



ALL INDIA WEEKLY WEATHER REPORT  
03 - 09 JANUARY 2019

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

**SIGNIFICANT WEATHER FEATURES**

**Low Pressure System:**

A cyclonic storm 'PABUK' from Gulf of Thailand and adjoining Thailand has emerged into Andaman Sea and neighbourhood on 5<sup>th</sup> January 2019 and lay over Andaman Sea, about 210 km east-southeast of Port Blair. Moving west-northwestwards, it weakened into a Deep Depression on 6<sup>th</sup> and has crossed Andaman islands close to south of Port Blair between 1830 and 2030 hours IST of 6<sup>th</sup> January 2019, as a Deep Depression. It then moved northwestwards and then northwards and weakened into a Depression in the morning of 7<sup>th</sup> January 2019 over Southeast Bay of Bengal near Andaman Islands. Moving northwards and then northeastwards it weakened into a Well Marked Low pressure area over East Central Bay of Bengal & adjoining north Andaman Sea and Myanmar in the early morning of 8<sup>th</sup> January 2019. It weakened further and lay as a Low Pressure area over Myanmar coast and neighbourhood with the associated cyclonic circulation extending upto 1.5 km above mean sea level in the morning of 8<sup>th</sup> and has become less marked in the morning on 9<sup>th</sup> January 2019.

This system has caused widespread rainfall activity over Andaman & Nicobar Islands for about three days with heavy rainfall reporting on one day during the week.

**Western Disturbances:**

An active Western Disturbance has caused scattered to fairly widespread rainfall/snowfall activity over Western Himalayan Region for about three to four days and isolated to scattered rainfall activity in the adjoining plains of northwest India for about two to three days during the week.

The remnants of the system has caused isolated to scattered precipitation over Sub Himalayan West Bengal & Sikkim and parts of northeast India on two to three days during the week.

**Fog:**

Dense to very dense fog has been reported at isolated places over Punjab on many days; over Haryana, Chandigarh & Delhi on a few days; over Bihar, Uttar Pradesh, Rajasthan, West Madhya Pradesh, Chhattisgarh, Himachal Pradesh and Uttarakhand on one or two days during the week.

**Heavy Rainfall Activity:**

Heavy rainfall had been reported at isolated places over Andaman & Nicobar Islands on 7<sup>th</sup> January 2019.

**Temperature:**

The lowest minimum temperature of 1.8<sup>0</sup>C had been recorded at Amritsar (Punjab) on 3<sup>rd</sup> January 2019 and at Adampur (Punjab) on 9<sup>th</sup> January 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 as an upper air cyclonic circulation over Jammu & Kashmir and neighbourhood between 3.1 & 3.6 km above mean sea level with a trough aloft with its axis at 5.8 km above mean sea level was seen as an upper air cyclonic circulation over eastern parts of Jammu & Kashmir and neighbourhood on 3<sup>rd</sup> January 2019 morning and has moved away east-northeastwards in the evening of the same day.
- ◆ Last week's induced cyclonic circulation extending upto 1.5 km above mean sea level over north Rajasthan and neighbourhood has become less marked on 3<sup>rd</sup> January 2019.
- ◆ Last week's cyclonic circulation extending between 1.5 km & 2.1 km above mean sea level over Comorin area and neighbourhood has become less marked on 3<sup>rd</sup> January 2019.
- ◆ A Western disturbance as an upper air cyclonic circulation extending upto 3.6 km above mean sea level lay over Iran & neighbourhood on 3<sup>rd</sup> January 2019. It lay over Iran and adjoining Afghanistan with a trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 55°E to the north of Lat. 30°N on 4<sup>th</sup>; it lay as a cyclonic circulation extending up to 3.6 km above mean sea level over north Pakistan & neighbourhood with the trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 70°E to the north of Lat. 30°N on 5<sup>th</sup>; It lay as a cyclonic circulation extending upto 3.6 km above sea level over north Pakistan & adjoining Jammu & Kashmir with the trough aloft in mid & upper tropospheric westerlies with its axis at 5.8 km above mean sea level roughly along Long. 72°E to the north of Lat. 28°N on 6<sup>th</sup>; the cyclonic circulation associated with the western disturbance has moved away east-northeastwards however the trough aloft in mid & upper tropospheric westerlies ran with its axis at 5.8 km above mean sea level ran roughly along Long. 82°E to the north of Lat. 24°N on 7<sup>th</sup>; This remnant trough with its axis at 5.8 km above mean sea level ran roughly along Long. 89°E to the north of Lat. 20°N on 8<sup>th</sup>; it ran with its axis at 5.8 km above mean sea level roughly along Long. 93°E to the north of Lat. 26°N on 9<sup>th</sup> January 2019 and was moving away eastwards.
- ◆ A trough in mid-tropospheric westerlies with its axis at 5.8 km above mean sea level ran roughly along Long. 89°E to the north of Lat. 27°N on 3<sup>rd</sup> January 2019. It ran roughly along Long. 90°E to the north of Lat. 28°N on 4<sup>th</sup> and has moved away east-northeastwards in the morning of 5<sup>th</sup> Jan 2019.
- ◆ A cyclonic storm 'PABUK' lay over south China Sea on 3<sup>rd</sup> January 2019. It moved west-northwestwards and lay centred at 0830 hour of IST of 4th January 2019 over Gulf of Thailand and adjoining Thailand near latitude 8.3°N and Longitude 101.0°E, about 990 km east-southeast of Port Blair on 4<sup>th</sup>; it moved further west-northwestwards and lay centred at 0830 hour IST of 5th January 2019 over Andaman Sea and neighbourhood, near latitude 9.1° N and Longitude 98.1°E, about 650 km east-southeast of Port Blair; it moved west-northwestwards again and lay centred at 0830 hour IST of 6<sup>th</sup> January 2019 over Andaman Sea near Latitude 11.1°N and Longitude 94.6 °E, about 210 km east-southeast of Port Blair; It again moved west-northwestwards, weakened into a Deep Depression and lay centred at 1130 hrs IST of 6<sup>th</sup> January 2019 over Andaman Sea near lat.11.2 ° N and Long.94.0° E, about 150 km east-southeast of Port Blair. Moving further west-northwestwards, it crossed Andaman islands close to south of Port Blair between 1830 and 2030 hours IST of 6<sup>th</sup> January 2019 as a Deep Depression and lay centred at 2030 hrs IST of 6<sup>th</sup> January 2019 over Southeast Bay of Bengal near Lat. 11.6° N and Long.92.6 ° E, about 15 km southwest of Port Blair. It then moved northwestwards and then northwards and weakened into a Depression and lay centred at 0530 hrs IST of 7<sup>th</sup> January 2019 over Southeast Bay of Bengal near Andaman islands near Lat.12.6° N and Long,92.0 ° E, about 130 km northwest of of Port Blair. It moved nearly northwards and lay centred at 0830 hours IST of 7th January 2019 near Latitude 12.8°N and Longitude 92.0°E,

