



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

BULLETIN NO. 65

Friday, 13th August, 2010

For the period: 14th to 18th August 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: 13.08.2010

VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 10th August, 2010:-

Rainfall occurred at isolated places during 10th to 13th August, 2010 in Jharkhand. Chief amounts of rainfall reported (in cm): Thakurganjhi (Godda) – 3 on 12th & Thakurganjhi (Godda) – 6, Hiranpur (Pakur) - 4, Gola (Ramgarh) - 3 on 13th.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 10th to 13th August, 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	14.6	0.0	19.9
Max Temp range (° c)	32-33	35-36	33-36
Min Temp range (° c)	24-25	26-27	25-27
Cloud Coverage (octa)	6	6	6
Relative Humidity (%)	50-95	52-92	59-96
Wind Direction/ Speed (kmph)	Morning	Calm	Calm
		00	00
	Evening	Southerly	South Easterly
		03	07

Current synoptic condition:

A cyclonic circulation lies over Bangladesh & adjoining areas extending up to 1.5 km above sea level. The axis of Monsoon trough on sea level charts passes through Jaisalmer, Ajmer, Jabalpur, Shambhalpur thence to east central Bay across northwest Bay.

Forecast valid up to 0830 hours IST of 16th 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 16th 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 14-08-10	DAY-2 15-08-10	DAY-3 16-08-10	DAY-4 17-08-10	DAY-5 18-08-10
BOKARO	Rainfall (mm)	10	7	7	7	8
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	25	24	24	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	97	92	92
	Min Relative Humidity (%)	83	83	77	70	78
	Wind speed (kmph)	2	7	4	7	4
	Wind direction (deg)	170	140	190	220	190
HAZARIBAGH	Rainfall (mm)	10	7	6	7	9
	Max Temperature (deg C)	34	33	32	32	32
	Min Temperature (deg C)	25	24	24	25	25
	Total cloud cover (octa)	6	6	5	6	6
	Max Relative Humidity (%)	97	98	94	93	93
	Min Relative Humidity (%)	81	80	85	77	78
	Wind speed (kmph)	6	11	7	11	7
	Wind direction (deg)	180	140	190	220	190
RAMGARH	Rainfall (mm)	10	7	6	7	9
	Max Temperature (deg C)	34	33	32	32	32
	Min Temperature (deg C)	25	24	24	25	25
	Total cloud cover (octa)	6	6	5	6	6
	Max Relative Humidity (%)	97	98	94	93	93
	Min Relative Humidity (%)	81	80	85	77	78
	Wind speed (kmph)	6	11	7	11	7
	Wind direction (deg)	180	140	190	220	190
CHATRA	Rainfall (mm)	10	10	6	7	8
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	25	25	25	25	26
	Total cloud cover (octa)	6	5	7	6	6
	Max Relative Humidity (%)	96	97	91	89	91
	Min Relative Humidity (%)	78	81	81	79	78
	Wind speed (kmph)	6	7	7	7	7
	Wind direction (deg)	160	160	180	210	170
RANCHI	Rainfall (mm)	9	10	9	7	9
	Max Temperature (deg C)	30	30	30	32	32
	Min Temperature (deg C)	25	24	24	24	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	100	97	96	96
	Min Relative Humidity (%)	88	81	76	71	76
	Wind speed (kmph)	4	7	7	11	7
	Wind direction (deg)	220	150	200	220	200
KHUNTI	Rainfall (mm)	9	10	9	7	9
	Max Temperature (deg C)	30	30	30	32	32
	Min Temperature (deg C)	25	24	24	24	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	100	97	96	96
	Min Relative Humidity (%)	88	81	76	71	76
	Wind speed (kmph)	4	7	7	11	7
	Wind direction (deg)	220	150	200	220	200

