



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

**BULLETIN NO. 69**

**Friday, 27<sup>th</sup> August, 2010**

For the period: 28<sup>th</sup> August to 01<sup>st</sup> 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	<b>Central &amp; Western Plateau Zone</b>	Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega	Ranchi
2	<b>Central and North Eastern Plateau Zone</b>	Dumka, Sahebganj, Godda, Pakur, Deoghar, Giridih, Dhanbad, Jamtara, Koderma	Dumka
3	<b>South Eastern Plateau Zone</b>	West Singhbhum, East Singhbhum, Saraikela	Darisai



**DISTRICT LEVEL WEATHER FORECAST**  
**ISSUED ON: 27.08.2010**  
**VALID FOR THE NEXT 5 DAYS**

**Weather Summary for the period since 0830 hours IST of 24<sup>th</sup> August, 2010:-**

Heavy rainfall occurred at isolated places on 25<sup>th</sup>. Rainfall occurred at many places on 25<sup>th</sup> & at few places on 26<sup>th</sup> & 27<sup>th</sup> August, 2010 in Jharkhand. Chief amounts of rainfall reported (in cm): Baliapur & Maithon – 13 each, Panchet – 12, Jharia – 8, Dhanbad, Gobindpur, Godda & Tenughat – 7 each, Bero, Anagarha & Pakuria – 6 each, Bagmara, Chatara, Hunterganj, Dumka, Palkot, Jamtara, Messonjore & Kharsema – 5 each, Mandar, Ramgarh, Nirsa, Pakur, Moharo, Mandar & Chandil – 4 each and Jamshedpur, Nandadih, Barkisuriya, Arki & Kuru – 3 each on 25<sup>th</sup>, Bero – 5 & Chatara – 3 on 26<sup>th</sup> and Arki – 10 on 27<sup>th</sup>.

**Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 24<sup>th</sup> to 27<sup>th</sup> August, 2010:**

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	19.0	30.0	8.0
Max Temp range (° c)	30-31	33	31-34
Min Temp range (° c)	23	24-25	25-26
Cloud Coverage ( octa )	7	6	6
Relative Humidity (%)	64-98	61-97	74-98
Wind Direction/ Speed (kmph)	<b>Morning</b>	Southerly	Calm
		06	00
	<b>Evening</b>	Variable	Calm
		09	00

**Current synoptic condition:**

A cyclonic circulation lies over Chatisgarh & adjoining Orissa extending up to mid tropospheric level tilting southwest ward with height. The axis of Monsoon trough on sea level charts passes through Pathankot, Patiyala, Delhi, Agara, Jhansi, Raipur, Kalingapatnam, thence to east central Bay across westcentral Bay.

**Forecast valid up to 0830 hours IST of 30<sup>th</sup> August, 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 30<sup>th</sup> August, 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 28-08-10	DAY-2 29-08-10	DAY-3 30-08-10	DAY-4 31-08-10	DAY-5 01-09-10
BOKARO	Rainfall (mm)	4	8	7	7	10
	Max Temperature (deg C)	33	35	35	32	31
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	97	98	97	98
	Min Relative Humidity (%)	66	60	62	72	71
	Wind speed (kmph)	4	4	2	6	9
	Wind direction (deg)	192	226	105	74	105
HAZARIBAGH	Rainfall (mm)	3	4	3	5	8
	Max Temperature (deg C)	32	32	33	32	31
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	97	98	98	98
	Min Relative Humidity (%)	63	62	68	69	72
	Wind speed (kmph)	4	4	4	6	11
	Wind direction (deg)	180	214	126	89	74
RAMGARH	Rainfall (mm)	3	4	3	5	8
	Max Temperature (deg C)	32	32	33	32	31
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	97	98	98	98
	Min Relative Humidity (%)	63	62	68	69	72
	Wind speed (kmph)	4	4	4	6	11
	Wind direction (deg)	180	214	126	89	74
CHATRA	Rainfall (mm)	3	3	3	4	7
	Max Temperature (deg C)	35	35	34	33	32
	Min Temperature (deg C)	24	25	25	24	24
	Total cloud cover (octa)	5	6	5	5	7
	Max Relative Humidity (%)	96	95	97	99	99
	Min Relative Humidity (%)	60	61	67	66	71
	Wind speed (kmph)	4	4	4	6	9
	Wind direction (deg)	181	213	141	101	37
RANCHI	Rainfall (mm)	3	8	7	7	10
	Max Temperature (deg C)	31	31	32	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	99	98	98	98	98
	Min Relative Humidity (%)	70	64	69	76	74
	Wind speed (kmph)	4	4	2	6	9
	Wind direction (deg)	212	246	89	71	167
KHUNTI	Rainfall (mm)	3	8	7	7	10
	Max Temperature (deg C)	31	31	32	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	99	98	98	98	98
	Min Relative Humidity (%)	70	64	69	76	74
	Wind speed (kmph)	4	4	2	6	9
	Wind direction (deg)	212	246	89	71	167