about 150 km north-northwest of Port Blair. It moved northwards and then northeastwards and weakened into a Well Marked Low pressure area over East Central Bay of Bengal & adjoining north Andaman Sea and Myanmar at 0530 hrs IST of 8<sup>th</sup> January 2019. It lay as Low Pressure area over Myanmar coast and neighbourhood with the associated cyclonic circulation extending upto 1.5 km above mean sea level at 0830 hrs IST on 8<sup>th</sup> and has become less marked on 9<sup>th</sup> morning.

◆ An induced cyclonic circulation extending between 0.9 km and 2.1 km above mean sea level lay over south Pakistan and adjoining West Rajasthan on 4<sup>th</sup> January 2019; it lay over West Rajasthan & neighbourhood extending upto 0.9 km above sea level 5<sup>th</sup>; it lay over Haryana & adjoining Punjab and north Rajasthan and extended upto 1.5 km above mean sea level on 6<sup>th</sup> and has become less marked on 7<sup>th</sup> January 2019, morning.

◆ A cyclonic circulation lay over Southwest Uttar Pradesh & neighbourhood at 0.9 km above mean sea level on 6<sup>th</sup> January 2019. It persisted over the same area and extended upto 1.5 km above mean sea level on 7<sup>th</sup> and has become less marked on 8<sup>th</sup> January 2019.

◆ A trough in easterlies ran from Maldives area to South Interior Karnataka extending upto 0.9 km above mean sea level on 6<sup>th</sup> January 2019 and it has become less marked on 7<sup>th</sup> January 2019.

◆ A Western disturbance as an upper air cyclonic circulation at 3.1 km above mean sea level lay over northeast Afghanistan & neighbourhood on 7<sup>th</sup> January 2019; it lay over northeast Afghanistan and adjoining north Pakistan on 8<sup>th</sup> and over north Pakistan and adjoining Jammu & Kashmir on 9<sup>th</sup> January 2019.

