

Wildlife Management

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Wildlife 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
135	Aquatic and Terrestrial Wildlife			100%	
	Total			100%	

V(C). Planned Program (Inputs)

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

Year: 2007	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.0	0.0
Actual	0.0	0.0	0.6	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	36307	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	61807	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	446155	0

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Conduct research; publish results in refereed research journals and, as appropriate, in popular press. Make presentation at professional meetings and at end-user workshops and meetings

The expansive hardwood forests which cover much of West Virginia provide extensive habitat for a variety of wildlife species which are extremely important to the economy of the state. Research in this planned program is aimed primarily at better understanding habitat requirements for the wildlife important to West Virginia, and to determine the impacts of human activity on wildlife habitat, particularly habitat for fish and birds.

A large majority of the research in this program represents cooperative research between West Virginia Station faculty and scientists with the West Virginia Division of Natural Resources, USGS, US Fish and Wildlife Service, and the Wildlife Management Institute, a group collectively known as the West Virginia Cooperative Fish and Wildlife Unit. Additionally, the majority of the research in this program is supported by non-formula funds.

Projects completed this past year included the development of models to predict "presence/absence" or "abundance" of song bird species based on various landscape characteristics. Models were 52 – 85% accurate and generally more accurate in predicting species presence or absence than predicting species abundance. Related research developed models to map suitable habitat for forest songbirds, particularly in areas undergoing mountaintop removal mining.

Mathematical modeling also was found to be successful in predicting stream characteristics over large areas using minimal data (2.5% and 5.0% sampling) and employing natural interpolation. For example accurate models were developed for stream substrate and depth and potentially for water chemistry, velocity, and fish food sources.

Other research found an apparent relationship between contaminants in the South Branch of the Potomac River and the frequency of intersexes and sperm quality (motility and progressive motility) in small mouth bass.

2. Brief description of the target audience

Wildlife managers, regulators, policy makers, researchers, concerned public.

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	0	0	0	0
2007	0	0	0	0

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

Year	Target
Plan:	0
2007:	0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan			
2007	0	2	0

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Refereed scientific manuscripts

Year	Target	Actual
2007	2	15

Output #2

Output Measure

End user presentations at meetings and workshops

Year	Target	Actual
2007	2	1

V(G). State Defined Outcomes

O No.	Outcome Name
1	Sufficient understanding (to allow development of effective management plans) of habitat and other requirements of additional state bird and fish species
2	Documentation of impacts on wildlife from major, recurring activities associated with farming, logging and mining
3	Increased populations of threatened species, decreased populations of nuisance species - %

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

Economy

Other (Failure to measure routinely needed data.)

Brief Explanation

Of the outcome measures listed only number of endangered species and number of threatened species are routinely measured. These will be used as a measure of long term success for this program

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

1. Evaluation Studies Planned

Before-After (before and after program)

During (during program)

Evaluation Results

In conjunction with measurement of outcomes.

Key Items of Evaluation