

IPMCENTERS.ORG

Impacts and Success Stories

Regional IPM Center evaluators and communicators

Common IPM Measures

- USDA-NIFA would like to collect common indicators for Crop Protection and Pest Management
 - Extension Implementation Program
 - Applied Research and Development Program
 - Regional Coordination Program



Figure 2. Crop Protection and Pest Management Program Logic Model Situation: Emerging diseases, insects, weeds and other pests continue to negatively impact U.S. agricultural production, natural areas, and urban settings including places where people live, work, and attend school. Obtaining new science-based IPM knowledge and extending that knowledge with effective, affordable, and environmentally-sound IPM strategies at the local, state, regional and national levels are needed to address these priority IPM challenges.

have the second	Outputs				Outcomes/Impacts		
Inputs	Participants	Activities / Products	Ы	Short Term	Medium Term	Long Term	
Lagislativa authority	Stakaboldare	Parnond to Congracelend	Н	Increases Inculadra and	Innoustive and	Gree protection	
Legislative authority	Stakeholders	authorization and		adoption of new IPM tools	diversified IPM systems	systems are more	
Annual appropriation	Commodity	appropriation		and tactics in integrated	are implemented on an	profitable with IPM	
USDA involvement	associations	D 11-1 054		strategies for IPM	area-wide or landscape	Automation of the second	
	Public interest	Publish KFA		Adapt existing science-	scale	Agricultural production	
NIFA intra-agency	groups	Recruit panel managers and		based IPM knowledge to	Key information	reduced pest and	
coordination	Formare	peer review panelists		new pest scenarios and	systems, networks, and	disease losses	
Multi-state projects	Furnera	Conduct peer review panel		foster sound IPM solutions	decision-support tools	Cost henefit ratios of	
Program directors	Ranchers	meetings		Engage broadest possible	are adopted for	adopting IPM practices	
Program directors	General public	Aurord funds to maritariano		IPM scientific, extension,	consequence pests and	are improved	
Support staff		applications		and education	diseases. Enhanced	Sustainable (DM	
Panel Managers	NGOs			communities in challenges	coordination and	practices are	
Functivianders	End users or	Support IPM research to		raced by IPNI	responsiveness of IPM	implemented	
Peer Review Panels	consumers	address priority IPM needs		Engage new stakeholder	research, education, and	2	
Stakeholder and	Underserved	Promote collaborative		communities challenged	critical, priority pest	Human health and	
partner comments	individuals or	team-building through		by pest issues who could	management and food	from managing nests	
	communities	national and regional		benefit from IPN	security challenges	are reduced	
		coordination meetings and activities and broad-based		Facilitate production of	New stakeholders are		
	Land-grant university	stakeholder participation		audience-appropriate	using IPM; Stakeholders	U.S. food producers are	
	parulers			information/training	are using more	globally	
	Cooperative	Promote the development		mobile, web-based, and	advanced IPM best		
	Extension	and implementation of IPM by facilitation coordination		other digital, as well as	management practices	Global capacity to meet	
	Research, teaching	and collaboration across		traditional formats	Producers and	growing food demand	
	and extension faculty	states, disciplines and		Facilitate communication	processors adopt newly	mproved	
	Stote mension	programs		among the scientific IPM	developed IPM	Safe, affordable and	
	state agencies	Establish and maintain pest		community and among	technologies and	high-quality crops are	
	Federal agencies	management information		the research, teaching and	minovauons	consumers	
	LISDA-NIEA	networks		extension communities,	Regional and national	condument	
	CODA-MITA	Build nartharebing and		stakeholders and	trans-disciplinary	Hungerisreduced	
	Other allied state and	address challenges and		consumers in a proactive	systems approaches are	through improved food	
	federal agencies	opportunities		communication strategy	problems	populations	
	Regional IPM	Develop estable 1014		Enallitate anadustics of			
	stakeholders	training programs and		original materials and	A new generation of	Effective, affordable,	
	eXtension CoPs	foster their sustainability		collaboration with existing	scientists canable of and	and environmentally-	
	excension cors			or new eXtension CoPs	adept at working in	are in place to reduce	
	NGOs	Review and evaluate			effective, trans-	economic,	
	Public interest	implementation and			disciplinary regional and	environmental, and	
	groups	communicate successes			national teams are in	societal losses from	
		Communicate positiva			proces.	affect crops and	
		communicate positive			Networks improve	livestock, human well-	
		stakeholders			information flow among	being and community	
					stakeholders, and	vitality	
		Manage funding resources			among IPM research,	Coordinated state-	
		enecuvely			education, and	based, region-wide and	
		Collect program impact data			extension communities	national research,	
					Stakeholders can	education, and	
					document why IPM was	function as catalysts for	
					beneficial for them and	promoting further	
					the environment	development and use	
						of new IPM approaches	
			,				
Assumptions				External Factors:			

