



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

BULLETIN NO. 61

Friday, 30th July, 2010

For the period: 31st July to 04th 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: 30.07.2010
VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 27th July, 2010:-

Heavy rainfall occurred at isolated places over Jharkhand on 30th. Rainfall occurred at most places on 30th and few places on 28th & 29th July, 2010 in Jharkhand. Chief amount of rainfall reported (in cm): Taljhari – 7, Barharwa – 5, Borio – 4, Barhet – 4, Rajmahal – 3, & Udhwa – 3 on 30th.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 27th to 30th July 2010:

Stations ---		Ranchi	Jamshedpur	Daltonganj
Parameters				
Total rainfall (mm)		5.8	4.8	0.0
Max Temp range (° c)		29-30	31-33	32-34
Min Temp range (° c)		23-24	25-26	26-27
Cloud Coverage (octa)		7	7	5
Relative Humidity (%)		72-97	64-93	57-92
Wind Direction/ Speed (kmph)	Morning	Easterly	Easterly	Easterly
		10	08	04
	Evening	South Easterly	South Easterly	Calm
		09	07	00

Current synoptic condition:

The axis of Monsoon trough on sea level charts passes through Hissar, Gwalior, Umaria, Raipur, Kalingapatnam thence east-central Bay across west-central Bay. A cyclonic circulation lies over south Chattisgarh & neighbourhood extending up to mid tropospheric level.

Forecast valid up to 0830 hours IST of 02nd August, 2010:-

Rain or Thundershowers would occur at many places over Jharkhand during next 24 hrs. and at few places thereafter.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 02nd 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 31-07-10	DAY-2 01-08-10	DAY-3 02-08-10	DAY-4 03-08-10	DAY-5 04-08-10
BOKARO	Rainfall (mm)	6	9	10	12	11
	Max Temperature (deg C)	30	30	30	30	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	99	98	99
	Min Relative Humidity (%)	94	89	75	77	90
	Wind speed (kmph)	9	6	7	6	6
	Wind direction (deg)	120	160	150	170	170
HAZARIBAGH	Rainfall (mm)	4	8	13	15	10
	Max Temperature (deg C)	32	30	30	29	30
	Min Temperature (deg C)	25	24	24	23	23
	Total cloud cover (octa)	6	7	6	6	5
	Max Relative Humidity (%)	97	98	97	97	96
	Min Relative Humidity (%)	91	88	73	85	87
	Wind speed (kmph)	9	6	6	7	6
	Wind direction (deg)	120	150	160	170	170
RAMGARH	Rainfall (mm)	4	8	13	15	10
	Max Temperature (deg C)	32	30	30	29	30
	Min Temperature (deg C)	25	24	24	23	23
	Total cloud cover (octa)	6	7	6	6	5
	Max Relative Humidity (%)	97	98	97	97	96
	Min Relative Humidity (%)	91	88	73	85	87
	Wind speed (kmph)	9	6	6	7	6
	Wind direction (deg)	120	150	160	170	170
CHATRA	Rainfall (mm)	6	10	15	20	12
	Max Temperature (deg C)	33	30	30	30	30
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	6	7	6	5	6
	Max Relative Humidity (%)	94	97	98	96	96
	Min Relative Humidity (%)	89	91	91	87	82
	Wind speed (kmph)	7	4	6	7	4
	Wind direction (deg)	120	160	160	160	150
RANCHI	Rainfall (mm)	7	11	16	16	9
	Max Temperature (deg C)	31	30	30	30	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	99	98	99	99	98
	Min Relative Humidity (%)	92	92	79	80	91
	Wind speed (kmph)	4	7	9	11	6
	Wind direction (deg)	120	190	190	180	170
KHUNTI	Rainfall (mm)	7	11	16	16	9
	Max Temperature (deg C)	31	30	30	30	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	99	98	99	99	98
	Min Relative Humidity (%)	92	92	79	80	91
	Wind speed (kmph)	4	7	9	11	6
	Wind direction (deg)	120	190	190	180	170