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 14-08-10	DAY-2 15-08-10	DAY-3 16-08-10	DAY-4 17-08-10	DAY-5 18-08-10
GUMLA	Rainfall (mm)	10	10	8	6	8
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	24	24	24	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	98	99
	Min Relative Humidity (%)	88	80	76	80	72
	Wind speed (kmph)	4	7	7	9	6
	Wind direction (deg)	160	160	180	210	150
SIMDEGA	Rainfall (mm)	10	10	8	6	8
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	24	24	24	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	98	99
	Min Relative Humidity (%)	88	80	76	80	72
	Wind speed (kmph)	4	7	7	9	6
	Wind direction (deg)	160	160	180	210	150
LOHARDAGA	Rainfall (mm)	10	9	7	7	7
	Max Temperature (deg C)	31	31	31	30	30
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	100	98	97	97
	Min Relative Humidity (%)	87	79	80	78	69
	Wind speed (kmph)	7	9	11	11	11
	Wind direction (deg)	180	170	190	210	180
PALAMAU	Rainfall (mm)	10	10	8	8	10
	Max Temperature (deg C)	34	33	33	33	32
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	6	4	7	5	6
	Max Relative Humidity (%)	97	97	92	88	93
	Min Relative Humidity (%)	77	80	77	78	77
	Wind speed (kmph)	4	4	4	6	4
	Wind direction (deg)	130	130	200	220	140
GARHWA	Rainfall (mm)	10	10	7	7	8
	Max Temperature (deg C)	33	32	32	33	32
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	5	6	6	5	6
	Max Relative Humidity (%)	98	99	95	89	95
	Min Relative Humidity (%)	78	78	77	80	77
	Wind speed (kmph)	4	2	4	9	2
	Wind direction (deg)	240	210	220	230	140
LATEHAR	Rainfall (mm)	10	10	7	7	8
	Max Temperature (deg C)	33	32	32	33	32
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	5	6	6	5	6
	Max Relative Humidity (%)	98	99	95	89	95
	Min Relative Humidity (%)	78	78	77	80	77
	Wind speed (kmph)	4	2	4	9	2
	Wind direction (deg)	240	210	220	230	140

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

DISTRICTS		FORECAST				
		DAY-1 14-08-10	DAY-2 15-08-10	DAY-3 16-08-10	DAY-4 17-08-10	DAY-5 18-08-10
SAHEBGANJ	Rainfall (mm)	10	7	6	7	10
	Max Temperature (deg C)	32	32	32	31	31
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	6	5	6	6	6
	Max Relative Humidity (%)	99	99	95	96	97
	Min Relative Humidity (%)	86	81	89	90	88
	Wind speed (kmph)	6	11	7	11	11
	Wind direction (deg)	160	140	170	180	170
GODDA	Rainfall (mm)	10	10	8	10	12
	Max Temperature (deg C)	33	32	32	31	31
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	5	6	6	6	7
	Max Relative Humidity (%)	98	97	96	95	95
	Min Relative Humidity (%)	83	82	85	89	88
	Wind speed (kmph)	6	9	7	9	11
	Wind direction (deg)	150	130	150	170	170
PAKUR	Rainfall (mm)	9	7	5	6	7
	Max Temperature (deg C)	32	32	32	32	32
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	98	95	95	95
	Min Relative Humidity (%)	82	81	83	83	88
	Wind speed (kmph)	6	11	11	11	11
	Wind direction (deg)	150	150	180	190	180
DUMKA	Rainfall (mm)	7	7	5	5	8
	Max Temperature (deg C)	33	32	32	33	33
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	97	94	95
	Min Relative Humidity (%)	84	84	76	81	86
	Wind speed (kmph)	6	13	9	11	11
	Wind direction (deg)	150	150	170	180	170
DEOGHAR	Rainfall (mm)	8	6	6	6	9
	Max Temperature (deg C)	32	32	32	32	31
	Min Temperature (deg C)	25	25	25	26	25
	Total cloud cover (octa)	6	6	6	6	7
	Max Relative Humidity (%)	99	99	98	93	96
	Min Relative Humidity (%)	85	85	79	81	87
	Wind speed (kmph)	7	13	11	11	13
	Wind direction (deg)	160	150	170	200	180
GIRIDIH	Rainfall (mm)	10	7	7	8	10
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	98	92	96
	Min Relative Humidity (%)	83	83	79	80	85
	Wind speed (kmph)	7	11	7	9	11
	Wind direction (deg)	150	140	170	210	180

