75	83
	Wind speed (kmph)	17	18	15	6	2
	Wind direction (deg)	90	80	120	130	140
HAZARIBAGH	Rainfall (mm)	9	6	6	4	6
	Max Temperature (deg C)	29	27	28	28	29
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	7	7	7	6
	Max Relative Humidity (%)	99	98	97	97	97
	Min Relative Humidity (%)	89	91	81	75	86
	Wind speed (kmph)	17	21	17	9	6
	Wind direction (deg)	100	100	130	140	150
RAMGARH	Rainfall (mm)	9	6	6	4	6
	Max Temperature (deg C)	29	27	28	28	29
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	7	7	7	6
	Max Relative Humidity (%)	99	98	97	97	97
	Min Relative Humidity (%)	89	91	81	75	86
	Wind speed (kmph)	17	21	17	9	6
	Wind direction (deg)	100	100	130	140	150
CHATRA	Rainfall (mm)	10	5	6	4	5
	Max Temperature (deg C)	30	29	30	29	29
	Min Temperature (deg C)	24	24	23	23	24
	Total cloud cover (octa)	6	7	7	6	7
	Max Relative Humidity (%)	95	93	91	90	93
	Min Relative Humidity (%)	83	81	72	77	84
	Wind speed (kmph)	11	17	16	8	5
	Wind direction (deg)	90	100	130	150	170
RANCHI	Rainfall (mm)	11	11	9	4	6
	Max Temperature (deg C)	28	28	29	29	29
	Min Temperature (deg C)	2	22	23	22	23
	Total cloud cover (octa)	6	7	7	6	7
	Max Relative Humidity (%)	100	99	99	98	98
	Min Relative Humidity (%)	95	95	83	80	85
	Wind speed (kmph)	15	17	14	7	3
	Wind direction (deg)	80	90	120	140	230
KHUNTI	Rainfall (mm)	11	11	9	4	6
	Max Temperature (deg C)	28	28	29	29	29
	Min Temperature (deg C)	2	22	23	22	23
	Total cloud cover (octa)	6	7	7	6	7
	Max Relative Humidity (%)	100	99	99	98	98
	Min Relative Humidity (%)	95	95	83	80	85
	Wind speed (kmph)	15	17	14	7	3
	Wind direction (deg)	80	90	120	140	230

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 18-09-10	DAY-2 19-09-10	DAY-3 20-09-10	DAY-4 21-09-10	DAY-5 22-09-10
GUMLA	Rainfall (mm)	12	13	12	5	4
	Max Temperature (deg C)	28	27	27	26	29
	Min Temperature (deg C)	23	23	22	22	22
	Total cloud cover (octa)	7	6	7	6	6
	Max Relative Humidity (%)	98	98	99	95	99
	Min Relative Humidity (%)	97	95	81	83	80
	Wind speed (kmph)	8	14	11	5	3
	Wind direction (deg)	80	80	120	120	180
SIMDEGA	Rainfall (mm)	12	13	12	5	4
	Max Temperature (deg C)	28	27	27	26	29
	Min Temperature (deg C)	23	23	22	22	22
	Total cloud cover (octa)	7	6	7	6	6
	Max Relative Humidity (%)	98	98	99	95	99
	Min Relative Humidity (%)	97	95	81	83	80
	Wind speed (kmph)	8	14	11	5	3
	Wind direction (deg)	80	80	120	120	180
LOHARDAGA	Rainfall (mm)	9	8	9	5	5
	Max Temperature (deg C)	29	28	28	28	28
	Min Temperature (deg C)	22	22	21	21	21
	Total cloud cover (octa)	7	7	6	6	6
	Max Relative Humidity (%)	100	99	100	96	100
	Min Relative Humidity (%)	96	93	79	81	87
	Wind speed (kmph)	11	16	16	9	4
	Wind direction (deg)	90	100	140	160	210
PALAMAU	Rainfall (mm)	12	7	8	6	8
	Max Temperature (deg C)	32	32	31	32	32
	Min Temperature (deg C)	24	24	24	23	24
	Total cloud cover (octa)	7	6	5	6	6
	Max Relative Humidity (%)	95	93	87	88	94
	Min Relative Humidity (%)	87	74	68	79	87
	Wind speed (kmph)	9	11	11	4	3
	Wind direction (deg)	80	90	120	150	190
GARHWA	Rainfall (mm)	14	15	11	8	8
	Max Temperature (deg C)	30	30	31	30	30
	Min Temperature (deg C)	24	24	23	22	23
	Total cloud cover (octa)	7	6	7	6	7
	Max Relative Humidity (%)	98	96	91	98	96
	Min Relative Humidity (%)	93	78	70	79	90
	Wind speed (kmph)	11	13	10	6	2
	Wind direction (deg)	80	80	100	120	160
LATEHAR	Rainfall (mm)	14	15	11	8	8
	Max Temperature (deg C)	30	30	31	30	30
	Min Temperature (deg C)	24	24	23	22	23
	Total cloud cover (octa)	7	6	7	6	7
	Max Relative Humidity (%)	98	96	91	98	96
	Min Relative Humidity (%)	93	78	70	79	90
	Wind speed (kmph)	11	13	10	6	2
	Wind direction (deg)	80	80	100	120	160

