

National Pest Surveillance System (NPSS)

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About National Pest Surveillance System (NPSS):

- It is a **digital initiative** of the **Ministry of Agriculture and Farmers Welfare** leveraging **Artificial Intelligence (AI)** and **Machine Learning (ML)** to **provide timely pest management advisories to farmers** across the country.
- It promises to reshape pest management practices and empower farmers across India.
- The primary goal of NPSS is **to reduce farmers' reliance on pesticide retailers** and foster a **scientific approach to pest control**.
- The system comprises a **user-friendly mobile app and a web portal**, ensuring accessibility for all farmers.
- By **leveraging real-time data and advanced analytics**, NPSS **enables accurate pest identification, monitoring, and management**.
- Farmers will greatly benefit from NPSS as it **provides quick solutions to pest attacks** and crop diseases, **reducing crop losses** and thus improving productivity.
- The system's **comprehensive pest incidence data** and **automated advisories** will empower farmers with actionable insights, helping them make informed decisions and take proactive measures to protect their crops.

Q1: What is Machine Learning?

Machine learning is an essential branch of artificial intelligence that employs data and algorithms to mimic human learning processes, gradually enhancing its accuracy. It is a cornerstone of the emerging field of data science. It involves training algorithms to find patterns in data, which enables them to make predictions or perform tasks

without being explicitly programmed.

Source: New AI platform will connect farmers and scientists over phone, aid in pest control

Source: <https://vajiramandravi.com/current-affairs/national-pest-surveillance-system-npss/>

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