



GOVERNMENT OF INDIA
MINISTRY OF EARTH SCIENCE
INDIA METEOROLOGICAL DEPARTMENT

METEOROLOGICAL CENTRE, RANCHI

Gramin Krishi Mausam Sewa

For

JHARKHAND

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Tuesday 25th July, 2017

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INDIA METEOROLOGICAL DEPARTMENT

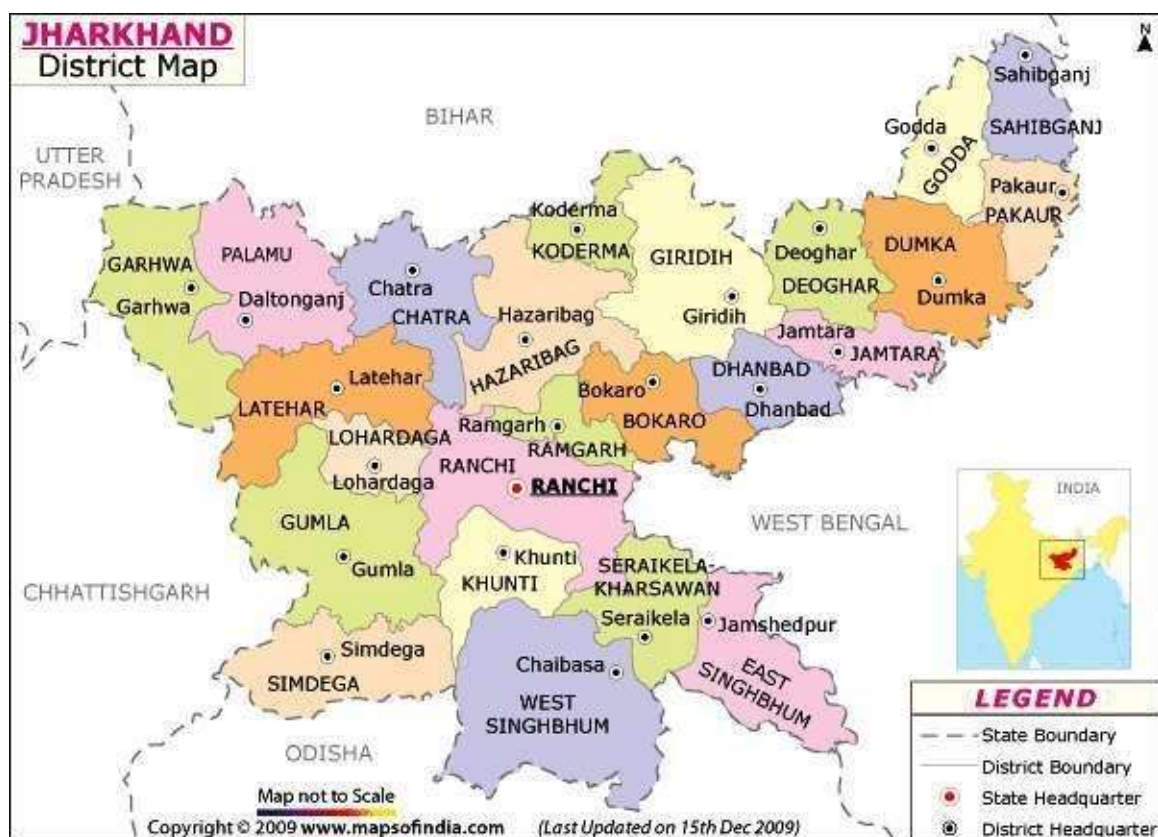
In collaboration with
Birsa Agricultural University, Kanke, Ranchi
&
Department of Agriculture Animal Husbandry & Co-operative
Govt. of Jharkhand

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: 18.07.2017

VALID FOR THE NEXT 5 DAYS

Summary of observations recorded at Ranchi, Jamshedpur, Daltonganj, Bokaro & Chaibasa during 21.07.2017 to 25.07.2017