Congressional appropriations/funding

Emerging and critical issues requiring IPM practices and technologies

Stakeholder input

New pests and pathogen

Sustainability is a foundation of integrated pest management (IPM)

Complementary and coordinated state, regional and national approaches are needed in

obtaining increased adoption of IPM in agricultural, natural and urban settings.

IPM plays a significant role in U.S. agricultural production.

LONG-TERM IMPACTS

- Crop protection programs are more profitable with IPM
- Agricultural production increased through reduced pest and disease losses
- Cost benefit ratios of adopting IPM practices are improved
- Sustainable IPM practices are implemented
- Human health and environmental risks from managing pests are reduced
- US food producers are more competitive globally
- Global capacity to meet growing food demand improved
- Safe, affordable and high-quality crops are widely available to consumers
- Hunger is reduced through improved food security in vulnerable populations
- Effective, affordable, and environmentally sound IPM strategies are in place to reduce economic, environmental and societal losses from pests and diseases that affect crops and livestock, human well-being and community viability
- Coordinated state-based, region-wide and national research, education, and extension programs function as catalysts for promoting further development and use of new IPM approaches.

Towards common measures



SUCCESS STORIES 1. gathering materials

You will need: 1) Numbers

2) Anecdotes



Numbers

"We funded a project that modeled disease spread in hops. A significant number of hop yards are affected in both Washington and Oregon.

Oregon growers who use the model are seeing substantial savings in disease management costs."



Numbers

"We funded a project that modeled disease spread in hops for \$29,937. This disease impacts 34% of hop yards in Washington and Oregon.

A survey of Oregon growers showed that the reduced applications resulting from using the model resulted in minimum savings of \$80/acre.

Given the 75% adoption rate we documented, savings for Oregon amounted to \$158,406. Using the same assumptions for Washington, the total savings was \$922,263 for 2016."

Anecdotes

"Many growers are finding that learning to use the model is straightforward, and that they save as many as 10 fungicide applications per season."



Anecdotes

"Mary Miller, of Stone Mill Hops in Clear Lake found that learning to use the model was straightforward.

"We used to suit up and go out to spray every ten days in season. Checking the model online takes only a minute. Even if it saved me just one spray, it would be worth it."



Meaningful numbers:

What is the rationale for reporting these numbers rather than some other set?

What is the context?

Why is it important?



MEANINGFUL numbers

- 3 parts are needed:
- 1) There was a problem
- 2) You did something
- 3) The problem was solved as a result





- 1) Situation
- 2) Outputs
- 3) Outcomes



PLAN AHEAD

Know what stories you will tell before you even start.



PLAN AHEAD

1) Document the problem



PLAN AHEAD

- 1) Document the problem
- Set up a recording system for everything you do



PLAN AHEAD

3) Interviews

Surveys Public statistics



PLAN AHEAD

1) Document the problem

You did this already, right?



PLAN AHEAD

2) Set up a recording system for everything you do.

Make your life easy. Create simple recording forms.

PLAN AHEAD

3) Interviews

Surveys Public statistics

