



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

BULLETIN NO. 78

Tuesday, 28th September, 2010

For the period: 29th September to 03rd October 2010

issued by
Meteorological Centre, Ranchi
INDIA METEOROLOGICAL DEPARTMENT

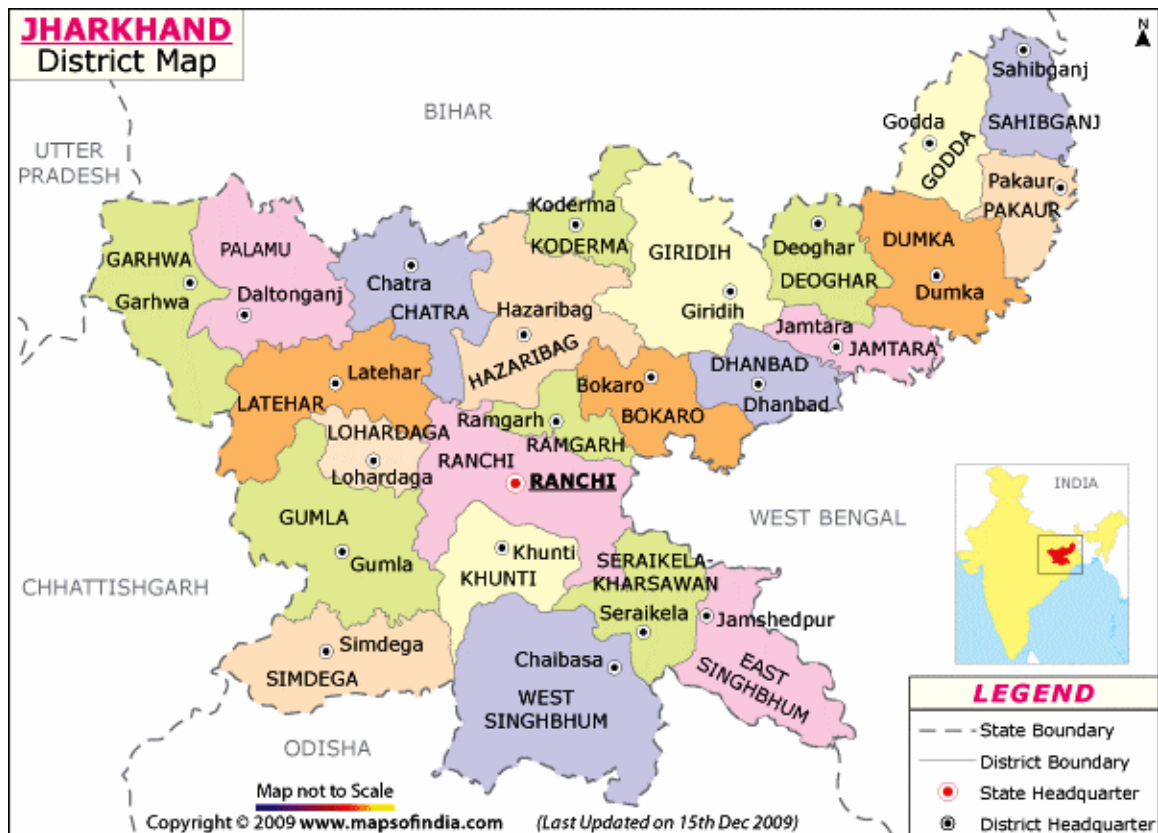
in collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture, Govt. of Jharkhand

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: 28.09.2010

VALID FOR THE NEXT 5 DAYS

Weather Summary for the period since 0830 hours IST of 24th September, 2010:-

Rain or Thundershowers occurred at isolated places during 25th to 28th September, 2010 in Jharkhand.

Summary of observations recorded at Ranchi, Jamshedpur and Daltonganj during 24th to 28th September, 2010:

Stations ---	Ranchi	Jamshedpur	Daltonganj
Parameters			
Total rainfall (mm)	0.8	0.0	0.0
Max Temp range (° c)	30-32	34-35	32-33
Min Temp range (° c)	21-22	24-25	23-25
Cloud Coverage (octa)	3	4	2
Relative Humidity (%)	39-95	45-92	47-96
Wind Direction/ Speed (kmph)	Morning	North	Calm
		04	00
	Evening	North	Calm
		04	00

Current synoptic condition:

Southwest Monsoon has withdrawn from some parts of Punjab, Haryana, Rajasthan & Gujrat on 27.9.10. The trough of low pressure extends from Bihar to north Bay across sub Himalayan West Bengal & Bangladesh..

