



**Composite Agromet Advisory Service Bulletin
for the State of Jharkhand**

BULLETIN NO. 76

Tuesday, 21st September, 2010

For the period: 22th to 26nd September 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

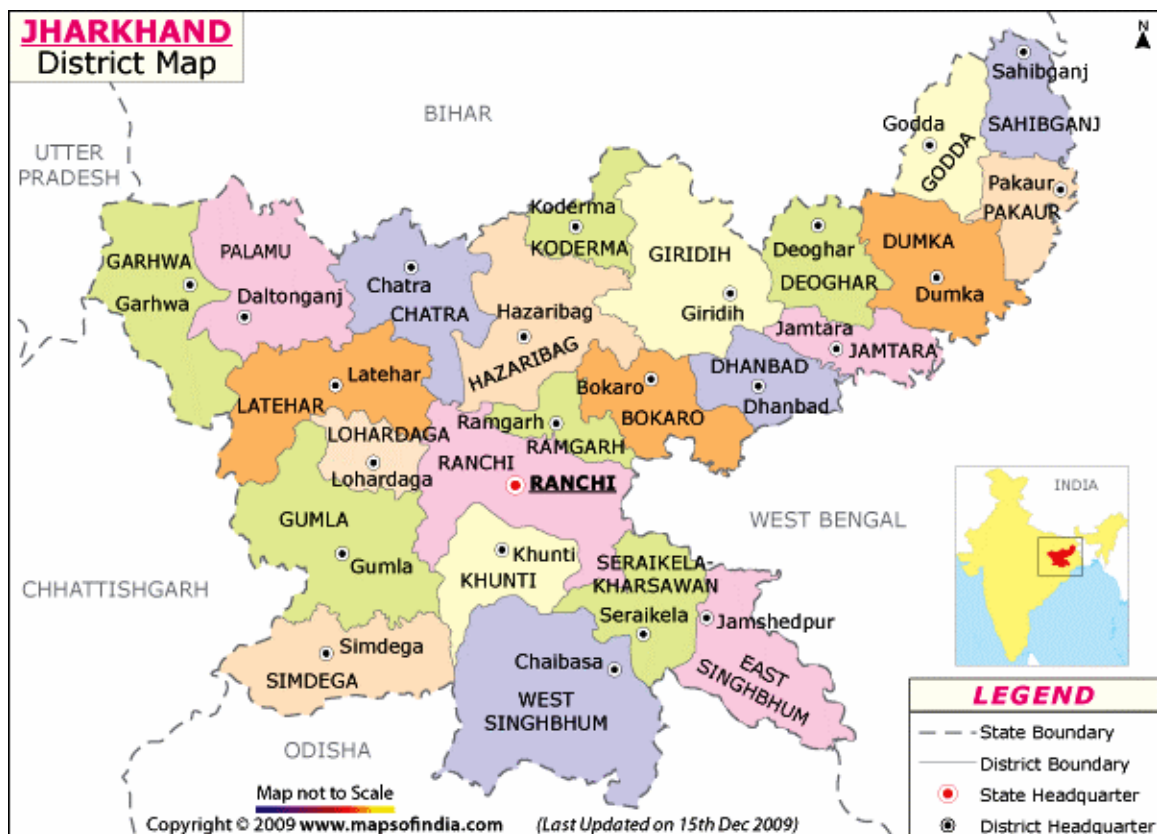
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 21.09.2010
VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 17th September, 2010:-

South West Monsoon remained vigorous over Jharkhand on 18th & 19th. Heavy rainfall occurred at isolated places on 18th and 19th. Rainfall occurred at many places on 18th & 19th and a few places on 20th & 21st September, 2010 in Jharkhand.

Chief amounts of rainfall reported (in cm) are:

18th: Kanke – 11, Garwah & Sarwan– 5 each, Pakur– 4, Namkum, Jharia, Deoghar & Sarath– 3 each.

19th: Kanke – 9, Bundu, Tundi & Mohanpur– 3 each.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 17th to 21st September, 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	066.1	058.6	037.3
Max Temp range (° c)	27-30	29-33	29-31
Min Temp range (° c)	22-23	24-25	25
Cloud Coverage (octa)	7	7	6
Relative Humidity (%)	62-98	62-97	76-97
Wind Direction/ Speed (kmph)	Morning	Mainly South Easterly	Variable
		11	08
	Evening	South Easterly	Variable
		05	06
		02	02

Current synoptic condition:

The axis of Monsoon trough on sea level chart passes through Bikaner, Gwalior, Allahabad, Gaya, Dumka & thence to Assam across Gangetic West Bengal.

