



ALL INDIA WEEKLY WEATHER REPORT
07 - 13 FEBRUARY 2019

[Table-1\(A\)](#) [Table-1\(B\)](#) [Table-1\(C\)](#) [Table-2](#) [Table-3](#) [Fig-1](#) [Fig-2](#) [Annexure-1](#)

SIGNIFICANT WEATHER FEATURES

➤ **Western Disturbance**

- An intense western disturbance along with its induced cyclonic circulation supported by high moisture feeding from Arabian Sea, strong wind convergence in the mid and upper tropospheric levels over Western Himalayan Region and wind confluence in the lower levels in the adjoining plains of northwest India has caused widespread rainfall/snowfall activity along with heavy to very heavy rainfall/snowfall at isolated places over Western Himalayan Region in the earlier part of the week. It has also caused fairly widespread to widespread rainfall/thundershowers with isolated heavy to very heavy rain and isolated hailstorm activity in the adjoining plains of northwest and central India. During its course movement eastwards, it has caused scattered to fairly widespread rain/thundershowers and isolated hailstorm activity over east and northeastern states and snowfall over the higher reaches of Sikkim and Arunachal Pradesh.
- Another intense Western disturbance started affecting Western Himalayan Region and adjoining plains of northwest India towards the end of the week and has caused fairly widespread to widespread rainfall/snowfall activity over Jammu & Kashmir and isolated to scattered rainfall/thunderstorm activity over Himachal Pradesh, Uttarakhand and adjoining plains of northwest India.
- Movement of easterly waves has caused isolated to scattered rainfall/ thunderstorm activity over extreme south peninsular India during the week with isolated heavy to very heavy falls reported on one or two days.

➤ **Fog**

Dense to very dense fog at isolated places had been observed over Punjab, Uttarakhand and Haryana, Chandigarh & Delhi on two days each and over Himachal Pradesh, West Bengal & Sikkim and West Madhya Pradesh on one day each during the week.

➤ **Cold day**

Cold day conditions had been observed at a few over West Madhya Pradesh on two days and at isolated places over East Madhya Pradesh, Madhya Maharashtra and Rajasthan on one or two days during the week.

➤ **Cold wave**

Cold wave conditions had been observed at a few places over West Madhya Pradesh on one or two days; at isolated places over Vidarbha, East Madhya Pradesh and Chhattisgarh on two days each and over Odisha, Gangetic West Bengal, East Rajasthan and Madhya Maharashtra on one day each during the week.

➤ **Heavy Rainfall Activity**

Very heavy rainfall had been reported at isolated places over Himachal Pradesh, Punjab and Kerala on one day each; heavy rainfall had been reported at isolated places over Jammu & Kashmir on two days and over Uttarakhand, South Interior Karnataka and Lakshadweep on one day each during the week.

➤ **Temperature**

The lowest minimum temperature of 1.4⁰C had been recorded at Churu (West Rajasthan) on 9th February 2019, over the plains of the country during the week.

LEGEND: A Few days- 3 days, Many days- 4 to 5 days and Most days- 6 to 7 days during the week.

METEOROLOGICAL ANALYSIS

- ◆ Last week's Western Disturbance over north Pakistan and neighbourhood extending upto 7.6 km above mean sea level with a trough at 3.1 km above mean sea level from this cyclonic circulation running southwestwards to north Arabian Sea to the north of 22°N persisted on 7th February 2019. The system as a cyclonic circulation extending upto 7.6 km above mean sea level persisted over the same area whereas the trough at 3.1 km above mean sea level from the circulation ran upto East central Arabian Sea to the north of Lat 15°N on 8th; It was seen as a trough in mid & upper air tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 80°E to the north of Lat. 22°N on 9th; it continued to lay as a trough in mid and upper tropospheric westerlies with its axis roughly along Long. 92°E to the north of Lat. 26°N, between 2.1 km & 5.8 km above mean sea level on 10th and it has moved away northeastwards on 11th February 2019.
- ◆ Last week's induced cyclonic circulation over north Rajasthan and neighbourhood extending upto 1.5 km above mean sea level persisted on 7th February 2019 and it has become less marked on 8th February 2019.
- ◆ Last week's cyclonic circulation extending upto 0.9 km above mean sea level over southeast Rajasthan and adjoining Gujarat persisted on 7th February 2019 and it has become less marked on 8th February 2019.
- ◆ Last week's trough of low at mean sea level from Maldives area to Eastcentral Arabian Sea off Karnataka coast ran from Maldives area to Coastal Karnataka and extended upto 0.9 km above mean sea level however, the cyclonic circulation over Southeast Arabian Sea and adjoining south Kerala extending upto 0.9 km above mean sea level which lay embedded in the trough has become less marked on 7th February 2019. The trough of low at mean sea level from Maldives area to Coastal Karnataka extending upto 0.9 km above mean sea level has also become less marked on 8th February 2019.
- ◆ Last week's cyclonic circulation over South Interior Karnataka and neighbourhood at 1.5 km above mean sea level has become less marked on 7th February 2019.
- ◆ A trough extending upto at 0.9 km ran from the induced cyclonic circulation over north Rajasthan and neighbourhood to East Madhya Pradesh across northwest Madhya Pradesh on 7th February 2019 and it has become less marked on 8th February 2019.
- ◆ A cyclonic circulation extending upto 1.5 km above mean sea level lay over Bihar and neighbourhood on 7th February 2019. It lay over north Chhattisgarh & neighbourhood and extended upto 0.9 km above mean sea level on 8th; it lay over north Chhattisgarh and adjoining areas of Jharkhand & Odisha on 9th and has become less marked on 10th February 2019.
- ◆ A cyclonic circulation extending upto 1.5 km above mean sea level lay over Haryana & neighbourhood on 8th February 2019 and it has become less marked on 9th February 2019.
- ◆ A trough in easterlies extending upto 0.9 km above mean sea level ran from Maldives area to Telangana across interior Tamilnadu & Rayalaseema on 8th February 2019. It ran from Comorin area to Coastal Andhra Pradesh across Interior Tamilnadu and Rayalaseema on 9th and it has become less marked on 10th February 2019.
- ◆ A feeble Western Disturbance as a cyclonic circulation at 3.1 km above mean sea level lay over Jammu & Kashmir and neighbourhood on 10th February 2019 and it has moved away east-northeastwards on 11th February 2019.
- ◆ A trough in easterlies ran from Maldives-Comorin area to southeast Arabian Sea off Kerala coast at 1.5 km above mean sea level on 10th February 2019. It persisted and extended upto 0.9 km above mean sea level on 11th & 12th. It was seen as a trough of low at mean sea level from Maldives-Comorin area to Eastcentral Arabian Sea off south Maharashtra coast on 13th February 2019.