Forecast valid up to 0830 hours IST of 01st October, 2010:-

Weather will be mainly dry over Jharkhand.

Outlook for subsequent two days w.e.f. 08.30 hrs IST of 01st October, 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 29-09-10	DAY-2 30-09-10	DAY-3 01-10-10	DAY-4 02-10-10	DAY-5 03-10-10
BOKARO	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	30	31	29
	Min Temperature (deg C)	20	20	20	21	22
	Total cloud cover (octa)	0	1	0	6	0
	Max Relative Humidity (%)	82	82	78	84	98
	Min Relative Humidity (%)	53	55	58	83	73
	Wind speed (kmph)	6	6	5	3	2
	Wind direction (deg)	300	310	340	270	290
HAZARIBAGH	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	30	30	30	29
	Min Temperature (deg C)	20	20	21	21	21
	Total cloud cover (octa)	0	0	3	1	1
	Max Relative Humidity (%)	79	70	76	76	95
	Min Relative Humidity (%)	58	56	54	75	74
	Wind speed (kmph)	7	4	6	5	4
	Wind direction (deg)	280	220	100	80	210
RAMGARH	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	30	30	30	29
	Min Temperature (deg C)	20	20	21	21	21
	Total cloud cover (octa)	0	0	3	1	1
	Max Relative Humidity (%)	79	70	76	76	95
	Min Relative Humidity (%)	58	56	54	75	74
	Wind speed (kmph)	7	4	6	5	4
	Wind direction (deg)	280	220	100	80	210
CHATRA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	30	30	31	30
	Min Temperature (deg C)	20	20	21	21	21
	Total cloud cover (octa)	0	4	1	0	1
	Max Relative Humidity (%)	79	78	77	73	92
	Min Relative Humidity (%)	57	55	54	64	75
	Wind speed (kmph)	6	2	6	6	4
	Wind direction (deg)	220	150	120	120	150
RANCHI	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	21	21	21	21	22
	Total cloud cover (octa)	1	1	1	5	5
	Max Relative Humidity (%)	75	78	75	87	99
	Min Relative Humidity (%)	54	55	59	82	76
	Wind speed (kmph)	7	7	7	5	2
	Wind direction (deg)	320	200	160	80	190
KHUNTI	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	21	21	21	21	22
	Total cloud cover (octa)	1	1	1	5	5
	Max Relative Humidity (%)	75	78	75	87	99
	Min Relative Humidity (%)	54	55	59	82	76
	Wind speed (kmph)	7	7	7	5	2
	Wind direction (deg)	320	200	160	80	190

AMFU :RANCHI continued

DISTRICTS		FORECAST				
		DAY-1 29-09-10	DAY-2 30-09-10	DAY-3 01-10-10	DAY-4 02-10-10	DAY-5 03-10-10
GUMLA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	31	31	31	29
	Min Temperature (deg C)	21	20	20	20	22
	Total cloud cover (octa)	0	0	1	6	5
	Max Relative Humidity (%)	83	80	83	85	98
	Min Relative Humidity (%)	51	54	59	78	74
	Wind speed (kmph)	6	7	5	4	4
	Wind direction (deg)	170	130	20	20	20
SIMDEGA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	31	31	31	29
	Min Temperature (deg C)	21	20	20	20	22
	Total cloud cover (octa)	0	0	1	6	5
	Max Relative Humidity (%)	83	80	83	85	98
	Min Relative Humidity (%)	51	54	59	78	74
	Wind speed (kmph)	6	7	5	4	4
	Wind direction (deg)	170	130	20	20	20
LOHARDAGA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	30	29	28	29	27
	Min Temperature (deg C)	19	19	20	19	19
	Total cloud cover (octa)	0	0	2	3	8
	Max Relative Humidity (%)	77	74	75	84	100
	Min Relative Humidity (%)	57	56	55	73	78
	Wind speed (kmph)	8	5	6	6	2
	Wind direction (deg)	320	250	70	80	180
PALAMAU	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	32	33	33	32
	Min Temperature (deg C)	22	23	22	22	22
	Total cloud cover (octa)	0	3	2	1	1
	Max Relative Humidity (%)	81	78	77	76	89
	Min Relative Humidity (%)	55	55	52	61	70
	Wind speed (kmph)	4	3	5	6	4
	Wind direction (deg)	200	190	140	130	160
GARHWA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	20	20	22	21	21
	Total cloud cover (octa)	0	3	1	1	1
	Max Relative Humidity (%)	83	79	71	77	79
	Min Relative Humidity (%)	54	56	53	59	64
	Wind speed (kmph)	4	6	5	8	6
	Wind direction (deg)	250	260	120	80	70
LATEHAR	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	31
	Min Temperature (deg C)	20	20	22	21	21
	Total cloud cover (octa)	0	3	1	1	1
	Max Relative Humidity (%)	83	79	71	77	79
	Min Relative Humidity (%)	54	56	53	59	64
	Wind speed (kmph)	4	6	5	8	6
	Wind direction (deg)	250	260	120	80	70

