

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: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	0.0	1.0	0.0
Actual	0.0	0.0	0.4	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	20864	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	36077	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	89986	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. While formula funding provides infrastructure for this program, the majority of research in wildlife management is supported by non-formula funds, with very few formula fund projects directly supported over the last several years (currently two projects). Wildlife management therefore will not be continued as a separate, formula funded research program area in future plans of work.

We have continued the long-term studies of brook trout populations on 25 streams in West Virginia. This work is co-funded by the WV DNR, USDA Forest Service, and MeadWestvaco Corporation. Significant progress has been made on all study objectives for these allied projects. As part of a streamside management zone manipulative study we have collected two years of post-treatment data for 8 streams receiving either a 50% or 90% canopy removal. Data analysis is currently underway but initial results indicate canopy removal, coupled with the addition of large woody debris, greatly enhanced production of young-of-year brook trout in these streams.

Nest site selection of the endangered Virginia northern flying squirrel (VNFS) is poorly understood. On the basis of variation in tree species used and differences among tree/nest characteristics, the VNFS may not be as specialized in nest tree selection as indicated by previous studies. VNFS have long been associated with boreal conifer forests. In West Virginia, VNFS were found to prefer spruce, cherry-yellow-poplar, and spruce-mixed hardwood forests at the landscape- and stand-level spatial scales. On the basis of a GIS habitat model for VNFS the following characteristics were significant in predicting presence / absence: (1) elevation over 1036 m, (2) northern aspects, and (3) spruce and mixed hardwood spruce stands. Collaborators on this project included: (1) U.S. Forest Service, (2) U. S. Fish and Wildlife Service, (3) West Virginia Department of Natural Resources, and (4) MeadWestvaco Corporation. Information gathered was shared among all collaborators for mutual benefits.

2. Brief description of the target audience

Wildlife managers, regulators, policy makers, researchers.

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
2008	0	0	0	0

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

Patent Applications Submitted

Year	Target
Plan:	0
2008:	0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	0	2	
2008	0	5	5

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Refereed scientific manuscripts

Year	Target	Actual
2008	2	5

Output #2

Output Measure

End user presentations at meetings and workshops

Year	Target	Actual
2008	3	8

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

Appropriations changes

Public Policy changes

Brief Explanation

Our greatest problem was the selection of measures from which to develop output indicators, measures which seemed destined to be determined and published annually, only to have those measures not updated by late February, 2009. It is unclear if these measures will be published at all and, if so, when.

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

1. Evaluation Studies Planned

Before-After (before and after program)

During (during program)

Evaluation Results

Key Items of Evaluation