**AMFU :RANCHI continued .....**

DISTRICTS		FORECAST				
		DAY-1 28-08-10	DAY-2 29-08-10	DAY-3 30-08-10	DAY-4 31-08-10	DAY-5 01-09-10
GUMLA	Rainfall (mm)	6	8	10	10	8
	Max Temperature (deg C)	33	33	32	32	31
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	98	98	99	98
	Min Relative Humidity (%)	68	65	70	72	72
	Wind speed (kmph)	4	4	2	4	6
	Wind direction (deg)	204	276	208	68	259
SIMDEGA	Rainfall (mm)	6	8	10	10	8
	Max Temperature (deg C)	33	33	32	32	31
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	98	98	99	98
	Min Relative Humidity (%)	68	65	70	72	72
	Wind speed (kmph)	4	4	2	4	6
	Wind direction (deg)	204	276	208	68	259
LOHARDAGA	Rainfall (mm)	4	8	7	8	7
	Max Temperature (deg C)	33	34	33	31	30
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	97	97	99	99
	Min Relative Humidity (%)	66	63	68	71	73
	Wind speed (kmph)	4	4	2	6	7
	Wind direction (deg)	208	253	166	78	184
PALAMAU	Rainfall (mm)	3	3	4	7	5
	Max Temperature (deg C)	36	36	36	35	33
	Min Temperature (deg C)	25	26	26	25	25
	Total cloud cover (octa)	7	6	6	5	5
	Max Relative Humidity (%)	94	93	95	98	99
	Min Relative Humidity (%)	57	57	59	61	68
	Wind speed (kmph)	4	4	4	6	6
	Wind direction (deg)	187	214	165	99	42
GARHWA	Rainfall (mm)	3	3	5	4	6
	Max Temperature (deg C)	37	37	36	35	33
	Min Temperature (deg C)	25	26	26	25	25
	Total cloud cover (octa)	7	6	5	5	5
	Max Relative Humidity (%)	92	91	94	98	99
	Min Relative Humidity (%)	53	52	53	56	63
	Wind speed (kmph)	4	4	2	6	6
	Wind direction (deg)	184	196	167	100	30
LATEHAR	Rainfall (mm)	3	3	5	4	6
	Max Temperature (deg C)	37	37	36	35	33
	Min Temperature (deg C)	25	26	26	25	25
	Total cloud cover (octa)	7	6	5	5	5
	Max Relative Humidity (%)	92	91	94	98	99
	Min Relative Humidity (%)	53	52	53	56	63
	Wind speed (kmph)	4	4	2	6	6
	Wind direction (deg)	184	196	167	100	30

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

DISTRICTS		FORECAST				
		DAY-1 28-08-10	DAY-2 29-08-10	DAY-3 30-08-10	DAY-4 31-08-10	DAY-5 01-09-10
SAHEBGANJ	Rainfall (mm)	3	3	4	4	3
	Max Temperature (deg C)	34	34	33	34	34
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	6	6	5	6	6
	Max Relative Humidity (%)	97	97	96	96	96
	Min Relative Humidity (%)	65	64	68	64	62
	Wind speed (kmph)	6	4	6	7	11
	Wind direction (deg)	155	125	84	87	86
GODDA	Rainfall (mm)	3	3	6	3	3
	Max Temperature (deg C)	34	35	33	34	34
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	6	5	5	6	7
	Max Relative Humidity (%)	97	95	96	96	96
	Min Relative Humidity (%)	64	65	69	66	64
	Wind speed (kmph)	6	4	6	7	13
	Wind direction (deg)	152	122	82	87	85
PAKUR	Rainfall (mm)	3	3	5	3	3
	Max Temperature (deg C)	34	34	34	34	33
	Min Temperature (deg C)	25	26	26	26	25
	Total cloud cover (octa)	5	6	6	6	5
	Max Relative Humidity (%)	98	97	96	96	96
	Min Relative Humidity (%)	65	64	67	65	64
	Wind speed (kmph)	6	4	6	7	13
	Wind direction (deg)	156	125	92	86	88
DUMKA	Rainfall (mm)	3	3	5	4	4
	Max Temperature (deg C)	34	34	34	34	33
	Min Temperature (deg C)	25	26	26	26	26
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	98	97	96	96	96
	Min Relative Humidity (%)	64	64	66	67	65
	Wind speed (kmph)	6	4	6	7	13
	Wind direction (deg)	154	121	96	82	88
DEOGHAR	Rainfall (mm)	3	4	5	5	8
	Max Temperature (deg C)	35	35	34	33	33
	Min Temperature (deg C)	25	26	26	26	26
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	97	95	97	95	96
	Min Relative Humidity (%)	61	61	64	67	66
	Wind speed (kmph)	4	4	4	7	13
	Wind direction (deg)	159	144	102	82	86
GIRIDIH	Rainfall (mm)	4	5	4	6	8
	Max Temperature (deg C)	35	35	34	33	33
	Min Temperature (deg C)	25	25	26	26	25
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	97	96	97	95	97
	Min Relative Humidity (%)	61	59	62	67	68
	Wind speed (kmph)	4	2	4	7	11
	Wind direction (deg)	167	171	118	79	89