- ◆ A Western Disturbance as an upper air cyclonic circulation between 3.1 km & 3.6 km above mean sea level lay over western parts of Afghanistan & neighbourhood on 11th February 2019. It lay over east Afghanistan & neighbourhood on 12th and over northern parts of Jammu & Kashmir and neighbourhood and was seen at 3.1 km above mean sea level and is moving away east - northeastwards on 13th February 2019.
- ◆ A cyclonic circulation between 0.9 and 1.5 km above mean sea level lay over Bangladesh & neighbourhood on 11th February 2019. It persisted over the same region and was seen between 1.5 km & 2.1 km above mean sea level on 12th & 13th February 2019.
- ◆ A cyclonic circulation extending upto 0.9 km above mean sea level lay over Eastcentral Arabian Sea and adjoining Konkan on 11th February 2019. It lay over Eastcentral Arabian Sea off Karnataka coast and extended upto 0.9 km above mean sea level on 12th and it has become less marked on 13th February 2019.
- ◆ A Western disturbance as a cyclonic circulation extending upto 4.5 km above mean sea level lay over Iran & neighbourhood with a trough aloft with its axis at 5.8 km above mean sea level running roughly along Long. 50°E to the north of Lat. 30°N on 12th February 2019 and it lay over Afghanistan & neighbourhood and the trough aloft with its axis at 5.8 km above mean sea level ran roughly along Long. 58°E to the north of Lat. 26°N on 13th February 2019.
- ◆ A cyclonic circulation extending between 1.5 km & 2.1 km above mean sea level lay over south Haryana & neighbourhood on 12th February 2019 and it has become less marked on 13th February 2019.
- ◆ An induced cyclonic circulation extending upto 1.5 km above mean sea level lay over south Pakistan and neighbourhood on 13th February 2019.
- ◆ An east-west shear zone at 5.8 km above mean sea level ran roughly along Lat. 10°N across South peninsula on 13th February 2019.

RAINFALL SUMMARY

CATEGORY	WEEK			SEASON		
	07.02.2019 TO 13.02.2019			01.01.2019 TO 13.02.2019		
LARGE EXCESS	12			7		
EXCESS	1			4		
NORMAL	4			7		
DEFICIENT	3			3		
LARGE DEFICIENT	10			11		
NO RAIN	6			4		
Cumulative Rainfall (mm)	Actual	Normal	% Departure	Actual	Normal	% Departure
	11.1	4.6	+142%	31.8	28.0	+13%

- Sub-division wise weekly and seasonal rainfall distribution is presented in [Fig-1](#) and [Fig-2](#).
- Sub-divisionwise daily distribution of realised rainfall is shown in [Table-1\(A\)](#).
- Sub-divisionwise departure of realised minimum temperature from Normal is shown in [Table-1\(C\)](#)
- Statewise distribution of number of districts with Large-Excesse, Excess, Normal, Deficient, Large-deficient and no rainfall is shown in [Table-2](#).
- Cumulative seasonal rainfall data during the corresponding weekly period for the last five years are given in [Table-3](#).
- Sub-divisionwise realised weekly rainfall (in cm) is shown in [Annexure-1](#).

FORECAST & WARNING FOR THE NEXT WEEK 14-20 FEBRUARY 2019

- Detailed seven days Sub-division wise rainfall-forecast & weather-warning is given in [Table-1\(B\)](#).

Table-1 (A)

METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED RAINFALL-2019								
S.No.	MET.SUB-DIVISIONS	07 FEB	08 FEB	09 FEB	10 FEB	11 FEB	12 FEB	13 FEB
1	ANDAMAN & NICO.ISLANDS	D	D	D	ISOL	D	D	D
2	ARUNACHAL PRADESH	D	D	WS	FWS	ISOL	D	D
3	ASSAM & MEGHALAYA	D	D	FWS	FWS	ISOL	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	ISOL	SCT	ISOL	D	D
5	SUB-HIM.W. BENG. & SIKKIM	D	FWS	WS	WS	D	D	D
6	GANGETIC WEST BENGAL	D	D	SCT	ISOL	D	D	D
7	ODISHA	D	D	ISOL	ISOL	D	D	D
8	JHARKHAND	D	ISOL	WS	ISOL	D	D	D
9	BIHAR	ISOL	FWS	WS	SCT	D	D	D
10	EAST UTTAR PRADESH	FWS	FWS	ISOL	D	D	D	D
11	WEST UTTAR PRADESH	WS	SCT	D	D	D	D	D
12	UTTARAKHAND	SCT	WS	FWS	ISOL	D	D	D
13	HARYANA CHD. & DELHI	ISOL	WS	D	D	D	D	D
14	PUNJAB	WS	WS	D	D	D	D	D
15	HIMACHAL PRADESH	WS	WS	ISOL	D	D	D	ISOL
16	JAMMU & KASHMIR	WS	WS	D	D	ISOL	ISOL	FWS
17	WEST RAJASTHAN	ISOL	ISOL	D	D	D	D	D
18	EAST RAJASTHAN	ISOL	ISOL	D	D	D	D	D
19	WEST MADHYA PRADESH	ISOL	D	D	D	D	D	D
20	EAST MADHYA PRADESH	ISOL	ISOL	ISOL	D	D	D	D
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA KUTCH & DIU	D	D	D	D	D	D	D
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	D	D
25	MARATHAWADA	D	D	D	D	D	D	D
26	VIDARBHA	D	D	D	D	D	D	D
27	CHHATTISGARH	D	ISOL	SCT	D	D	D	D
28	COASTAL ANDHRA PRADESH	D	D	D	D	ISOL	ISOL	D
29	TELANGANA	D	D	ISOL	D	D	D	D
30	RAYALASEEMA	D	ISOL	D	ISOL	ISOL	D	D
31	TAMILNADU & PUDUCHERRY	D	ISOL	ISOL	ISOL	ISOL	D	D
32	COASTAL KARNATAKA	D	ISOL	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	ISOL	ISOL	D
34	SOUTH INT.KARNATAKA	ISOL	ISOL	D	ISOL	SCT	ISOL	D
35	KERALA	ISOL	D	D	ISOL	SCT	D	D
36	LAKSHADWEEP	D	SCT	D	SCT	D	D	D
LEGENDS:								
WS	WIDE SPREAD / MOST PLACES (76-100%)	FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)					
SCT	SCATTERED / FEW PLACES (26% to 50%)	ISOL	ISOLATED (up to 25%)	D/DRY	NO STATION REPORTED RAINFALL			

Table-1 (B)

