

Integrated Pest Management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Integrated Pest Management

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
211	Insects, Mites, and Other Arthropods Affecting Plants			30%	
212	Pathogens and Nematodes Affecting Plants			30%	
213	Weeds Affecting Plants			20%	
215	Biological Control of Pests Affecting Plants			20%	
	Total			100%	

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	1.4	0.0	6.1	0.0
Actual	0.0	0.0	74.3	0.0

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

Extension		Research	
Smith-Lever 3b & 3c 0	1890 Extension 0	Hatch 646072	Evans-Allen 0
1862 Matching 0	1890 Matching 0	1862 Matching 667030	1890 Matching 0
1862 All Other 0	1890 All Other 0	1862 All Other 2330242	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

•Publications will be made available in print and online that provide pest control recommendations •Regional management guides will be produced and updated •Research results will be communicated through pesticide workshops and field days •Research results will be used to support FIFRA Section 18c products labeling requests •Results will be used to update pesticide applicator training materials •Training materials will be updated for private and commercial pesticide applicators

2. Brief description of the target audience

•Crop producers, dealers, distributors, and crop protection company representatives •Crop protection companies registration and research personnel •Montana crop advisory boards

V(E). Planned Program (Outputs)

1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	250	150	0	0
2008	1775	1775	0	0

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year	Target
Plan:	1
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	5	
2008	0	15	15

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of research citations

Year	Target	Actual
2008	10	15

Output #2

Output Measure

Multidisciplinary journal articles published

Year	Target	Actual
2008	2	3

V(G). State Defined Outcomes

O No.	Outcome Name
1	Quality in-depth training programs for continuing educational on integrated approaches to pest management
2	New IPM options discovered and evaluated per year
3	Number of broad-ranging stewardship practices implemented
4	Passing rate percentage for pesticide application licenses
5	New products registered
6	Number of potential products/practices evaluated

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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V(H). Planned Program (External Factors)

External factors which affected outcomes

Natural Disasters (drought, weather extremes, etc.)

Appropriations changes

Public Policy changes

Government Regulations

Brief Explanation

Demanding government regulations on the approval of new pest control options continue to be a challenge for manufacturers and researchers to obtain registrations for new products. The demands of producers who grow crops organically requires innovative pest and fertility solutions often requiring the use of biocontrols and alternative nitrogen sources. Organic farming and the introduction of non-traditional crops create a need for MSU researchers to delve into new non-traditional approaches to managing crop production.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

After Only (post program)

Retrospective (post program)

Evaluation Results

Evaluation studies are in progress.

Key Items of Evaluation

Evaluation studies are in progress.