

Integrated Plant Protection Center

A Snapshot to introduce our program

Featuring IPPC activities since
2002, with highlights for the
present year up to September 22nd,
2009

Introduction



The IPPC mission is to be one of the leading research and extension organizations nationally and internationally in integrated pest and production management (IPPM) systems.

Our goals are to improve agricultural sustainability and food security in Oregon, the Pacific Northwest and beyond by developing and delivering state-of-the-science IPPM systems in collaboration with our stakeholders.

Nationally, we will contribute towards meeting the goals of the US National Roadmap for IPM; internationally we will assist in meeting three of the eight UN Millennium Development Goals, the eradication of extreme poverty and hunger, the establishment of environmental sustainability and the creation of a global partnership for development.

The IPPC has established a core facility that continues to deliver certification programs for pesticide applicators and which develops and delivers tools, services, research and education programs that enable IPM adoption.

Our programs enhance national and international biosecurity through the deployment of pest risk assessment tools, and through the development of environmental and human health risk assessment procedures and analyses. They also enhance national and international biosafety through the development of advanced GM crop risk assessment tools for potential environmental impacts.

We have established and maintained communication networks within and among IPM stakeholders in Oregon and the Pacific Northwest, channeled significant resources beyond IPPC that enable targeted research and outreach priorities to be addressed at OSU, and we have created participatory research programs with producers in Oregon, to enable more sustainable production practices.

The IPPC was founded in 1967, and is entering its 43rd year on the OSU campus.

IPPC Staff

Name	Rank	Years in the IPPC	Position and responsibilities
Linda Ahlvin	<i>Office Specialist 2</i>	1	IPM Assistant; Pesticide Safety Education Program
Kathy Blaustein	<i>Faculty Research Assistant</i>	2	Human health risk assessment (West Africa); pesticide risk management
Len Coop	<i>Assistant Professor, Senior Research</i>	22	Pest and crop models; decision support tools
Dan DeBrito	<i>Faculty Research Assistant</i>	3	Programming; pest and crop models
Joe DeFrancesco	<i>Assistant Professor, Senior Research</i>	23	Regional pest management strategic planning (PMSP); IR-4 program coordinator
Allan Deutsch	<i>Academic Wage Appointment</i>	40	Editor, IPMnet News; Ray Smith IPM library
Gwendolyn Ellen	<i>Senior Faculty Research Assistant</i>	6	Farmscaping for Beneficials program coordinator
Mary Halbleib	<i>Senior Faculty Research Assistant</i>	5	Program planning and evaluation
Paul Jepson	<i>Professor</i>	9	Director, IPPC (since July 2002); State IPM Coordinator
Hans Luh	<i>Assistant Professor, Senior Research</i>	9	Qualitative analysis and modeling; outreach: data interface; webmaster
Katie Murray	<i>Faculty Research Assistant</i>	2	PMSP coordination and editing
Linda Parks	<i>Professional Faculty</i>	13	Center Administrator
Tim Stock	<i>Senior Instructor</i>	4	Pesticide Safety Education Program (PSEP) coordinator; IPM in Schools program coordinator

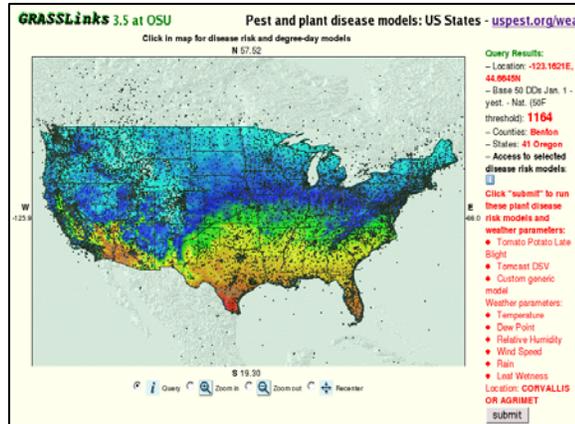
Statistics

As of 09/22/09

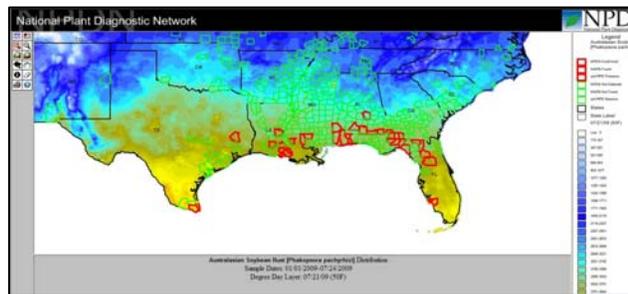
Total non-state income since FY'03:	\$9,398,702
Total grant expenditure since FY'03:	\$7,547,666
Percentage of expenditure funded by grants:	29% (FY'03) – 59% (FY'09)
Overall leverage of state funds FY'03 –'09:	3.9 (peak 5.9)
Overall leverage of formula funds FY'03 –'09:	6.0 (peak 32.5)
Contracts distributed since FY'03:	\$1,430,419
Visits to main IPPC website 2008:	1,308,204
Visits to on-line PNW IPM Handbooks (2003-2008):	4,243,976
Visits to IPM Handbooks 2008:	1,676,955
Uses of pest and weather models 2008:	407,516
Countries receiving IPMnet NEWS 2009:	154
Subscribers to IPMnet NEWS:	7,063
Ray Smith IPM Library	
Number of books:	4,287
Value of books added since 2003:	\$15,876

