



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

BULLETIN NO. 60

Tuesday, 27th July, 2010

For the period: 28th July to 01st August 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

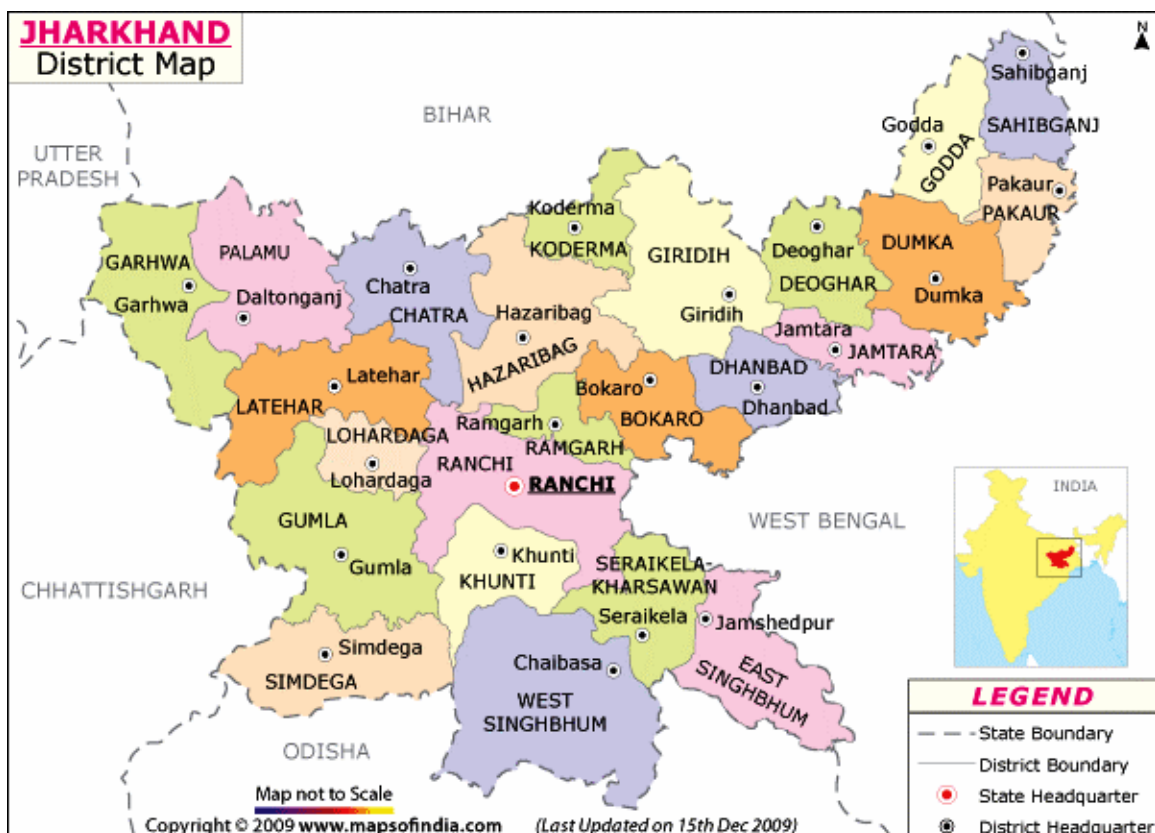
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 27.07.2010
VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 23rd July, 2010:-

Southwest Monsoon was active over Jharkhand on 24th, 26th & 27th. Heavy rainfall occurred at isolated places over Jharkhand on 24th & 27th. Rainfall occurred at most places on 25th & 26th and many places on 24th & 27th in Jharkhand. Chief amount of rainfall reported (in cm): Tamar-5, Namkum-4, Tenughat-7 on 24th and Silli-6, Raidih-5 on 26th & Sonahatu-7 and Mahagama-4 on 27th.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 23rd to 27th July 2010:

Stations ---		Ranchi	Jamshedpur	Daltonganj
Parameters				
Total rainfall (mm)		44.0	30.7	79.0
Max Temp range (° c)		27-33	29-36	29-35
Min Temp range (° c)		22-24	25-26	24-27
Cloud Coverage (octa)		7	7	7
Relative Humidity (%)		60-98	52-97	57-98
Wind Direction/ Speed (kmph)	Morning	Variable	Variable	Calm
		10	05	00
	Evening	Variable	Variable	Calm
		07	06	00

Current synoptic condition:

The axis of Monsoon trough on sea level charts passes through Jaisalmer, Jodhpur, Kota, Guna, Satna, Daltonganj, Puri & thence to southeast Bay across northwest Bay. A cyclonic circulation lies over Jharkhand and adjoining Orissa between 1.5 km & 4.5 km above sea level.

Forecast valid up to 0830 hours IST of 30th July, 2010:-

Rain or Thundershowers would occur at many places over Jharkhand.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 30th July, 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 28-07-10	DAY-2 29-07-10	DAY-3 30-07-10	DAY-4 31-07-10	DAY-5 01-08-10
BOKARO	Rainfall (mm)	7	3	5	7	10
	Max Temperature (deg C)	29	31	32	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	5	6	6	6
	Max Relative Humidity (%)	100	100	97	96	88
	Min Relative Humidity (%)	70	73	77	72	64
	Wind speed (kmph)	7	7	9	9	7
	Wind direction (deg)	120	130	130	150	170
HAZARIBAGH	Rainfall (mm)	8	3	6	6	10
	Max Temperature (deg C)	29	31	32	32	31
	Min Temperature (deg C)	24	24	24	25	25
	Total cloud cover (octa)	6	6	5	6	6
	Max Relative Humidity (%)	98	98	96	94	89
	Min Relative Humidity (%)	69	67	73	68	65
	Wind speed (kmph)	11	9	11	13	7
	Wind direction (deg)	130	140	140	140	160
RAMGARH	Rainfall (mm)	8	3	6	6	10
	Max Temperature (deg C)	29	31	32	32	31
	Min Temperature (deg C)	24	24	24	25	25
	Total cloud cover (octa)	6	6	5	6	6
	Max Relative Humidity (%)	98	98	96	94	89
	Min Relative Humidity (%)	69	67	73	68	65
	Wind speed (kmph)	11	9	11	13	7
	Wind direction (deg)	130	140	140	140	160
CHATRA	Rainfall (mm)	8	3	7	6	8
	Max Temperature (deg C)	29	33	34	33	32
	Min Temperature (deg C)	24	24	25	26	26
	Total cloud cover (octa)	6	5	6	6	6
	Max Relative Humidity (%)	95	93	90	89	84
	Min Relative Humidity (%)	62	59	62	63	67
	Wind speed (kmph)	9	7	9	9	9
	Wind direction (deg)	140	150	150	140	170
RANCHI	Rainfall (mm)	6	3	5	7	9
	Max Temperature (deg C)	29	31	31	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	96	92
	Min Relative Humidity (%)	73	75	79	69	70
	Wind speed (kmph)	6	6	7	11	7
	Wind direction (deg)	120	120	100	140	180
KHUNTI	Rainfall (mm)	6	3	5	7	9
	Max Temperature (deg C)	29	31	31	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	99	96	92
	Min Relative Humidity (%)	73	75	79	69	70
	Wind speed (kmph)	6	6	7	11	7
	Wind direction (deg)	120	120	100	140	180