METEOROLOGICAL SUB-DIVISIONWISE WEEKLY RAINFALL FORECAST & Wx. WARNINGS-2019								
Sr. No	MET.SUB-DIVISIONS	14 FEB	15 FEB	16 FEB	17 FEB	18 FEB	19 FEB	20 FEB
1	ANDAMAN & NICO.ISLANDS	D	D	D	D	D	D	D
2	ARUNACHAL PRADESH	D	ISOL	FWS [§]	FWS [§]	SCT	ISOL	D
3	ASSAM & MEGHALAYA	D	D	SCT [§]	SCT [§]	ISOL	ISOL	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	ISOL	ISOL	ISOL	ISOL	D
5	SUB-HIM.W. BENG. & SIKKIM	ISOL	SCT [§]	SCT [§]	ISOL	ISOL	ISOL	D
6	GANGETIC WEST BENGAL	D	ISOL [§]	SCT [§]	D	D	D	D
7	ODISHA	D	ISOL [§]	SCT ^{§#}	ISOL	D	ISOL	D
8	JHARKHAND	D	SCT ^{§#}	SCT	D	D	D	D
9	BIHAR	ISOL	SCT ^{§#}	SCT [§]	D	D	D	D
10	EAST UTTAR PRADESH	FWS ^{§#}	FWS ^{§#}	ISOL	D	D	D	ISOL
11	WEST UTTAR PRADESH	FWS ^{§#}	FWS ^{§#}	ISOL	D	ISOL	ISOL	ISOL
12	UTTARAKHAND	FWS ^{§#}	FWS ^{§#}	ISOL	D	SCT	FWS	WS [*]
13	HARYANA, CHD. & DELHI	WS ^{*§#}	FWS	D	D	ISOL	SCT	FWS
14	PUNJAB	WS ^{*§#}	SCT	D	D	ISOL	SCT	FWS
15	HIMACHAL PRADESH	WS ^{*§#}	FWS	D	ISOL	FWS ^{§#}	WS [*]	WS ^{**}
16	JAMMU & KASHMIR	WS ^{*§#}	FWS	D	SCT	WS ^{§#}	WS [*]	WS ^{**}
17	WEST RAJASTHAN	ISOL ^{§#}	D	D	D	D	ISOL	SCT
18	EAST RAJASTHAN	SCT ^{§#}	ISOL	D	D	D	ISOL	ISOL
19	WEST MADHYA PRADESH	SCT ^{§#}	ISOL	D	D	D	ISOL	SCT [#]
20	EAST MADHYA PRADESH	SCT ^{§#}	SCT ^{§#}	ISOL	D	D	D	SCT [#]
21	GUJARAT REGION D.D. & N.H.	D	D	D	D	D	D	D
22	SAURASTRA KUTCH & DIU	D	D	D	D	D	D	ISOL
23	KONKAN & GOA	D	D	D	D	D	D	D
24	MADHYA MAHARASHTRA	D	D	D	D	D	ISOL	ISOL [#]
25	MARATHAWADA	D	D	D	D	D	ISOL	ISOL [#]
26	VIDARBHA	D	ISOL ^{§#}	ISOL	D	D	D	ISOL
27	CHHATTISGARH	ISOL	SCT ^{§#}	SCT	D	D	D	ISOL
28	COASTAL ANDHRA PRADESH	D	D	ISOL [§]	ISOL	ISOL	ISOL	D
29	TELANGANA	D	ISOL ^{§#}	ISOL	D	D	ISOL	ISOL
30	RAYALASEEMA	D	D	D	D	D	D	D
31	TAMILNADU & PUDUCHERRY	D	ISOL	ISOL [§]	ISOL [§]	ISOL	ISOL	ISOL
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	D	ISOL	D
34	SOUTH INT.KARNATAKA	D	ISOL	ISOL	D	D	ISOL	D
35	KERALA	D	ISOL	ISOL [§]	ISOL [§]	D	ISOL	ISOL
36	LAKSHADWEEP	D	D	D	D	D	ISOL	ISOL
LEGENDS:								
WS	WIDE SPREAD / MOST PLACES (76-100%)			FWS	FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)			
SCT	SCATTERED / FEW PLACES (26% to 50%)			ISOL	ISOLATED (up to 25%)		D/DRY	NIL RAINFALL
• Heavy Rainfall (64.5-115.5 mm)		•• Heavy to Very Heavy Rainfall (115.6-204.4 mm)			••• Extremely Heavy Rainfall (204.5 mm or more)			
• FOG	* SNOWFALL	# HAILSTORM			🔥 HEAT WAVE (+4.5 °C to +6.4 °C)		🔥🔥 SEVERE HEAT WAVE (> +6.4)	
§ THUNDERSTORM WITH SQUALL/GUSTY WIND			DS/TS DUST/THUNDERSTORM		🌡️ COLD WAVE (-4.5 °C to -6.4 °C)		🌡️ SEVERE COLD WAVE (< -6.4)	

Table-1 (C)

METEOROLOGICAL SUB-DIVISIONWISE DEPARTURE OF REALISED MINIMUM TEMP. FROM NORMAL-2019								
S.No	MET.SUB-DIVISIONS	07 FEB	08 FEB	09 FEB	10 FEB	11 FEB	12 FEB	13 FEB
1	ANDAMAN & NICO.ISLANDS	N	AN	AAN	N	N	AN	MAN
2	ARUNACHAL PRADESH	N	AN	AAN	N	N	N	N
3	ASSAM & MEGHALAYA	N	AN	AAN	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	N	N	N	N
5	SUB-HIM.W. BENG. & SIKKIM	N	AAN	AAN	N	N	N	N
6	GANGETIC WEST BENGAL	N	AAN	AAN	N	N	N	N
7	ODISHA	N	AN	N	N	N	ABN	N
8	JHARKHAND	AAN	MAN	N	N	N	BN	BN
9	BIHAR	N	MAN	N	N	N	BN	BN
10	EAST UTTAR PRADESH	N	MAN	N	N	N	N	N
11	WEST UTTAR PRADESH	MAN	AN	N	N	N	N	N
12	UTTARAKHAND	AN	N	N	N	AN	AN	AAN
13	HARYANA CHD. & DELHI	MAN	N	N	N	N	AN	N
14	PUNJAB	MAN	N	N	N	N	AN	N
15	HIMACHAL PRADESH	AN	ABN	N	N	N	N	N
16	JAMMU & KASHMIR	N	N	N	N	N	N	N
17	WEST RAJASTHAN	N	N	N	N	N	AN	N
18	EAST RAJASTHAN	N	N	N	N	N	N	N
19	WEST MADHYA PRADESH	N	BN	N	N	N	N	BN
20	EAST MADHYA PRADESH	N	AAN	N	N	N	N	N
21	GUJARAT REGION D.D. & N.H.	N	N	ABN	N	N	N	N
22	SAURASTRA KUTCH & DIU	N	ABN	ABN	N	N	N	N
23	KONKAN & GOA	N	BN	N	ABN	N	N	N
24	MADHYA MAHARASHTRA	N	N	N	N	N	AAN	N
25	MARATHAWADA	N	N	MBN	N	N	AAN	N
26	VIDARBHA	N	N	N	MBN	N	N	N
27	CHHATTISGARH	N	AAN	N	ABN	N	N	N
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N
29	TELANGANA	N	AN	N	N	N	N	N
30	RAYALASEEMA	N	AN	N	AAN	AAN	N	N
31	TAMILNADU & PUDUCHERRY	N	AN	N	N	N	N	N
32	COASTAL KARNATAKA	AN	N	N	N	N	N	N
33	NORTH INT. KARNATAKA	N	N	N	N	N	AN	N
34	SOUTH INT. KARNATAKA	N	N	N	N	N	AN	N
35	KERALA	N	N	AN	N	N	N	N
36	LAKSHADWEEP	N	AN	N	N	N	AN	N
Lowest Minimum Temperature (°C) over the plains of the Country.		8.0	3.2	1.4	3.0	3.6	4.5	6.7
Station(s) observed LMT		Bhilwara	Udaipur	Churu	Khajuraho	Khajuraho	Khajuraho	Fursatganj
Station(s) lies in Met-Subdivision(s)		East Raj.	East Raj.	West Raj.	East M.P.	East M.P.	East M.P.	East U.P.
LEGENDS:								
N	NORMAL (N+1,N-1)°C	BN	BELOW NORMAL (N-2)°C		ABN	APRECIABLY BELOW NORMAL (N-3.1 to -4.9)°C		
AN	ABOVE NORMAL (N+2)°C			MBN	MARKEDLY BELOW NORMAL (N-5 AND BELOW) °C			
AAN	APRECIABLY ABOVE NORMAL (N+3.1 to +4.9)°C			MAN	MARKEDLY ABOVE NORMAL (N+5 AND ABOVE) °C			
REMARK:- Departure of Minimum Temperature has been assigned as realised over at least Most/Many (51-100%) parts of the Sub-division.								