Forecast valid up to 0830 hours IST of 24th September, 2010:-

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

Warning: Nil

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 24th 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 22-09-10	DAY-2 23-09-10	DAY-3 24-09-10	DAY-4 25-09-10	DAY-5 26-09-10
BOKARO	Rainfall (mm)	7	3	0	3	0
	Max Temperature (deg C)	31	32	32	31	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	7	3	0	0
	Max Relative Humidity (%)	100	99	98	90	86
	Min Relative Humidity (%)	60	56	60	60	59
	Wind speed (kmph)	2	4	4	4	3
	Wind direction (deg)	290	260	260	270	270
HAZARIBAGH	Rainfall (mm)	8	3	0	3	0
	Max Temperature (deg C)	31	32	32	32	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	3	3	0	0
	Max Relative Humidity (%)	96	91	91	86	80
	Min Relative Humidity (%)	63	61	64	64	66
	Wind speed (kmph)	4	2	3	5	4
	Wind direction (deg)	270	190	220	250	250
RAMGARH	Rainfall (mm)	8	3	0	3	0
	Max Temperature (deg C)	31	32	32	32	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	3	3	0	0
	Max Relative Humidity (%)	96	91	91	86	80
	Min Relative Humidity (%)	63	61	64	64	66
	Wind speed (kmph)	4	2	3	5	4
	Wind direction (deg)	270	190	220	250	250
CHATRA	Rainfall (mm)	6	0	0	3	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	7	3	2	0	0
	Max Relative Humidity (%)	94	88	87	86	80
	Min Relative Humidity (%)	61	60	61	61	67
	Wind speed (kmph)	4	3	4	5	5
	Wind direction (deg)	210	150	160	200	210
RANCHI	Rainfall (mm)	6	3	0	3	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	24	24	23	23	23
	Total cloud cover (octa)	7	6	3	0	0
	Max Relative Humidity (%)	97	88	92	84	82
	Min Relative Humidity (%)	65	59	60	59	63
	Wind speed (kmph)	5	4	3	2	3
	Wind direction (deg)	280	170	190	290	290
KHUNTI	Rainfall (mm)	6	3	0	3	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	24	24	23	23	23
	Total cloud cover (octa)	7	6	3	0	0
	Max Relative Humidity (%)	97	88	92	84	82
	Min Relative Humidity (%)	65	59	60	59	63
	Wind speed (kmph)	5	4	3	2	3
	Wind direction (deg)	280	170	190	290	290

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 22-09-10	DAY-2 23-09-10	DAY-3 24-09-10	DAY-4 25-09-10	DAY-5 26-09-10
GUMLA	Rainfall (mm)	5	0	0	0	0
	Max Temperature (deg C)	32	33	32	32	33
	Min Temperature (deg C)	25	24	24	24	25
	Total cloud cover (octa)	8	7	1	0	1
	Max Relative Humidity (%)	100	86	85	87	86
	Min Relative Humidity (%)	60	60	62	56	62
	Wind speed (kmph)	5	5	3	2	2
	Wind direction (deg)	300	80	180	190	230
SIMDEGA	Rainfall (mm)	5	0	0	0	0
	Max Temperature (deg C)	32	33	32	32	33
	Min Temperature (deg C)	25	24	24	24	25
	Total cloud cover (octa)	8	7	1	0	1
	Max Relative Humidity (%)	100	86	85	87	86
	Min Relative Humidity (%)	60	60	62	56	62
	Wind speed (kmph)	5	5	3	2	2
	Wind direction (deg)	300	80	180	190	230
LOHARDAGA	Rainfall (mm)	4	0	0	0	0
	Max Temperature (deg C)	30	31	31	31	31
	Min Temperature (deg C)	24	24	23	23	23
	Total cloud cover (octa)	8	6	0	0	0
	Max Relative Humidity (%)	94	75	79	81	77
	Min Relative Humidity (%)	60	61	62	59	65
	Wind speed (kmph)	6	5	2	2	2
	Wind direction (deg)	280	180	190	280	280
PALAMAU	Rainfall (mm)	5	0	0	0	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	25	24	25	24	24
	Total cloud cover (octa)	6	5	2	0	0
	Max Relative Humidity (%)	92	84	86	87	84
	Min Relative Humidity (%)	60	59	61	59	64
	Wind speed (kmph)	5	4	4	4	4
	Wind direction (deg)	210	160	180	200	210
GARHWA	Rainfall (mm)	4	0	0	0	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	24	24	25	24	24
	Total cloud cover (octa)	8	8	1	0	0
	Max Relative Humidity (%)	87	79	85	88	87
	Min Relative Humidity (%)	57	58	62	61	63
	Wind speed (kmph)	6	3	5	6	5
	Wind direction (deg)	230	140	240	260	270
LATEHAR	Rainfall (mm)	4	0	0	0	0
	Max Temperature (deg C)	32	33	33	33	33
	Min Temperature (deg C)	24	24	25	24	24
	Total cloud cover (octa)	8	8	1	0	0
	Max Relative Humidity (%)	87	79	85	88	87
	Min Relative Humidity (%)	57	58	62	61	63
	Wind speed (kmph)	6	3	5	6	5
	Wind direction (deg)	230	140	240	260	270