**AMFU : DUMKA continued .....**

DISTRICTS		FORECAST				
		DAY-1 28-08-10	DAY-2 29-08-10	DAY-3 30-08-10	DAY-4 31-08-10	DAY-5 01-09-10
DHANBAD	Rainfall (mm)	3	5	4	5	10
	Max Temperature (deg C)	33	34	34	32	32
	Min Temperature (deg C)	24	25	25	25	25
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	99	97	97	95	97
	Min Relative Humidity (%)	64	61	62	69	68
	Wind speed (kmph)	4	2	4	7	11
	Wind direction (deg)	167	170	112	76	94
JAMTARA	Rainfall (mm)	3	5	4	5	10
	Max Temperature (deg C)	33	34	34	32	32
	Min Temperature (deg C)	24	25	25	25	25
	Total cloud cover (octa)	6	6	5	6	5
	Max Relative Humidity (%)	99	97	97	95	97
	Min Relative Humidity (%)	64	61	62	69	68
	Wind speed (kmph)	4	2	4	7	11
	Wind direction (deg)	167	170	112	76	94
KODERMA	Rainfall (mm)	4	6	4	6	8
	Max Temperature (deg C)	35	35	34	33	32
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	5	6	5	6	7
	Max Relative Humidity (%)	96	95	97	96	97
	Min Relative Humidity (%)	60	59	63	66	68
	Wind speed (kmph)	4	2	4	7	11
	Wind direction (deg)	172	184	122	85	76

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

DISTRICTS		FORECAST				
		DAY-1 28-08-10	DAY-2 29-08-10	DAY-3 30-08-10	DAY-4 31-08-10	DAY-5 01-09-10
WEST SINGBHUM	Rainfall (mm)	6	10	8	9	10
	Max Temperature (deg C)	33	33	33	32	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	5
	Max Relative Humidity (%)	98	96	98	99	98
	Min Relative Humidity (%)	66	70	73	78	69
	Wind speed (kmph)	4	4	2	4	6
	Wind direction (deg)	197	278	256	66	204
EAST SINGBHUM	Rainfall (mm)	3	10	10	5	15
	Max Temperature (deg C)	33	34	34	33	33
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	98	96	97	97	98
	Min Relative Humidity (%)	67	64	65	76	69
	Wind speed (kmph)	4	4	2	6	7
	Wind direction (deg)	200	256	117	64	138
SARAIKELA	Rainfall (mm)	3	10	10	5	15
	Max Temperature (deg C)	33	34	34	33	33
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	98	96	97	97	98
	Min Relative Humidity (%)	67	64	65	76	69
	Wind speed (kmph)	4	4	2	6	7
	Wind direction (deg)	200	256	117	64	138

## **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 & 2 (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, 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:** 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 Carbondyzine 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. 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, Potato (Varieties of Potato: Kufri Ashok, Kufri Kanchan), Pea (Varieties of Pea: Arkel, Kasinanadani, PE-6, Birsa Mattar), Pulses (Urad, Moong & Kulthi), Oilseed( Nizer & Toria) on vacant land.

**Statistics of crop coverage for The state of Jharkhand up to 26.08.2010 (in 000 Hactare) is given below:**

Paddy		%	Maize		%	Pulses		%	Oilseed		%
Target	Coverage		Target	Coverage		Target	Coverage		Target	Coverage	
1692.000	571.001	34	280.000	181.239	68	381.000	184.186	48	75.000	22.894	31

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