PARAMETERS		Ranchi	Jamshedpur	Daltonganj	Bokaro	Chaibasa
Total rainfall (mm)		202.4	416.0	101.7	234.2	233.3
Max Temp range (°C)		25-30	26-33	27-31	28-31	26-31
Min Temp range(°C)		21-22	24-25	25	24-25	21-23
Cloud Coverage (octa)		8	8	8	8	7
Relative Humidity (%)		74-100	70-98	79-98	92-98	NA
Wind Direction/ Speed (kmph)	Morning	W	W	CALM	W	CALM
		6	6	0	4	0
	Evening	W	W	CALM	N/A	CALM
		10	8	0	N/A	0

- **Monsoon Watch:** SW Monsoon was vigorous over Jharkhand during last 24 hrs.
- **Realized Weather (during past 24 hrs.):** Heavy to very heavy rain at few places whereas light to moderate rainfall with Thundershowers at rest places occurred over Jharkhand.
- **Rainfall in cm (during past 24 hrs):** Panchet --19; Tenughat --17; Ramgarh --15; Papunki, Jamshedpur City--13; Jaridih -- 12; Jamshedpur, Hindgir, Chatra -- 11 each; Ranchi, Maithon, Putki, Koner -- 10 each; Chandil, Panki, Balumath, Dumka -- 9 each; Bishrampur, Hazaribag, Barhi, Rajdhanwar, Dhanbad -- 8 each; Koderma -- 7; Kuru, Markacho, Moharo, Tilaiya, Gomia -- 6each; Manatu, Amrapara, Jamtara, Barkisuraiya, Topchanchi, Madhupur, Mohanpur -- 5each; Latehar, Deoghar -- 4each; Daltonganj, Pakur, Torpa, Messenjoy, Ghatsila, Gobindpur -- 3each; Japla, Maheshpur, Lohardaga, Godda, Nandadih, Hunterganj -- 2each; Chaibasa, Hiranpur, Raidih, Palkot, Pathargama, Garhwa, Sarath -- 1each.

➤ **Synoptic feature:**

The well-marked low pressure area over Gangetic West Bengal & adjoining Jharkhand with associated upper air cyclonic circulation extending upto 9.5 Km above mean sea level persists.

The axis of monsoon trough at mean sea level now passes through centre of low pressure area over central parts of Rajasthan, Gwalior, Fursatganj, Daltonganj, centre of well-marked low pressure area over Gangetic West Bengal & adjoining Jharkhand and hence eastwards to Tripura across Bangladesh and extends upto 3.1 km above mean sea level.

➤ **Sector wise Forecast for the state of Jharkhand (till noon of 31st July, 2017):**

Day	Central (Bokaro, Gumla, Hazaribag, Khunti, Ramgarh & Ranchi)	South (Chaibasa, Jamshedpur, Simdega & Saraikela)	NW (Chatara, Garhwa, Koderma, Latehar, Lohardaga & Palamu)	NE (Deoghar, Dhanbad, Dumka, Giridih, Godda, Jamtara, Pakur & Sahebganj)
25.07.17	WS RA/TS very likely.	WS RA/TS very likely.	WS RA/TS very likely.	WS RA/TS very likely.
26.07.17				
27.07.17	FWS RA/TS very likely.	FWS RA/TS very likely.		
28.07.17				
29.07.17	WS RA/TS very likely.	WS RA/TS very likely.		
Outlook for subsequent Two days		Little change		

➤ **Sector wise Warning for the state of Jharkhand (for next five days):**

Day	Central (Bokaro, Gumla, Hazaribag, Khunti, Ramgarh & Ranchi)	South (Chaibasa, Jamshedpur, Simdega & Saraikela)	NW (Chatara, Garhwa, Koderma, Latehar, Lohardaga & Palamu)	NE (Deoghar, Dhanbad, Dumka, Giridih, Godda, Jamtara, Pakur & Sahebganj)
25.07.17	1. ISOL Extremely Heavy rain very likely. 2. SCT Heavy to very heavy rain very likely.			
26.07.17	ISOL Heavy rain very likely.			
27.07.17	NIL			
28.07.17				
29.07.17				