#### RAINFALL SUMMARY

CATEGORY	WEEK			SEASON		
	03.01.2019 TO 09.01.2019			01.01.2019 TO 09.01.2019		
LARGE EXCESS	2			1		
EXCESS	0			1		
NORMAL	1			1		
DEFICIENT	2			0		
LARGE DEFICIENT	11			14		
NO RAIN	20			19		
Cumulative Rainfall (mm)	Actual	Normal	% Departure	Actual	Normal	% Departure
	2.6	3.7	-30%	2.8	4.8	-42%

- 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 daily intensity of realised minimum temperature 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 10-16 JANUARY 2019

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

**Table-1 (A)**

<b>METEOROLOGICAL SUB-DIVISIONWISE DISTRIBUTION OF REALISED RAINFALL-2019</b>								
<b>S.No.</b>	<b>MET.SUB-DIVISIONS</b>	<b>03 JAN</b>	<b>04 JAN</b>	<b>05 JAN</b>	<b>06 JAN</b>	<b>07 JAN</b>	<b>08 JAN</b>	<b>09 JAN</b>
1	ANDAMAN & NICO.ISLANDS	D	D	D	WS	WS	WS	ISOL
2	ARUNACHAL PRADESH	D	FWS	ISOL	D	D	D	ISOL
3	ASSAM & MEGHALAYA	D	ISOL	D	D	D	D	D
4	NAGA.MANI.MIZO.& TRIPURA	D	D	D	D	ISOL	ISOL	D
5	SUB-HIM.W. BENG. & SIKKIM	D	ISOL	D	D	D	D	D
6	GANGETIC WEST BENGAL	D	D	D	D	D	D	D
7	ODISHA	D	D	D	D	D	D	D
8	JHARKHAND	D	D	D	D	D	D	D
9	BIHAR	D	D	D	D	ISOL	ISOL	D
10	EAST UTTAR PRADESH	D	D	D	D	ISOL	ISOL	D
11	WEST UTTAR PRADESH	D	D	D	D	ISOL	D	D
12	UTTARAKHAND	ISOL	ISOL	ISOL	ISOL	FWS	ISOL	D
13	HARYANA CHD. & DELHI	D	D	D	SCT	ISOL	D	D
14	PUNJAB	D	D	ISOL	FWS	ISOL	D	D
15	HIMACHAL PRADESH	ISOL	D	ISOL	FWS	FWS	D	ISOL
16	JAMMU & KASHMIR	SCT	D	D	WS	SCT	ISOL	ISOL
17	WEST RAJASTHAN	D	D	D	ISOL	D	D	D
18	EAST RAJASTHAN	D	D	D	ISOL	D	D	D
19	WEST MADHYA PRADESH	D	D	D	D	D	D	D
20	EAST MADHYA PRADESH	D	D	D	D	ISOL	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	D	D	D	D	D	D
28	COASTAL ANDHRA PRADESH	D	D	D	D	D	D	D
29	TELANGANA	D	D	D	D	D	D	D
30	RAYALASEEMA	D	D	D	D	D	D	D
31	TAMILNADU & PUDUCHERRY	D	D	D	D	D	D	D
32	COASTAL KARNATAKA	D	D	D	D	D	D	D
33	NORTH INT.KARNATAKA	D	D	D	D	D	D	D
34	SOUTH INT.KARNATAKA	D	D	D	D	D	D	D
35	KERALA	D	D	D	D	D	D	D
36	LAKSHADWEEP	D	D	D	D	D	D	D
<b>LEGENDS:</b>								
<b>WS</b>	<b>WIDE SPREAD / MOST PLACES (76-100%)</b>	<b>FWS</b>	<b>FAIRLY WIDE SPREAD / MANY PLACES (51% to 75%)</b>					
<b>SCT</b>	<b>SCATTERED / FEW PLACES (26% to 50%)</b>	<b>ISOL</b>	<b>ISOLATED (up to 25%)</b>	<b>D/DRY</b>	<b>NO STATION REPORTED RAINFALL</b>			