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

DISTRICTS		FORECAST				
		DAY-1 29-09-10	DAY-2 30-09-10	DAY-3 01-10-10	DAY-4 02-10-10	DAY-5 03-10-10
SAHEBGANJ	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	33	32	32	32	31
	Min Temperature (deg C)	21	21	22	22	23
	Total cloud cover (octa)	0	0	0	1	1
	Max Relative Humidity (%)	74	72	73	91	87
	Min Relative Humidity (%)	56	60	66	70	70
	Wind speed (kmph)	6	6	7	5	2
	Wind direction (deg)	290	300	350	240	300
GODDA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	33	32	31	31	32
	Min Temperature (deg C)	22	22	23	23	23
	Total cloud cover (octa)	0	1	0	0	1
	Max Relative Humidity (%)	82	83	77	87	90
	Min Relative Humidity (%)	59	60	64	66	66
	Wind speed (kmph)	7	4	5	4	3
	Wind direction (deg)	250	270	100	130	270
PAKUR	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	33	32	31	32	30
	Min Temperature (deg C)	22	22	22	22	23
	Total cloud cover (octa)	0	3	0	1	0
	Max Relative Humidity (%)	78	79	81	92	93
	Min Relative Humidity (%)	57	57	67	79	71
	Wind speed (kmph)	7	5	6	2	2
	Wind direction (deg)	320	320	180	140	290
DUMKA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	33	32	31	32	30
	Min Temperature (deg C)	23	22	22	23	23
	Total cloud cover (octa)	0	4	1	3	0
	Max Relative Humidity (%)	80	83	83	93	97
	Min Relative Humidity (%)	59	57	65	82	73
	Wind speed (kmph)	8	5	6	2	2
	Wind direction (deg)	330	330	130	50	310
DEOGHAR	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	30	31	30
	Min Temperature (deg C)	21	20	22	22	22
	Total cloud cover (octa)	0	1	1	5	1
	Max Relative Humidity (%)	82	79	77	89	94
	Min Relative Humidity (%)	63	58	68	78	75
	Wind speed (kmph)	8	5	6	4	0
	Wind direction (deg)	310	330	340	70	280
GIRIDIH	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	30	31	29
	Min Temperature (deg C)	21	21	22	22	22
	Total cloud cover (octa)	0	1	1	4	0
	Max Relative Humidity (%)	84	80	73	88	96
	Min Relative Humidity (%)	62	58	62	78	75
	Wind speed (kmph)	7	5	6	5	2
	Wind direction (deg)	310	320	170	60	280

AMFU : DUMKA continued

DISTRICTS		FORECAST				
		DAY-1 29-09-10	DAY-2 30-09-10	DAY-3 01-10-10	DAY-4 02-10-10	DAY-5 03-10-10
DHANBAD	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	29
	Min Temperature (deg C)	21	21	21	20	23
	Total cloud cover (octa)	0	2	0	7	0
	Max Relative Humidity (%)	85	84	80	91	98
	Min Relative Humidity (%)	57	58	67	87	75
	Wind speed (kmph)	6	6	5	2	2
	Wind direction (deg)	330	350	350	20	330
JAMTARA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	32	31	31	31	29
	Min Temperature (deg C)	21	21	21	20	23
	Total cloud cover (octa)	0	2	0	7	0
	Max Relative Humidity (%)	85	84	80	91	98
	Min Relative Humidity (%)	57	58	67	87	75
	Wind speed (kmph)	6	6	5	2	2
	Wind direction (deg)	330	350	350	20	330
KODERMA	Rainfall (mm)	0	0	0	0	0
	Max Temperature (deg C)	31	30	30	30	29
	Min Temperature (deg C)	20	20	20	20	21
	Total cloud cover (octa)	0	0	0	0	1
	Max Relative Humidity (%)	85	70	77	76	92
	Min Relative Humidity (%)	62	57	52	75	74
	Wind speed (kmph)	6	4	9	8	3
	Wind direction (deg)	260	240	80	100	200

