

Dated: 09.01.2025

Time of Issue: 12:15 hrs.IST

## PRESS RELEASE

**Subject: 1. Rainfall & Snowfall activities and cold day conditions very likely over Himachal Pradesh on 11<sup>th</sup> and 12<sup>th</sup> Jan, 2025 (Yellow Alert).**

**2. Abatement of cold wave, fog and ground frost conditions very likely from Himachal Pradesh from 11<sup>th</sup> Jan, 2025.**

### Weather System

- A Western Disturbance as a Cyclonic Circulation lies over southwest Iran in mid tropospheric levels. It is very likely to move east-northeastwards.
- Subtropical westerly Jet Stream with core winds of the order upto 135 knots in upper tropospheric levels continues to prevail over North India.

Under the influence of above synoptic features and favourable atmospheric conditions, following weather is very likely over the Himachal Pradesh:

#### ❖ Rainfall/Snowfall :

1. Light **rainfall** with few spells of **moderate** rainfall and thunderstorm accompanied with lightning very likely over some parts of low hills/plain areas of the state mainly during noon/afternoon of 11<sup>th</sup> Jan. to afternoon of 12<sup>th</sup> Jan. 2025.
2. Light **snowfall** with few spells of **moderate** snowfall very likely over some parts of the mid & high hills of the state during evening of 11<sup>th</sup> Jan. 2025 to mid night of 12<sup>th</sup> Jan / early morning of 13<sup>th</sup> Jan. 2025.
3. Few spells of light **rainfall/snowfall** with one or two **moderate** spells also likely over some of the tourist destinations in the state including Shimla City mainly during evening of 11<sup>th</sup> Jan. 2025 to forenoon of 12<sup>th</sup> Jan. 2025.

## Moderate spells of snowfall over the region may lead to:

- ❖ Vehicles skidding due to slippery roads.
- ❖ Low visibility.
- ❖ Possibility of vehicle collision
- ❖ Traffic congestion.
- ❖ Basic essential services may affect.

## Therefore, it is advised to:

- ❖ Drive carefully.
- ❖ Limit outdoor activities during the event.
- ❖ Follow the state government advisories.

### ❖ Cold Wave Wave conditions (Yellow Alert)

- No large change in minimum & maximum temperatures during next 2 days. Thereafter, minimum temperature very likely to rise by 2-3 °C and maximum temperatures likely to fall by 4-5°C over some parts of the state for subsequent 2 days. Leading to ;
  - Cold day conditions very likely to prevail over some parts of the state on 11<sup>th</sup> and 12<sup>th</sup> Jan. 2025. **(Impacts and advisories are attached in annexure).**
  - Abatement of cold wave conditions over most parts of the state from 11<sup>th</sup> Jan. 2025 onwards for subsequent 3 days.

### ❖ Dense Fog and Ground Frost conditions (Yellow Alert)

- **Dense fog** and **ground frost** conditions very likely to subside from many parts of the state from 11<sup>th</sup> Jan. 2025 onwards for subsequent 3 days. ***(Impacts and advisories are attached in annexure).***

**Expected Impact and Action suggested due to Cold wave/ Cold day, Fog & Snowfall conditions over Himachal Pradesh**

Weather Warning	Affected areas	Impacts and advisories
<b>Cold Wave/ Cold Day</b>	Una, Hamirpur, Bilaspur, Mandi, & Kangra	<ul style="list-style-type: none"> <li>• Wear several layers of loose fitting, light weight, warm woolen clothing.</li> <li>• Keep dry, if wet, change cloths immediately.</li> <li>• Take safety measures while using electrical and gas heating devices.</li> <li>• Extreme care needed for vulnerable people.</li> <li>• Seek medical attention as soon as possible if suffering from frostbite/ Hypothermia.</li> <li>• Protect livestock from cold weather. Make adequate arrangements for animals.</li> <li>• Make necessary arrangements to protect crops from cold and frost.</li> <li>• Limit outdoor activities.</li> </ul>
<b>Fog</b>	Una, Hamirpur, Bilaspur, Mandi, & Kangra	<ul style="list-style-type: none"> <li>• Be updated.</li> <li>• Drive safe and slowly.</li> <li>• Use fog lights.</li> </ul>
<b>Snowfall</b>	High , Mid & adjoining low hills	<ul style="list-style-type: none"> <li>• Possibility of vehicles skidding due to slippery roads.</li> <li>• Drive slowly &amp; carefully.</li> <li>• Possibility of traffic congestion.</li> <li>• Basic essential services may affect.</li> <li>• Limit outdoor activities.</li> <li>• Routine outdoor activities may affect.</li> <li>• Follow the state government advisories.</li> </ul>