WEATHER FORECAST

AMFU :RANCHI(Districts:Ranchi, Khunti, Bokaro, Hazaribag, Ramgarh, Chatara, Garhwa, Palamu, Latehar, Lohardaga, Gumla, Simdega)

DISTRICTS	PARAMETERS	FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		26.07.17	27.07.17	28.07.17	29.07.17	30.07.17
BOKARO	Rainfall (mm)	44	28	15	22	22
	Max Temperature (°C)	28	29	30	31	30
	Min Temperature(°C)	24	24	25	26	25
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	92	82	82	83	85
	Min Relative Humidity (%)	81	61	57	55	62
	Wind speed (kmph)	7	6	6	4	3
	Wind direction (deg)	180	270	290	120	270
HAZARIBAGH	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	92	83	83	84	86
	Min Relative Humidity (%)	84	62	61	60	67
	Wind speed (kmph)	8	5	6	4	2
	Wind direction (deg)	190	260	275	155	255
RAMGARH	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	94	86	85	86	87
	Min Relative Humidity (%)	86	64	61	59	67
	Wind speed (kmph)	9	6	6	4	2
	Wind direction (deg)	200	260	275	190	280
CHATRA	Rainfall (mm)	48	35	12	11	17
	Max Temperature (°C)	28	28	30	32	32
	Min Temperature(°C)	25	25	26	26	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	93	86	85	87	87
	Min Relative Humidity (%)	88	65	62	62	71
	Wind speed (kmph)	9	4	6	6	3
	Wind direction (deg)	220	250	260	240	230
RANCHI	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	95	88	85	85	87
	Min Relative Humidity (%)	87	64	59	57	66
	Wind speed (kmph)	10	6	5	4	2
	Wind direction (deg)	210	245	270	250	270
KHUNTI	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	94	88	85	85	88
	Min Relative Humidity (%)	85	62	58	56	64
	Wind speed (kmph)	11	6	6	3	2
	Wind direction (deg)	215	230	260	270	255

AMFU :RANCHI continued ...

DISTRICTS	PARAMETERS	FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		26.07.17	27.07.17	28.07.17	29.07.17	30.07.17
GUMLA	Rainfall (mm)	31	30	31	26	30
	Max Temperature (°C)	23	26	28	29	26
	Min Temperature(°C)	22	22	22	24	24
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	95	91	88	88	89
	Min Relative Humidity (%)	89	67	61	60	70
	Wind speed (kmph)	11	6	6	5	4
	Wind direction (deg)	235	250	280	290	275
SIMDEGA	Rainfall (mm)	24	27	15	12	27
	Max Temperature (°C)	28	29	30	31	30
	Min Temperature(°C)	24	24	25	26	25
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	94	90	87	89	89
	Min Relative Humidity (%)	84	64	60	58	66
	Wind speed (kmph)	9	6	6	5	5
	Wind direction (deg)	230	245	275	285	270
LOHARDEGA	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	95	90	87	89	89
	Min Relative Humidity (%)	90	67	62	61	72
	Wind speed (kmph)	10	6	6	6	4
	Wind direction (deg)	235	250	270	275	260
PALAMU	Rainfall (mm)	48	35	12	11	17
	Max Temperature (°C)	28	28	30	32	32
	Min Temperature(°C)	25	25	26	26	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	93	86	83	86	85
	Min Relative Humidity (%)	88	63	59	59	68
	Wind speed (kmph)	10	4	6	6	5
	Wind direction (deg)	225	240	240	245	225
GARHWA	Rainfall (mm)	48	35	12	11	17
	Max Temperature (°C)	28	28	30	32	32
	Min Temperature(°C)	25	25	26	26	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	93	87	84	86	85
	Min Relative Humidity (%)	87	62	59	58	67
	Wind speed (kmph)	11	5	6	6	7
	Wind direction (deg)	235	235	240	240	230
LATEHAR	Rainfall (mm)	35	30	22	15	16
	Max Temperature (°C)	26	27	28	29	28
	Min Temperature(°C)	22	23	23	23	23
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	95	90	87	89	88
	Min Relative Humidity (%)	91	66	62	61	72
	Wind speed (kmph)	9	4	6	6	5
	Wind direction (deg)	230	250	255	260	250

