

Oregon IPM Newsletter

Supplement to Issue No. 1

April 2003

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An Internet-based Pest Alert and Management System for Oregon



(<http://ippc.orst.edu/pestaalert>)

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	Pest Alerts from last 120 days	Refresh
Apple		
Mid-Willamette Valley pest alerts	04/18/03 (4)	
IPM Decision Tools	02/10/03 (2)	
Pear		
Rogue Valley Pest Alerts	04/22/03 (33)	
Hood River Valley Pest Alerts	04/21/03 (32)	
Mid-Willamette Valley pest alerts	04/01/03 (2)	
testing	03/27/03 (8)	
Lane County Alerts	03/20/03 (1)	
Stone Fruit		
Mid-Willamette Valley pest alerts	04/18/03 (3)	
OFM Biofix	03/12/03 (2)	
Peach	03/12/03 (4)	
Nuts		
Mid-Willamette Valley pest alerts	04/18/03 (3)	
Subscribe to a topic		

Home page of Oregon Pest Alert System

Introduction

The Oregon Pest Alert system (ORPAS) is a versatile, extendable, reproducible extension communication network for local and regional scale reporting and warnings of pest incidence and outbreaks. ORPAS is a database-driven, email supported application server that offers (1) Near-Real Time Pest Alerts, (2) Phenology Forecast, and (3) Preparedness Management Strategies to growers. The information is dually endorsed by extension agents and/or research specialists. The system also facilitates exchange of news, discussion, and internet resources between growers, agricultural field workers, extension, and research personnel, for all disciplines involved in pest management.

Objectives

- Deliver near-real time pest alerts (and phenology forecasts) coupled with expert advice to serve pest management needs of growers both locally and regionally.
- Build a system as a modular framework to be readily extended to other regions, crops, and pests.

From: Oregon Pest Alert System

Sent: Monday, May 30, 2000 08:14 AM

To: jacobp@hotmail.com

Crop: Pear

Subject: New Pest Alert for Pear Scab

The overnight rain began close to midnight, and as of 8:00 am Monday morning May 20 did not generate a scab infection period. However, since more showers are forecast, a scab infection is possible, and it is a good time to consider the situation.

According to the degree-day model, we are close to the end of the spore-producing phase of the overwintering scab fungus. As I see it, there are 3 scenarios that would affect actions to be taken if an infection period occurs:

1. No scab seen yet this year, and no scab last year. Even if an infection period occurs now, the risk is very low and treatment will probably not be necessary.
2. No scab seen yet this year, but last year there was significant scab. In this case, a conservative approach would be to treat in response to an infection period if it occurs before the end of overwintering spore production (= approximately before the end of May).
3. New scab infections are known to be present in the orchard. Treatment definitely called for if an infection period occurs before the end of May.

David Sugar
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Oregon State University

An email message is automatically generated by the system when an alert is posted by a moderator

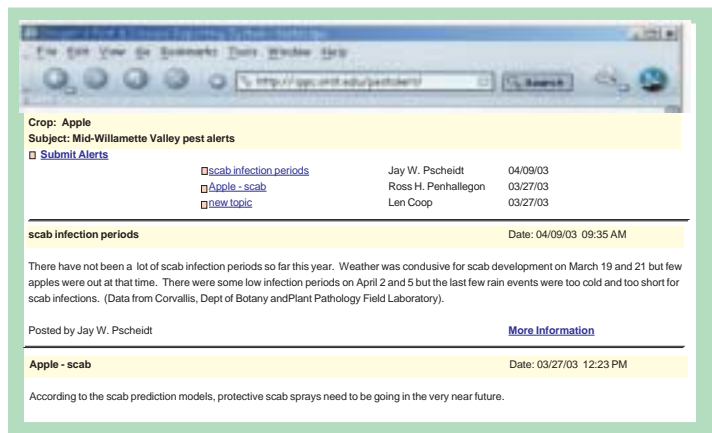
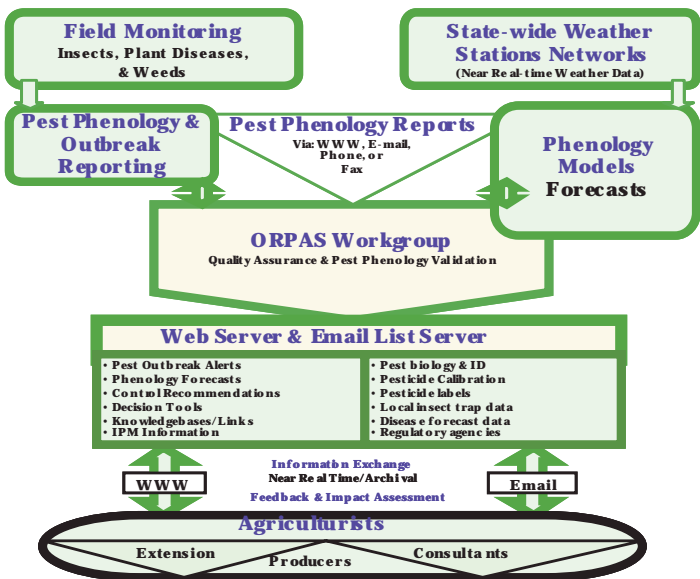
Abstract

The Oregon Pest Alert System (ORPAS), based on integrating e-mail, websites, and databases, provides an electronic means for sharing immediate pest outbreak alerts, forecasts, and other timely information between growers, field personnel, extensionists, and researchers. The system encourages precise and judicious action and is expected to improve pest management decision-making by stakeholders. Events to be reported include pest development status and buildup, levels of biocontrol agents, and other

pest-related occurrences. The system offers the advantage of immediacy and information sharing between various stakeholders. Users need to register (free) and can then customize their choices according to crops or situations of interest. The regional and multi-regional scale deployment of this interactive, integrated system encourages development of areawide integrated pest management programs, and promotes a landscape-scale perspective for all stakeholders.

Oregon Pest Alert System (ORPAS)

Oregon Pest Alert System (ORPAS)



Examples of alerts available from Web Interface

Information processing and decision support components of Oregon Pest Alert System

Scope and Features

- Interactive; Customizable; Multiway Information Exchange.
- Integration of Web, Email, and Databases.
- Near-real time pest warnings and management information.
- A facility to share news events locally and regionally.
- Expandable and transferable to any pests, crops, and regions.
- File uploading for real-time web posting, & digital diagnosis.
- Repository of historical data on pest incidence and outbreaks for future studies (risk assessment, pest Model validation).
- Features: Pest Alert Notices; Phenology Forecasts; Control Recommendations; Pest and Pesticide Information; News; Discussion; Internet Resources; Research Reports; Searchable Frequently Asked Question Database; Web-based System Administration.

Access Information / Statistics

Date of Initiation:	March 1, 2002
Email Subscribers:	80
Total Alerts (March-September 2001):	78
Web Clients:	(unique IP # in the web access log)
Current usage:	21 - 26 users/day
Oregon	11 - 15 users/day
All others:	10 - 11 users / day

Expected Outcomes and Impacts

- Improved IPM decision making and better management actions.
- Reduction in pesticide use; Encourage judicious use of pesticides.
- Improved pesticide-use efficiency and grower economics.
- Data on the incidence and outbreaks gathered in ORPAS databases will be analyzed and used for insect and disease model validations.
- The regional and multi-regional scale deployment of interactive, integrated tools encourages development of areawide integrated pest management programs, and promotes a landscape-scale perspective for all stakeholders.