## DISTRICTWISE WEATHER FORECAST FOR THE NEXT 5 DAYS

**DAY 1(UPTO 0830 IST OF 10.01.2025)**



**DAY 2(UPTO 0830 IST OF 11.01.2025)**



**DAY 3(UPTO 0830 IST OF 12.01.2025)**



**DAY 4(UPTO 0830 IST OF 13.01.2025)**



**DAY 5(UPTO 0830 IST OF 14.01.2025)**



### 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

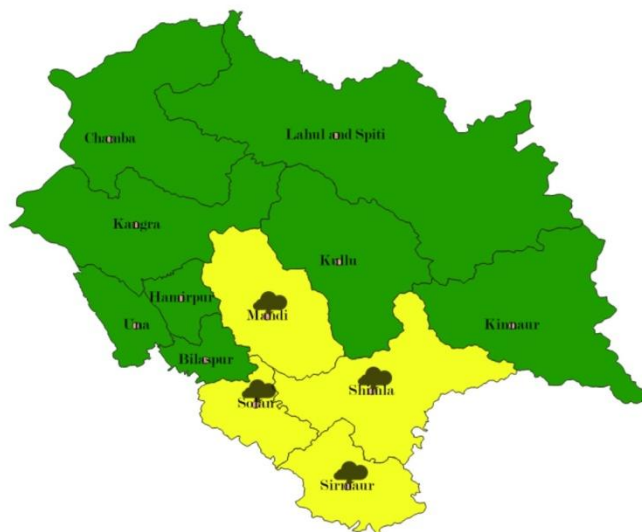
## DAY 1(UPTO 0830 IST OF 10.01.2025)



## DAY 2(UPTO 0830 IST OF 11.01.2025)



## DAY 3(UPTO 0830 IST OF 12.01.2025)



## DAY 4(UPTO 0830 IST OF 13.01.2025)



## DAY 5(UPTO 0830 IST OF 14.01.2025)













### 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 and Criteria:

Fog	Heavy Snow	Cold Wave	<b>COLOUR CODED WARNING</b> <div style="background-color: #90EE90; padding: 2px;">No Warning (No Action)</div> <div style="background-color: #FFFF00; padding: 2px;">Watch (Be Aware)</div> <div style="background-color: #FFA500; padding: 2px;">Alert (Be Prepared To Take Action)</div> <div style="background-color: #FF0000; padding: 2px;">Warning (Take Action)</div>
Heavy Rain	Dust Storm	Cold Day	
Very Heavy Rain	Heat Wave	Ground Frost	
Extremely Heavy Rain	Warm Night		
Thunder & Lightning	Hot Day		
Hailstorm	Hot & Humid		
Dust Raising Winds	Strong Surface Winds		

Terms	Probability of Occurrence (%)
Unlikely	< 25
Likely	25 - 50
Very Likely	50 - 75
Most Likely	> 75

RAINFALL INTENSITY		SPATIAL DISTRIBUTION		PROBABILITY OF OCCURENCE	
VERY LIGHT RAIN	TRACE-2.4mm	DRY	NO RAINFALL	UNLIKELY	≤ 25%
LIGHT RAIN	2.5- 15.5mm	ISOL (ISOLATED PLACES)	UPTO 25% AREA	LIKELY	26- 50%
MODERATE RAIN	15.6- 64.4mm	SCT (FEW PLACES)	25- 50% AREA	VERY LIKELY	51- 75%
HEAVY RAIN	64.5-115.5mm	FWS (MANY PLACES)	50- 75% AREA		
VERY HEAVY RAIN	115.6-204.4mm			MOST LIKELY	> 75%
EXTREMELY HEAVY RAIN	>204.5mm	WS (MOST PLACES)	>75% AREA		

<b>Cold Wave</b>	<p><b>When minimum temperature of a station <math>\leq 10^{\circ}\text{C}</math> for plains and <math>\leq 0^{\circ}\text{C}</math> for hilly regions.</b></p> <p><b>(a). Based on departure</b></p> <p><b>Cold Wave:</b> Minimum Temperature Departure from normal <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math>.</p> <p><b>Severe Cold Wave:</b> Minimum Temperature Departure from normal <math>\leq -6.5^{\circ}\text{C}</math></p>
	<p><b>(b) Based on actual Minimum Temperature (for Plains only)</b></p> <p><b>Cold Wave :</b> When Minimum Temperature is <math>\leq 4.0^{\circ}\text{C}</math></p> <p><b>Severe Cold Wave:</b> When Minimum Temperature is <math>\leq 2.0^{\circ}\text{C}</math></p>
	<p><b>(c) For Coastal Stations</b></p> <p>When Minimum Temperature departure is <math>\leq -4.5^{\circ}\text{C}</math> &amp; actual Minimum Temperature is <math>\leq 15^{\circ}\text{C}</math></p>
<b>Fog</b>	<p><b>Phenomenon of small droplets suspended in air and the horizontal visibility <math>&lt; 1\text{km}</math></b></p> <p><b>Moderate Fog:</b> When the visibility between 500-200 metres</p> <p><b>Dense Fog:</b> when the visibility between 50- 200 metres</p> <p><b>Very Dense Fog:</b> when the visibility <math>&lt; 50</math> metres</p>
<b>Frost</b>	<p><b>Ice deposits on ground</b></p> <p>Air temperature <math>\leq 4^{\circ}\text{C}</math> ( over Plains)</p>
<b>Cold Day</b>	<p>It should be considered when minimum temperature is <math>10.0^{\circ}\text{C}</math> or less for plains and <math>0^{\circ}\text{C}</math> or less for Hilly regions.</p> <p><b>Cold day:</b> Maximum Temperature Departure is <math>-4.5^{\circ}\text{C}</math> to <math>-6.4^{\circ}\text{C}</math></p> <p><b>Severe Cold day:</b> Maximum Temperature Departure is <math>&lt; -6.4^{\circ}\text{C}</math></p>

Regards,  
Met Centre Shimla

**For latest Weather Bulletin and warnings kindly visit following links**

Website:<https://mausam.imd.gov.in/shimla/>

Twitter-<https://twitter.com/himachalmausam>

Facebook-<https://www.facebook.com/profile.php?id=100018411811087>