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 28-07-10	DAY-2 29-07-10	DAY-3 30-07-10	DAY-4 31-07-10	DAY-5 01-08-10
GUMLA	Rainfall (mm)	4	4	4	6	9
	Max Temperature (deg C)	30	31	31	31	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	94	98	96	99	97
	Min Relative Humidity (%)	71	70	80	73	76
	Wind speed (kmph)	2	4	4	11	7
	Wind direction (deg)	110	80	60	150	160
SIMDEGA	Rainfall (mm)	4	4	4	6	9
	Max Temperature (deg C)	30	31	31	31	30
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	94	98	96	99	97
	Min Relative Humidity (%)	71	70	80	73	76
	Wind speed (kmph)	2	4	4	11	7
	Wind direction (deg)	110	80	60	150	160
LOHARDAGA	Rainfall (mm)	4	4	4	6	9
	Max Temperature (deg C)	29	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 (%)	99	100	98	99	95
	Min Relative Humidity (%)	70	70	78	73	74
	Wind speed (kmph)	4	4	6	9	11
	Wind direction (deg)	150	150	140	150	190
PALAMAU	Rainfall (mm)	7	4	7	7	5
	Max Temperature (deg C)	29	34	34	33	33
	Min Temperature (deg C)	25	25	26	26	26
	Total cloud cover (octa)	5	6	6	6	6
	Max Relative Humidity (%)	97	88	85	87	85
	Min Relative Humidity (%)	58	57	65	65	65
	Wind speed (kmph)	4	4	6	7	4
	Wind direction (deg)	120	160	160	120	150
GARHWA	Rainfall (mm)	7	4	9	8	8
	Max Temperature (deg C)	30	33	33	31	32
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	5	6	6	6	6
	Max Relative Humidity (%)	98	91	87	91	91
	Min Relative Humidity (%)	61	61	75	68	74
	Wind speed (kmph)	4	4	4	4	2
	Wind direction (deg)	70	290	220	120	110
LATEHAR	Rainfall (mm)	7	4	9	8	8
	Max Temperature (deg C)	30	33	33	31	32
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	5	6	6	6	6
	Max Relative Humidity (%)	98	91	87	91	91
	Min Relative Humidity (%)	61	61	75	68	74
	Wind speed (kmph)	4	4	4	4	2
	Wind direction (deg)	70	290	220	120	110

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

DISTRICTS		FORECAST				
		DAY-1 28-07-10	DAY-2 29-07-10	DAY-3 30-07-10	DAY-4 31-07-10	DAY-5 01-08-10
SAHEBGANJ	Rainfall (mm)	4	3	6	6	7
	Max Temperature (deg C)	32	33	33	32	31
	Min Temperature (deg C)	25	25	26	26	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	97	95	94	98	98
	Min Relative Humidity (%)	67	68	84	90	77
	Wind speed (kmph)	6	7	9	13	7
	Wind direction (deg)	120	160	140	140	150
GODDA	Rainfall (mm)	5	4	6	5	5
	Max Temperature (deg C)	32	34	34	33	32
	Min Temperature (deg C)	26	26	26	26	26
	Total cloud cover (octa)	4	6	6	6	6
	Max Relative Humidity (%)	96	94	94	97	96
	Min Relative Humidity (%)	66	68	82	85	68
	Wind speed (kmph)	6	6	9	13	9
	Wind direction (deg)	100	140	130	130	130
PAKUR	Rainfall (mm)	4	3	5	9	9
	Max Temperature (deg C)	31	33	33	32	30
	Min Temperature (deg C)	25	25	26	26	26
	Total cloud cover (octa)	4	6	6	6	6
	Max Relative Humidity (%)	98	96	94	99	96
	Min Relative Humidity (%)	68	74	85	85	74
	Wind speed (kmph)	6	7	7	15	9
	Wind direction (deg)	100	160	140	140	160
DUMKA	Rainfall (mm)	6	3	5	8	9
	Max Temperature (deg C)	31	33	32	32	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	4	6	6	6	6
	Max Relative Humidity (%)	99	98	96	98	96
	Min Relative Humidity (%)	70	77	82	81	71
	Wind speed (kmph)	7	7	9	15	9
	Wind direction (deg)	110	150	130	140	160
DEOGHAR	Rainfall (mm)	9	4	4	8	9
	Max Temperature (deg C)	30	32	32	31	31
	Min Temperature (deg C)	24	25	25	25	25
	Total cloud cover (octa)	6	6	6	5	6
	Max Relative Humidity (%)	100	99	97	97	96
	Min Relative Humidity (%)	72	76	79	71	67
	Wind speed (kmph)	11	11	11	13	11
	Wind direction (deg)	120	150	140	140	160
GIRIDIH	Rainfall (mm)	5	3	5	8	11
	Max Temperature (deg C)	30	31	32	31	31
	Min Temperature (deg C)	24	24	24	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	99	97	97	95
	Min Relative Humidity (%)	71	73	78	71	65
	Wind speed (kmph)	11	11	11	13	9
	Wind direction (deg)	130	150	140	140	150