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 31-07-10	DAY-2 01-08-10	DAY-3 02-08-10	DAY-4 03-08-10	DAY-5 04-08-10
PARAMETERS						
GUMLA	Rainfall (mm)	10	16	11	16	10
	Max Temperature (deg C)	31	30	30	30	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	6	6	5	6
	Max Relative Humidity (%)	99	99	99	100	99
	Min Relative Humidity (%)	93	89	87	85	95
	Wind speed (kmph)	4	11	11	9	6
	Wind direction (deg)	160	220	220	180	170
SIMDEGA	Rainfall (mm)	10	16	11	16	10
	Max Temperature (deg C)	31	30	30	30	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	6	6	5	6
	Max Relative Humidity (%)	99	99	99	100	99
	Min Relative Humidity (%)	93	89	87	85	95
	Wind speed (kmph)	4	11	11	9	6
	Wind direction (deg)	160	220	220	180	170
LOHARDAGA	Rainfall (mm)	7	12	14	15	9
	Max Temperature (deg C)	30	30	29	29	29
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	99	98	99	99	99
	Min Relative Humidity (%)	90	89	70	85	88
	Wind speed (kmph)	4	6	7	11	7
	Wind direction (deg)	150	190	210	190	170
PALAMAU	Rainfall (mm)	9	15	15	20	11
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	94	98	99	96	96
	Min Relative Humidity (%)	85	88	94	84	81
	Wind speed (kmph)	6	2	6	6	2
	Wind direction (deg)	100	150	210	150	170
GARHWA	Rainfall (mm)	11	15	15	15	9
	Max Temperature (deg C)	32	31	31	31	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	7	6	5	6
	Max Relative Humidity (%)	99	98	98	96	97
	Min Relative Humidity (%)	87	84	94	87	86
	Wind speed (kmph)	4	4	9	6	4
	Wind direction (deg)	80	120	260	180	200
LATEHAR	Rainfall (mm)	11	15	15	15	9
	Max Temperature (deg C)	32	31	31	31	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	7	6	5	6
	Max Relative Humidity (%)	99	98	98	96	97
	Min Relative Humidity (%)	87	84	94	87	86
	Wind speed (kmph)	4	4	9	6	4
	Wind direction (deg)	80	120	260	180	200

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

DISTRICTS		FORECAST				
		DAY-1 31-07-10	DAY-2 01-08-10	DAY-3 02-08-10	DAY-4 03-08-10	DAY-5 04-08-10
SAHEBGANJ	Rainfall (mm)	10	7	10	13	15
	Max Temperature (deg C)	30	30	30	30	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	100	99	99	98
	Min Relative Humidity (%)	90	86	90	83	87
	Wind speed (kmph)	11	11	13	11	7
	Wind direction (deg)	120	110	140	160	130
GODDA	Rainfall (mm)	7	7	10	15	15
	Max Temperature (deg C)	31	30	30	29	30
	Min Temperature (deg C)	26	26	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	98	98	97	98
	Min Relative Humidity (%)	87	84	90	85	88
	Wind speed (kmph)	11	11	11	11	7
	Wind direction (deg)	120	120	130	150	120
PAKUR	Rainfall (mm)	9	8	10	12	12
	Max Temperature (deg C)	30	30	30	30	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	98	99
	Min Relative Humidity (%)	91	84	90	83	85
	Wind speed (kmph)	11	11	13	9	7
	Wind direction (deg)	120	130	140	160	150
DUMKA	Rainfall (mm)	7	8	12	12	12
	Max Temperature (deg C)	30	30	31	30	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	99	99	98
	Min Relative Humidity (%)	93	85	85	82	86
	Wind speed (kmph)	13	9	13	11	7
	Wind direction (deg)	120	180	140	140	160
DEOGHAR	Rainfall (mm)	4	8	10	10	10
	Max Temperature (deg C)	30	30	30	30	30
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	100	100
	Min Relative Humidity (%)	93	92	82	83	84
	Wind speed (kmph)	15	7	15	15	9
	Wind direction (deg)	120	150	150	150	170
GIRIDIH	Rainfall (mm)	5	7	10	15	10
	Max Temperature (deg C)	30	31	30	30	29
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	99	99	99	100
	Min Relative Humidity (%)	91	91	84	82	85
	Wind speed (kmph)	13	7	13	11	9
	Wind direction (deg)	120	160	150	160	180

