



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

BULLETIN NO. 59

Friday, 23rd July, 2010

For the period: 24th to 28th July 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

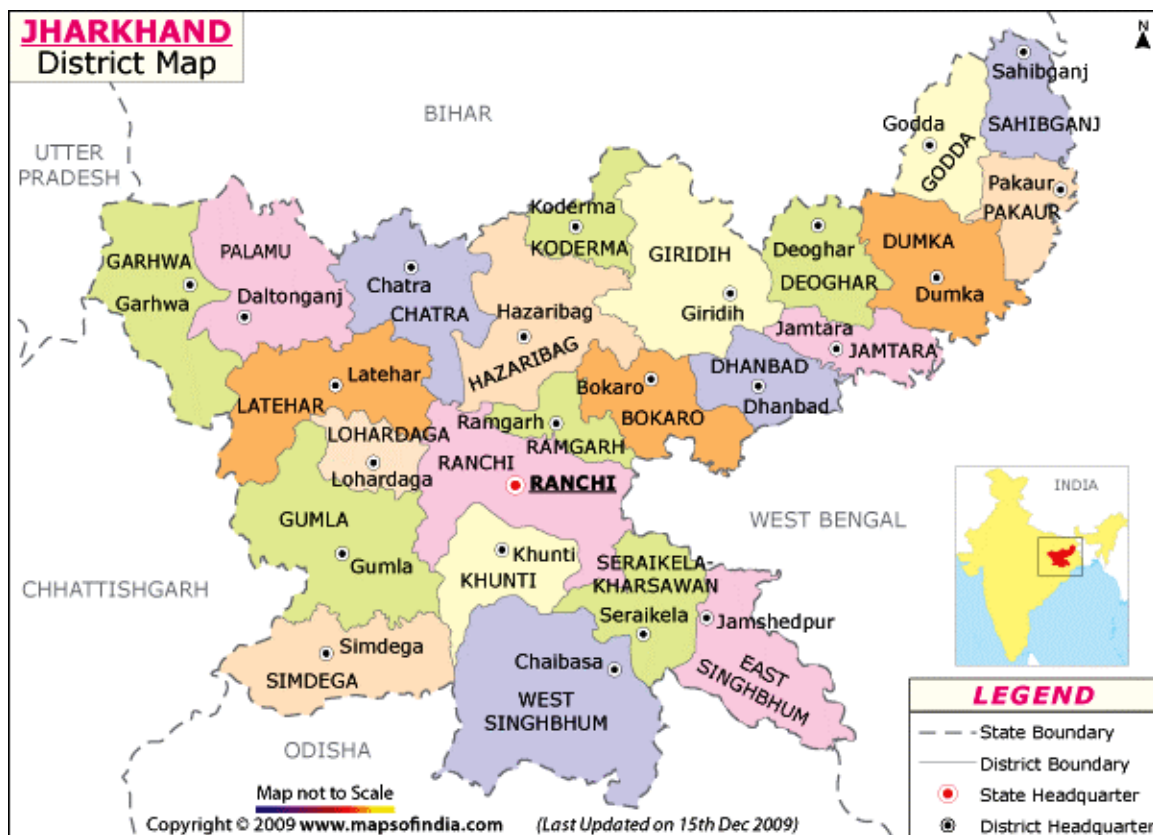
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 23.07.2010
VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 20th July, 2010:-

Rainfall occurred at an isolated place in Jharkhand during 20th to 23rd July, 2010.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 20th to 23rd July 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	0.0	Trace	37.4
Max Temp range (° c)	31-32	34-36	35
Min Temp range (° c)	24-25	26	27
Cloud Coverage (octa)	6	6	6
Relative Humidity (%)	57-95	46-92	53-92
Wind Direction/ Speed (kmph)	Morning	Southerly	Easterly
		05	04
	Evening	Southerly	Variable
		09	09
		00	00

Current synoptic condition:

The axis of Monsoon trough on sea level charts passes through Jodhpur, Sawaimadhopur, Jhansi, Gaya, Bankura, Diamondharbour & thence to northeast Bay across north Bay. A cyclonic circulation lies over Bihar and neighbourhood.