Table-2

**STATEWISE DISTRIBUTION OF NO. OF DISTRICTS
WITH EXCESS, NORMAL, DEFICIENT, SCANTY AND NO RAINFALL**

S. NO.	STATES	PERIOD FROM : 01.01.2019 TO 13.02.2019							TOTAL
		LE	E	N	D	LD	NR	ND	
1	A & N ISLAND (UT)	2	1	0	0	0	0	0	3
2.	ARUNACHAL PRADESH	0	0	0	4	7	2	3	16
3.	ASSAM	0	0	0	7	15	5	0	27
4.	MEGHALAYA	0	0	1	1	2	1	2	7
5.	NAGALAND	0	0	1	4	6	0	0	11
6.	MANIPUR	0	0	0	0	5	2	2	9
7.	MIZORAM	0	0	0	0	2	3	4	9
8.	TRIPURA	0	0	0	0	0	4	0	4
9.	SIKKIM	0	0	0	0	4	0	0	4
10.	WEST BENGAL	0	0	0	4	12	3	0	19
11.	ODISHA	0	0	0	1	18	11	0	30
12.	JHARKHAND	0	0	2	3	13	5	1	24
13.	BIHAR	9	7	12	9	1	0	0	38
14.	UTTAR PRADESH	12	10	17	19	13	1	0	72
15.	UTTARAKHAND	3	8	2	0	0	0	0	13
16.	HARYANA	4	0	6	7	4	0	0	21
17.	CHANDIGARH (UT)	0	0	1	0	0	0	0	1
18.	DELHI	6	0	2	1	0	0	0	9
19.	PUNJAB	9	1	6	4	0	0	0	20
20.	HIMACHAL PRADESH	5	5	2	0	0	0	0	12
21.	JAMMU & KASHMIR	15	3	1	0	0	0	3	22
22.	RAJASTHAN	6	3	3	7	5	9	0	33
23.	MADHYA PRADESH	1	2	4	8	13	23	0	51
24.	GUJARAT	2	0	0	0	0	31	0	33
25.	DADRA & NAGAR HAVELI (UT)	0	0	0	0	0	1	0	1
26.	DAMAN & DIU (UT)	0	0	0	0	0	2	0	2
27.	GOA	0	0	0	0	0	2	0	2
28.	MAHARASHTRA	1	0	4	1	1	25	4	36
29.	CHHATISGARH	7	3	5	8	2	2	0	27
30.	ANDHRA PRADESH	5	3	0	2	1	2	0	13
31.	TELANGANA	21	3	2	1	4	0	0	31
32.	TAMILNADU	1	0	1	0	23	7	0	32
33.	PUDUCHERRY (UT)	0	0	0	0	1	1	2	4
34.	KARNATAKA	13	1	2	4	1	9	0	30
35.	KERALA	2	0	2	2	5	3	0	14
36.	LAKSHADWEEP (UT)	0	0	1	0	0	0	0	1
	TOTAL	124	50	77	97	158	154	21	681
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 660 WHOSE DATA RECEIVED		19%	7%	12%	15%	24%	23%		

PERCENT DISTRIBUTION OF DISTRICTS IN EARLIER YEARS SINCE 1st JANUARY

DATE	LE	E	N	D	LD	NR
14.02.2018	5%	3%	6%	15%	34%	37%
15.02.2017	12%	7%	7%	11%	26%	37%
10.02.2016	7%	8%	6%	16%	42%	28%
11.02.2015	0%	30%	18%	22%	22%	8%
12.02.2014	0%	29%	10%	9%	22%	30%

Table-3

RAINFALL DURING WINTER SEASON

S. No.	Meteorological Sub-Divisions	<i>For the period from 1st January to</i>						
			12 FEB 2014	11 Feb 2015	10 FEB 2016	15 FEB 2017	14 FEB 2018	13 FEB 2019
1.	Andaman & Nicobar Islands	A	42	131	75	230	184	179
		N	70	69	68	73	73	71
		D	-40	+90	+11	+213	+154	+152
2.	Arunachal Pradesh	A	52	30	41	25	62	21
		N	85	84	82	90	88	86
		D	-39	-64	-50	-72	-29	-76
3	Assam & Meghalaya	A	3	13	23	2	7	7
		N	26	26	25	29	28	27
		D	-87	-49	-8	-94	-74	-75
4.	Naga., Mani., Mizo. & Tripura	A	2	11	11	1	6	5
		N	23	22	22	26	25	24
		D	-91	-49	-51	-98	-75	-79
5.	Sub-Himalayan West Bengal & Sikkim	A	2	15	24	3	3	14
		N	40	40	39	44	42	41
		D	-95	-64	-38	-94	-93	-66
6.	Gangetic West Bengal	A	1	13	15	2	0	1
		N	25	24	24	26	26	25
		D	-96	-48	-35	-92	-100	-95
7.	Odisha	A	*	15	2	2	*	1
		N	18	18	17	21	20	19
		D	-99	-14	-87	-92	-98	-92
8.	Jharkhand	A	10	12	15	5	1	6
		N	25	25	24	27	26	26
		D	-61	-51	-38	-80	-95	-75
9.	Bihar	A	17	13	10	*	*	22
		N	17	17	17	19	18	18
		D	-2	-25	-42	-98	-99	+27
10.	East Uttar Pradesh	A	49	32	6	10	5	22
		N	22	22	22	23	23	23
		D	+118	+47	-74	-58	-80	-3
11.	West Uttar Pradesh	A	51	35	3	23	7	27
		N	24	23	23	25	25	25
		D	+116	+48	-89	-12	-74	+8
12.	Uttarakhand	A	73	73	22	44	24	115
		N	72	70	69	80	79	76
		D	+1	+4	-68	-45	-70	+52
13.	Haryana, Chandigarh & Delhi	A	14	16	*	35	9	23
		N	23	23	23	25	24	24
		D	-39	-29	-99	+40	-61	-3
14.	Punjab	A	28	28	7	45	22	64
		N	33	32	32	37	36	35
		D	-15	-12	-78	+22	-38	+82

S. No.	Meteorological Sub-Divisions	For the period from 1 st January to						
			12 FEB 2014	11 FEB 2015	10 FEB 2016	15 FEB 2017	14 FEB 2018	13 FEB 2019
15.	Himachal Pradesh	A	121	100	35	183	41	183
		N	135	131	127	147	143	140
		D	-10	-23	-72	+24	-71	+31
16.	Jammu & Kashmir	A	157	82	38	316	59	255
		N	135	130	125	150	143	139
		D	+17	-37	-69	+111	-59	+84
17.	West Rajasthan	A	1	2	*	6	*	6
		N	4	4	4	5	5	4
		D	-76	-49	-97	+26	-95	+38
18.	East Rajasthan	A	29	10	1	8	*	6
		N	7	7	7	7	7	7
		D	+307	+37	-92	+12	-98	-13
19.	West Madhya Pradesh	A	26	46	5	7	4	3
		N	11	11	11	12	11	11
		D	+128	+311	-55	-44	-69	-74
20.	East Madhya Pradesh	A	32	44	20	11	25	13
		N	27	27	27	29	29	28
		D	+17	+65	-24	-62	-13	-53
21.	Gujarat Region	A	7	2	0	0	0	0
		N	1	1	1	1	1	1
		D	+729	+115	-100	-100	-100	-100
22.	Saurashtra, Kutch & Diu	A	*	1	0	*	0	1
		N	1	1	1	*	*	*
		D	-34	+132	-100	-68	-99	+355
23.	Konkan & Goa	A	*	2	0	0	0	0
		N	*	*	*	*	*	*
		D	-71	+518	-100	-100	-99	-100
24.	Madhya Maharashtra	A	3	2	0	0	*	0
		N	1	1	1	1	1	1
		D	+146	+70	-100	-100	-91	-100
25.	Marathawada	A	1	12	0	0	7	0
		N	5	5	5	5	5	5
		D	-73	+144	-100	-100	+33	-100
26.	Vidarbha	A	1	30	1	*	20	11
		N	13	13	13	14	14	14
		D	-91	+131	-95	-98	+47	-20
27.	Chhattisgarh	A	2	13	6	2	10	17
		N	15	15	15	16	16	15
		D	-86	-14	-60	-90	-38	+8
28.	Coastal Andhra Pradesh	A	1	2	2	1	*	10
		N	11	11	11	12	12	11
		D	-94	-82	-84	-92	-99	-7
29.	Telangana	A	*	12	1	0	3	23
		N	8	8	7	8	8	8
		D	-98	+61	-84	-100	-70	+176

