



Composite Agromet Advisory Service Bulletin for the State of Jharkhand

BULLETIN NO. 73

Thursday, 09th September, 2010

For the period: 10th to 14th September 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

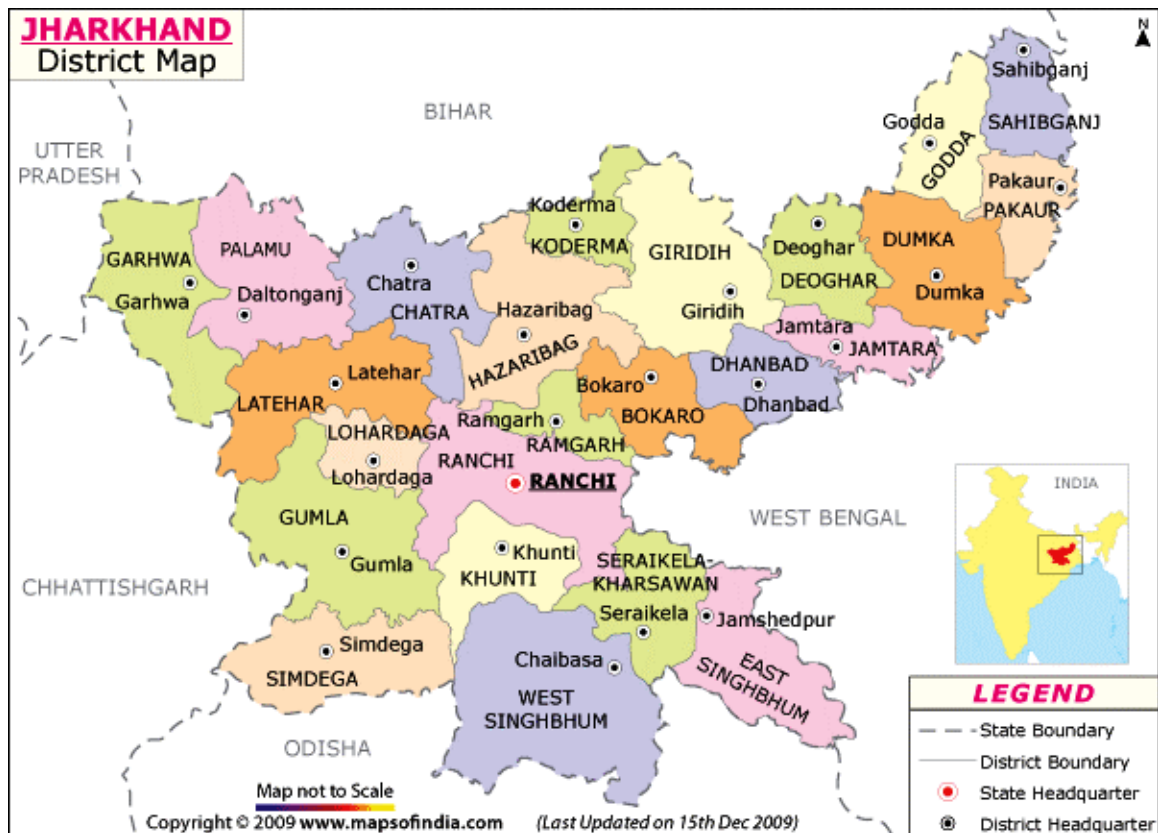
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 09.09.2010

VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 07th September, 2010:-

Rainfall occurred at many places on 08th & 09th September, 2010 in Jharkhand. Chief amounts of rainfall reported (in cm): Bero(Ranchi) & Jharia(Dhanbad) -04 each on 8th September,2010.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 07th to 09th September, 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	005.0	015.7	002.4
Max Temp range (° c)	29	32	34
Min Temp range (° c)	23	25-26	26
Cloud Coverage (octa)	7	7	4
Relative Humidity (%)	66-98	64-97	58-92
Wind Direction/ Speed (kmph)	Morning	Variable	Mainly Easterly
		7	8
	Evening	Mainly Easterly	Easterly
		11	10

Current synoptic condition:

A low pressure area lies over west Madhya Pradesh and adjoining areas with associated cyclonic circulation extending upto Mid Tropospheric level. The axis of Monsoon trough on sea level charts passes through Jaisalmer, Udaipur, centre of low pressure area, Yatmal, Ramagundam, Vizag & thence to southeast Bay across westcentral Bay.