Forecast valid up to 0830 hours IST of 26th July, 2010:-

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

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 26th 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 24-07-10	DAY-2 25-07-10	DAY-3 26-07-10	DAY-4 27-07-10	DAY-5 28-07-10
BOKARO	Rainfall (mm)	11	15	14	15	7
	Max Temperature (deg C)	31	28	29	28	28
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	8	8	8	8	0
	Max Relative Humidity (%)	98	100	99	99	90
	Min Relative Humidity (%)	87	91	98	78	62
	Wind speed (kmph)	4	15	24	17	4
	Wind direction (deg)	250	80	80	130	230
HAZARIBAGH	Rainfall (mm)	10	15	10	10	5
	Max Temperature (deg C)	33	32	32	32	32
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	7	7	7	6	5
	Max Relative Humidity (%)	99	99	97	97	86
	Min Relative Humidity (%)	89	87	97	76	63
	Wind speed (kmph)	4	13	24	19	4
	Wind direction (deg)	310	80	90	140	230
RAMGARH	Rainfall (mm)	10	15	10	10	5
	Max Temperature (deg C)	33	32	32	32	32
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	7	7	7	6	5
	Max Relative Humidity (%)	99	99	97	97	86
	Min Relative Humidity (%)	89	87	97	76	63
	Wind speed (kmph)	4	13	24	19	4
	Wind direction (deg)	310	80	90	140	230
CHATRA	Rainfall (mm)	5	12	10	5	7
	Max Temperature (deg C)	34	34	33	32	32
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	6	6	6	6	4
	Max Relative Humidity (%)	99	99	89	92	83
	Min Relative Humidity (%)	86	77	87	64	62
	Wind speed (kmph)	7	11	19	19	4
	Wind direction (deg)	270	70	90	140	220
RANCHI	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	32	31	30	29	29
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	99	98	88
	Min Relative Humidity (%)	85	95	98	72	63
	Wind speed (kmph)	6	15	22	15	7
	Wind direction (deg)	300	60	80	150	240
KHUNTI	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	32	31	30	29	29
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	99	98	88
	Min Relative Humidity (%)	85	95	98	72	63
	Wind speed (kmph)	6	15	22	15	7
	Wind direction (deg)	300	60	80	150	240

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 24-07-10	DAY-2 25-07-10	DAY-3 26-07-10	DAY-4 27-07-10	DAY-5 28-07-10
GUMLA	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	34	34	33	32	32
	Min Temperature (deg C)	24	25	24	23	23
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	98	97	98	96	92
	Min Relative Humidity (%)	87	93	93	75	71
	Wind speed (kmph)	7	11	19	15	7
	Wind direction (deg)	290	50	80	160	260
SIMDEGA	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	34	34	33	32	32
	Min Temperature (deg C)	24	25	24	23	23
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	98	97	98	96	92
	Min Relative Humidity (%)	87	93	93	75	71
	Wind speed (kmph)	7	11	19	15	7
	Wind direction (deg)	290	50	80	160	260
LOHARDAGA	Rainfall (mm)	8	15	12	8	7
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	25	24	24	24	24
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	98	99	98	99	94
	Min Relative Humidity (%)	87	90	97	75	68
	Wind speed (kmph)	4	13	20	20	7
	Wind direction (deg)	310	50	90	160	220
PALAMAU	Rainfall (mm)	5	15	10	5	7
	Max Temperature (deg C)	36	36	35	35	34
	Min Temperature (deg C)	26	25	25	25	25
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	87	90	81
	Min Relative Humidity (%)	92	75	83	61	63
	Wind speed (kmph)	7	11	19	15	4
	Wind direction (deg)	250	50	90	130	210
GARHWA	Rainfall (mm)	5	15	10	5	7
	Max Temperature (deg C)	36	36	35	35	34
	Min Temperature (deg C)	26	25	25	25	25
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	96	99	90	94	81
	Min Relative Humidity (%)	90	82	82	62	65
	Wind speed (kmph)	7	13	19	13	7
	Wind direction (deg)	230	50	80	120	230
LATEHAR	Rainfall (mm)	5	15	10	5	7
	Max Temperature (deg C)	36	36	35	35	34
	Min Temperature (deg C)	26	25	25	25	25
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	96	99	90	94	81
	Min Relative Humidity (%)	90	82	82	62	65
	Wind speed (kmph)	7	13	19	13	7
	Wind direction (deg)	230	50	80	120	230