S. No.	Meteorological Sub-Divisions	For the period from 1 st January to						
			12 FEB 2014	11 FEB 2015	10 FEB 2016	15 FEB 2017	14 FEB 2018	13 FEB 2019
30.	Rayalaseema	A	*	1	8	4	5	14
		N	4	3	3	4	4	4
		D	-97	-61	+137	-7	+13	+259
31.	Tamil Nadu & Puducherry	A	7	8	3	38	17	3
		N	21	21	21	23	23	22
		D	-65	-60	-88	+66	-26	-85
32.	Coastal Karnataka	A	0	1	1	1	*	*
		N	1	1	1	1	1	1
		D	-100	+83	-41	+35	-78	-64
33.	North Interior Karnataka	A	0	2	*	0	2	1
		N	3	3	3	3	3	3
		D	-100	-11	-89	-100	-20	-68
34.	South Interior Karnataka	A	*	2	4	5	3	9
		N	2	2	2	2	2	2
		D	-77	-4	+126	+163	+77	+375
35.	Kerala	A	5	3	5	13	17	10
		N	13	13	13	15	14	14
		D	-63	-75	-60	-12	+22	-28
36.	Lakshadweep	A	53	3	60	22	13	28
		N	27	27	26	28	28	27
		D	+97	-90	+129	-20	-54	+3
Country as a whole		A	25.3	22.6	9.3	32.6	12.0	31.8
		N	26.8	26.1	25.9	29.8	28.8	28.0
		D	-5	-13	-64	+9	-58	+13

SUMMARY

No. of Sub-Divisions with rainfall	For the period from 1 st January to					
	12 FEB 2014	11 FEB 2015	10 FEB 2016	15 FEB 2017	14 FEB 2018	13 FEB 2019
Large Excess	-	-	-	04	02	07
Excess	07	14	03	05	03	04
Normal	06	06	02	04	02	07
Total	13	20	05	13	07	18
Deficient	04	09	09	04	07	03
Large Deficient	-	-	-	13	20	11
Scanty	17	07	17	-	-	-
No rain	02	00	05	06	02	04
Total	23	16	31	23	29	18
Data Inadequate	00	00	00	00	00	00
TOTAL	36	36	36	36	36	36

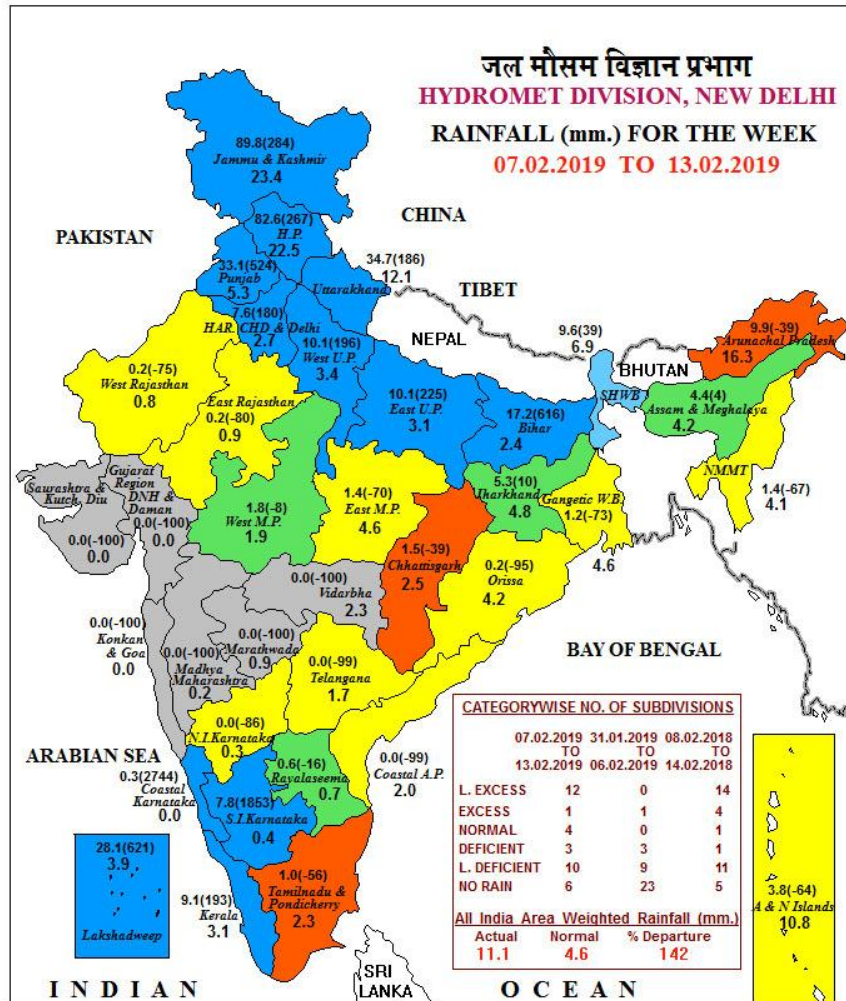
* Data is rounded off to nearest full figure according to Meteorological convention.

SEASONS : WINTER SEASON (January-February)	PRE-MONSOON SEASON (March-May)
MONSOON SEASON (June-September)	POST-MONSOON SEASON (October-December)

LEGENDS:		
Large Excess: (+60% or more)	Large Deficient: (-60% to -99%)	A : Actual Rainfall (mm)
Excess: (+20% to +59%)	Scanty: (-20% to -99%)	N : Normal Rainfall (mm)
Normal: (+19% to -19%)	No Rain (-100%)	D : Departure from normal (%)
Deficient: (-20% to -59%)	Data Inadequate: **	Rainfall upto 0.4 mm : *