Forecast valid up to 0830 hours IST of 12th September, 2010:-

Rain or Thundershowers may occur at a few places over Jharkhand.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 12th 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 10-09-10	DAY-2 11-09-10	DAY-3 12-09-10	DAY-4 13-09-10	DAY-5 14-09-10
BOKARO	Rainfall (mm)	5	8	7	10	10
	Max Temperature (deg C)	31	31	30	29	28
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	91	92	98	99	100
	Min Relative Humidity (%)	80	80	80	87	85
	Wind speed (kmph)	6	6	3	2	3
	Wind direction (deg)	250	280	290	20	70
HAZARIBAGH	Rainfall (mm)	5	8	10	12	12
	Max Temperature (deg C)	31	31	29	29	28
	Min Temperature (deg C)	24	24	24	23	23
	Total cloud cover (octa)	8	6	8	8	8
	Max Relative Humidity (%)	88	93	97	96	99
	Min Relative Humidity (%)	79	81	77	86	86
	Wind speed (kmph)	7	9	9	3	2
	Wind direction (deg)	240	280	280	310	150
RAMGARH	Rainfall (mm)	5	8	10	12	12
	Max Temperature (deg C)	31	31	29	29	28
	Min Temperature (deg C)	24	24	24	23	23
	Total cloud cover (octa)	8	6	8	8	8
	Max Relative Humidity (%)	88	93	97	96	99
	Min Relative Humidity (%)	79	81	77	86	86
	Wind speed (kmph)	7	9	9	3	2
	Wind direction (deg)	240	280	280	310	150
CHATRA	Rainfall (mm)	5	9	11	12	12
	Max Temperature (deg C)	32	32	29	30	28
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	5	8	8	8
	Max Relative Humidity (%)	88	93	96	96	98
	Min Relative Humidity (%)	72	81	77	85	82
	Wind speed (kmph)	6	10	5	2	3
	Wind direction (deg)	220	260	230	230	130
RANCHI	Rainfall (mm)	4	5	7	10	10
	Max Temperature (deg C)	31	31	30	29	28
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	94	93	97	97	100
	Min Relative Humidity (%)	79	80	82	86	86
	Wind speed (kmph)	9	6	5	4	3
	Wind direction (deg)	250	280	310	240	90
KHUNTI	Rainfall (mm)	4	5	7	10	10
	Max Temperature (deg C)	31	31	30	29	28
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	94	93	97	97	100
	Min Relative Humidity (%)	79	80	82	86	86
	Wind speed (kmph)	9	6	5	4	3
	Wind direction (deg)	250	280	310	240	90