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

DISTRICTS		FORECAST				
		DAY-1 24-07-10	DAY-2 25-07-10	DAY-3 26-07-10	DAY-4 27-07-10	DAY-5 28-07-10
SAHEBGANJ	Rainfall (mm)	5	10	6	5	6
	Max Temperature (deg C)	35	35	35	34	33
	Min Temperature (deg C)	26	26	25	25	25
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	100	98	93	96	100
	Min Relative Humidity (%)	89	82	86	91	68
	Wind speed (kmph)	7	15	19	19	4
	Wind direction (deg)	100	100	100	100	110
GODDA	Rainfall (mm)	5	15	10	5	7
	Max Temperature (deg C)	36	36	35	35	34
	Min Temperature (deg C)	26	26	26	25	25
	Total cloud cover (octa)	6	7	6	6	6
	Max Relative Humidity (%)	99	98	92	95	100
	Min Relative Humidity (%)	85	78	87	86	68
	Wind speed (kmph)	7	15	20	22	4
	Wind direction (deg)	100	90	100	100	100
PAKUR	Rainfall (mm)	5	10	6	5	6
	Max Temperature (deg C)	35	34	33	33	31
	Min Temperature (deg C)	26	25	25	25	24
	Total cloud cover (octa)	6	6	6	5	4
	Max Relative Humidity (%)	100	99	94	97	99
	Min Relative Humidity (%)	92	83	86	89	72
	Wind speed (kmph)	6	15	19	20	4
	Wind direction (deg)	90	100	100	100	120
DUMKA	Rainfall (mm)	5	10	6	5	6
	Max Temperature (deg C)	34	33	32	32	30
	Min Temperature (deg C)	26	25	25	25	24
	Total cloud cover (octa)	6	7	6	6	5
	Max Relative Humidity (%)	100	100	96	99	100
	Min Relative Humidity (%)	92	84	91	86	69
	Wind speed (kmph)	4	17	22	19	2
	Wind direction (deg)	120	100	100	110	120
DEOGHAR	Rainfall (mm)	10	15	9	10	7
	Max Temperature (deg C)	33	32	32	32	32
	Min Temperature (deg C)	25	25	25	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	100	96	99	100
	Min Relative Humidity (%)	86	83	90	89	67
	Wind speed (kmph)	4	15	22	15	2
	Wind direction (deg)	180	90	100	130	140
GIRIDIH	Rainfall (mm)	10	15	9	10	7
	Max Temperature (deg C)	33	32	33	33	31
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	100	96	98	100
	Min Relative Humidity (%)	85	84	92	88	63
	Wind speed (kmph)	4	15	22	19	4
	Wind direction (deg)	120	90	100	130	150

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 24-07-10	DAY-2 25-07-10	DAY-3 26-07-10	DAY-4 27-07-10	DAY-5 28-07-10
DHANBAD	Rainfall (mm)	5	10	6	5	6
	Max Temperature (deg C)	34	34	33	33	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	97	99	100
	Min Relative Humidity (%)	84	85	96	89	66
	Wind speed (kmph)	2	15	22	15	2
	Wind direction (deg)	100	80	90	110	110
JAMTARA	Rainfall (mm)	5	10	6	5	6
	Max Temperature (deg C)	34	34	33	33	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	100	99	97	99	100
	Min Relative Humidity (%)	84	85	96	89	66
	Wind speed (kmph)	2	15	22	15	2
	Wind direction (deg)	100	80	90	110	110
KODERMA	Rainfall (mm)	9	12	9	16	7
	Max Temperature (deg C)	33	33	32	32	31
	Min Temperature (deg C)	25	25	24	23	23
	Total cloud cover (octa)	6	6	6	6	5
	Max Relative Humidity (%)	99	99	94	98	98
	Min Relative Humidity (%)	90	83	91	81	64
	Wind speed (kmph)	4	15	22	24	4
	Wind direction (deg)	300	100	100	130	190