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

DISTRICTS	PARAMETERS	FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		26.07.17	27.07.17	28.07.17	29.07.17	30.07.17
SAHEBGANJ	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	89	82	77	83	85
	Min Relative Humidity (%)	78	63	52	57	57
	Wind speed (kmph)	9	4	4	9	7
	Wind direction (deg)	140	190	165	120	105
GODDA	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	88	81	75	81	85
	Min Relative Humidity (%)	77	64	52	56	57
	Wind speed (kmph)	9	3	3	9	7
	Wind direction (deg)	150	240	220	125	100
PAKAUR	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	8	8	8
	Max Relative Humidity (%)	88	82	77	83	86
	Min Relative Humidity (%)	78	62	52	56	59
	Wind speed (kmph)	8	4	4	9	7
	Wind direction (deg)	160	225	215	130	120
DUMKA	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	88	81	75	83	86
	Min Relative Humidity (%)	75	64	51	54	62
	Wind speed (kmph)	8	4	2	8	8
	Wind direction (deg)	165	257	286	124	122
DEVGHAR	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	89	80	75	81	85
	Min Relative Humidity (%)	76	64	52	54	60
	Wind speed (kmph)	9	4	3	6	7
	Wind direction (deg)	160	270	295	105	145
GIRIDH	Rainfall (mm)	18	22	18	23	22
	Max Temperature (°C)	24	27	28	29	28
	Min Temperature(°C)	21	21	23	24	24
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	90	79	78	80	84
	Min Relative Humidity (%)	79	60	56	57	61
	Wind speed (kmph)	8	4	5	4	4
	Wind direction (deg)	160	255	280	80	215

AMFU : DUMKAcontinued ...

DISTRICTS	PARAMETERS	FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		26.07.17	27.07.17	28.07.17	29.07.17	30.07.17
DHANBAD	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	88	81	76	83	86
	Min Relative Humidity (%)	74	63	51	52	62
	Wind speed (kmph)	8	4	3	7	8
	Wind direction (deg)	180	260	305	125	130
JAMTARA	Rainfall (mm)	26	20	16	22	20
	Max Temperature (°C)	30	31	31	32	30
	Min Temperature(°C)	26	26	27	27	26
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	90	81	77	83	86
	Min Relative Humidity (%)	75	64	52	53	64
	Wind speed (kmph)	8	5	3	6	7
	Wind direction (deg)	175	270	325	100	175
KODERMA	Rainfall (mm)	15	22	15	12	22
	Max Temperature (°C)	25	28	29	30	29
	Min Temperature(°C)	22	22	24	25	24
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	90	79	79	81	84
	Min Relative Humidity (%)	81	59	57	58	63
	Wind speed (kmph)	9	4	7	4	3
	Wind direction (deg)	175	235	265	140	205

AMFU :DARISAI(*Districts: West Singbhum, East Singbhum, Saraikela*)

DISTRICTS	PARAMETERS	FORECAST				
		DAY-1	DAY-2	DAY-3	DAY-4	DAY-5
		26.07.17	27.07.17	28.07.17	29.07.17	30.07.17
WEST-SINGBHUM	Rainfall (mm)	24	27	15	12	27
	Max Temperature (°C)	28	29	30	31	30
	Min Temperature(°C)	24	24	25	26	25
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	93	86	84	86	88
	Min Relative Humidity (%)	82	59	58	55	60
	Wind speed (kmph)	9	6	5	4	2
	Wind direction (deg)	200	225	250	250	245
EAST-SINGBHUM	Rainfall (mm)	24	27	15	12	27
	Max Temperature (°C)	28	29	30	31	30
	Min Temperature(°C)	24	24	25	26	25
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	91	83	81	82	86
	Min Relative Humidity (%)	78	60	53	51	54
	Wind speed (kmph)	8	6	5	4	4
	Wind direction (deg)	195	250	265	225	205
SARAIKELA	Rainfall (mm)	24	27	15	12	27
	Max Temperature (°C)	28	29	30	31	30
	Min Temperature(°C)	24	24	25	26	25
	Total cloud cover (octa)	8	8	7	8	8
	Max Relative Humidity (%)	93	86	84	85	87
	Min Relative Humidity (%)	83	60	56	55	59
	Wind speed (kmph)	9	6	5	4	2
	Wind direction (deg)	200	235	260	260	255