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 10-09-10	DAY-2 11-09-10	DAY-3 12-09-10	DAY-4 13-09-10	DAY-5 14-09-10
GUMLA	Rainfall (mm)	5	4	8	15	14
	Max Temperature (deg C)	31	30	31	28	28
	Min Temperature (deg C)	23	23	23	24	23
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	96	89	97	96	99
	Min Relative Humidity (%)	75	74	84	83	88
	Wind speed (kmph)	8	5	3	3	4
	Wind direction (deg)	250	280	330	180	50
SIMDEGA	Rainfall (mm)	5	4	8	15	14
	Max Temperature (deg C)	31	30	31	28	28
	Min Temperature (deg C)	23	23	23	24	23
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	96	89	97	96	99
	Min Relative Humidity (%)	75	74	84	83	88
	Wind speed (kmph)	8	5	3	3	4
	Wind direction (deg)	250	280	330	180	50
LOHARDAGA	Rainfall (mm)	3	6	9	10	10
	Max Temperature (deg C)	29	29	29	27	26
	Min Temperature (deg C)	22	22	22	22	22
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	94	94	97	97	100
	Min Relative Humidity (%)	76	80	79	82	87
	Wind speed (kmph)	6	5	5	5	2
	Wind direction (deg)	230	300	310	250	110
PALAMAU	Rainfall (mm)	7	7	8	7	7
	Max Temperature (deg C)	32	32	30	31	29
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	8	8	8
	Max Relative Humidity (%)	91	92	96	96	98
	Min Relative Humidity (%)	68	78	77	84	83
	Wind speed (kmph)	4	10	6	2	3
	Wind direction (deg)	220	250	220	210	140
GARHWA	Rainfall (mm)	7	7	6	6	5
	Max Temperature (deg C)	31	32	30	31	29
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	5	3	8	6	8
	Max Relative Humidity (%)	88	91	94	94	99
	Min Relative Humidity (%)	72	75	72	79	87
	Wind speed (kmph)	5	10	5	3	3
	Wind direction (deg)	220	250	230	250	110
LATEHAR	Rainfall (mm)	7	7	6	6	5
	Max Temperature (deg C)	31	32	30	31	29
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	5	3	8	6	8
	Max Relative Humidity (%)	88	91	94	94	99
	Min Relative Humidity (%)	72	75	72	79	87
	Wind speed (kmph)	5	10	5	3	3
	Wind direction (deg)	220	250	230	250	110

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

DISTRICTS		FORECAST				
		DAY-1 10-09-10	DAY-2 11-09-10	DAY-3 12-09-10	DAY-4 13-09-10	DAY-5 14-09-10
SAHEBGANJ	Rainfall (mm)	5	10	10	8	9
	Max Temperature (deg C)	31	30	30	31	29
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	100	100	100	100
	Min Relative Humidity (%)	88	83	85	85	82
	Wind speed (kmph)	4	2	2	4	8
	Wind direction (deg)	150	100	310	120	120
GODDA	Rainfall (mm)	5	10	10	8	6
	Max Temperature (deg C)	33	30	30	31	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	99	98	99	99	99
	Min Relative Humidity (%)	88	81	80	82	82
	Wind speed (kmph)	4	2	2	4	6
	Wind direction (deg)	130	280	250	140	110
PAKUR	Rainfall (mm)	7	7	8	7	5
	Max Temperature (deg C)	31	30	30	31	29
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	97	99	99	99
	Min Relative Humidity (%)	86	81	83	84	83
	Wind speed (kmph)	6	2	2	4	7
	Wind direction (deg)	180	210	250	200	130
DUMKA	Rainfall (mm)	8	10	10	10	10
	Max Temperature (deg C)	31	30	30	31	30
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	96	98	99	100
	Min Relative Humidity (%)	85	81	82	84	83
	Wind speed (kmph)	7	4	2	3	7
	Wind direction (deg)	180	250	300	100	120
DEOGHAR	Rainfall (mm)	7	10	10	8	7
	Max Temperature (deg C)	31	31	29	30	29
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	95	98	99	100
	Min Relative Humidity (%)	86	81	83	83	85
	Wind speed (kmph)	6	6	2	3	5
	Wind direction (deg)	200	280	250	320	120
GIRIDIH	Rainfall (mm)	7	8	10	8	8
	Max Temperature (deg C)	31	31	30	30	29
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	97	95	99	99	100
	Min Relative Humidity (%)	84	81	82	84	85
	Wind speed (kmph)	6	6	3	4	5
	Wind direction (deg)	220	290	230	320	110

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 10-09-10	DAY-2 11-09-10	DAY-3 12-09-10	DAY-4 13-09-10	DAY-5 14-09-10
DHANBAD	Rainfall (mm)	5	8	13	15	10
	Max Temperature (deg C)	31	31	30	29	29
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	96	99	99	100
	Min Relative Humidity (%)	82	80	81	86	85
	Wind speed (kmph)	4	5	2	2	6
	Wind direction (deg)	230	260	60	180	90
JAMTARA	Rainfall (mm)	5	8	13	15	10
	Max Temperature (deg C)	31	31	30	29	29
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	98	96	99	99	100
	Min Relative Humidity (%)	82	80	81	86	85
	Wind speed (kmph)	4	5	2	2	6
	Wind direction (deg)	230	260	60	180	90
KODERMA	Rainfall (mm)	6	8	11	13	9
	Max Temperature (deg C)	31	30	29	29	29
	Min Temperature (deg C)	24	24	24	23	23
	Total cloud cover (octa)	7	7	8	8	8
	Max Relative Humidity (%)	91	92	97	97	100
	Min Relative Humidity (%)	81	79	82	81	84
	Wind speed (kmph)	6	8	8	3	5
	Wind direction (deg)	230	280	290	320	130