Fig-1

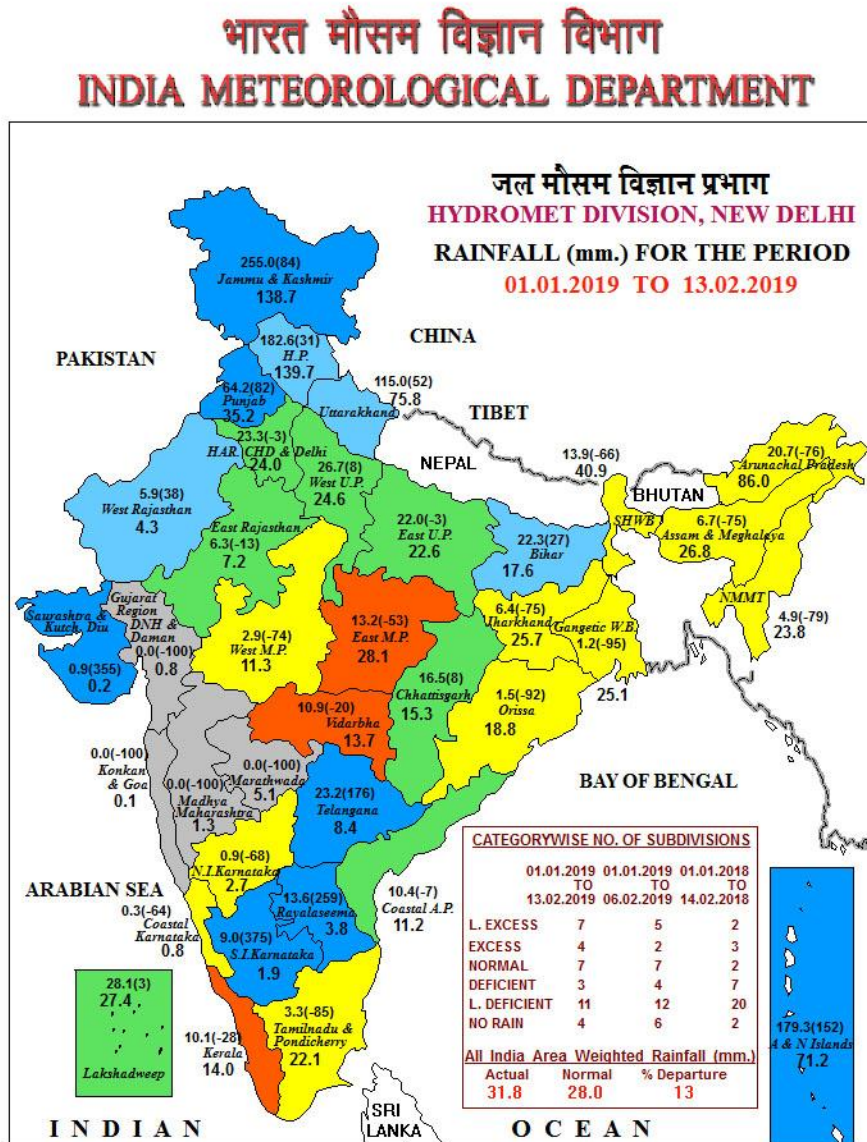
**भारत मौसम विज्ञान विभाग
INDIA METEOROLOGICAL DEPARTMENT**



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

NOTES:
 [a] Rainfall figures are based on operational data.
 [b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

Fig-2



LEGEND: ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)
■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) NO DATA

NOTES:

[a] Rainfall figures are based on operational data.

[b] Small figures indicate actual rainfall (mm.), while bold figures indicate Normal rainfall (mm.)
 Percentage Departures of Rainfall are shown in Brackets.

RAINFALL DURING THE WEEK (in cm.)**(7 FEBRUARY 2019 TO 13 FEBRUARY 2019)****7 FEBRUARY 2019**

EAST UTTAR PRADESH: KAISERGANJ-3, NIGHASAN-2, BILHAUR-2, BILGRAM-2, SAFIPUR-2, CHHIBRAMAU-2, SITAPUR-1, RAMNAGAR-1, FATEHPUR TEHSIL-1, HARDOI OBSY-1, LUCKNOW (AP)-1, SIDHAULI-1, NAWABGANJ TEHSIL-1, MALIHABAD-1, KHERI LAKHIMPUR-1, SAWAYAJPUR-1, MISRIKH-1, MANKAPUR-1, SIRAOULI GAUSPUR TEHSIL-1, NANPARA-1, KANPUR OBSY-1, HARDOI TEH-1, TARABGANJ-1, BAHRAICH-1, BISWAN-1, MUHAMMADI-1, SANDILA-1, HAIARGARH-1, **WEST UTTAR PRADESH:** JALALABAD-2, MEERUT TEH-2, KHAIRAGAR-2, BAHERI-2, MEERUT-1, PURANPUR-1, PAWAYAN-1, BUDAUN-1, SHAHJAHANPUR (T)-1, ORAI-1, AONLA-1, KALPI TEHSIL-1, SHAHJAHAPUR OBSY-1, MAURANIPUR-1, RATH-1, BHARTHANA-1, HAMIRPUR OBSY-1, NAWABGANJ-1, DATAGANJ-1, BHOGAON-1, JHANSI-1, NAJIBABAD (T)-1, BIJNOR-1, BAH-1, SUAR-1, **PUNJAB:** HOSHIARPUR AWS-8, HOSHIARPUR-5, KAPURTHALA-4, PHAGWARA-4, NANGAL-4, GURUDASPUR-4, ADAMPUR IAF-4, DASUYA-3, SAMANA-3, PATHANKOT IAF-3, RANJIT SAGAR DAM SITE-3, MALAKPUR-3, MUKERIAN-2, HALWARA IAF-2, PHANGOTA-2, JALANDHAR-2, TIBRI-2, MADHOPUR-2, BATALA-2, KHANNA-1, DERABASSI(BASI)-1, SHAHPUR KANDI-1, ANANDPUR SAHIB-1, PHILLAUR-1, NAKODAR-1, NAWANSHAHR-1, NABHA-1, RAJPURA-1, ROPAR-1, JAGRAON-1, GARHSHANKAR-1, AMRITSAR-1, FEROPUR-1, AMRITSAR AWS-1, TARAN TARAN-1, KHARAR-1, MOGA-1, SIRHIND-1, **HIMACHAL PRADESH:** NAINA DAVI-5, CHAMBA AWS-5, DHARMSALA-4, BANGANA R-4, BANGANA F-4, KEYLONG-3, PALAMPUR-3, KHERI-3, GHAMROOR-3, NADAUN-3, AMB-3, BALDWARA-3, KANGRA AERO-3, BAIJNATH-2, UNA-2, GULER-2, DEHRA GOPIPUR-2, SUJANPUR TIRA-2, AGHAR-2, HAMIRPUR-2, MEHRE (BARSAR)-2, JOGINDARNAGAR-1, SARKAGHAT-1, MANALI-1, BHORANJ-1, BHARARI-1, R L BBMB-1, DALHOUSI ALHA AWS-1, CHHATRARI-1, BARTHIN-1, **JAMMU & KASHMIR:** GULMARG AWS-7, GULMARG R.S.-7, SRINAGAR AERO-5, BANIHAL-5, GOVINDPURA AWS-5, HARRAN AWS-5, RAMBAGH AWS-5, SRINAGAR-5, BADARWAH-5, RAJOURI-4, BATOTE-4, UDHAMPUR(IAF)-4, SHALIMAR AGRO-4, KATRA-4, AWANTIPUR IAF-4, ANANTNAG-4, SRINAGAR AGRO AWS-3, MALANGPURA AWS-3, JAMMU-3, ANANTNAG AWS-3, SAMBA-3, QAZI GUND-3, JAMMU AERO-3, KAWA AWS-3, PAHALGAM AWS-3, PAHALGAM-3, KUPWARA-3, KUKERNAG-3, SAMBA AWS-3, BARAMULLA AWS-3, BANDIPORA-2, KATHUA-2, RAJHANI AWS-2, KARGIL-1, GUND-1, **WEST MADHYA PRADESH:** MEHGAON-2, SEODHA(SEONDHA)-2, CHANDERI-2, DABRA-2, DATIA-AWS-2, BHIND-AWS-1, BHANDER-1, GOHAD-1, MORENA-AWS-1, ALIPUR(JAURA)-1, GUNA-AWS-1, GWALIOR-1, **SOUTH INTERIOR KARNATAKA:** CHANNAGIRI-1, **KERALA:** KURUDAMANNIL-1, ALAPUZHA-1, KODUNGALLUR-1, CHERTHALA-1.

