# Predictive PestGuard

Protect crop yield and increase farm profitability through sharing unbiased, science-based tracking and forecasting information.

**Sign In**    **Learn More**

# Predictive PestGuard

## 🐛 Pest Tracking

Monitor and track agricultural pests including insects, diseases, weeds, and nematodes.

## ⬆ Data Reporting

Submit and share field observations and pest activity data with the community.

## 🕮 Visualization

View interactive maps and visualizations of pest distribution and activity.

## ⱴ Forecasting

Access predictive models and forecasts for pest outbreaks and population trends.

## MISSION

To provide farmers and agricultural professionals with accurate, timely information for effective pest management decision-making.

## AUDIENCE

Farmers, agronomists, researchers, and agricultural professionals seeking to monitor and manage crop pests effectively.

## PRODUCTS

Interactive maps, forecasting tools, data visualization, and reporting systems for comprehensive pest monitoring.

# Predictive PestGuard

| Login | Sign up |
|---|---|

## Login
Enter your email and password to login.

**Email**

m@example.com

**Password**

[ Login ]

Forgot password?

# Pest Outbreak Dashboard

| Temperature | Humidity | Wind Speed | Precipitation |
|---|---|---|---|
| 21°C | 69% | 16 m/s | 0 mm |

Select location ⌄    Select date range ⌄    Select pest type ⌄    Search outbreaks...

## Pest Outbreak Trends

- Historical
- Predicted

25
20
15
10

Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct
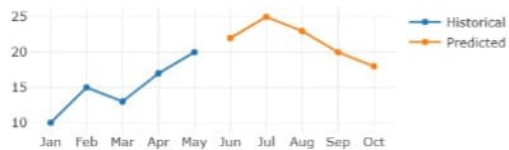
## AI Model Predictions

# 75

## High Risk

Based on current weather conditions and historical data

# Pest & Disease Reports

| Search pests, locations, or commo | **Search** |

⬇ Export Data    ⬆ **Upload Image for AI Recognition**

| Country-wise Pest Data | Affected Commodities | Pest Identification & Prevention |

| India ▾ | High ▾ | 🗓 Jan 20, 2023 - Feb 09, 2023 |

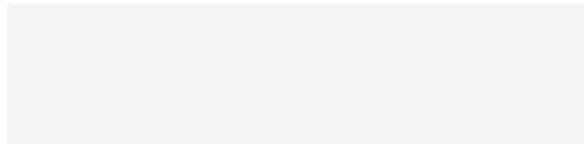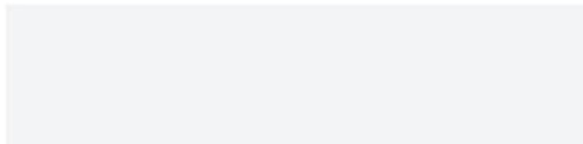| Country | Region/State | Type of Pest | Date of Occurrence | Severity Level |
|---------|--------------|--------------|--------------------|----------------|
| India | Maharashtra | Aphids | 2025-02-15 | High |

## Pest-Affected Regions

## Outbreak Trends Over Time

Country-wise Pest Data    Affected Commodities    **Pest Identification & Prevention**

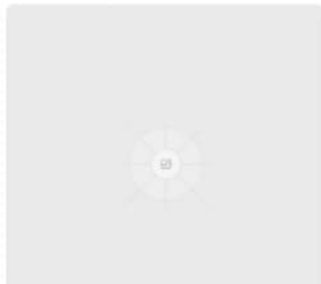| Pest Name | Scientific Name | Crops Affected | Actions |
|-----------|-----------------|----------------|---------|
| Fall Armyworm | Spodoptera frugiperda | Maize, Rice, Sorghum | **View Details** |
| Desert Locust | Schistocerca gregaria | Wheat, Barley, Vegetables | **View Details** |

## Fall Armyworm



**Scientific Name:** Spodoptera frugiperda

**Crops Affected:** Maize, Rice, Sorghum

**Signs & Symptoms:** Leaf damage, holes in leaves, caterpillar presence

**Best Practices for Prevention:** Crop rotation, natural enemies, early planting

**Learn More About Management Strategies**

# Global Pest Visualization

Interactive map showing pest outbreaks and trends across different countries and continents.
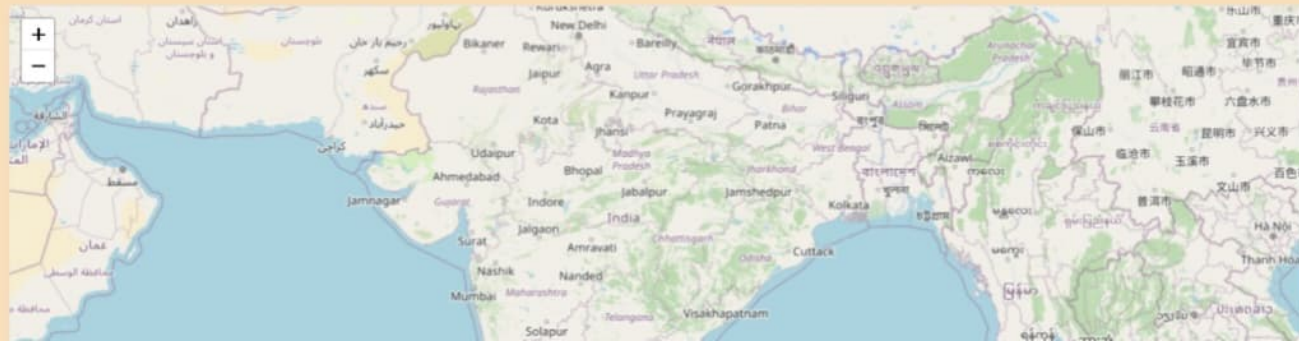
## Filters

| All Pest Types ▾ | Asia ▾ | Medium ▾ | 📅 Jan 20, 2023 - Feb 09, 2023 | Export Data |

# About Predictive PestGuard

Predictive Pest Outbreak Monitoring is an AI-powered platform that helps farmers and researchers predict pest outbreaks using weather data and historical patterns. Our mission is to protect crop yields and increase farm profitability through science-based pest tracking and forecasting.

## Key Features

### Weather-based Predictions

Real-time pest predictions based on current and forecasted weather conditions.

### Interactive Dashboard

Visualize pest data and trends with our intuitive, interactive dashboard.

### AI-driven Risk Assessment

Advanced AI algorithms assess and predict the risk of pest outbreaks in your area.

# Profile Settings

## Personal Information

Name

John Doe

Email

john.doe@example.com

Phone

+1 (555) 123-4567

Role

Farmer

Language

English

✓ English

हिन्दी (Hindi)