

# SEVERAL STUDIES CONDUCTED BY VARIOUS SCIENTIFIC INSTITUTES IN THE COUNTRY IN REGARD TO THE IMPACT OF WESTERN DISTURBANCES DURING WINTER SEASON ON INDIAN CLIMATE

Relevant for: Geography | Topic: Important Geophysical Phenomenon - Atmosphere, its Composition and Circulation

## IMPACT OF WESTERN DISTURBANCES

There are several studies conducted by various scientific institutes in the country in regard to the impact of western disturbances during winter season on Indian climate. The studies show that;

The adverse weather elements associated with Western Disturbances are;

However, precipitation from the western disturbances is very vital for the Rabi Crop over northwest India. Also snowfall/snowmelt in the Hilly regions contribute to river flow and drinking water for people living downstream.

In addition to these, a Forecast Demonstration Project (FDP) for winter weather systems has been initiated from 2016 and it has brought together several institutes other than IMD to enhance the monitoring and forecast of weather elements related to WD. Accordingly a FDP bulletin is prepared and issued daily during November to February when the Western Disturbances are more active.

From November 2020 onwards, IMD started issuing a special bulletin related to winter weather systems (All India Multi-hazard Winter Warning Bulletin) which provides colour coded warning for five days for the adverse weather elements associated with WD, along with present weather scenario.

IMD started issuing Impact Based Forecast (IBF) in the recent past. Impact Based Warning contains guidelines to the general public while getting exposed to the severe weather. These guidelines are finalized by NDMA (National Disaster Management Authority) in coordination with IMD and the same is being issued for the adverse weather elements related with WD.

This information was given by the Minister of Science & Technology; Earth Science and Health & Family Welfare Dr. Harsh Vardhan in the Lok Sabha today.

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