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

DISTRICTS		FORECAST				
		DAY-1 24-07-10	DAY-2 25-07-10	DAY-3 26-07-10	DAY-4 27-07-10	DAY-5 28-07-10
WEST SINGBHUM	Rainfall (mm)	6	15	15	15	5
	Max Temperature (deg C)	34	33	33	32	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	99	97	89
	Min Relative Humidity (%)	92	93	92	74	68
	Wind speed (kmph)	7	11	13	7	4
	Wind direction (deg)	260	70	70	130	250
EAST SINGBHUM	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	34	34	33	32	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	98	99	91
	Min Relative Humidity (%)	87	96	98	77	62
	Wind speed (kmph)	6	13	20	9	4
	Wind direction (deg)	280	80	100	120	250
SARAIKELA	Rainfall (mm)	10	15	15	15	5
	Max Temperature (deg C)	34	34	33	32	32
	Min Temperature (deg C)	25	25	24	24	24
	Total cloud cover (octa)	6	7	6	6	4
	Max Relative Humidity (%)	97	99	98	99	91
	Min Relative Humidity (%)	87	96	98	77	62
	Wind speed (kmph)	6	13	20	9	4
	Wind direction (deg)	280	80	100	120	250

B. AGRO-ADVISORIES:-

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

Paddy:

Varieties: For Upland- a. Birsa Gora b. Birsa Vikash Dhan-109/110 c. Bandana d. Anjali. For Medium Land- a. IR-36 b. IR-64 c. Lalat d. MTU-1010 e. Abhishek f. Navin. For Low land- Shankar Dhan-KRH-2. Nursery: For 1000 sq.mts. fertilizer dose, Urea-2kg, SSP-6.25kg MOP-1.4 kg. Seed Rat: for direct sowing 100kg/hectare, for planting, 40-50kg/hect. Seed Treatment: Treated with Carbendazim 50% WP or Mancozeb 75% WP-2gm/kg of seed in 1 lt. of water. Long duration varieties are not advised to sown. Those farmers who have not sown the Paddy are suggested to sown short duration crop of paddy and may be suggested to direct sowing of these varieties. After 15- 20 days sowing of Paddy farmers are advised to give urea @ 2 kg/100Sq. mts.

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.

Ginger/Turmeric/Oal:

Farmers are suggested to seed treatment with Mancozeb 45% w.p. or Trichoderma Viridi 5 gm will be pasted in 1 kg. of Ginger, Turmeric or Oal. For one acre 8 quintal seed will be required, 80 Quintal compost + 80 Kg. urea + 120 kg SSP and 40 kg murate of Potash.

New Orchard:

For plantation of Mango, Guava, Lichi pit should be dug before onset of Monsoon. For Mango & Lichi distance between plant to plant should be 8 X 8 mts for Amrapali 5 X 5 mts. and that for Guava 6 X 6 mts. Pit should be covered with soil and the required amount of compost & chemical fertilizer. For one year plant of Mango, Lichi & Guava per pit compost 10 kg.+ Urea 200gm.+ SSP 150gm+MOP 100gm should be given.

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.

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.

Maize:

Varieties are Swan composit-1, HQPN-1 (100 days), Birsa Maize -1 (80-85 days), Birsa Vikash Maize -2 (70-75 days). Fertilizer Dose: Compost – 100 to 150 quintal per hectare, Urea- 80 kg, DAP-130 kg, MOP- 68 kg per hectare. Seed should be treated with carbendazim 2 gm/kg of seed. After 15-20 days of sowing spray with Furadan @ 10-15 grains per cop.

Papaya:

Varities are: Pusa Majestic, Pusa Dwarf, Pusa Nanha, Pusa Giant, Pusa delicious, Kurg Honeydew. Distance between plant to plant should be 1.8 mts. & RxR 1.8 mts. Pit dimension should be maintained 0.5 x 0.5 x 0.5 mts. Pit should be covered with soil and the required amount of compost & chemical fertilizer.

(K. Gari)
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/ /23.07.2010

Forwarded to DDGM (Agrimet), Pune)
M.C.RANCHI UOI No. RNC-DAAS/II/ /23.07.2010

(G.K.Mohanty)
Director