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 31-07-10	DAY-2 01-08-10	DAY-3 02-08-10	DAY-4 03-08-10	DAY-5 04-08-10
DHANBAD	Rainfall (mm)	5	7	10	10	10
	Max Temperature (deg C)	30	30	30	31	30
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	100	100	100
	Min Relative Humidity (%)	93	90	84	78	86
	Wind speed (kmph)	11	7	11	11	11
	Wind direction (deg)	120	180	140	160	180
JAMTARA	Rainfall (mm)	5	7	10	10	10
	Max Temperature (deg C)	30	30	30	31	30
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	100	100	100
	Min Relative Humidity (%)	93	90	84	78	86
	Wind speed (kmph)	11	7	11	11	11
	Wind direction (deg)	120	180	140	160	180
KODERMA	Rainfall (mm)	5	6	10	12	10
	Max Temperature (deg C)	30	29	29	30	29
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	6	6	6	7	6
	Max Relative Humidity (%)	97	99	98	98	97
	Min Relative Humidity (%)	86	90	81	87	86
	Wind speed (kmph)	11	7	11	11	7
	Wind direction (deg)	120	130	150	170	180

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

DISTRICTS		FORECAST				
		DAY-1 31-07-10	DAY-2 01-08-10	DAY-3 02-08-10	DAY-4 03-08-10	DAY-5 04-08-10
WEST SINGBHUM	Rainfall (mm)	8	15	15	12	9
	Max Temperature (deg C)	31	31	31	30	31
	Min Temperature (deg C)	24	25	24	24	24
	Total cloud cover (octa)	7	6	6	5	6
	Max Relative Humidity (%)	98	95	97	98	99
	Min Relative Humidity (%)	91	91	84	79	85
	Wind speed (kmph)	4	7	9	6	4
	Wind direction (deg)	230	220	200	190	170
EAST SINGBHUM	Rainfall (mm)	7	10	15	15	10
	Max Temperature (deg C)	31	30	30	30	31
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	98	96	99	98	99
	Min Relative Humidity (%)	88	88	82	79	82
	Wind speed (kmph)	4	2	6	6	4
	Wind direction (deg)	100	180	200	190	90
SARAIKELA	Rainfall (mm)	7	10	15	15	10
	Max Temperature (deg C)	31	30	30	30	31
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	7	6	6	6	6
	Max Relative Humidity (%)	98	96	99	98	99
	Min Relative Humidity (%)	88	88	82	79	82
	Wind speed (kmph)	4	2	6	6	4
	Wind direction (deg)	100	180	200	190	90

B. AGRO-ADVISORIES:-

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

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 piddling. Distance between R x R 20 cm & plant to plant 15 cm @ 2-3 seedling /heel should be maintained.

Mixed cropping :

Farmers are suggested for mixed cropping, which may be followed with Paddy + Maize, Arhar + Maize, Arhar + Urad, Moong, Arhar + Groundnut.

Ragi:

Varieties are : Birsa Marua-2, A-404. Ragi crop should be sown in upland area.

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 hectare. Seed treated with Carbendazim 50% WP or Mencozeb 75% WP- 2gm/kg of seed. Farmers are advised to continue sowing of Urad.

Oilseed

Groundnut: Varieties-AK-12-24, Spanish, Birsabold-1, Birsa G/N-1,2,3, BG-2, J 1-24, Virginia. Seedrate-75 to 80 kg/hect. Fertiliser- Urea- 12 kg, DAP- 112kg MOP-40kg/hect.

Til: Varieties are: Kanke Safed & Krishna. These varieties can be sown till the end of July. Fertilizer dose- urea 40 kg + SSP 25 kg + MOP 14 kg /acre. R x R distance 30 cm & plant to plant 10 cm.

Maize:

After 25-30 days plants should be intercultured. Top dressing with urea 30 kg/acre after tussling 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.

(K. Gari)

Deputy Director (Farm)

State Agriculture Dept, Ranchi.

Forwarded to : Director Agriculture, Ranchi, Jharkhand/Director AIR/Director D.D., Ranchi.

M.C.RANCHI UOI No. RNC-DAAS/II/ /30.07.2010

Forwarded to DDGM (Agrimet), Pune)

M.C.RANCHI UOI No. RNC-DAAS/II/ /30.07.2010

(G.K.Mohanty)

Meteorological Centre, Ranchi

(G.K.Mohanty)

Director