AMFU :DUMKA (Districts: Dumka, Sahebganj, Godda, Pakur, Deoghar, Giridih, Dhanbad, Jamtara, Koderma)

DISTRICTS		FORECAST				
		DAY-1 18-09-10	DAY-2 19-09-10	DAY-3 20-09-10	DAY-4 21-09-10	DAY-5 22-09-10
SAHEBGANJ	Rainfall (mm)	11	7	7	7	6
	Max Temperature (deg C)	32	32	31	31	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	7	6	7	6
	Max Relative Humidity (%)	98	99	100	100	100
	Min Relative Humidity (%)	93	94	93	88	88
	Wind speed (kmph)	15	17	13	8	6
	Wind direction (deg)	100	110	110	130	70
GODDA	Rainfall (mm)	10	8	8	7	6
	Max Temperature (deg C)	30	30	30	30	28
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	97	97	99	99	99
	Min Relative Humidity (%)	89	93	93	85	87
	Wind speed (kmph)	18	19	15	7	9
	Wind direction (deg)	100	100	110	130	80
PAKUR	Rainfall (mm)	11	8	7	7	5
	Max Temperature (deg C)	28	29	29	29	27
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	7	6
	Max Relative Humidity (%)	98	99	99	99	100
	Min Relative Humidity (%)	91	95	93	89	92
	Wind speed (kmph)	18	19	16	8	8
	Wind direction (deg)	100	110	110	140	50
DUMKA	Rainfall (mm)	10	10	7	6	4
	Max Temperature (deg C)	29	28	28	28	29
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	7	6	7	6
	Max Relative Humidity (%)	99	98	99	100	100
	Min Relative Humidity (%)	92	94	93	86	88
	Wind speed (kmph)	17	21	17	7	7
	Wind direction (deg)	100	110	110	130	70
DEOGHAR	Rainfall (mm)	10	8	6	5	4
	Max Temperature (deg C)	29	28	27	27	29
	Min Temperature (deg C)	24	23	23	23	23
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	98	99	99	99	100
	Min Relative Humidity (%)	91	93	92	86	85
	Wind speed (kmph)	17	22	18	8	7
	Wind direction (deg)	100	100	120	140	100
GIRIDIH	Rainfall (mm)	11	8	7	4	5
	Max Temperature (deg C)	30	28	27	27	30
	Min Temperature (deg C)	24	23	23	23	23
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	99	99	99	100
	Min Relative Humidity (%)	92	95	89	81	85
	Wind speed (kmph)	16	22	18	8	8
	Wind direction (deg)	100	100	120	140	120

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 18-09-10	DAY-2 19-09-10	DAY-3 20-09-10	DAY-4 21-09-10	DAY-5 22-09-10
DHANBAD	Rainfall (mm)	10	10	7	5	5
	Max Temperature (deg C)	29	27	28	26	30
	Min Temperature (deg C)	24	23	23	23	24
	Total cloud cover (octa)	6	7	6	7	6
	Max Relative Humidity (%)	98	99	99	100	100
	Min Relative Humidity (%)	92	98	97	80	82
	Wind speed (kmph)	16	26	16	6	5
	Wind direction (deg)	100	100	100	140	80
JAMTARA	Rainfall (mm)	10	10	7	5	5
	Max Temperature (deg C)	29	27	28	26	30
	Min Temperature (deg C)	24	23	23	23	24
	Total cloud cover (octa)	6	7	6	7	6
	Max Relative Humidity (%)	98	99	99	100	100
	Min Relative Humidity (%)	92	98	97	80	82
	Wind speed (kmph)	16	26	16	6	5
	Wind direction (deg)	100	100	100	140	80
KODERMA	Rainfall (mm)	11	7	5	4	4
	Max Temperature (deg C)	29	28	27	27	30
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	6	7	7	6
	Max Relative Humidity (%)	98	98	98	98	99
	Min Relative Humidity (%)	91	91	82	79	86
	Wind speed (kmph)	18	20	19	10	9
	Wind direction (deg)	110	100	120	150	150

