

# Wildlife Vehicle Collision Reduction and Habitat Connectivity

- Pooled Fund Study, TPF-5 (358), Task 1

**REDUCE**

Wildlife Vehicle Collisions

**INCREASE**

Habitat Connectivity

**IMPLEMENT**

Cost Effective Solutions

**\$1.2** million \$  
committed  
research funds



**2** Bi-national  
support,  
U.S. and Canada



**14**  
Research  
partners

## POOLED FUND STUDY BY THE NUMBERS

**11**

Research  
projects



**26**  
Authors



**14** Research  
reports  
nearly 1,000  
pages

## LINKS TO RESEARCH REPORTS

Cost effective solutions: Animal-vehicle collision reduction and habitat connectivity - *synthesis*



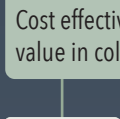
Cost effective solutions: Animal-vehicle collision reduction and habitat connectivity - *literature review*



### Economics



Cost effective solutions: Incorporating wildlife passive use values in collision mitigation benefit-cost calculations



Cost effective solutions: Incorporating deer and turtle total value in collision mitigation benefit-cost calculations

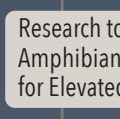


Cost effective solutions: Cost-benefit analyses of mitigation measures along highways for large animal species: An update and an expansion of the 2009 model

### Design



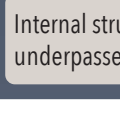
Improving Connectivity: Innovative Fiber-Reinforced Polymer Structures for Wildlife, Bicyclists, and/or Pedestrians



Research to Inform Passage Spacing for Migratory Amphibians and to Evaluate Efficacy and Designs for Elevated Road Segment (ERS) Passages (USGS)



Wildlife barriers: Modified jump-outs for white-tailed deer and mule deer



Internal structural cover and ledges facilitate the use of large underpasses for multiple wildlife species and groups (USGS)

### Ecology



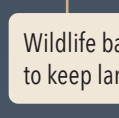
A comparison of elk-vehicle collision patterns with demographic and abundance data in the central Canadian Rocky Mountains



Long-term responses of an ecological community to highway mitigation measures



A before-after-control-impact study of wildlife fencing along a highway in the Canadian Rocky Mountains



Wildlife barriers: The effectiveness of electrified barriers to keep large mammals out of fenced road corridors

### Practices



Cost effective solutions: Best practices manual to reduce animal-vehicle collisions and provide habitat connectivity for wildlife

All reports, recorded presentations and other project resources can be found here:

[http://tpf-5-358\\_WVC-Study.org](http://tpf-5-358_WVC-Study.org)

