



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

BULLETIN NO. 53

Friday, 02nd July, 2010

For the period: 03rd to 07th July 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

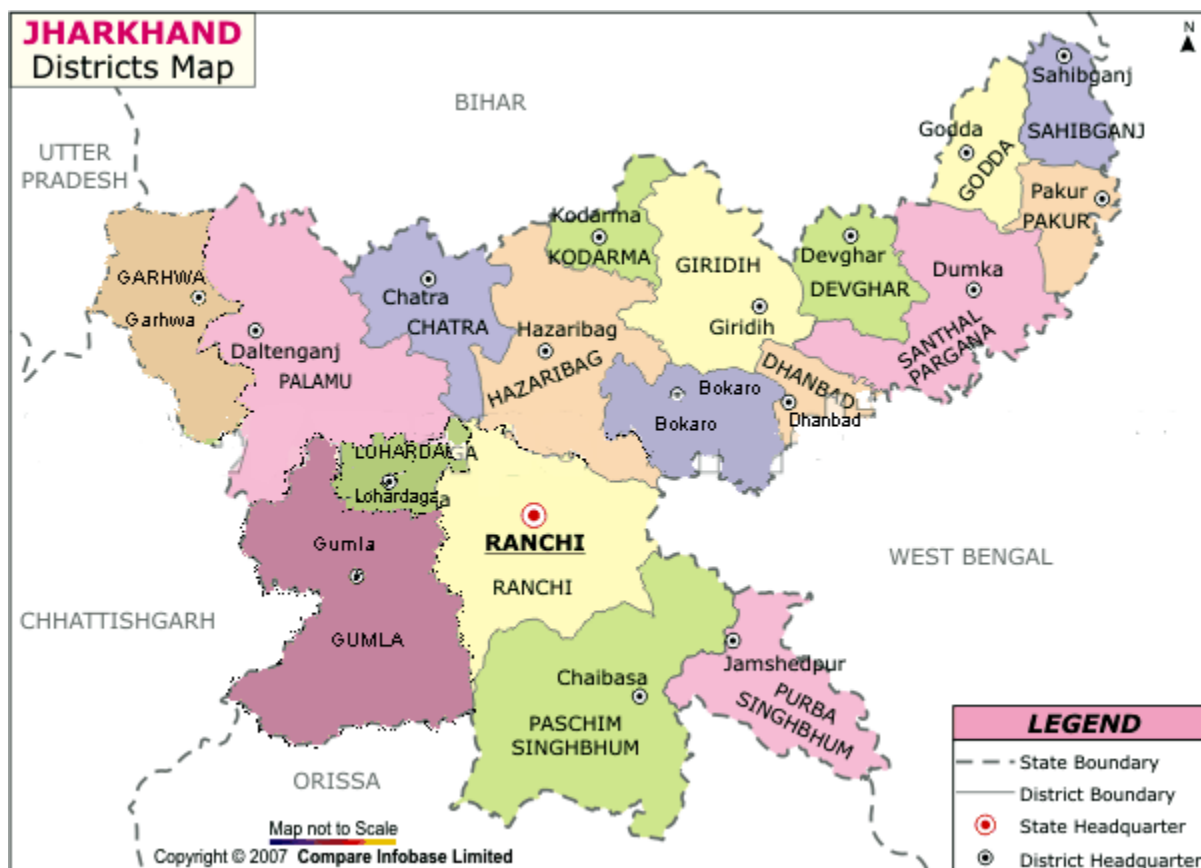
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 02.07.2010
VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 29th June, 2010:-

Light to moderate rainfall occurred at few places during 30th June to 02nd July, 2010 over Jharkhand.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 30th June to 02nd July 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	7.1	6.3	Trace
Max Temp range (° c)	31-35	34-39	37-40
Min Temp range (° c)	23-24	26	29-30
Cloud Coverage (octa)	6	7	5
Relative Humidity (%)	62-97	45-87	35-71
Wind Direction/ Speed (kmph)	Morning	Variable	Variable
		05	04
	Evening	Variable	Variable
		04	07
		Westerly	04
		North Easterly	05

Current synoptic condition:

A trough of low pressure area from East Rajasthan to North Bay across UP, Jharkhand, North Orissa persists.