**Table-1 (B)**

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

**Table-1 (C)**

<b>METEOROLOGICAL SUB-DIVISIONWISE INTENSITY OF REALISED MINIMUM TEMPERATURE-2019</b>								
<b>S.No</b>	<b>MET.SUB-DIVISIONS</b>	<b>03 JAN</b>	<b>04 JAN</b>	<b>05 JAN</b>	<b>06 JAN</b>	<b>07 JAN</b>	<b>08 JAN</b>	<b>09 JAN</b>
1	ANDAMAN & NICO.ISLANDS	N	N	N	N	AN	N	N
2	ARUNACHAL PRADESH	N	N	N	N	N	N	N
3	ASSAM & MEGHALAYA	N	N	N	N	N	N	N
4	NAGA.MANI.MIZO.& TRIPURA	N	N	N	N	N	N	N
5	SUB-HIM.W. BENG. & SIKKIM	N	BN	N	N	BN	N	N
6	GANGETIC WEST BENGAL	BN	BN	N	N	BN	N	N
7	ODISHA	N	N	N	N	BN	N	N
8	JHARKHAND	BN	N	N	N	N	N	N
9	BIHAR	BN	N	N	N	N	N	N
10	EAST UTTAR PRADESH	N	N	N	N	AN	N	N
11	WEST UTTAR PRADESH	N	N	N	N	N	N	N
12	UTTARAKHAND	BN	N	N	N	N	N	N
13	HARYANA CHD. & DELHI	N	N	N	N	N	N	N
14	PUNJAB	N	N	AN	N	N	AN	N
15	HIMACHAL PRADESH	N	N	N	N	BN	N	N
16	JAMMU & KASHMIR	N	N	N	N	BN	N	N
17	WEST RAJASTHAN	AN	N	N	N	N	N	N
18	EAST RAJASTHAN	N	N	N	N	N	N	N
19	WEST MADHYA PRADESH	N	N	N	N	N	BN	N
20	EAST MADHYA PRADESH	N	BN	BN	N	N	N	N
21	GUJARAT REGION D.D. & N.H.	N	N	N	N	BN	BN	N
22	SAURASTRA KUTCH & DIU	N	N	N	N	N	BN	N
23	KONKAN & GOA	BN	BN	N	BN	BN	N	BN
24	MADHYA MAHARASHTRA	N	N	N	N	N	N	N
25	MARATHAWADA	BN	N	N	N	N	N	N
26	VIDARBHA	N	N	N	N	N	N	MBN
27	CHHATTISGARH	BN	N	N	N	N	N	N
28	COASTAL ANDHRA PRADESH	N	N	N	N	N	N	N
29	TELANGANA	N	N	N	N	N	N	ABN
30	RAYALASEEMA	N	N	N	BN	BN	N	N
31	TAMILNADU & PUDUCHERRY	N	BN	N	N	N	N	N
32	COASTAL KARNATAKA	BN	BN	BN	BN	BN	N	N
33	NORTH INT. KARNATAKA	ABN	N	N	N	N	N	N
34	SOUTH INT. KARNATAKA	N	N	N	N	BN	N	N
35	KERALA	N	BN	BN	N	BN	N	N
36	LAKSHADWEEP	N	N	ABN	BN	BN	N	BN
<b>Lowest Minimum Temperature (°C) Over the plains of the Country.</b>		<b>1.8</b>	<b>3.5</b>	<b>4.5</b>	<b>5.4</b>	<b>3.0</b>	<b>2.6</b>	<b>1.8</b>
<b>Station(s) observed LMT</b>		Amritsar	Agra	Sikar	Alwar	Amritsar	Bhilwara	Adampur
<b>Station(s) lies in Met-Subdivision(s)</b>		Punjab	U.P.	East Raj.	East Raj.	Punjab	East Raj.	Punjab
<b>LEGENDS:</b>								
<b>N</b>	<b>NORMAL (N+1,N-1)°C</b>	<b>BN</b>	<b>BELOW NORMAL (N-2)°C</b>		<b>ABN</b>	<b>APRECIABLY BELOW NORMAL (N-3.1 to -4.9)°C</b>		
<b>AN</b>	<b>ABOVE NORMAL (N+2)°C</b>			<b>MBN</b>	<b>MARKEDLY BELOW NORMAL (N-5 AND BELOW ) °C</b>			
<b>AAN</b>	<b>APRECIABLY ABOVE NORMAL (N+3.1 to +4.9)°C</b>			<b>MAN</b>	<b>MARKEDLY ABOVE NORMAL (N+5 AND ABOVE ) °C</b>			
<b>REMARK:- Intensity of Minimum Temperature has been assigned as realised over at least Most/Many (51-100%) parts of the Sub-division.</b>								

**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 09.01.2019							TOTAL
		LE	E	N	D	LD	NR	ND	
1.	A & N ISLAND (UT)	3	0	0	0	0	0	0	3
2.	ARUNACHAL PRADESH	0	0	1	3	6	4	2	16
3.	ASSAM	1	2	2	0	1	21	0	27
4.	MEGHALAYA	0	0	0	0	0	6	1	7
5.	NAGALAND	0	0	0	0	0	8	3	11
6.	MANIPUR	0	0	0	0	1	8	0	9
7.	MIZORAM	1	0	0	0	0	4	4	9
8.	TRIPURA	0	0	0	0	0	4	0	4
9.	SIKKIM	0	0	0	0	1	3	0	4
10.	WEST BENGAL	0	0	0	0	0	19	0	19
11.	ODISHA	0	0	0	0	0	30	0	30
12.	JHARKHAND	0	0	0	0	0	23	1	24
13.	BIHAR	0	0	1	1	1	35	0	38
14.	UTTAR PRADESH	2	0	3	6	11	50	0	72
15.	UTTARAKHAND	0	0	0	4	5	4	0	13
16.	HARYANA	1	1	0	2	8	9	0	21
17.	CHANDIGARH (UT)	0	0	0	0	0	1	0	1
18.	DELHI	0	1	2	4	1	1	0	9
19.	PUNJAB	0	0	0	6	7	7	0	20
20.	HIMACHAL PRADESH	0	2	1	5	4	0	0	12
21.	JAMMU & KASHMIR	6	5	2	4	2	0	3	22
22.	RAJASTHAN	0	0	0	0	3	30	0	33
23.	MADHYA PRADESH	1	0	0	0	1	49	0	51
24.	GUJARAT	0	0	0	0	0	33	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	0	0	0	0	0	31	5	36
29.	CHHATISGARH	0	0	0	0	0	27	0	27
30.	ANDHRA PRADESH	0	0	0	0	0	13	0	13
31.	TELANGANA	0	0	0	0	0	31	0	31
32.	TAMILNADU	0	0	0	0	1	31	0	32
33.	PUDUCHERRY (UT)	0	0	0	0	0	2	2	4
34.	KARNATAKA	0	0	0	0	0	30	0	30
35.	KERALA	0	0	0	0	0	14	0	14
36.	LAKSHADWEEP (UT)	0	0	0	0	0	1	0	1
	<b>TOTAL</b>	<b>15</b>	<b>11</b>	<b>12</b>	<b>35</b>	<b>53</b>	<b>534</b>	<b>21</b>	<b>681</b>
CATEGORYWISE DISTRIBUTION OF DISTRICTS OUT OF THE 660 WHOSE DATA RECEIVED		2%	2%	2%	5%	8%	81%		