B. AGRO-ADVISORIES (Based on the weather forecast):-
AMFU : Ranchi, Dumka & Darisai (i.e. for all Districts of Jharkhand)

Rainfall statistics of Jharkhand for the period 01.06.2017 to 25.07.2017

Excess	20 % or more	Normal	+19 % to -19 %
Deficient	-20 % to -59 %	Scanty	-60 % to -99 %

SN	District	Actual	Normal	Dep%
1.	BOKARO	593.4	436.6	36
2.	CHATRA	346.3	432.5	-20
3.	DEOGHAR	456.4	415.6	10
4.	DHANBAD	543	467.4	16
5.	DUMKA	668.1	472.2	41
6.	EAST SINGBHUM	721.2	457	58
7.	GARHWA	108.9	348.9	-69
8.	GIRIDIH	410.4	481.5	-15
9.	GODDA	292.3	418.2	-30
10.	GUMLA	438.3	524.7	-16
11.	HAZARIBAG	672.9	430.5	56
12.	JAMTARA	505.9	490.4	3
13.	KHUNTI	514.1	545.2	-6
14.	KODERMA	453.6	400.5	13
15.	LATEHAR	420.8	434	-3
16.	LOHARDAGA	500.2	417.4	20
17.	PAKUR	560.3	543.3	3
18.	PALAMU	357.3	391.5	-9
19.	RAMGARH (HAZARIBAGH)	846.6	467.2	81
20.	RANCHI	512.4	506.5	1
21.	SAHIBGANJ	396	591	-33
22.	SERAIKELA-KHARSAWAN	590.7	501	18
23.	SIMDEGA	670.6	607.4	10
24.	WEST SINGBHUM	465.3	462.1	1
JHARKHAND		492.3	467.2	5

The rain is continuing since Friday and as per weather forecast it will continue till next four days. At present the soil is highly saturated and hence farmers may continue rice transplanting in medium land so that they may finish their rice transplanting till this month. Farmers should have to maintain the drainage system in the entire crops/vegetables field and have to avoid the spraying/broadcasting of fertilizer, pesticides etc.

Up land: Construct the channel in the entire crop field to maintain water drainage with an objective to minimum loss of soil.

Maize: Water stagnation in the field may cause rotting of plants. Hence, earthing up is essential to save the crop. Between the ridge, where water stagnate may be linked with broader channel to drain out the water completely.

Rice: Farmers, who are still waiting for transplanting, should have to save their seedlings by constructing channels around the nursery bed. Sufficient water is present in the field for puddling in medium land. Hence, continue the transplanting with suitable seedlings. In Don-1 field, where transplanting is already completed, may construct the channel parallel to the bund to provide erosive water flow (runoff) coming from upper land to maintain the minimum damage of the crop. In low land, where transplanting is still incomplete, farmers may proceed for transplanting as and when the water flow (run off) from upper land becomes normal. Farmers who have transplanted with SRI method also have to maintain the drainage of the field.

Vetgetable: To maintain the drainage from the field, deep channels should have to construct.