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

DISTRICTS		FORECAST				
		DAY-1 10-09-10	DAY-2 11-09-10	DAY-3 12-09-10	DAY-4 13-09-10	DAY-5 14-09-10
WEST SINGBHUM	Rainfall (mm)	7	6	8	14	15
	Max Temperature (deg C)	32	30	32	29	29
	Min Temperature (deg C)	24	25	24	24	24
	Total cloud cover (octa)	8	7	8	8	8
	Max Relative Humidity (%)	96	90	96	99	100
	Min Relative Humidity (%)	76	74	83	91	86
	Wind speed (kmph)	6	6	3	2	2
	Wind direction (deg)	230	240	290	200	170
EAST SINGBHUM	Rainfall (mm)	6	7	9	12	10
	Max Temperature (deg C)	32	31	31	29	29
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	93	93	98	99	100
	Min Relative Humidity (%)	74	78	86	91	83
	Wind speed (kmph)	5	6	4	3	3
	Wind direction (deg)	240	250	180	110	120
SARAIKELA	Rainfall (mm)	6	7	9	12	10
	Max Temperature (deg C)	32	31	31	29	29
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	93	93	98	99	100
	Min Relative Humidity (%)	74	78	86	91	83
	Wind speed (kmph)	5	6	4	3	3
	Wind direction (deg)	240	250	180	110	120

B. AGRO-ADVISORIES:-

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

Contingency plan for Jharkhnad state are

1. Farmers are advised to complete sowing of direct seeded Kharif crops on uplands. In medium land short duration varieties of Maize and Pigeon pea can be taken. Sowing of Kulthi (Seed @ 20 kg/Acre. R x R 30 cm.) & Nizer can also be taken. Varieties of Kulthi: Madhu & Birsa Kulthi – 1, Varieties of Nizer: Birsa Nizer – 1 (Seed @ 8 kg/Acre (R x R 30 cm. plant to plant 10-15 cm).
2. In vegetables early crop of Lady finger, Lobia & French Bean are recommended. Preparation of Nursery for Tomato, Cabbage & Cauliflower can also be undertaken.
3. Farmers can grow fodder crops like Maize, Fodder Lobia & Jawar.

Upland: Interculturing must be done in Maize, Groundnut, Arahara & 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: Arhar- Varieties- Birsa Arhar-1, Bahar, Upas. Seed rate- 20kg/hect.

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 hectore. 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 Carbonydazine 1.5 – 2 gm or Tichograma 5 gm/kg of seed. Crops of **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.

Statistics of crop coverage for The state of Jharkhand up to 07.09.2010 (in 000 Hactare) is given below:

Paddy			Maize			Pulses			Oilseed		
Target	Coverage	%	Target	Coverage	%	Target	Coverage	%	Target	Coverage	%
1692.000	683.555	40	280.000	196.948	70	381.000	204.804	54	75.000	26.037	35

(K.Gari)

Deputy Director (Farm)
State Agriculture Dept, Ranchi.

(G.K.Mohanty)

Director
Meteorological Centre, Ranchi

M.C.RANCHI UOI No. RNC-DAAS/II/

/09.09.2010

Forwarded to:

1. Sri R.R. Prasad, Advisor to the Governor, Jharkhand
2. Director Agriculture, Ranchi, Jharkhand
3. Director (Extension) Birsa Agriculture University, Ranchi
4. Director Research, Ranchi
5. Director D.D., Ranchi.
6. Director AIR, Ranchi

(G.K.Mohanty)
Director

Copy to: DDGM (Agrimet), Pune

(S.K.Bagchi)
for, Director

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