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Wildlife crossings toolkit

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#### WILDLIFE CROSSINGS TOOLKIT

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#### **Abstract**

Many highways wind their way through excellent wildlife habitat. Florida's highways slice through rare black bear habitat. Alaska struggles with moose-vehicle collisions. Grizzly bears in the northern Rockies are killed on highways or avoid crossing them, limiting them to smaller areas.

Solutions are available, but the information is widely scattered. The Wildlife Crossings Toolkit gathers information in one location on proven solutions and lessons learned.

#### Who can use the toolkit?

Professional wildlife biologists, engineers, and transportation planners can use the toolkit to work together to create innovative solutions for wildlife-friendly highways and railways.

#### Features:

- Case Histories
  - · Fully searchable database of case histories
  - Highlights projects from around the world
  - Provides examples of solutions used in planning or retrofitting to prevent highway-caused impacts to wildlife
  - Demonstrates collaboration of engineers and biologists
  - Includes sections on alternative approaches and suggested modifications
  - · Includes engineered drawings and photos

#### 2. Resources

- Summary articles by experts on wildlife habitat connectivity, highway impacts, and solutions
- Extensive illustrated glossary to facilitate a common lexicon between engineers and biologists
- Links to other pertinent resources including ICOET proceedings and international information
- 3. Training and Workshops

The USDA Forest Service has developed associated training sessions to complement the information in the Wildlife Crossings Toolkit.

Biographical Sketch: Sandra L. Jacobson, wildlife biologist/research and management liaison, Pacific Southwest Research Station, Redwood Sciences Laboratory, Arcata, California. Education: B.A. in zoology (1983), Humboldt State University, Arcata, California; M.S. in natural resources/wildlife (1986), Humboldt State University. Jacobson has served as a wildlife biologist for the USDA Forest Service since 1980, working on three national forests at the district and forest levels in California and Idaho. She has worked for the USDI Fish and Wildlife Service, California Department of Fish and Game, and the USDA Soil Conservation Service. As the district wildlife biologist for the Bonners Ferry Ranger District on the Idaho Panhandle National Forests for 13 years, she managed grizzly bears, woodland caribou, and other threatened or endangered wildlife in an interagency and international setting. Ms. Jacobson is the lead biologist for the Wildlife Crossings Toolkit website. She is a charter member of the Transportation Research Board's Task Force on Ecology and Transportation and a team member for NCHRP 25-27's Evaluating the Effectiveness of Wildlife Crossing Structures. She is a member of the University of California-Davis Road Ecology Center's Scientific Advisory Committee. Currently, Ms. Jacobson is providing project-level technical expertise and training on wildlife and highway issues for several agencies around the country while acting as a research/management liaison at the Pacific Southwest Research Station.