Forecast valid up to 0830 hours IST of 05th July, 2010:-

Rain or Thundershowers would occur at a few places over Jharkhand.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 05th 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 03-07-10	DAY-2 04-07-10	DAY-3 05-07-10	DAY-4 06-07-10	DAY-5 07-07-10
BOKARO	Rainfall (mm)	10	7	5	4	11
	Max Temperature (deg C)	31	31	32	32	31
	Min Temperature (deg C)	24	24	25	25	24
	Total cloud cover (octa)	6	6	7	5	3
	Max Relative Humidity (%)	99	96	92	93	99
	Min Relative Humidity (%)	77	67	74	79	68
	Wind speed (kmph)	15	9	6	4	6
	Wind direction (deg)	130	130	200	210	190
HAZARIBAGH	Rainfall (mm)	11	7	4	9	11
	Max Temperature (deg C)	32	32	32	31	31
	Min Temperature (deg C)	25	24	24	25	24
	Total cloud cover (octa)	6	6	6	4	5
	Max Relative Humidity (%)	97	95	90	93	98
	Min Relative Humidity (%)	74	62	73	76	74
	Wind speed (kmph)	17	13	7	6	7
	Wind direction (deg)	130	140	210	250	220
RAMGARH	Rainfall (mm)	11	7	4	9	11
	Max Temperature (deg C)	32	32	32	31	31
	Min Temperature (deg C)	25	24	24	25	24
	Total cloud cover (octa)	6	6	6	4	5
	Max Relative Humidity (%)	97	95	90	93	98
	Min Relative Humidity (%)	74	62	73	76	74
	Wind speed (kmph)	17	13	7	6	7
	Wind direction (deg)	130	140	210	250	220
CHATRA	Rainfall (mm)	10	6	4	8	7
	Max Temperature (deg C)	29	34	34	32	30
	Min Temperature (deg C)	25	25	26	25	25
	Total cloud cover (octa)	4	3	7	1	4
	Max Relative Humidity (%)	91	87	85	88	96
	Min Relative Humidity (%)	61	55	70	73	69
	Wind speed (kmph)	13	11	7	6	7
	Wind direction (deg)	130	140	200	240	200
RANCHI	Rainfall (mm)	10	10	5	5	5
	Max Temperature (deg C)	30	31	31	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	7	7	6	6
	Max Relative Humidity (%)	99	96	93	95	99
	Min Relative Humidity (%)	74	67	74	78	71
	Wind speed (kmph)	13	11	9	7	7
	Wind direction (deg)	130	140	220	230	230
KHUNTI	Rainfall (mm)	10	10	5	5	5
	Max Temperature (deg C)	30	31	31	31	31
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	7	7	7	6	6
	Max Relative Humidity (%)	99	96	93	95	99
	Min Relative Humidity (%)	74	67	74	78	71
	Wind speed (kmph)	13	11	9	7	7
	Wind direction (deg)	130	140	220	230	230

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 03-07-10	DAY-2 04-07-10	DAY-3 05-07-10	DAY-4 06-07-10	DAY-5 07-07-10
GUMLA	Rainfall (mm)	10	10	5	6	6
	Max Temperature (deg C)	36	36	36	35	35
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	96	98	99	99
	Min Relative Humidity (%)	73	82	80	75	74
	Wind speed (kmph)	11	9	7	6	6
	Wind direction (deg)	110	120	220	240	210
SIMDEGA	Rainfall (mm)	10	10	5	6	6
	Max Temperature (deg C)	36	36	36	35	35
	Min Temperature (deg C)	24	24	24	24	24
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	98	96	98	99	99
	Min Relative Humidity (%)	73	82	80	75	74
	Wind speed (kmph)	11	9	7	6	6
	Wind direction (deg)	110	120	220	240	210
LOHARDAGA	Rainfall (mm)	10	10	3	5	10
	Max Temperature (deg C)	28	30	30	30	28
	Min Temperature (deg C)	23	23	23	23	23
	Total cloud cover (octa)	6	6	6	3	7
	Max Relative Humidity (%)	100	96	93	98	98
	Min Relative Humidity (%)	71	69	72	75	75
	Wind speed (kmph)	15	13	9	4	7
	Wind direction (deg)	130	150	220	230	220
PALAMAU	Rainfall (mm)	10	7	4	10	10
	Max Temperature (deg C)	36	36	36	35	35
	Min Temperature (deg C)	27	27	27	27	27
	Total cloud cover (octa)	4	4	3	3	6
	Max Relative Humidity (%)	88	82	80	90	96
	Min Relative Humidity (%)	56	51	66	67	66
	Wind speed (kmph)	9	7	6	7	7
	Wind direction (deg)	110	130	220	230	220
GARHWA	Rainfall (mm)	8	8	6	6	9
	Max Temperature (deg C)	35	36	35	35	34
	Min Temperature (deg C)	26	26	27	26	26
	Total cloud cover (octa)	3	3	5	6	6
	Max Relative Humidity (%)	91	83	78	92	96
	Min Relative Humidity (%)	49	46	62	61	64
	Wind speed (kmph)	7	6	9	9	7
	Wind direction (deg)	80	100	240	240	230
LATEHAR	Rainfall (mm)	8	8	6	6	9
	Max Temperature (deg C)	35	36	35	35	34
	Min Temperature (deg C)	26	26	27	26	26
	Total cloud cover (octa)	3	3	5	6	6
	Max Relative Humidity (%)	91	83	78	92	96
	Min Relative Humidity (%)	49	46	62	61	64
	Wind speed (kmph)	7	6	9	9	7
	Wind direction (deg)	80	100	240	240	230

