

		<b>Government of India Ministry of Earth Sciences, Meteorological Centre, Shimla</b>					
<b>Past Weather Summary (till 0830 IST) 13-03-2024 Bulletin No.073</b>							
<b>Past 24 hrs. Significant Weather Condition</b> Thunder storm with light rain with hail/snow occurred at isolated places over the state during last 24 hours. No large change in minimum and maximum temperatures during last 24 hours. Average Minimum and Maximum temperatures were normal. Today the Lowest temperature was recorded at Keylong = <b>-5.7 °C</b> . Yesterday's Highest temperature was recorded at <b>Una=28.4 °C</b> .							
<b>Chief amount of Snowfall(cm)</b>		<b>Snowfall: Kufri Tr.</b>					
<b>Rainfall- (mm)</b>		Rainfall: - Rajgarh 13.4, Shimla 7.8, Baijnath 5.0, Kufri 4.0, Gohar 2.0, Jubberhatti 1.3, Dalhousie 1.0, Sunder nagar 0.7, Dhaula Kuan 0.5,					
<b>Past-Impact</b>		NIL					
<b>Synoptic features</b>							
The Western Disturbance as a trough in middle tropospheric westerlies with its axis at 5.8 km above mean sea level now runs roughly along Long. 66°E to the north of Lat. 28°N.							
<b>WEATHER FORECAST for the state of Himachal Pradesh for Next 5 Days</b>						<b>Weather Outlook for subsequent 2 days</b>	
<b>DateArea</b>	<b>13<sup>th</sup> Mar.</b>	<b>14<sup>th</sup> Mar.</b>	<b>15<sup>th</sup> Mar.</b>	<b>16<sup>th</sup> Mar.</b>	<b>17<sup>th</sup> Mar.</b>	<b>18<sup>th</sup> Mar.</b>	<b>19<sup>th</sup> Mar.</b>
<b>Low Hills / Plains</b>	Rain/Snow at most places	DRY	DRY	DRY	DRY	DRY	DRY
<b>Middle Hills</b>	Rain/Snow at most places	Rain/Snow at isolated places	DRY	DRY	DRY	DRY	DRY
<b>High Hills</b>	Rain/Snow at most places	Rain/Snow at isolated places	DRY	DRY	DRY	DRY	DRY
<b>Weather Warning for the state of Himachal Pradesh for Next 5 Days</b>						<b>Weather Warnings for subsequent 2 days</b>	

<b>Warning</b>	Thunderstorm with lighting and hail at isolated places	Thunderstorm with lighting at isolated places	Nil	Nil	Nil	Nil
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**Expected Impact & agriculture advisory**

<b>Impact For Heavy Rain</b>	Disruptions of essential services viz. water and electricity, communications and related services. Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nallahs
<b>Advisory for Fog</b>	NIL.
<b>Impact on Agriculture</b>	<ul style="list-style-type: none"> <li>Keep the livestock indoors due to low temperature, Make adequate arrangements for keeping them warm.</li> <li>In case of low temperature, make adequate arrangements for artificial lighting and heating for animals.</li> <li>Since the temperature is expected to drop, give winter packing to the bee colonies.</li> <li>Advise to give the winter packing immediately to colonies and Give artificial food to honey bees as there is scarcity of flowers during these days.</li> </ul>
<b>Earthquake</b>	NIL

**5 days District-Level Weather Forecast and Weather Warning Bulletin for HIMACHAL PRADESH**

	<b><u>Bulletin No:-</u></b>	<b>073</b>		<b><u>Wednesday 13, Mar. 2024</u></b>		<b><u>Issue Time : 12.00 Hrs. IST</u></b>
<b>District</b>		<b>13-Mar</b>	<b>14-Mar</b>	<b>15-Mar</b>	<b>16-Mar</b>	<b>17-Mar</b>
		<b>Wed.</b>	<b>Thurs.</b>	<b>Fri.</b>	<b>Sat.</b>	<b>Sun.</b>
<b>Bilaspur</b>	<b><i>Spatial Distribution :</i></b>	WS	DRY	DRY	DRY	DRY
	<b><i>Intensity :</i></b>	Light	-	-	-	-
		Rain at most places	-	-	-	-
	<b><i>Probability :</i></b>	Very likely	likely	likely	likely	likely
<b>Chamba</b>	<b><i>Spatial Distribution :</i></b>	WS	ISOL	DRY	DRY	DRY
	<b><i>Intensity :</i></b>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<b><i>Probability :</i></b>	Very likely	likely	likely	likely	likely
<b>Hamirpur</b>	<b><i>Spatial Distribution :</i></b>	WS	DRY	DRY	DRY	DRY
	<b><i>Intensity :</i></b>	Light	-	-	-	-