8 FEBRUARY 2019

SUB-HIMALAYAN WEST BENGAL & SIKKIM: SANKALAN-1, **JHARKHAND:** HUNTERGANJ-1, **BIHAR:** BIHPUR-2, BHABHUA-1, JALEY-1, SAULIGHAT-1, GAUNAHA-1, BELSAND-1, SAHEBGANJ-1, BUXAR-1, TRIBENIGANJ-1, SISWAN-1, BASUA-1, **EAST UTTAR PRADESH:** GYANPUR-2, RAMNAGAR-2, MANKAPUR-1, HAIARGARH-1, FATEHPUR TEHSIL-1, ZAMANIA-1, BAHRAICH-1, BARA BANKI-1, KAISERGANJ-1, VARANASI-B.H.U.-1, BALLIA OBSY-1, MOHAMMEDABAD (Y)-1, NAWABGANJ TEHSIL-1, KHERI LAKHIMPUR-1, **WEST UTTAR PRADESH:** MUZAFFARNAGAR-5, BAGHPAT-3, DEOBAND-3, SUAR-3, NAKUR-2, BUDHANA-2, KAIRANA-2, SAMBAL-2, DHAMPUR-2, SAHARANPUR-2, THAKURDWARA-2, NAJIBABAD (T)-2, BIJNOR-2, ALIGARH-2, NAGINA-1, MEERUT TEH-1, SARDHANA-1, GHAZIABAD-1, KHAIR-1, BAHERI-1, KHURJA-1, ETAH-1, AONLA-1, BUDAUN-1, **UTTARAKHAND:** DEOPRAYAG-8, PAURI-8, JAKHOLI-5, KEERTINAGAR-5, BARKOT-5, MUSSOORIE-5, JOSHIMATH-4, PITHORAGARH-4, UKHIMATH-4, TEHRI-4, UTTAR KASHI (CWC)-4, UTTAR KASHI-4, GHANSALI-4, MUNSIYARI-3, TIUNI-3, HALDWANI-3, SRINAGAR-3, TEHRI (CWC)-3, BHATWARI-3, KAPKOT-3, MUKTESHWAR-3, RUDRAPRAYAG-3, NAINITAL-3, KARNAPRAYAG-3, BAGESHWAR (THMO)-3, JOLLYGRANT-3, ROORKEE-2, DEHRA DUN-2, DHARCHULA-2, CHAUKHUTIA-2, KSHIPUR-2, GANGOLIHAT-2, DWARHAT-2, ALMORA-2, DIDIHAT-2, RANIKHET -2, HARDWAR-2, CHAMOLI-2, PUROLA-2, KOTDWAR-2, PANTNAGAR-2, CHAMPAWAT-1, GAIRSAIN-1, GARUD-1, RAMNAGAR-1, DUNDA-1, LANSDOWN-1, **HARYANA, CHANDIGARH & DELHI:** GUHLA-4, NARAINGARH-4, DADUPUR-4, CHANDIGARH IAF-4, DELHI UNIVERSITY OBS-4, DELHI RIDGE-4, TAJEWALA-4, JAGADHARI-4, NARWANA-3, PALAM-3, FARIDABAD-3, CHANDIGARH-3, CHHACHHRAULI-3, BAHADURGARH-3, KAITHAL-2, PEHOWA-2, JAFARPUR AWS-2, AMBALA-2, BILASPUR-2, NUH-2, DHANSA-2, SONPAT-2, KALAYAT-2, SAMALKHA-2, UCHANA-2, SADHAURA-1, PRESIDENT HOUSE-1, MUSTAFABAD-1, KHARKODA-1, BAWAL-1, RADAUR-1, JIND-1, PATAUDI-1, NARELA-1, KALKA-1, REWARI-1, BAPOULI-1, KURUKSHETRA-1, **PUNJAB:** MUKERIAN-14, TIBRI-13, DASUYA-13, GURUDASPUR-11, PHANGOTA-10, BALACHAUR-9, NANGAL-9, RANJIT SAGAR DAM SITE-8, MALAKPUR-8, PATHANKOT IAF-8, HOSHIARPUR AWS-7, MADHOPUR-7, KHANNA-7, SHAHPUR KANDI-7, ADAMPUR IAF-6, KAPURTHALA-6, NABHA-5, ANANDPUR SAHIB-5, HOSHIARPUR-5, SAMANA-5, NAWANSHAHR-5, LUDHIANA-4, ROPAR-3, PHAGWARA-3, SIRHIND-3, FATEHGARH SAHIB-3, HALWARA IAF-3, GARHSHANKAR-3, BATALA-3, PATIALA REV-3, DERABASSI(BASI)-2, JALANDHAR-2, NAKODAR-2, RAJPURA-2, KHARAR-1, SUNAM-1, PHILLAUR-1, PATIALA-1, **HIMACHAL PRADESH:** NAINA DAVI-12, BHARARI-11, KHERI-11, MEHRE (BARSAR)-11, BARTHIN-10, AGHAR-10, DHARMSALA-10, NADAUN-10, HAMIRPUR-9, BERTHIN AGRO-9, BHORANJ-9, KUFRI AWS-9, BHARMAUR-9, BANGANA R-9, SIMLA-9, SUJANPUR TIRA-8, JOGINDARNAGAR-8, ARKI-8, MANALI-8, GHUMARWIN-8, KASAULI-8, GHAMROOR-8, PAONTA-7, DHARAMPUR-7, R L BBMB-7, SANGRAHA-7, NAGROTA SURIAN-7, GULER-7, PALAMPUR-7, CHAMBA AWS-7, CHAMBA-7, KANGRA AERO-7, RENUKA / DADHAU-7, BANJAR-7, POOH-7, PACHHAD-7, SUNDARNAGAR-7, DEHRA GOPIPUR-6, AMB-6, SARKAGHAT-6, SEO BAGH-6, CHHATRARI-6, KAHU-6, KOTKHAH-6, BAIJNATH-6, UNA-6, BHARWAIN-6, BIJAH-5, BALDWARA-5, KEYLONG-5, BHUNTAR AERO-5, RAJGARH-5, DALHOUSIE-5, DALHOUSI ALHA AWS-5, BANGANA F-5, BAJAURA AGRO-5, RAMPUR BUSHAR-5, NAHAN-5, KARSOG-5, KHADRALA-5, SUNIBHAJJI-4, SHIMLA AERO-4, ROHRU-4, SALONI-4, PANDOH-3,

MASHOBRA AGRO-3, SARAHAN-3, JHANDUTTA-3, KUMARSAIN-3, KALPA-3, SOLAN-3, THEOG-3, MANDI-2, JANJEHLI-2, JUBBAL-1, **JAMMU & KASHMIR:** BATOTE-11, KUKERNAG-8, BADARWAH-8, BANIHAL-8, KATHUA-7, RAJHANI AWS-7, QAZI GUND-6, UDHAMPUR(IAF)-6, SRINAGAR AGRO AWS-6, SHALIMAR AGRO-6, ANANTNAG-5, ANANTNAG AWS-5, GULMARG R.S.-4, GOVINDPURA AWS-4, AWANTIPUR IAF-4, MALANGPURA AWS-4, GULMARG AWS-4, PAHALGAM AWS-4, KAWA AWS-4, PAHALGAM-4, RAJOURI-4, KATRA-4, JAMMU-3, SRINAGAR-3, RAMBAGH AWS-3, JAMMU AERO-3, SAMBA AWS-3, SAMBA-2, SRINAGAR AERO-2, KARGIL-2, GUND-2, KUPWARA-2, HARRAN AWS-2, BARAMULLA AWS-2, **EAST RAJASTHAN:** KUMHER SR-1, BHARATPUR TEHSIL SR-1, **EAST MADHYA PRADESH:** HANUMANA-1, **COASTAL KARNATAKA:** SUBRAMANYA-1, **SOUTH INTERIOR KARNATAKA:** HASSAN PTO-2, BELUR-2, **LAKSHADWEEP:** MINICOY-7.

