

# Integrated Pest Management

Integrated Pest Management

## 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			25%	
212	Pathogens and Nematodes Affecting Plants			25%	
213	Weeds Affecting Plants			10%	
215	Biological Control of Pests Affecting Plants			15%	
216	Integrated Pest Management Systems			25%	
	<b>Total</b>			100%	

## V(C). Planned Program (Inputs)

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	1.4	0.0	6.1	0.0
<b>Actual</b>	0.0	0.0	71.0	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	443640	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	4357307	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	2507941	0

## V(D). Planned Program (Activity)

### 1. Brief description of the Activity

Research results will be communicated through pesticide workshops and field days held throughout the state. Publications that provide pest control recommendations will be made available in print and online to stakeholders. Results will also be used to update pesticide applicator training materials and to support FIFRA Section 18c products labeling requests. Training materials and regional management guides will be updated for private and commercial applicators of crop protection products.

**2. Brief description of the target audience**

Our target audience includes crop producers, dealers, distributors, technical and registration personnel from crop protection companies, private and commercial pesticide applicators, Montana crop advisory boards, State of Montana, Montana Department of Agriculture, Bureau of Land Management, USFS, and other government entities.

**V(E). Planned Program (Outputs)**

**1. Standard output measures**

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

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	200	150	0	0
2007	1775	1775	0	0

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

**Patent Applications Submitted**

<b>Year</b>	<b>Target</b>
<b>Plan:</b>	0
2007:	0

**Patents listed**

**3. Publications (Standard General Output Measure)**

**Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	15	15

**V(F). State Defined Outputs**

**Output Target**

**Output #1**

**Output Measure**

Number of research citations

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	10	15

**Output #2**

**Output Measure**

Multidisciplinary journal articles published

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	0	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	Amount of financial support from industry per year for ongoing research (\$)
6	New products registered

**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**

Government regulations on the approval of new pest control options continue to be challenging for manufacturers and researchers to obtain registration for new products. The focus of a vocal group of producers on organic production and the use of biocontrols creates a need for MSU researchers to delve into new non-traditional approaches.

**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.