		Rain at most places	-	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Kangra	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Kinnaur	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Kullu	<i>Spatial Distribution</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Lahaul & Spiti	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Mandi	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Shimla	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<i>Probability :</i>	Very likely	likely	likely	likely	likely
Sirmaur	<i>Spatial Distribution :</i>	WS	ISOL	DRY	DRY	DRY
	<i>Intensity :</i>	Light	Light	-	-	-
		Rain/snow at most	Rain/snow at	-	-	-

		places	isolated places			
	<b>Probability :</b>	<b>Very likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>
<b>Solan</b>	<b>Spatial Distribution :</b>	<b>WS</b>	<b>ISOL</b>	DRY	DRY	DRY
	<b>Intensity :</b>	<b>Light</b>	<b>Light</b>	-	-	-
		Rain/snow at most places	Rain/snow at isolated places	-	-	-
	<b>Probability :</b>	<b>Very likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>
<b>Una</b>	<b>Spatial Distribution :</b>	<b>WS</b>	DRY	DRY	DRY	DRY
	<b>Intensity :</b>	<b>Light</b>	-	-	-	-
		Rain at most places	-	-	-	-
	<b>Probability :</b>	<b>Very likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>	<b>likely</b>

### **District Level Weather Warning Bulletin**

#### **Himachal Pradesh**

Dated 13.03.2024 Bulletin No. 073

Issued at **1200 IST**

<b>District</b>	<b>Today</b>	<b>Day-2</b>	<b>Day-3</b>	<b>Day-4</b>	<b>Day-5</b>
<b>Una</b>	Thunderstorm with lighting at isolated places	Nil	Nil	Nil	Nil
<b>Bilaspur</b>	Thunderstorm with lighting at isolated places	Nil	Nil	Nil	Nil
<b>Hamirpur</b>	Thunderstorm with lighting at isolated places	Nil	Nil	Nil	Nil
<b>Chamba</b>	Thunderstorm with lighting at isolated places	Thunderstorm with lighting at isolated places	Nil	Nil	Nil
<b>Kangra</b>	Thunderstorm , lighting with hail at isolated places	Thunderstorm with lighting at isolated places	Nil	Nil	Nil
<b>Kullu</b>	Thunderstorm , lighting with hail at isolated places	Thunderstorm with lighting at isolated places	Nil	Nil	Nil
<b>Mandi</b>	Thunderstorm , lighting with hail at isolated places	Thunderstorm with lighting at isolated places	Nil	Nil	Nil
<b>Shimla</b>	Thunderstorm , lighting with hail at isolated places	Nil	Nil	Nil	Nil
<b>Solan</b>	Thunderstorm with lighting at isolated places	Nil	Nil	Nil	Nil
<b>Sirmaur</b>	Thunderstorm , lighting with hail at isolated places	Nil	Nil	Nil	Nil
<b>Kinnaur</b>	Nil	Nil	Nil	Nil	Nil
<b>Lahul &amp; Spiti</b>	Nil	Nil	Nil	Nil	Nil

## District Level Impact Weather Warning Bulletin

<b>Himachal Pradesh</b>	<b>13<sup>th</sup> March</b>	<b>14<sup>th</sup> March</b>
<b>Una</b>	Disruptions of essential services viz. water and electricity, communications and related services	NIL.
<b>Bilaspur</b>	Disruptions of essential services viz. water and electricity, communications and related services	NIL.
<b>Hamirpur</b>	Disruptions of essential services viz. water and electricity, communications and related services	NIL.
<b>Chamba</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah .	NIL.
<b>Kangra</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah	NIL.
<b>Kullu</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah .	NIL.
<b>Mandi</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah	NIL.
<b>Shimla</b>	Disruptions of essential services viz. water and electricity, communications and related services. Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah.	NIL.
<b>Solan</b>	Disruptions of essential services viz. water and electricity, communications and related services. Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah.	NIL.
<b>Sirmaur</b>	Disruptions of essential services viz. water and electricity, communications and related services. Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah.	NIL.
<b>Kinnaur</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah.	NIL.
<b>Lahaul &amp; Spiti</b>	Disruptions of essential services viz. water and electricity, communications and related services. Avalanche, Landslide, rock fall and mudslides, Blocking/washout of roads/highways/bridges Nullah.	NIL.