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 14-08-10	DAY-2 15-08-10	DAY-3 16-08-10	DAY-4 17-08-10	DAY-5 18-08-10
DHANBAD	Rainfall (mm)	9	7	5	5	9
	Max Temperature (deg C)	33	32	32	33	32
	Min Temperature (deg C)	25	25	25	25	26
	Total cloud cover (octa)	6	6	6	5	7
	Max Relative Humidity (%)	98	100	99	90	95
	Min Relative Humidity (%)	86	84	74	75	82
	Wind speed (kmph)	4	11	6	9	7
	Wind direction (deg)	130	140	170	200	180
JAMTARA	Rainfall (mm)	9	7	5	5	9
	Max Temperature (deg C)	33	32	32	33	32
	Min Temperature (deg C)	25	25	25	25	26
	Total cloud cover (octa)	6	6	6	5	7
	Max Relative Humidity (%)	98	100	99	90	95
	Min Relative Humidity (%)	86	84	74	75	82
	Wind speed (kmph)	4	11	6	9	7
	Wind direction (deg)	130	140	170	200	180
KODERMA	Rainfall (mm)	10	7	8	8	10
	Max Temperature (deg C)	32	32	32	32	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	5	6	5	6
	Max Relative Humidity (%)	98	98	96	90	94
	Min Relative Humidity (%)	79	84	81	80	81
	Wind speed (kmph)	4	11	7	7	9
	Wind direction (deg)	150	140	170	220	180

AMFU :DARISAI (Districts: West Singbhum, East singbhum, Saraikela

DISTRICTS		FORECAST				
		DAY-1 14-08-10	DAY-2 15-08-10	DAY-3 16-08-10	DAY-4 17-08-10	DAY-5 18-08-10
WEST SINGBHUM	Rainfall (mm)	6	10	8	5	7
	Max Temperature (deg C)	34	33	32	33	33
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	7
	Max Relative Humidity (%)	98	98	94	91	95
	Min Relative Humidity (%)	86	81	72	73	80
	Wind speed (kmph)	6	9	6	7	4
	Wind direction (deg)	200	160	190	200	160
EAST SINGBHUM	Rainfall (mm)	6	9	5	3	4
	Max Temperature (deg C)	34	33	33	33	33
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	96	91	95
	Min Relative Humidity (%)	85	83	74	72	88
	Wind speed (kmph)	2	4	4	6	4
	Wind direction (deg)	190	120	170	220	160
SARAIKELA	Rainfall (mm)	6	9	5	3	4
	Max Temperature (deg C)	34	33	33	33	33
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	96	91	95
	Min Relative Humidity (%)	85	83	74	72	88
	Wind speed (kmph)	2	4	4	6	4
	Wind direction (deg)	190	120	170	220	160

B. AGRO-ADVISORIES:-

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

Upland:

Interculturing must be done in Maize, Groundnut, Arhar & Mung. If there is attack of termite, spraying of chloropyriphos 2.5 ml/litre of water should be done. Farmers are suggested to start the sowing of Kulthi & Nizer. Varieties of Kulthi: Birsa Kulthi - 1 (Seed @ 20 kg/Acre. R x R 30 cm.) Varieties of Nizer: Birsa Nizer -1 Seed @ 8 kg/Acre (R x R 30 cm. plant to plant 10-15 cm).

Paddy:

Seedling of 15-20 days should be transplanted immediately. For low land half dose of urea i.e. 42 kg, full dose of SSP i.e. 52 kg & full dose of MOP i.e. 27 kg / acre should be applied after puddling. Distance between R x R 20 cm & plant to plant 15 cm @ 2-3 seedling /heel should be maintained. 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, U-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 Carbendazim 50% WP or Mencozeb 75% WP- 2gm/kg of seed. Farmers are advised to continue sowing of Urad.

Maize:

After 25-30 days plants should be intercultured. Top dressing with urea 30 kg/acre after tassling stage rest 25 kg urea/acre should be applied.

Vegetable

Cauliflower: Varieties are – Pusa Dipawali, Patna Early, Hazipur extra early. These varieties should be sown in raised nursery and seed should be treated with Carbendazim 1.5 – 2 gm or Tichogramma 5 gm/kg of seed. Crops of Brinjal, 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 12.08.2010 (in 000 Hactare) is given below:

Paddy			Maize			Pulses			Oilseed		
Target	Coverage	%	Target	Coverage	%	Target	Coverage	%	Target	Coverage	%
1692.000	493.090	29	280.000	187.870	67	381.000	160.157	42	75.000	20.509	27

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Forwarded to:

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2. Director Agriculture, Ranchi, Jharkhand
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