

Jharkhand Weather summary-2025

- **Synoptic system: Year 2025**
- **Winter:**
 - **January-2025**
 - **Western Disturbance/ induced cyclonic circulation** on 06-01-25 & 07-01-2025 caused cloudy weather over North & Central parts of Jharkhand. Rainfall also occurred at one or two places in Northwest part of the state. Rest of the WDs led to only temperature variation over the state.
 - **February-2025**
 - The **North-south lower level trough** running across and in the neighbourhood of the state of Jharkhand during 19-02-2025 to 22-02-2025 was the main weather system causing rain, thunderstorm and also hail in the state of Jharkhand.
- **Pre-Monsoon:**
 - **March-2025**, The lower tropospheric level trough, cyclonic circulation, wind discontinuity in the neighbourhood and to the west of Jharkhand state were the main synoptic features influencing the weather of Jharkhand. Sometimes middle and Upper tropospheric trough in westerlies were also observed over the state.
 - Above systems led to convective activity causing Rain/ Thundershower, gusty wind and also the hail over the state at different interval of time during the month of March, 2025.
 - **April-2025**, Low-Pressure Area over southwest & adjoining southeast Bay of Bengal on 08th, the cyclonic circulations, North-South & East-West trough in lower tropospheric level extending upto 1.5 KM above mean sea level and also trough in Westerly extending up to Mid tropospheric level were the main synoptic systems observed over and in neighbourhood of Jharkhand state during April-2025 influencing the weather of Jharkhand.
 - Above systems led to convective activity causing Rain/ Thundershower, gusty wind and also the hail over the state at different interval of time during the month of April, 2025.
 - **In May-2025**, the **Cyclonic circulation**, East-West & North-South troughs over Jharkhand state and its neighbourhood extending mostly in lower levels (925-850) hpa were the main synoptic systems causing convective activity over the state. Besides these, **Deep depression** which laid centered over North-west Bay of Bengal on 29.05.2025, gradually moving nearly northwards and weakening into depression & well marked Low, were also the major systems influencing the weather of Jharkhand state. By 31.05.2025, above system further weakened and became less marked.
 - **Western Disturbances:** There were seven Western Disturbances (WDs) observed over Indian region and their periods were during 1-3, 3-9, 8-15, 9-11, 17-22, 25-27 and 28-31 May. **But none of above WDs had significant contribution to convective activity over the state of Jharkhand.**
- **Monsoon Season-2025:**
 - **Total 16 Low pressure systems (LPS) formed in BOB during monsoon, 2025. It includes 01 DD, 06 D, 02 WML and 07 Lows. All these systems contributed significantly to cause rainfall over the state of Jharkhand.**

➤ **Post Monsoon:**

- **October-2025:**

- A total of four **Low Pressure Systems** formed in North Indian ocean during the month of October-2025. **Severe cyclonic storm “SHAKTI”** (01-07 October) over North-East Arabian Sea, **Deep Depression** (02-03 October) over WC Bay of Bengal, **Well Marked Low** (21-23 October) South West Bay of Bengal, **Severe cyclonic storm “Montha”** (25-30 October) over Bay of Bengal.

- Except Severe cyclonic storm “SHAKTI”, all the above three systems influenced the weather of Jharkhand state.

- **November-2025:**

- One **Low pressure area, (Remnant of severe cyclonic storm “Montha”)** lay over northern part of Gangatic West Bengal on 01.11.2025. It caused light rain at isolated places over the state of Jharkhand.

- Two **Cyclonic storms** formed over North Indian ocean- one **“Senyar”** over strait of Malacca and adjoining North-East Indonesia (25-27 November, 2025) and another **“Ditwah”** over south-West Bay of Bengal (26-30 November, 2025). The second cyclonic storm “Ditwah” caused cloudy weather and isolated rain over southern & adjoining central parts of the state. The first one being very far from the state had no impact over the state.

- A total of 04 WDs impacted in terms of temperatures over North India and almost all were dry WDs: WDs(03-06, 08-10, 26-30, 29-01 Dec) all moved across North West India.

- On most occasions in the month, Northerly to northwesterly wind prevailed over the state resulting in variation of day and night temperatures over the state.