AMFU :DARISAI (Districts: West Singhbhum, East singhbhum, Saraikela

DISTRICTS		FORECAST				
		DAY-1 18-09-10	DAY-2 19-09-10	DAY-3 20-09-10	DAY-4 21-09-10	DAY-5 22-09-10
WEST SINGBHUM	Rainfall (mm)	13	14	9	5	3
	Max Temperature (deg C)	31	31	30	30	30
	Min Temperature (deg C)	24	24	23	23	23
	Total cloud cover (octa)	6	7	6	7	5
	Max Relative Humidity (%)	98	97	98	97	98
	Min Relative Humidity (%)	92	93	80	78	82
	Wind speed (kmph)	10	11	6	4	4
	Wind direction (deg)	80	90	110	150	240
EAST SINGBHUM	Rainfall (mm)	9	11	6	5	4
	Max Temperature (deg C)	32	33	32	32	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	6	7	6	6
	Max Relative Humidity (%)	97	98	100	99	99
	Min Relative Humidity (%)	93	95	87	77	86
	Wind speed (kmph)	12	18	12	3	2
	Wind direction (deg)	90	120	110	120	120
SARAIKELA	Rainfall (mm)	9	11	6	5	4
	Max Temperature (deg C)	32	33	32	32	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	6	7	6	6
	Max Relative Humidity (%)	97	98	100	99	99
	Min Relative Humidity (%)	93	95	87	77	86
	Wind speed (kmph)	12	18	12	3	2
	Wind direction (deg)	90	120	110	120	120

B. AGRO-ADVISORIES:-

AMFU : Ranchi, Dumka & Darisai (i.e for all Districts of Jharkhand)

Contingency plan for Jharkhnad state are

1. Sowing of Kulthi (Seed @ 20 kg/Acre. R x R 30 cm.) Toria (Seed @ 2 kg/acre. R x R 30 cm) & Nizer can also be taken. Varieties of Kulthi: Madhu & Birsa Kulthi – 1, Varieties of Toria: T – 9, PT – 303 seed treatment with carbondigene (Bavistin) 2 gm/kg of seed), Varieties of Nizer: Birsa Nizer – 1 (Seed @ 8 kg/Acre (R x R 30 cm. plant to plant 10-15 cm). Maize:- Varieties: HQPM-1, seed @ 8 kg/acre.
2. In vegetables early crop of Lady finger, Lobia & French Bean are recommended. Preparation of Nursery for Tomato, Cabbage & Cauliflower can also be undertaken.

Upland: Interculturing must be done in Maize, Groundnut, Arahar & Marua. If there is attack of termite, spraying of chloropyriphos 2.5 ml/litre of water should be done.

Paddy: Spraying with Gavestin 1 gm/litre of water against blast of paddy, if some insects seen in the seedling chloropyriphos 1 ml/litre of water should be spraying. If there is attack of swarming caterpillars spraying with Nuvan or Nureldie 3 ml/litre of water should be applied.

Pulses: Urad- Varieties- T-9, Pant, PU-19, Birsa Urad-1. Seed rate- 30kg/hect

Mung- Varieties- K-851, Pusa Visal. Seed rate- 30kg/hect. Fertilizer dose for Pulses- Urea- 12kg, DAP-112kg, MOP-40kg per hectare. Seed treated with Carbonydazine 50% WP or Mencozeb 75% WP- 2gm/kg of seed. Farmers are advised to continue sowing of Urad.

Vegetable Cauliflower: Varieties are – Pusa Dipawali, Patna Early, Hazipur Agat, Pusa Ketaki, extra early. These varieties should be sown in raised nursery and seed should be treated with Carbondazium 1.5 – 2 gm or Tichograma 5 gm/kg of seed.

Brinjal :

Varieties are: Rajendra Baigan, Rajendra Annapurna, Pant Rituraj, Pant Samrat, Swarn Pratibha & Arka Navanit), Chilli, Tomato can be planted.

Farmers are advised the sowing of Maize, Pulses (Urad, Moong & Kulthi), Oilseed (Nizer & Toria) on vacant land.

Potato: Varieties are: Kufri Chip Sona, Kufri Pokharaj, Kufri Badsah, Kufri Kuber, Kufri Ashok, Kufri Lalima, Kufri Bahar, Altimus Seed @ 8 quintal/acre. Distance R x R 50 cm & plant to plant 20 cm. Fertiliser: Nitrogen – 48 kg, Phosphorus – 40 kg, MOP – 40 kg. Seed should be treated with Diethen M – 45 @ 2.5 gm/litre of water.

Statistics of crop coverage for The state of Jharkhand up to 16.09.2010 (in 000 Hactare) is given below:

Paddy		%	Maize		%	Pulses		%	Oilseed		%
Target	Coverage		Target	Coverage		Target	Coverage		Target	Coverage	
1692.000	693.507	41	280.000	202.537	72	381.000	215.293	57	75.000	27.360	36

(K. Gari)

Deputy Director Agriculture (Farm)
State Agriculture Dept, Ranchi.

(G.K. Mohanty)

Director
Meteorological Centre, Ranchi

Forwarded to : Director Agriculture, Ranchi, Jharkhand /Director AIR/Director D.D, Ranchi.
M.C.RANCHI UOI No.RNC - DAAS/II/ /17.09.2010

Forwarded to DDGM (Agrimet), Pune)
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(G.K. Mohanty)
Director