**PERCENT DISTRIBUTION OF DISTRICTS IN EARLIER YEARS SINCE 1st JANUARY**

DATE	LE	E	N	D	LD	NR
10.01.2018	3%	2%	1%	2%	5%	87%
11.01.2017	11%	3%	4%	5%	11%	66%
13.01.2016	0%	5%	2%	3%	9%	81%
07.01.2015	0%	60%	5%	4%	8%	23%
08.01.2014	0%	8%	2%	5%	12%	73%

**Table-3**

**RAINFALL DURING WINTER SEASON**

S. No.	Meteorological Sub-Divisions	<i>For the period from 1<sup>st</sup> January to</i>						
			08 JAN 2014	07 Jan 2015	13 JAN 2016	11 JAN 2017	10 JAN 2018	09 JAN 2019
1.	Andaman & Nicobar Islands	A	27	4	1	145	119	121
		N	20	15	31	29	27	25
		D	+35	-75	-96	+406	+332	+386
2.	Arunachal Pradesh	A	7	7	17	5	14	4
		N	10	8	15	13	12	11
		D	-33	-11	+13	-62	+20	-66
3	Assam & Meghalaya	A	1	9	8	1	3	1
		N	3	2	7	5	5	4
		D	-70	+300	+25	-90	-42	-85
4.	Naga., Mani., Mizo. & Tripura	A	0	5	3	1	6	*
		N	1	1	5	3	3	2
		D	-100	+317	-42	-78	+100	-97
5.	Sub-Himalayan West Bengal & Sikkim	A	0	10	10	2	0	0
		N	5	4	9	7	7	6
		D	-100	+150	+8	-77	-100	-99
6.	Gangetic West Bengal	A	*	12	0	2	0	0
		N	3	2	5	5	4	3
		D	-91	+407	-99	-59	-100	-100
7.	Odisha	A	0	15	0	2	0	0
		N	3	2	5	4	4	3
		D	-99	+535	-100	-59	-99	-100
8.	Jharkhand	A	1	7	0	6	0	0
		N	2	2	5	5	4	3
		D	-48	+256	-100	+25	-100	-100
9.	Bihar	A	0	10	0	*	0	*
		N	2	2	4	4	3	3
		D	-100	+465	-100	-98	-100	-94
10.	East Uttar Pradesh	A	2	16	0	1	0	1
		N	3	2	5	5	5	4
		D	-22	+675	-99	-88	-100	-74
11.	West Uttar Pradesh	A	2	12	0	7	0	*
		N	3	3	7	6	6	5
		D	-40	+371	-100	+13	-100	-97
12.	Uttarakhand	A	*	42	1	21	0	5
		N	12	9	19	16	15	13
		D	-96	+348	-93	+33	-100	-62
13.	Haryana, Chandigarh & Delhi	A	0	3	0	9	0	2
		N	3	3	6	5	5	5
		D	-99	+22	-99	+71	-100	-66
14.	Punjab	A	1	2	3	11	0	1
		N	5	4	8	7	7	6
		D	-80	-58	-57	+47	-100	-77