Highlights (2009)

Pest and crop models



Pest and disease models now accesses >13,000 weather stations and uses distance weighted regression and a number of QA/QC procedures to estimate site-specific weather data nationally, and to generate forecasts in the Western USA.





The IPPC system was used recently to correctly forecast where a Tomato Late Blight epidemic would occur in the Mid-Atlantic states.

Partners: USDA Western IPM Center Weather Workgroup, National and Western NPDN, USDA APHIS, USDA ARS

PSEP and IPM in Schools program

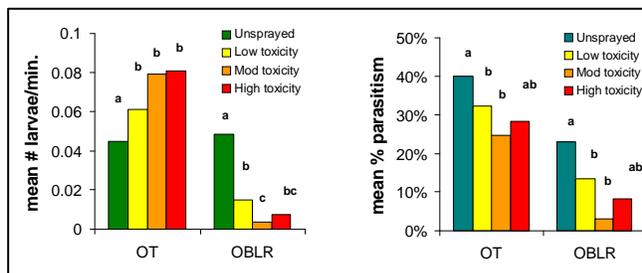


The Governor of Oregon signed Senate Bill (SB) 637 into law on June 24th, 2009, requiring IPM in Schools. IPPC and EMT staff played a major role in the legislative working group that developed and drafted this measure.

IPPC has received USDA CSREES and EPA PRIA 2 grants to build an IPM coalition with several Oregon school districts and to develop school IPM plans in accordance with SB637.

Partners: USDA Western IPM Center IPM in Schools Workgroup, IPM Institute, Oregon Environment Council, NCAP, ODA, ODHS, Oregon School Facilities Management Association, Oregon Education Association, Oregon School Board Association, Confederation of Oregon School Administrators.

Farmscaping for Beneficials program



A research program in caneberries has found that Orange Tortrix leafrollers are more abundant in fields sprayed with broad spectrum pesticides, and that rates of wasp parasitism are also lower in sprayed fields.



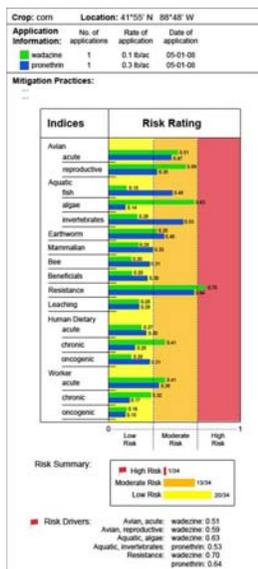
USDA-funded biodiversity farm tours for farmers and policy makers in 2009 have been referred to in the US Congress during debates that are framing agricultural legislation.



Groups of farmers have collaborated to diagnose resource needs for natural enemies and pollinators and have themselves installed on-farm habitats as part of a participatory education program.

Partners: USDA Western IPM Center Functional Agricultural Biodiversity Workgroup, Xerces Society for Insect Conservation, Oregon Tilth, USDA NRCS

IPM Coordinator program



An NRCS-funded research project is developing a risk assessment tool that farmers can use to estimate the risks posed by their proposed pesticide programs, and to suggest mitigation tactics that might reduce or eliminate these risks. This will be piloted in a new, watershed-based IPM support program that started in two Willamette Valley watersheds in 2009.

Partners: USDA NRCS, Xerces Society for Insect Conservation, IPM Institute, Western Region IPM Center, NRDC, Benbrook Consulting, Canadian Wildlife Service, Soil and Water Conservation Districts, commodity organizations in the Yamhill and Pudding watersheds.

International agricultural development



Research and capacity building for agricultural development in the Senegal and Niger River Basins is enabling the characteristics of pesticide fate and behavior to be elucidated.

A network of analytical laboratories is being established to undertake monitoring, analysis and NGO's are working with this program to develop skills in human health and environmental risk assessment. This may lead to a center of excellence being established in W. Africa, in partnership with FAO, West African Governments and OSU.

The photograph shows vegetable farmer participants in a Farmer Field School in Mali.

Partners: FAO (UN), CERES Locustox (Dakar, Senegal), National Public Health Laboratory (Ouagadougou, Bourkina Faso), Environmental and Molecular Toxicology (OSU), Food Safety and Environmental Stewardship Laboratory (OSU).