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

DISTRICTS		FORECAST				
		DAY-1 03-07-10	DAY-2 04-07-10	DAY-3 05-07-10	DAY-4 06-07-10	DAY-5 07-07-10
SAHEBGANJ	Rainfall (mm)	9	5	5	5	5
	Max Temperature (deg C)	33	33	33	33	32
	Min Temperature (deg C)	25	25	26	26	26
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	99	97	94	92	97
	Min Relative Humidity (%)	87	86	69	84	66
	Wind speed (kmph)	13	9	9	9	7
	Wind direction (deg)	120	140	180	160	160
GODDA	Rainfall (mm)	9	5	5	5	5
	Max Temperature (deg C)	33	33	33	33	32
	Min Temperature (deg C)	25	26	26	26	26
	Total cloud cover (octa)	6	5	7	7	4
	Max Relative Humidity (%)	98	97	93	94	98
	Min Relative Humidity (%)	84	81	72	88	73
	Wind speed (kmph)	15	9	7	7	7
	Wind direction (deg)	110	120	160	140	140
PAKUR	Rainfall (mm)	10	6	3	5	8
	Max Temperature (deg C)	33	33	33	33	32
	Min Temperature (deg C)	25	25	25	26	26
	Total cloud cover (octa)	6	5	6	7	5
	Max Relative Humidity (%)	99	97	94	93	98
	Min Relative Humidity (%)	83	84	67	87	66
	Wind speed (kmph)	15	9	9	7	11
	Wind direction (deg)	120	140	190	170	170
DUMKA	Rainfall (mm)	10	5	3	4	8
	Max Temperature (deg C)	32	32	32	33	31
	Min Temperature (deg C)	25	25	25	26	25
	Total cloud cover (octa)	7	5	5	5	8
	Max Relative Humidity (%)	99	97	95	94	99
	Min Relative Humidity (%)	82	79	68	89	71
	Wind speed (kmph)	15	11	9	9	11
	Wind direction (deg)	120	140	180	170	160
DEOGHAR	Rainfall (mm)	10	6	3	5	9
	Max Temperature (deg C)	32	32	32	32	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	7	5	3	5
	Max Relative Humidity (%)	99	97	96	95	99
	Min Relative Humidity (%)	82	75	72	82	75
	Wind speed (kmph)	17	13	9	7	7
	Wind direction (deg)	120	140	180	180	160
GIRIDIH	Rainfall (mm)	10	6	5	5	10
	Max Temperature (deg C)	32	32	32	32	30
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	4	5
	Max Relative Humidity (%)	99	96	93	95	99
	Min Relative Humidity (%)	81	69	76	80	74
	Wind speed (kmph)	17	13	7	6	7
	Wind direction (deg)	120	140	180	200	160