S. No.	Meteorological Sub-Divisions	For the period from 1 <sup>st</sup> January to						
			08 JAN 2014	07Jan 2015	13 JAN 2016	11 JAN 2017	10 JAN 2018	09 JAN 2019
15.	Himachal Pradesh	A	11	13	7	55	*	19
		N	20	17	34	27	25	23
		D	-48	-18	-78	+102	-99	-16
16.	Jammu & Kashmir	A	17	1	18	71	1	28
		N	19	16	33	23	21	20
		D	-8	-97	-45	+208	-98	+37
17.	West Rajasthan	A	0	0	*	0	0	0
		N	1	1	1	1	1	1
		D	-100	-97	-93	-100	-100	-99
18.	East Rajasthan	A	*	*	0	0	0	0
		N	2	1	3	3	3	2
		D	-93	-83	-99	-99	-100	-99
19.	West Madhya Pradesh	A	2	31	*	*	0	0
		N	2	2	4	3	3	3
		D	+3	+1698	-98	-94	-100	-100
20.	East Madhya Pradesh	A	2	26	0	4	0	*
		N	4	3	7	6	5	5
		D	-38	+656	-100	-37	-100	-92
21.	Gujarat Region	A	0	1	0	0	0	0
		N	*	*	1	1	1	1
		D	-100	+106	-100	-100	-100	-100
22.	Saurashtra, Kutch & Diu	A	0	0	0	*	0	0
		N	*	*	*	*	*	*
		D	-100	-97	-100	-47	-100	-100
23.	Konkan & Goa	A	0	2	0	0	0	0
		N	*	0	*	*	*	*
		D	-100	+4892	-100	-100	-100	-100
24.	Madhya Maharashtra	A	0	1	0	0	0	0
		N	*	*	1	*	*	*
		D	-100	+865	-100	-100	-100	-100
25.	Marathawada	A	0	10	0	0	0	0
		N	1	*	1	1	1	1
		D	-100	+3177	-100	-100	-100	-100
26.	Vidarbha	A	0	26	0	*	0	0
		N	3	2	5	4	3	3
		D	-99	+1363	-100	-95	-100	-100
27.	Chhattisgarh	A	*	17	0	1	0	0
		N	2	2	5	3	3	2
		D	-90	+869	-100	-73	-100	-100
28.	Coastal Andhra Pradesh	A	*	2	0	0	*	0
		N	3	3	5	4	3	3
		D	-96	-33	-100	-100	-97	-100
29.	Telangana	A	0	12	0	0	0	0
		N	1	1	3	2	2	2
		D	-100	+1643	-100	-100	-100	-100

S. No.	Meteorological Sub-Divisions	For the period from 1 <sup>st</sup> January to						
			08 JAN 2014	07Jan 2015	13 JAN 2016	11 JAN 2017	10 JAN 2018	09 JAN 2019
30.	Rayalaseema	A	0	1	0	0	0	0
		N	1	1	1	1	1	1
		D	-100	+124	-100	-100	-100	-100
31.	Tamil Nadu & Puducherry	A	3	7	0	*	3	0
		N	6	5	12	10	8	7
		D	-57	+54	-99	-98	-61	-99
32.	Coastal Karnataka	A	0	1	0	0	0	0
		N	*	*	*	*	*	*
		D	-100	+659	-100	-100	-100	-100
33.	North Interior Karnataka	A	0	2	0	0	0	0
		N	*	*	1	1	*	*
		D	-100	+716	-100	-100	-100	-100
34.	South Interior Karnataka	A	0	2	0	0	0	0
		N	*	*	1	*	*	*
		D	-100	+425	-100	-100	-100	-100
35.	Kerala	A	*	1	0	0	*	0
		N	2	2	4	3	3	2
		D	-84	-27	-100	-99	-88	-100
36.	Lakshadweep	A	0	0	0	11	4	0
		N	8	7	13	10	9	9
		D	-100	-100	-100	+8	-59	-100
<b>Country as a whole</b>		<b>A</b>	<b>2.2</b>	<b>9.5</b>	<b>2.2</b>	<b>7.6</b>	<b>1.0</b>	<b>2.8</b>
		<b>N</b>	<b>4.0</b>	<b>3.2</b>	<b>7.3</b>	<b>5.8</b>	<b>5.3</b>	<b>4.8</b>
		<b>D</b>	<b>-45</b>	<b>+197</b>	<b>-69</b>	<b>+31</b>	<b>-81</b>	<b>-42</b>

#### SUMMARY

No. of Sub-Divisions with rainfall	For the period from 1 <sup>st</sup> January to						
	08 JAN 2014	07Jan 2015	13 JAN 2016	11 JAN 2017	10 JAN 2018	09 JAN 2019	
Large Excess	-	-	-	04	02	01	
Excess	01	25	01	03	01	01	
Normal	02	02	02	02	00	01	
<b>Total</b>	<b>03</b>	<b>27</b>	<b>03</b>	<b>09</b>	<b>03</b>	<b>03</b>	
Deficient	07	03	03	04	02	00	
Large Deficient	-	-	-	12	06	14	
Scanty	11	05	10	-	-	-	
No rain	15	01	20	11	25	19	
<b>Total</b>	<b>33</b>	<b>09</b>	<b>33</b>	<b>27</b>	<b>33</b>	<b>33</b>	
Data Inadequate	00	00	00	00	00	00	
<b>TOTAL</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	<b>36</b>	