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

DISTRICTS		FORECAST				
		DAY-1 22-09-10	DAY-2 23-09-10	DAY-3 24-09-10	DAY-4 25-09-10	DAY-5 26-09-10
SAHEBGANJ	Rainfall (mm)	8	9	9	6	4
	Max Temperature (deg C)	30	30	30	31	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	8	0
	Max Relative Humidity (%)	100	100	100	100	89
	Min Relative Humidity (%)	94	90	79	69	59
	Wind speed (kmph)	6	3	3	2	6
	Wind direction (deg)	130	60	40	230	270
GODDA	Rainfall (mm)	11	10	9	6	4
	Max Temperature (deg C)	31	30	30	31	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	5	0
	Max Relative Humidity (%)	100	100	100	99	91
	Min Relative Humidity (%)	95	93	80	72	63
	Wind speed (kmph)	5	3	3	3	6
	Wind direction (deg)	150	150	190	190	260
PAKUR	Rainfall (mm)	8	9	8	5	4
	Max Temperature (deg C)	30	30	30	31	32
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	8	8	8	8	0
	Max Relative Humidity (%)	100	100	100	100	91
	Min Relative Humidity (%)	95	90	78	65	64
	Wind speed (kmph)	3	0	3	4	6
	Wind direction (deg)	160	150	310	250	280
DUMKA	Rainfall (mm)	7	9	7	5	4
	Max Temperature (deg C)	31	30	30	32	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	8	8	8	5	0
	Max Relative Humidity (%)	99	100	100	98	93
	Min Relative Humidity (%)	92	89	70	67	65
	Wind speed (kmph)	2	2	4	3	5
	Wind direction (deg)	200	270	280	270	290
DEOGHAR	Rainfall (mm)	8	8	4	4	3
	Max Temperature (deg C)	30	30	30	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	8	8	8	1	0
	Max Relative Humidity (%)	100	100	100	94	89
	Min Relative Humidity (%)	88	90	70	73	67
	Wind speed (kmph)	3	3	6	4	6
	Wind direction (deg)	150	240	260	260	280
GIRIDIH	Rainfall (mm)	8	6	3	4	3
	Max Temperature (deg C)	30	31	31	30	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	8	8	0	0
	Max Relative Humidity (%)	98	100	100	93	88
	Min Relative Humidity (%)	75	79	71	72	67
	Wind speed (kmph)	3	4	6	4	5
	Wind direction (deg)	180	240	250	260	270

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 22-09-10	DAY-2 23-09-10	DAY-3 24-09-10	DAY-4 25-09-10	DAY-5 26-09-10
DHANBAD	Rainfall (mm)	8	5	0	3	0
	Max Temperature (deg C)	31	31	31	31	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	0	0
	Max Relative Humidity (%)	100	100	100	94	94
	Min Relative Humidity (%)	86	80	68	68	64
	Wind speed (kmph)	4	2	5	2	4
	Wind direction (deg)	80	270	280	300	290
JAMTARA	Rainfall (mm)	8	5	0	3	0
	Max Temperature (deg C)	31	31	31	31	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	8	8	8	0	0
	Max Relative Humidity (%)	100	100	100	94	94
	Min Relative Humidity (%)	86	80	68	68	64
	Wind speed (kmph)	4	2	5	2	4
	Wind direction (deg)	80	270	280	300	290
KODERMA	Rainfall (mm)	9	4	0	3	0
	Max Temperature (deg C)	31	32	32	31	32
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	8	6	7	0	0
	Max Relative Humidity (%)	95	98	98	91	86
	Min Relative Humidity (%)	67	72	72	72	67
	Wind speed (kmph)	4	4	4	5	5
	Wind direction (deg)	240	200	220	240	240

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

DISTRICTS		FORECAST				
		DAY-1 22-09-10	DAY-2 23-09-10	DAY-3 24-09-10	DAY-4 25-09-10	DAY-5 26-09-10
WEST SINGBHUM	Rainfall (mm)	11	6	0	0	3
	Max Temperature (deg C)	32	32	33	33	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	4	5	0	1
	Max Relative Humidity (%)	98	96	93	93	95
	Min Relative Humidity (%)	82	61	65	70	70
	Wind speed (kmph)	4	4	5	5	5
	Wind direction (deg)	240	230	220	240	260
EAST SINGBHUM	Rainfall (mm)	8	6	0	0	3
	Max Temperature (deg C)	32	32	32	33	33
	Min Temperature (deg C)	24	25	24	24	24
	Total cloud cover (octa)	5	7	6	0	0
	Max Relative Humidity (%)	96	100	96	93	95
	Min Relative Humidity (%)	86	64	61	67	60
	Wind speed (kmph)	4	2	6	5	5
	Wind direction (deg)	250	260	250	250	280
SARAIKELA	Rainfall (mm)	8	6	0	0	3
	Max Temperature (deg C)	32	32	32	33	33
	Min Temperature (deg C)	24	25	24	24	24
	Total cloud cover (octa)	5	7	6	0	0
	Max Relative Humidity (%)	96	100	96	93	95
	Min Relative Humidity (%)	86	64	61	67	60
	Wind speed (kmph)	4	2	6	5	5
	Wind direction (deg)	250	260	250	250	280

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

(S.Hembrom)

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/ /21.09.2010

Forwarded to DDGM (Agrimet), Pune)
M.C.RANCHI UOI No. RNC-DAAS/II/ /21.09.2010

(S.K. Bagchi)
For, Director

