

YEARLY WEATHER REPORT-2022 (JHARKHAND)

HIGHLIGHTS

➤ **Main Synoptic systems:**

- Total 17 numbers of W.D in the year 2022 influenced the weather of state of Jharkhand.
- Only 02 numbers of Low pressure systems that formed in October, 2022 had some impact on Jharkhand state.

➤ **Rainfall:**

➤ **Winter (January-February-2022) :**

- The seasonal rainfall till February, 2022 was above normal (Large excess) with departure +122% of LPA of the season (Winter).

The Highest rainfall observed in a day (during last 24 hours) in the season is 80.0 mm at Rajmahal (Sahebganj District) on 04.02.2022.

➤ **Pre-Monsoon (March-May-2022) :**

- Observed rainfall over the state was **normal** for the season. Cumulative rainfall (seasonal rainfall since 01.03.2022) till May, 2022 over the state is 72.2 mm and its departure from seasonal normal rainfall of 83.3 mm is - 13% which is Normal rainfall (Departure -19% to +19%).
- The Highest rainfall observed in a day (during last 24 hours) in the season is 129.2 mm at Panchet (Dhanbad District) on 11.05.2022.

➤ **Monsoon (June-September-2022) :**

- During the month of June & July, 2022, the rainfall departure became -49% of its LPA. The rainfall departure in the month of August & September, 2022 were +13% & +2% respectively, whereas for whole monsoon season it came out to -20% of Long Period Average (LPA). It was a **near normal rainfall** (Departure -19% to +19%).
- The highest rainfall recorded during last 24 hours was **191.6 mm at Chaibasa** (West Singhbhum District) on **20.08.2022 in the season.**
- The year 2022 received the 2nd lowest monsoon rainfall of 817.6 mm since the year 2011. The lowest monsoon rainfall year since 2011 is the year 2018 with rainfall of 784.4 mm.
- The highest monsoon rainfall year since the year 2011 is the year 2011 with rainfall 1160.6 mm.

➤ **Post-Monsoon (June-September-2022) :**

- The observed seasonal rainfall (from 01st October, 2022 to 31st December, 2022) over Jharkhand state as a whole was 91.7 mm against the normal(LPA) rainfall of 89.1 mm and the departure was +03%. Cumulatively it was a Normal rainfall over the state.
- The highest rainfall observed in a day (during last 24 hours) in October, 2022 was 88.6 mm at Jamshedpur City (East Singhbhum District) on 12.10.2022.
- **Southwest monsoon** set in over Kerala on **1st June 2022**, coinciding with its normal date of onset over Kerala. Whereas, it arrived in **Jharkhand** on **18th June 2022** and covered entire state on **20 June 2022**. Thus it covered the whole state of Jharkhand on its normal date 20th June 2022 of entire coverage.

- **Southwest Monsoon 2022 withdrew entirely from the state of Jharkhand on 20.10.2022.**
- **The observed yearly rainfall of 1044.2 mm against the normal rainfall of 1220.7 mm for the year-2022 was normal because its departure was -14% (Normal Departure +19 % to -19%)**

➤ **Temperatures:**

- Observed annual maximum temperature was normal for Ranchi, Jamshedpur, Daltonganj and Bokaro while above normal for Chaibasa.
- Observed annual minimum temperature was normal for all the above five cities.
- Based on above, observed annual maximum and minimum temperatures were found normal for the state of Jharkhand in the year, 2022.
- The highest maximum temperature 46.1°C was recorded at Daltonganj on 15.05.2022.
- The lowest minimum temperature 06.2 °C was recorded at Bokaro on 18.01.2022.

➤ **Thunderstorm activity & casualties:**

- Overall total 979 numbers of nowcasts were issued against 134 numbers of thunder stormy days. As per media reports, total 139 casualties/losses were reported and 28 injuries were reported in the year 2022 for the state of Jharkhand.

➤ **Cold Wave:**

(a) **Season: Winter**

- **Cold wave** condition prevailed on 03 nos. of days at isolated places over Jharkhand during Winter- 2022.
- **Cold day condition on 02 nos. of days prevailed at isolated places over Jharkhand during Winter-2022.**
- **No cold wave or cold day was reported in remaining seasons.**

➤ **Fog:**

- On 26 nos. of days **foggy weather** conditions was observed at isolated places over Jharkhand during Winter-2022.
- On 02 nos. of day's foggy weather conditions was observed at isolated places over Jharkhand during Pre-monsoon-2022.
- No foggy condition was reported in Monsoon Season.
- Foggy condition prevailed at 24 Nos of days at isolated places in Jharkhand state, mostly in eastern part, during December, 2022 only.
- **On total 52 nos. of days foggy weather conditions was observed at isolated places over Jharkhand during the year-2022.**

➤ **Heat wave:**

- **Heat wave** condition prevailed on 41 nos. of days at isolated places over Jharkhand during Pre-Monsoon, 2022.
- No **hot day** was reported in Jharkhand during Pre-monsoon, 2022.
- **No heat wave or hot day was reported in remaining seasons.**

➤ **Warm Night:**

- **Warm Night** condition on 14 nos. of days prevailed at isolated places over Jharkhand during Pre-monsoon.
- **No warm night was reported in remaining seasons.**