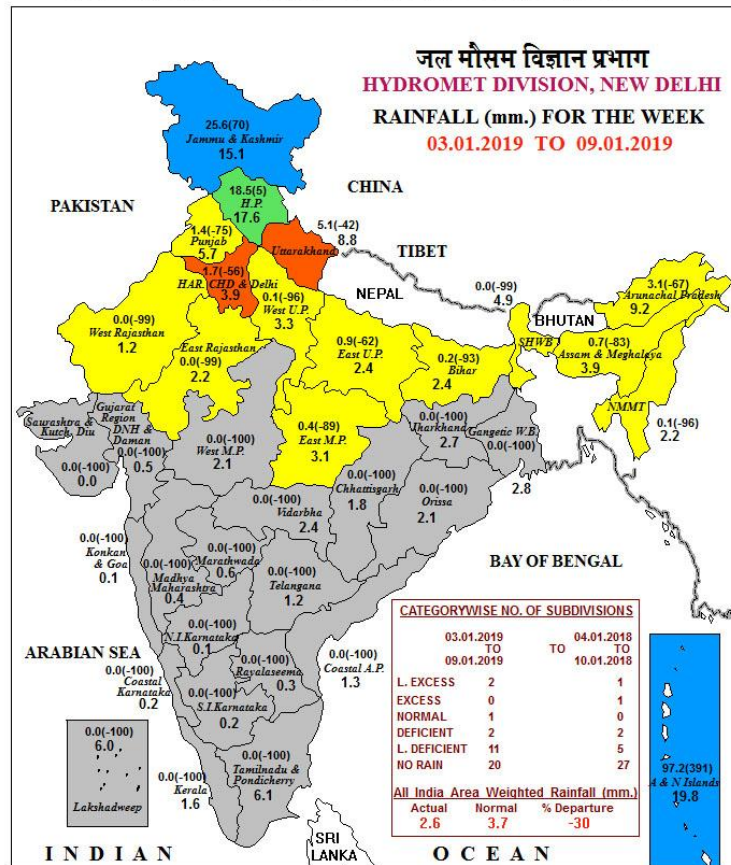
\* Data is rounded off to nearest full figure according to Meteorological convention.

<b>SEASONS : WINTER SEASON</b> (January-February)	<b>PRE-MONSOON SEASON</b> (March-May)
<b>MONSOON SEASON</b> (June-September)	<b>POST-MONSOON SEASON</b> (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**

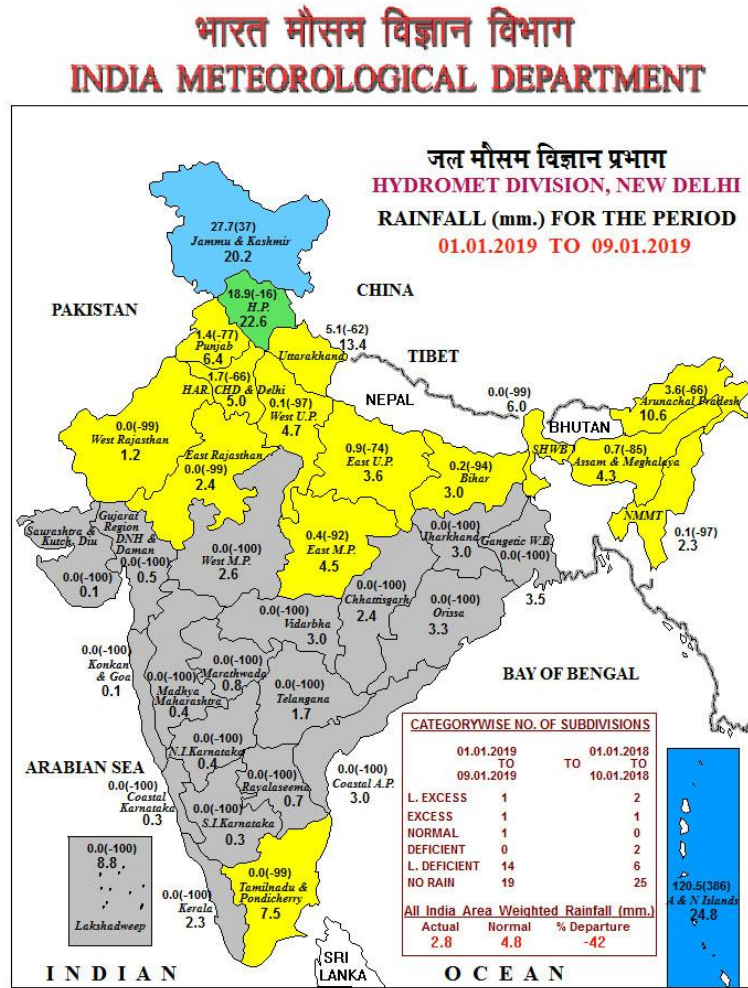


**LEGEND:** ■ L. EXCESS (+60% OR MORE) ■ EXCESS (+20% TO +59%) ■ NORMAL (+19% TO -19%)  
 ■ DEFICIENT (-20% TO -59%) ■ L. DEFICIENT (-60% TO -99%) ■ NO RAIN (-100%) ■ NO DATA

