

Roads and Ecological Infrastructure: Concepts and Applications for Small Animals (Wildlife Management and Conservation)

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Few of us think twice about driving on roads. Yet the very presence of roads and the act of driving on them can impact the ecological infrastructure that supports an animal's daily life. What chance does a turtle have of successfully laying its eggs when it needs to traverse a busy highway? Is it realistic to expect small mammals to breed when an interstate thoroughfare subdivides their population? These are the sorts of challenges faced by small, often slow-moving, animals, challenges that road engineers and ecologists are trying to address.

For countless small species, vehicles traveling at high speeds are nothing less than missiles shooting across migration pathways. For too many animals, the danger can lead to the loss of populations, in part because they simply are not programmed to react to traffic. Salamanders faced with a two-lane road between the forest and their aquatic breeding site, for example, will typically cross that road regardless of the congestion. The result can be hundreds of flattened animals in a single night.

Roads and Ecological Infrastructure is the first book to focus on reducing conflict between roads and small animals. Highlighting habitat connections and the challenges and solutions from both transportation and ecological perspectives, the volume covers various themes, including animal behavior related to roads and design approaches to mitigate the negative effects of roads on wildlife. The chapter authors—from transportation experts to university researchers—each promote a goal of realistic problem solving. Conceptual and practical, this book will influence the next decade or more of road design in ecologically sensitive areas and should prevent countless unnecessary wildlife fatalities.



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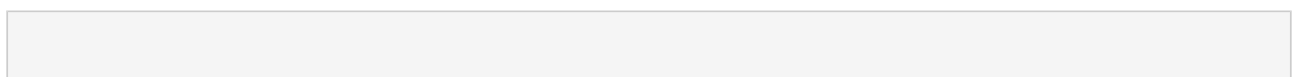
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Roads and Ecological Infrastructure: Concepts and Applications for Small Animals (Wildlife Management and Conservation) From imusti Bibliography

- Sales Rank: #1553145 in Books
- Brand: imusti
- Published on: 2015-04-27
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x .93" w x 7.00" l, 1.82 pounds
- Binding: Hardcover
- 304 pages



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Editorial Review

Review

Managers have largely ignored small wildlife species when mitigating the impacts of roads and traffic. However, when considering nature conservation, smaller wildlife species?especially amphibians and reptiles?seem to be particularly vulnerable. This book synthesizes the impacts of roads and traffic on small wildlife species and presents strong recommendations to address these impacts. Read them and make good things happen!

(Marcel Huijser, Western Transportation Institute, Montana State University)

Road kills seriously affect some animal populations, and this book should be required reading for high school and college students, faculty, and general readers.

(*CHOICE Reviews*)

A primary goal of the editors is to broaden the reader's view of road impacts on small animals by providing the ecological context within which the public infrastructure (roads, bridges, etc.) functions... The book is a call to action for researchers, engineers, landscape planners, and others involved with road ecology to collaborate... to reach common goals.

(*Herpetological Review*)

University researchers, government agencies involved in transportation issues, land managers, conservation biologists, and anyone concerned with the losses to herpetofauna and small mammals because of roads will find this volume to be an important and insightful resource.

(*Quarterly Review of Biology*)

About the Author

Kimberly M. Andrews is a wildlife researcher and graduate faculty member at the University of Georgia and the research coordinator at the Jekyll Island Authority. **Priya Nanjappa** is the amphibian and reptile coordinator at the Association of Fish and Wildlife Agencies and a national coordinator for Partners in Amphibian and Reptile Conservation. **Seth P. D. Riley** is a wildlife ecologist for the U.S. National Park Service. He is the coeditor of *Urban Carnivores: Ecology, Conflict, and Conservation*.

Users Review

From reader reviews:

Kimberly Thibault:

Have you spare time for just a day? What do you do when you have much more or little spare time? Yes, you can choose the suitable activity with regard to spend your time. Any person spent their particular spare time to take a move, shopping, or went to typically the Mall. How about open or maybe read a book titled Roads and Ecological Infrastructure: Concepts and Applications for Small Animals (Wildlife Management and Conservation)? Maybe it is to become best activity for you. You know beside you can spend your time using your favorite's book, you can better than before. Do you agree with their opinion or you have some other opinion?

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Mandy Jackson:

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