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

DISTRICTS		FORECAST				
		DAY-1 29-09-10	DAY-2 30-09-10	DAY-3 01-10-10	DAY-4 02-10-10	DAY-5 03-10-10
WEST SINGBHUM	Rainfall (mm)	6	0	0	0	0
	Max Temperature (deg C)	31	32	31	32	29
	Min Temperature (deg C)	23	21	21	22	23
	Total cloud cover (octa)	5	2	1	5	7
	Max Relative Humidity (%)	93	92	80	88	99
	Min Relative Humidity (%)	57	55	62	84	77
	Wind speed (kmph)	4	7	7	4	3
	Wind direction (deg)	220	140	50	70	50
EAST SINGBHUM	Rainfall (mm)	3	0	0	0	3
	Max Temperature (deg C)	33	33	34	33	33
	Min Temperature (deg C)	24	23	23	23	23
	Total cloud cover (octa)	3	0	6	6	8
	Max Relative Humidity (%)	92	93	76	96	100
	Min Relative Humidity (%)	59	54	67	84	76
	Wind speed (kmph)	6	6	6	3	2
	Wind direction (deg)	300	330	120	80	120
SARAIKELA	Rainfall (mm)	3	0	0	0	3
	Max Temperature (deg C)	33	33	34	33	33
	Min Temperature (deg C)	24	23	23	23	23
	Total cloud cover (octa)	3	0	6	6	8
	Max Relative Humidity (%)	92	93	76	96	100
	Min Relative Humidity (%)	59	54	67	84	76
	Wind speed (kmph)	6	6	6	3	2
	Wind direction (deg)	300	330	120	80	120

B. AGRO-ADVISORIES:-

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

Contingency plan for Jharkhnad state are

- 1. Toria Varieties of Toria:** T – 9, PT – 303 seed treatment with carbondigene (Bavistin) 2 gm/kg of seed. Seed @ 2 kg/acre. R x R 30 cm.
- 2. Mustard Varieties of Mustard:** Shivani, Pusa Bold, Vardan. Seed @ 2 kg/Acre. Seed to seed 10 cm. Fertilizer: Half dose of Urea i.e. 22 kg + SSP 62 kg + MOP 14 kg. Seed should be treated with chloropyriphos 20 % ec @ 4 – 5 ml/kg of seed In vegetables early crop of Lady finger, Lobia & French Bean are recommended. Preparation of Nursery for Tomato, Cabbage & Cauliflower can also be undertaken.

Paddy:

Spraying with Gavestin 1 gm/litre of water against blast of paddy, if some insects seen in the standing crop chloropyriphos 1 ml/litre of water should be spraying. If there is attack of Gundhibug dusting with chloropyriphos dust or Methylparatheon dust @ 10 kg/Acre.

Vegetable

- 1. Cauliflower:** Varieties are – Pusa Dipawali, Patna Early, Hazipur Agat, Pusa Ketaki, extra early. These varieties should be sown in raised nursery and seed should be treated with Carbondazium 1.5 – 2 gm or Tichogramma 5 gm/kg of seed.
- 2. Pea (For vegetable purpose):** Varieties are – Arkel, Azad Pea. Seed @ 40 kg/Acre. Distance R X R 30 cm & plant to plant 15 cm and seed should be treated with Carbondizyme & Rhyzobium culture.
- 3. Brinjal :** Varieties are: Rajendra Baigan, Rajendra Annapurna, Pant Rituraj, Pant Samrat, Swarn Pratibha & Arka Navanit), Chilibi, Tomato can be planted.
- 4. Potato:** Varieties are: Kufri Chip Sona, Kufri Pokharaj, Kufri Badsah, Kufri Kuber, Kufri Ashok, Kufri Lalima, Kufri Bahar, Altimus Seed @ 8 quintal/acre. Distance R x R 50 cm & plant to plant 20 cm. Fertiliser: Nitrogen – 48 kg, Phosphorus – 40 kg, MOP – 40 kg. Seed should be treated with Diethen M – 45 @ 2.5 gm/litre of water.

Statistics of crop coverage for The state of Jharkhand up to 27.09.2010 (in 000 Hactare) is given below:

Paddy			Maize			Pulses			Oilseed		
Target	Coverage	%	Target	Coverage	%	Target	Coverage	%	Target	Coverage	%
1692.000	713.594	42	280.000	206.210	74	381.000	249.788	66	75.000	38.267	51