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ARUNACHAL PRADESH: TUTING-2, MIAO-1, TEZU-1, KOLORIANG-1, **ASSAM & MEGHALAYA:** DHUBRI CWC-1, DHUBRI IMD-1, WILLIAMNAGAR-1, **SUB-HIMALAYAN WEST BENGAL & SIKKIM:** RAIGANJ AWS-1, MALDA-1, **GANGETIC WEST BENGAL:** RAMPURHAT (DRMS)-1, **ODISHA:** SUNDARGARH-1, **JHARKHAND:** SATGAON-5, CHATRA-3, HUNTERGANJ-2, RANCHI-1, MARKACHOU-1, LATEHAR-1, PAKUR-1, RAMGARH-1, AMRAPARA-1, DEOGHAR-1, KODERMA-1, GOMIA-1, **BIHAR:** BAGAHA-11, BIHPUR-4, DHENGRAGHAT-3, CHANPATIA-3, RAJAULI-3, BALTARA-3, RAMNAGAR-3, GAUNAHA-3, MONGHYR-2, SONO-2, SAHEBPUR KANAL-2, HASANPUR-2, KATORIA-2, JHAJHA-2, MADHIPURA-2, GOGRI-2, JAMUI-2, MAHEDI/MEHSHI-2, PURNEA-2, CHAKIA-2, BAHADURGANJ-2, MANIHARI-2, GAYA AERO-2, TRIBENI%BALMIKI-2, UDAI KISHANGANJ-2, TAIBPUR-2, SHERGHATI-2, KURSELA-2, ROSERA-1, KISHANGANJ-1, PARBATA-1, KATIHAR%NORTH-1, LAKHISARAI-1, MOTIHARI-1, CHAPRA-1, GOPALGANJ-1, BARAHARA-1, CHARGHARIA-1, SONBARSA-1, BHAGALPUR-1, DARBHANGA-1, BENIBAD-1, JALALPUR-1, THAKURGANJ-1, KESSARIAH-1, GORAU/DOLI-1, BELSAND-1, PHULPARAS-1, MURLIGANJ-1, TEKARI-1, KUDRA-1, BANKA-1, SUPAUL-1, FORBESGANJ-1, BODH GAYA-1, KODAWANPUR/C.BII-1, GARHI-1, PALMERGANJ-1, VAISHALI-1, HATHWA-1, SABOUR-1, JANDHAHA-1, MARHAURA%AMNAR<-1, SURYAGADHA-1, COLGAON-1, MAHUA-1, BIHAR SHRIF-1, SAHEBGANJ-1, JHANJHARPUR-1, SHEIKHPURA-1, MUSHARI-1, BARHIYA-1, LALBEGIAGHAT-1, NAWADA-1, SAMASTIPUR-1, KHAGADIA-1, **EAST UTTAR PRADESH:** NANPARA-4, MAHARAJGANJ-3, HARAIYA-3, GORAKHPUR-2, BANSGAON-2, PHARENDA-2, DEORIA-2, BASTI OBSY-2, HATA-2, MANKAPUR-2, TARABGANJ-2, KHALILABAD-1, BIKAPUR-1, PHOOLPUR TEH-1, **UTTARAKHAND:** HALDWANI-5, RANIKHET (G)-3, GARUD-2, BAGESHWAR (THMO)-1, ALMORA-1, KEERTINAGAR-1, PUROLA-1, PITHORAGARH-1, DIDIHAT-1, JAKHOLI-1, BHATWARI-1, DWARHAT-1, CHAUKHUTIA-1, **HIMACHAL PRADESH:** DALHOUSI ALHA AWS-2, CHAMBA AWS-1, SUNDARNAGAR-1, **EAST MADHYA PRADESH:** PUSHPAJGARH-1, JAITHARI-1, **CHHATTISGARH:** BAIKUNTHPUR-1, RAMANUJGANJ-1, **TAMILNADU & PUDUCHERRY:** TUTICORIN-1.

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ANDAMAN & NICOBAR ISLANDS: NANCOWARY-5, **ARUNACHAL PRADESH:** TUTING-2, ITANAGAR-2, DEOMALI-1, PASIGHAT AERO-1, NAMSAI-1, **ASSAM & MEGHALAYA:** MARGHERITA-1, KHOWANG-1, LUMDING-1, MORANHAT-1, NAHAR KATIA-1, NUMALIGARH-1, DILLIGHAT-1, GOLAGHAT CWC-1, GOLAGHAT PTO-1, **NAGALAND, MANIPUR, MIZORAM & TRIPURA:** WOKHA SADAR NSDMA AWS-2, MOKOKCHANG-1, ONG PANGKONG NSDMA AWS-1, **SUB-HIMALAYAN WEST BENGAL & SIKKIM:** SEVOKE-1, KALIMPONG-1, MANGAN-1, GANGTOK-1, DAMTHANG-1, MAJITAR-1, **BIHAR:** SABOUR-3, KATORIA-2, KISHANGANJ-2, BAHADURGANJ-2, BHAGALPUR-2, MADHIPURA-1, KHAGADIA-1, JAMUI-1, BANKA-1, GARHI-1, DHENGBRIDGE-1, MARSRAKH-1, GOGRI-1, **RAYALASEEMA:** RAJAMPET-1, **TAMILNADU & PUDUCHERRY:** KODAIKANAL-3, SIVAGANGA-2, RADHAPURAM-2, BODINAICKANUR-1, SIVAGIRI-1, PERIYAKULAM-1, THUCKALAY-1, SATANKULAM-1, AMBASAMUDRAM-1, ARANMANAIPUDUR-1, ERANIEL-1, **SOUTH INTERIOR KARNATAKA:** MALUR-9, BENGALURU CITY OBSY-6, BENGALURU HAL AP OBSY-5, RAYALPADU-4, BEGUR-3, H D KOTE-2, CHANNAPATNA-2, SARGUR-1, **KERALA:** KONNI-12, MUNNAR KSEB-3, NEYYATTINKARA-2, MYLADUMPARA AGRI-2, **LAKSHADWEEP:** MINICOY-2.

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ARUNACHAL PRADESH: TAWANG AWS-1, **RAYALASEEMA:** PENU KONDA-2, **TAMILNADU & PUDUCHERRY:** KUZHITHURAI-2, SRIVAIKUNTAM-1, UTHAGAMANDALAM-1, COONOOR PTO-1, **SOUTH INTERIOR KARNATAKA:** AJJAMPURA-4, HESARAGHATTA-3, BELUR-2, NAYAKANAHATTY-2, CHIKKANAHALLI PTO-2, BUKKAPATNA-2, H D KOTE-2, DUDDA-2, NANJANAGUD-1, KUDLIGI-1, CHIKKAMAGALURU PTO-1, THONDEBHAVI-1, SIRA-1, SARGUR-1, **KERALA:** KOTTAYAM-3, KUPPADY-3, AMBALAVAYAL-3, OTTAPALAM-3, MYLADUMPARA AGRI-2, KUMARAKAM-1, THODUPUZZHA-1, MANNARKKAD-1.

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No Significant amount of rainfall

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HIMACHAL PRADESH: MANALI-1, UDAIPUR-1, **JAMMU & KASHMIR:** KARGIL-3, GULMARG R.S.-3, GULMARG AWS-3, KUPWARA-2, BARAMULLA AWS-2, GUND-1, SRINAGAR AGRO AWS-1, SHALIMAR AGRO-1.

LEGENDS:		CWC	Central Water Commission	PT/PTO	Part Time Observatory
AP	Airport	FMO	Flood Meteorological Office	PBO	Pilot Balloon Observatory
AWS	Automated Weather Station	IAF	Indian Air Force	REV	Revenue
ARG	Automated Rain Gauge	IMD	India Meteorological Department	SR	State Raingauge
CDR	Cyclone Detection Radar	PWD	Public Works Department		