

Wildlife: Terrestrial and Endangered Resources Program

Wildlife: Terrestrial & Endangered Resources research is conducted on migratory birds, mammals, amphibians, and their habitats. Results complement and support the conservation and management efforts of Federal and State wildlife agencies, non-governmental organizations and international treaties.



Program Goals

To manage a national amphibian research and monitoring program:

- ◆ Understand scope, severity, and causes of amphibian declines
- ◆ Provide scientific information to support management and conservation actions



The Amphibian Research and Monitoring Initiative supports research to determine the causes of amphibian population declines

To develop tools such as predictive models, decision support, and expert systems for science-based management of wildlife and plant populations and their habitats:

- ◆ Determine factors involved in the population dynamics of large predators and identify potential management strategies
- ◆ Identify and evaluate potential management strategies for pest and introduced species

To develop restoration strategies for federal lands & critical environments:

- ◆ Identify spatial and functional habitat requirements in support of management strategies by Federal land managers and cooperating agencies
- ◆ Determine the impact of exotic and introduced species

- ◆ **Species of Emphasis**
 - Migratory Birds
 - Amphibians
 - Large Predators
 - Invasive/Pest Wildlife
 - ◆ Population-Habitat Linkages
 - ◆ Wildlife Disease
 - ◆ Science for Declining & Endangered Species

- ◆ Provide DOI natural resource managers with synthesized data, information, and tools to understand causal relationships between habitat quality and quantity as reflected by the populations occupying the habitat
- ◆ Increase use of genetics and molecular tools

To evaluate the status of plant and animal species at risk and provide scientific guidance for their conservation and management:

- ◆ Develop science for Habitat Conservation Planning
- ◆ Develop specific population viability analyses, limiting factor determinations, and modeling for species recovery
- ◆ Assess the conservation requirements of seriously declining migratory species
- ◆ Evaluate effectiveness of management recovery effort

To provide specific management models for declining migratory bird populations:

- ◆ Assess the conservation requirements of seriously declining migratory species
- ◆ Develop basic biological information needed to support the formulation of management strategies for declining species

For more information

Dr. Gregory J. Smith
Wildlife Program Coordinator
Tel: 703-648-4071
E-mail: gregory_smith@usgs.gov

Rick Kearney
Assistant Wildlife Program Coordinator
Tel: 703-648-4019
E-mail: rkearney@usgs.gov

USGS Biological Resources Discipline
12201 Sunrise Valley Drive MS 301 Reston,
VA 20192