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 03-07-10	DAY-2 04-07-10	DAY-3 05-07-10	DAY-4 06-07-10	DAY-5 07-07-10
DHANBAD	Rainfall (mm)	10	5	5	5	9
	Max Temperature (deg C)	33	32	32	33	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	7	7	7	4	6
	Max Relative Humidity (%)	99	95	93	95	100
	Min Relative Humidity (%)	80	74	69	80	69
	Wind speed (kmph)	15	11	7	7	7
	Wind direction (deg)	120	140	190	180	150
JAMTARA	Rainfall (mm)	10	5	5	5	9
	Max Temperature (deg C)	33	32	32	33	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	7	7	7	4	6
	Max Relative Humidity (%)	99	95	93	95	100
	Min Relative Humidity (%)	80	74	69	80	69
	Wind speed (kmph)	15	11	7	7	7
	Wind direction (deg)	120	140	190	180	150
KODERMA	Rainfall (mm)	10	5	5	9	12
	Max Temperature (deg C)	32	32	32	32	30
	Min Temperature (deg C)	25	25	25	25	24
	Total cloud cover (octa)	7	7	7	4	4
	Max Relative Humidity (%)	97	94	88	91	98
	Min Relative Humidity (%)	78	64	74	76	72
	Wind speed (kmph)	19	13	7	4	7
	Wind direction (deg)	120	140	190	240	180

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

DISTRICTS		FORECAST				
		DAY-1 03-07-10	DAY-2 04-07-10	DAY-3 05-07-10	DAY-4 06-07-10	DAY-5 07-07-10
WEST SINGBHUM	Rainfall (mm)	10	10	5	5	6
	Max Temperature (deg C)	32	32	32	32	30
	Min Temperature (deg C)	25	24	25	25	24
	Total cloud cover (octa)	7	7	4	2	5
	Max Relative Humidity (%)	95	92	94	96	99
	Min Relative Humidity (%)	73	74	80	78	70
	Wind speed (kmph)	9	7	6	4	4
	Wind direction (deg)	130	140	200	210	220
EAST SINGBHUM	Rainfall (mm)	10	7	5	4	8
	Max Temperature (deg C)	31	32	32	33	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	97	97	91	92	98
	Min Relative Humidity (%)	77	69	71	76	75
	Wind speed (kmph)	11	11	4	4	4
	Wind direction (deg)	120	130	180	210	140
SARAIKELA	Rainfall (mm)	10	7	5	4	8
	Max Temperature (deg C)	31	32	32	33	31
	Min Temperature (deg C)	25	25	25	25	25
	Total cloud cover (octa)	6	6	6	6	6
	Max Relative Humidity (%)	97	97	91	92	98
	Min Relative Humidity (%)	77	69	71	76	75
	Wind speed (kmph)	11	11	4	4	4
	Wind direction (deg)	120	130	180	210	140

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- a. Swarna(MTU-7029) b. MTU-1001 c. Rajendra Mansoori d. 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/hector, for planting, 40-50kg/hec. Seed Treatment: Treated with Carbondizeium 50% WP or Mancojeb 75% WP-2gm/kg of seed in 1 lt. of water. Long duration varieties are not advised to sown.

Ginger/Turmeric/Oal: Farmers are suggested to seed treatment with Mancojeb 45% w.p. or Trichoderma Viridi 5 gm will 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.

Pulses: Arhar- Varieties- Birsa Arhar-1, Bahar, Upas. Seed rate- 20kg/hec.

Urad- Varieties- T-9, Pant, U-19, Birsa Urad-1. Seed rate- 30kg/hec

Mung- Varieties- K-851, Pusa Visal. Seed rate- 30kg/hec. Fertilizer dose for Pulses-Urea-12kg, DAP-112kg, MOP-40kg per hector. Seed treated with Carbondyzine 50% WP or Mencojob 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/hec. Fertiliser-Urea-12kg,DAP-112kg MOP-40kg/hec

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 carbondazium 2 gm/kg of seed.

Papaya: For plantation of Papaya new nursery should be prepared for seedling. Varieties 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.

Intercropping: Intercropping with Arhar with Groundnut/Paddy/Urad/Maize with distance of R x R 75 cm & plant to plant 25 cm should be maintained. One row of Maize can be sown in between two rows of Arhar.

(K. Gari)

Agriculture Officer

State Agriculture Dept, Ranchi.

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

M.C.RANCHI UOI No. RNC-DAAS/II/ /02.07.2010

Forwarded to DDGM (Agrimet), Pune)

M.C.RANCHI UOI No. RNC-DAAS/II/ /02.07.2010

(G.K. Mohanty)

Director

Meteorological Centre, Ranchi

(G.K. Mohanty)

Director