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 28-07-10	DAY-2 29-07-10	DAY-3 30-07-10	DAY-4 31-07-10	DAY-5 01-08-10
DHANBAD	Rainfall (mm)	5	3	4	7	9
	Max Temperature (deg C)	31	32	31	31	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	98	97	95
	Min Relative Humidity (%)	73	76	78	73	71
	Wind speed (kmph)	9	9	7	11	7
	Wind direction (deg)	120	130	120	140	150
JAMTARA	Rainfall (mm)	5	3	4	7	9
	Max Temperature (deg C)	31	32	31	31	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	98	97	95
	Min Relative Humidity (%)	73	76	78	73	71
	Wind speed (kmph)	9	9	7	11	7
	Wind direction (deg)	120	130	120	140	150
KODERMA	Rainfall (mm)	5	4	6	7	6
	Max Temperature (deg C)	30	31	32	31	31
	Min Temperature (deg C)	24	24	24	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	98	95	94	90
	Min Relative Humidity (%)	70	69	73	67	66
	Wind speed (kmph)	11	9	13	15	11
	Wind direction (deg)	140	150	150	140	150

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

DISTRICTS		FORECAST				
		DAY-1 28-07-10	DAY-2 29-07-10	DAY-3 30-07-10	DAY-4 31-07-10	DAY-5 01-08-10
WEST SINGBHUM	Rainfall (mm)	6	4	3	5	8
	Max Temperature (deg C)	29	31	31	31	32
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	96	98	99	90	92
	Min Relative Humidity (%)	77	73	80	69	72
	Wind speed (kmph)	4	4	4	9	7
	Wind direction (deg)	80	130	70	160	180
EAST SINGBHUM	Rainfall (mm)	8	4	3	5	7
	Max Temperature (deg C)	30	31	31	31	33
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	5	6	6	6
	Max Relative Humidity (%)	99	100	96	91	90
	Min Relative Humidity (%)	78	74	78	71	71
	Wind speed (kmph)	6	4	7	6	4
	Wind direction (deg)	90	100	110	130	170
SARAIKELA	Rainfall (mm)	8	4	3	5	7
	Max Temperature (deg C)	30	31	31	31	33
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	5	6	6	6
	Max Relative Humidity (%)	99	100	96	91	90
	Min Relative Humidity (%)	78	74	78	71	71
	Wind speed (kmph)	6	4	7	6	4
	Wind direction (deg)	90	100	110	130	170

B. AGRO-ADVISORIES:-

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

Paddy:

Seedling of 15-20days should be transplanted immediately. For low land half dose of urea i.e. 42 kg, full dose of SSP i.e. 52kg & full dose of MOP i.e. 27 kg / acre after puddling. R x R 20 cm & plant to plant 15 cm. to maintain 2-3 seedling /heel.

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 hectore. Seed treated with Carbendyzine 50% WP or Mencozeb 75% WP- 2gm/kg of seed.

Oilseed

Groundnut: Varieties-AK-12-24, Spanish, Birsabold-1, Birsa G/N-1,2,3, BG-2, JI-24, Varginia. Seedrate-75to80kg/hect. Fertiliser-Urea-12kg, 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.

(S.Hembrom)

Deputy Director Plant Protection)
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/ /27.07.2010

Forwarded to DDGM (Agrimet), Pune)
M.C.RANCHI UOI No. RNC-DAAS/II/ /27.07.2010

(G.K.Mohanty)
Director