



# Evaluation of National Monsoon Mission

## Why in News

Recently, the **National Council of Applied Economic Research** (NCAER) has **evaluated the economic benefits** of the [National Monsoon Mission](#) (NMM).

- Established in **1956**, NCAER is India's **oldest and largest independent, non-profit, economic policy research institute**, based in **New Delhi**.

## Key Points

- The study spanned **across 173 rain-fed districts in 16 states** which appropriately represented agro-climatic zones, rain-fed areas, coverage of major crops, and incidence of extreme weather events in the country. It was conducted on behalf of the **Ministry of Earth Sciences** (MoES).
- The study refers to **economic benefits as direct monetary gains to crop farmers, livestock rearers, and fishermen** in the country.
  - India's investment of nearly **Rs. 1,000 crore** in the NMM and **High-Performance Computing** (HPC) **facilities** would provide benefits worth Rs. 50,000 crore to nearly 1.07 crore [Below Poverty Line](#) (BPL) agricultural households and 53 lakh BPL fisherfolk households in the country.
- The **total annual economic benefits** to agricultural households, farmers and livestock owners taken together, has been calculated at **Rs. 13,331 crore** and the **incremental benefits over the next five years** are estimated to be about **Rs. 48,056 crore**.
  - The benefits are from accurate weather forecasting by the [India Meteorological Department](#) (IMD) and other agencies working under the Ministry of Earth Sciences.
    - **Agro-meteorological services** for farmers is one of the most prominent weather services of IMD.
    - Every day Ocean **State Forecast** (OSF) and **warnings** to fishermen going out to the sea by the [Indian National Centre for Ocean Information Services](#) (INCOIS) helped in **elimination of less or not so productive trips** to the ocean.
    - [Potential Fishing Zone \(PFZ\) advisories](#) resulted in successful trips generating additional catches.
- **Data Analysis of the Benefits:**
  - Based on weather advisories, **98% farmers made modifications** such as changing variety/breed of the crop, arranging storage of harvest, early/delayed harvesting, changed crop, early/delayed sowing, changed the schedule of ploughing/land preparation, changed pesticide application schedule, changed fertiliser application schedule and changed scheduled irrigation.
  - **94% of farmers** were able to **avoid losses and increase income** because of services provided through NMM.
  - **82% of fishermen** surveyed, reported **using OSF advisories** before they venture into the sea every time.
  - A total of approximately Rs 1.92 crore additional income was generated from **1,079**

**successful fishing expeditions made using PFZ advisories.**

### **National Monsoon Mission**

- It was launched by the **Ministry of Earth Sciences in 2012.**
- **Aim:** To improve the forecasting skills by setting up a state-of-the-art dynamic prediction system for monsoon rainfall different time scales.
- NMM builds a **working partnership between the academic and research and development (R&D) organisations, both national and international.**
- Its **augmentation with the HPC facilities** has helped the country in achieving a paradigm shift in weather and climate modelling for operational weather forecasts.

**[Source: IE](#)**

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