



## Weak Monsoon in Haryana

### Why in News?

According to the [India Meteorological Department](#), due to weak monsoon Haryana may need to contemplate **relief efforts for farmers who depend on monsoon rainfall** and methods to alleviate water shortages.

### Key Points

- According to the data, **Haryana ended in a deficit of 38% from its normal** as the state recorded rainfall at 114.6mm.
- Monsoon conditions were in a "weak phase" through June and July in the region due to the **delay in formation of La Nina**, a phenomenon that **typically brings favourable monsoon rainfall to the Indian subcontinent**.
  - Rainfall in deficit zones is expected to improve with the formation of La Nina later in August or early September.
- A researcher from the [Center for Study of Science, Technology and Policy \(CSTEP\)](#) think-tank stated that another climate phenomenon known as the [Indian Ocean Dipole](#), which **impacts the waters in the Indian Ocean, is currently in a neutral phase**.
  - A **positive Indian Ocean Dipole (IOD)** brings favorable rainfall during the monsoon season.
- In the event of lower-than-expected rainfall following the withdrawal of the monsoon season, experts have indicated that the **government will need to implement contingency plans**.
  - These plans may include providing **additional support to farmers, ensuring the availability of water for irrigation purposes**, and implementing **other water conservation measures**.

### La Nina

- La Nina **means 'The Little Girl' in Spanish**. It is also sometimes called El Viejo, anti-El Nino, or simply "a cold event."
- La Nina events represent periods of **below-average sea surface temperatures** across the [east-central Equatorial Pacific](#).
  - It is indicated by sea-surface temperature decreased by more than 0.9°F for at least five successive three-month seasons.
- The La Nina event is observed when the **water temperature in the Eastern Pacific gets comparatively colder than normal**, as a consequence of which, there is a **strong high pressure over the eastern equatorial Pacific**.

### The Indian Ocean Dipole (IOD)

- IOD, sometimes referred to as the **Indian Nino**, is similar to the **El Nino** phenomenon, **occurring in the relatively smaller area** of the Indian Ocean between the **Indonesian and Malaysian coastline in the east and the African coastline near Somalia** in the west.
  - **The El Nino** is the warmer-than-normal phase of the [El Nino Southern Oscillation \(ENSO\) phenomenon](#), during which there are generally warmer temperatures and less rainfall than normal in many regions of the world, including India.

- One side of the ocean, along the equator, gets warmer than the other.
- IOD is said to be positive when the western side of the Indian Ocean, near the **Somalia coast**, **becomes warmer** than the eastern Indian Ocean.
- It is negative when the **western Indian Ocean is cooler**.

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