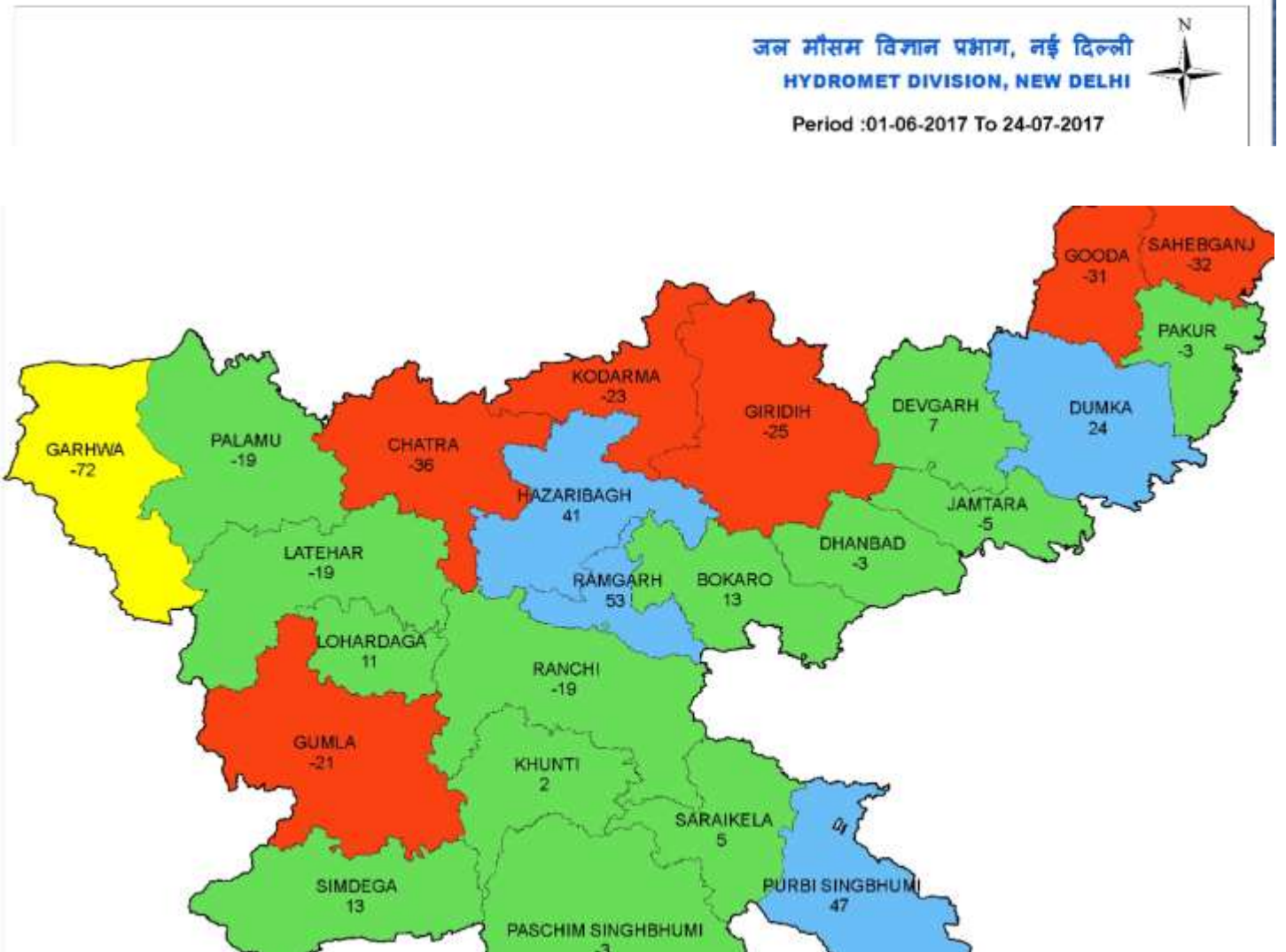
Miscellaneous: Farmers wishing to plant fruit seedling may proceed during clear weather condition. Buy the seedlings from well-known nursery and before planting the seedlings, recommended dose of manures should be added in pit. Avoid water stagnation near root zone of the seedlings. Barren land may be utilized with plantation of either fruit trees or timber trees.

Cattle: Present weather is conducive for infectious disease in animals. Hence, do not allow them to move freely in open field where they may drink contaminated water during grazing.



भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT

DISTRICT RAINFALL DEPARTURE MAP - JHARKHAND



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Forwarded to: Director Agriculture, Ranchi, Jharkhand /Director AIR/Director D.D, Ranchi/State Manager, IKSL Jharkhand/ Secretary Disaster Management, Jharkhand.

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

Dated 25.07.2017