# DISTRICTWISE WEATHER FORECAST FOR THE NEXT 5 DAYS

**DAY 1(UPTO 0830 IST OF 14.03.2024)**



**DAY 2(UPTO 0830 IST OF 15.03.2024)**



**DAY 3(UPTO 0830 IST OF 16.03.2024)**



**DAY 4(UPTO 0830 IST OF 17.03.2024)**



**DAY 5(UPTO 0830 IST OF 18.03.2024)**



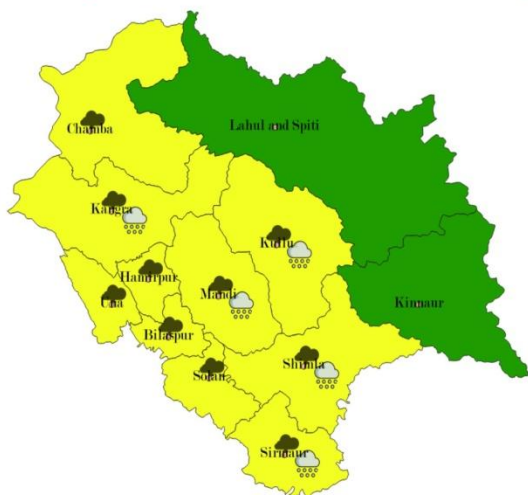
## Legends

- DRY
- ISOL( 0 TO 25%)
- SCT(26 TO 50%)
- FWS(51 TO 75%)
- WS(76 TO 100%)

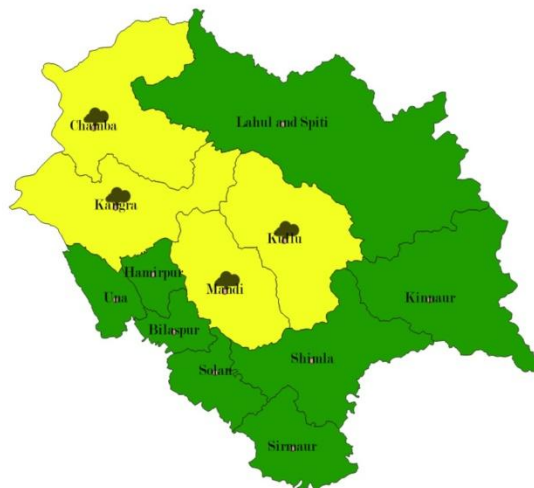
\*percentage based on the number of stations reporting rainfall

# DISTRICTWISE WEATHER WARNING FOR THE NEXT 5 DAYS

**DAY 1(UPTO 0830 IST OF 14.03.2024)**



**DAY 2(UPTO 0830 IST OF 15.03.2024)**



**DAY 3(UPTO 0830 IST OF 16.03.2024)**



**DAY 4(UPTO 0830 IST OF 17.03.2024)**



**DAY 5(UPTO 0830 IST OF 18.03.2024)**



## Legends.

### Warning.

- NO WARNING (NO ACTION)-कोई कार्यवाही नहीं
- WATCH (BE UPDATED)-निगरानी रखे
- ALERT(BE PREPARED)-सतर्क रहे
- WARNING(TAKE ACTION)-कार्यवाही करे

### legends

- THUNDERSTORM
- Heavy rain with thunderstorm
- SNOW
- Heavy to Very Rain with thunderstorm
- HEAT WAVE
- GUSTY WINDS(Wind speed 30-40kmph)
- HAIL
- COLD WAVE
- FOG
- Ground Frost



## LEGENDS:- IMPACT BASED FORECAST

COLOUR CODES	
Risk Level	Response
Very Low	No Action
Low	Be Updated
Medium	Be Prepared
High	Take Action