**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.)**  
**(03 JANUARY 2019 TO 09 JANUARY 2019)**

**3 JANUARY 2019**

No significant amount of rainfall.

**4 JANUARY 2019**

**ARUNACHAL PRADESH:** TUTING-1, KOLORIANG-1, **ASSAM & MEGHALAYA:** D/MOHANBARI AERO-1, BADATIGHAT-1, **UTTARAKHAND:** MUNSIYARI-1.

**5 JANUARY 2019**

**HIMACHAL PRADESH:** UDAIPUR-2, KEYLONG-2, POOH-1, **JAMMU & KASHMIR:** SHALIMAR AGRO-4, KUPWARA-4, SRINAGAR AGRO AWS-4, PAHALGAM-4, BANDIPORA-3, BARAMULLA AWS-3, SRINAGAR AERO-3, GULMARG R.S.-3, SRINAGAR-3, RAMBAGH AWS-3, GULMARG AWS-3, HARRAN AWS-3, QAZI GUND-2, JAMMU-1, GUND-1, JAMMU AERO-1, BATOTE-1, BANIHAL-1, KATRA-1.

**6 JANUARY 2019**

**ANDAMAN & NICOBAR ISLANDS:** NANCOWARY-4, CAR NICOBAR-2, PORT BLAIR-2, HUT BAY-2, IAF CARNICOBAR-1, MAYA BANDAR-1, **HARYANA, CHANDIGARH & DELHI:** NARWANA-2, GUHLA-1, ADAMPUR-1, HISSAR-1, SIRSA-1, UCHANA-1, **PUNJAB:** TIBRI-1, PATHANKOT IAF-1, **HIMACHAL PRADESH:** UDAIPUR-3, MANALI-2, DHARMSALA-2, BANJAR-2, PALAMPUR-2, BALDWARA-1, SEO BAGH-1, JOGINDARNAGAR-1, KEYLONG-1, KALPA-1, KHERI-1, SARAHAN-1, KHADRALA-1, GHUMARWIN-1, KANGRA AERO-1, BHUNTAR AERO-1, SALONI-1, CHHATRARI-1, **JAMMU & KASHMIR:** BATOTE-7, BADARWAH-2, HARRAN AWS-1, KUPWARA-1, SRINAGAR AGRO AWS-1, GULMARG AWS-1, ANANTNAG AWS-1, BANIHAL-1, PAHALGAM AWS-1, RAJOURI-1, BARAMULLA AWS-1.

**7 JANUARY 2019**

**ANDAMAN & NICOBAR ISLANDS:** HUT BAY-10, PORT BLAIR-7, MAYA BANDAR-7, CAR NICOBAR-5, LONG ISLAND-3, NANCOWARY-2, **EAST UTTAR PRADESH:** GYANPUR-1, SALEMPUR-1, **WEST UTTAR PRADESH:** BAHERI-1, **UTTARAKHAND:** BAGESHWAR (THMO)-2, UKHIMATH-2, DUNDA-2, BHATWARI-1, UTTAR KASHI-1, UTTAR KASHI (CWC)-1, BARKOT-1, JAKHOLI-1, **HIMACHAL PRADESH:** BHORANJ-4, DALHOUSI ALHA AWS-2, MANALI-2, GOHAR-2, JOGINDARNAGAR-1, SARKAGHAT-1, KHADRALA-1, BIJAH-1, PALAMPUR-1, KOTKHAI-1, KALPA-1, ROHRU-1, BANJAR-1, BHARARI-1, BERTHIN AGRO-1, SUNDARNAGAR-1, DHARMSALA-1, BAIJNATH-1, **JAMMU & KASHMIR:** BADARWAH-1, **EAST MADHYA PRADESH:** SIDHI-AWS-1.

**8 JANUARY 2019**

**ANDAMAN & NICOBAR ISLANDS:** LONG ISLAND-6, MAYA BANDAR-3, NANCOWARY-1, **UTTARAKHAND:** DHARCHULA-2.

**9 JANUARY 2019**

**JAMMU & KASHMIR:** THOISE(IAF)-1.

<b>LEGENDS:</b>		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		