- **December-2025:**

- **Cyclonic storm “Ditwah”** and its remnant as **Deep Depression** observed over South-West Bay of Bengal and adjoining West Central Bay of Bengal on 30-11-2025 & 01-12-2025 respectively. This system led to light rainfall over southern part of Jharkhand state.

- Total of eight **Western Disturbances (WDs)** formed during the month, which is higher than the normal frequency of six (occurring during 1–5, 4–6, 6–9, 12–17, 13–16, 18–20, 17–24, and 26–31 December). However, most of these systems were feeble in intensity and had shorter spatial and temporal extent. These systems were responsible for variation in Day & Night temperature over the state of Jharkhand which caused cold wave, cold Day and foggy weather conditions over the state.

➤ **Rainfall:**

- Winter

- On 07 days rainfall was observed in the state in **Winter-2025**.
- The highest rainfall in the winter season was recorded at **Torpa (Khunti) – 82.4 mm on 21.02.2025**.

- Pre-Monsoon

- Rainfall occurred on 59 days in the season.
- The highest rainfall in Pre-Monsoon-2025 was recorded at **Chaibasa Sadar (West Singhbhum District) – 102.6 mm on 22.05.2025**.

- **Monsoon:**

- Rainfall occurred daily throughout the season.

- **Heavy to Extremely heavy rainfall occurred on 68 days over Jharkhand during Monsoon-2025.**
- **Monsoon season`s highest rainfall recorded during last 24 hours was 306.8 mm at Baharagora (East Singhbhum District) on 29.06.2025.**
- **Post Monsoon:**
 - Rainfall occurred on 20 (17 days in October + 02 days in November+01 days in December) Nos. of days over the state of Jharkhand in Post Monsoon season, 2025.
 - Heavy (05 days) to very heavy (03 days) rainfall occurred on 08 Nos. of days in October, Heavy rain on 01 day in November and no heavy rain in December, 2025 over Jharkhand.
 - The **highest rainfall** observed in a day (during last 24 hours) in October, 2025 was 185.0 mm at Bhawanathpur (Garhwa District) **on 04.10.2025. It is also the highest rainfall recorded in a day in Post Monsoon-2025.**
- **Yearly Rainfall-2025**

Month	Actual (mm)	Normal (LPA) (mm)	Departure (%)	Category
Winter, 2025	4.0	25.4	-84	Large Deficient
Pre-Monsoon, 2025	168.9	83.3	+ 103	Large Excess
SW Monsoon, 2025	1198.8	1022.9	+17	Normal
Post Monsoon, 2025	106.1	89.1	+19	Normal

- **Cold Wave & Cold Day:**
 - **Winter:**
 - Foggy condition prevailed at 15 Nos of days at isolated places during January, 2025 over Jharkhand.
 - Cold wave on 01 day (11th) and no Cold Day were observed over Jharkhand in January-2025.
 - **Post Monsoon:**
 - **Fog:**
 - In October-2025, Fog reported on 08 days (06, 07, 20-22, 24, 25, 29) in the state.
 - In November-2025, Shallow to moderate fog occurred on 03 days (22,24,25th) in the month.
 - In December-2025, Shallow to Moderate fog at isolated places occurred on 27 days (01-04, 09-31) during December, 2025 over Jharkhand. Dense fog reported at isolated places on 04 days (19-21,23) in December, 2025.
 - **Cold Wave:** No cold wave in October, 05 days (15,16,17,18,27th) in November and 04 days (06-07, 26-28, 30-31) Cold wave in December, 2025..
 - **Cold Day:** No cold day in October and November whereas 07 days (21-23, 28-31) in December, 2025.

➤ **Heat Wave:**

- **Heat wave to severe heat wave** conditions prevailed on 02 days on 16th & 17th during March, 2025 over Jharkhand. No Heat wave was realized in the state in April & May, 2025.
- No heat wave occurred in the **Monsoon season-2025**.

➤ **Hail/ Thunderstorm**

- Total 02 no of **Hail** days was reported in Winter-2025
- Total 14 no of **Hail** days was reported in Pre-monsoon-2025.
- Total 44 no of **Thunderstorm** days was reported in Pre-monsoon-2025.
- Thus on 93 days **thunderstorm** occurred over Jharkhand state during monsoon-2025.

- For detailed weather information, kindly mail us to: metranchi.cs@gmail.com