Very Low Impact	Low Impact	Medium Impact	High Impact
Business as Usual	Localized = Single District Municipality affected Business as usual	Localized = Single District Municipality affected Short term strain on emergency personnel	Widespread = Multiple Districts affected Prolonged strain on emergency personnel
<ul style="list-style-type: none"> <li>Some pooling of water on roads or in rural settlements</li> <li>Day to day activities not disturbed</li> <li>Wet roads</li> <li>Minimal traffic congestion</li> <li>Isolated mudslides and rock falls</li> </ul>	<ul style="list-style-type: none"> <li>Localized flooding of susceptible informal settlements or roads, low lying areas and bridges</li> <li>Localized and short term disruption to municipal services (water, electricity, etc.)</li> <li>Major roads affected but can be used, increased travel times</li> <li>Minor motor vehicle accidents due to slippery roads</li> <li>Closure of roads crossing low water bridges</li> <li>Localized mudslides and rock falls</li> </ul>	<ul style="list-style-type: none"> <li>Flooding of roads and settlements (formal and informal)</li> <li>Disruption to municipal services (water, electricity, etc.)</li> <li>Major disruption of traffic flow due to major roads being flooded or closed</li> <li>Possible damage to roads and bridges</li> <li>Danger to life (fast flowing streams &amp; deep water)</li> <li>Some communities temporarily not accessible/ cut-off</li> <li>Displacement of affected communities</li> <li>Damage to property, infrastructure and loss of livelihood</li> <li>Mudslides and rock falls</li> </ul>	<ul style="list-style-type: none"> <li>Widespread flooding of roads and settlements</li> <li>Widespread, prolonged disruption to municipal services (water, electricity, etc.)</li> <li>Widespread transport routes and travel services severely affected</li> <li>Major roads and bridges damaged or washed away</li> <li>Danger to life (fast flowing streams &amp; deep water)</li> <li>Large communities not accessible/cut-off for a prolonged period</li> <li>Widespread displacement of affected communities</li> <li>Widespread damage to property, buildings and loss of livelihoods</li> <li>Widespread mudslides and rock falls</li> </ul>

## WARNING AND FORECAST

WARNING (TAKE ACTION)	WATCH (BE UPDATED)
ALERT (BE PREPARED)	NO WARNING (NO ACTION)

RAINFALL INTENSITY / वर्षा की तीव्रता		RAINFALL DISTRIBUTION / वर्षा का वितरण		PROBABILITY OF OCCURRENCE / घटित होने की संभावना		SPELL OF RAINFALL / वर्षा का दौर	
VERY LIGHT RAIN / बहुत हल्की वर्षा	TRACE - 2.4 mm	ISOLATED PLACES / कहीं-कहीं	ISOLATED (UPTO 25% AREA)	UNLIKELY	Up to 25%	INTENSE SPELL / तीव्र दौर	20-30 mm/hour
LIGHT RAIN / हल्की वर्षा	2.5- 15.5 mm	FEW PLACES / कुछ जगह	SCATTERED (BETWEEN 25- 50% AREA)	LIKELY	26 to 50%		
MODERATE RAIN / मध्यम वर्षा	15.6 – 64.4 mm	MANY PLACES / अनेक जगह	FAIRLY WIDE SPREAD (BETWEEN 50-75% AREA)	VERY LIKELY	51 to 75%	VERY INTENSE SPELL / अति तीव्र दौर	30-50 mm/hour
HEAVY RAIN /	64.5- 115.5 mm						
भारी वर्षा							
VERY HEAVY RAIN / बहुत भारी वर्षा	115.6- 204.4 mm	MOST PLACES / अधिकांश जगह	WIDE SPREAD (MORE THAN 75% AREA)	MOST LIKELY	Above 75%	EXTREMELY INTENSE SPELL / अत्यंत तीव्र दौर	50-100 mm/hour
EXTREMELY HEAVY RAIN / अत्यंत भारी वर्षा	> 204.4 mm						

♦Heavy snow: 64.5 – 115.5 cm (in depth) & Very heavy snow: 115.6 – 204.4 cm (in depth). (As per the new guidelines w.e.f January 1, 2016).  
♦Forecast and Warning for a particular day is valid from 0830 hours IST of day till 0830 hours IST of next day.

Region	Areas / Districts covered
HIGH HILLS	L & S, KINNAUR, CHAMBA, UPPER PARTS OF DISTRICTS OF KULLU AND MANDI.
MIDDLE HILLS	SHIMLA, MANDI, KULLU, SOME PARTS OF CHAMBA (SIHUNTA, CHOWARI AND CHAMBA) MOST PARTS OF DISTRICTS OF SOLAN AND SIRMAUR
LOW HILLS / PLAINS	UNA, BILASPUR, HAMIRPUR, PARTS OF DISTRICTS OF KANGRA (NURPUR, JWALA & DEHRA) SOLAN (NALAGARH, BADDI, ARKI & KUNIHAR) AND SIRMAUR (NAHAN & PAONTA SAHIB).