



Wildland Fire in Ecosystems: Effects of Fire on Fauna

L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith

Download now

Read Online 

[Click here](#) if your download doesn't start automatically

Wildland Fire in Ecosystems: Effects of Fire on Fauna

L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith

Wildland Fire in Ecosystems: Effects of Fire on Fauna L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith

Fire regimes—that is, patterns of fire occurrence, size, uniformity, and severity—have been a major force shaping landscape patterns and influencing productivity throughout North America for thousands of years. Faunal communities have evolved in the context of particular fire regimes and show patterns of response to fire itself and to the changes in vegetation composition and structure that follow fire. Animals' immediate responses to fire are influenced by fire season, intensity, severity, rate of spread, uniformity, and size. Responses may include injury, mortality, immigration, or emigration. Animals with limited mobility, such as young, are more vulnerable to injury and mortality than mature animals. The habitat changes caused by fire influence faunal populations and communities much more profoundly than fire itself. Fires often cause a short-term increase in productivity, availability, or nutrient content of forage and browse. Fires generally favor raptors by reducing hiding cover and exposing prey. Small carnivores respond to fire effects on small mammal populations (either positive or negative). Large carnivores and omnivores are opportunistic species with large home ranges. Their populations change little in response to fire, but they tend to thrive in areas where their preferred prey is most plentiful—often in recent burns. In forests and woodlands, understory fires generally alter habitat structure less than mixed severity and stand-replacement fires, and their effects on animal populations are correspondingly less dramatic. Stand-replacing fires reduce habitat quality for species that require dense cover and improve it for species that prefer open sites. Population explosions of wood-boring insects, an important food source for insect predators and insect-eating birds, can be associated with fire-killed trees. Woodpecker populations generally increase after mixed-severity and stand-replacement fire if snags are available for nesting. Secondary cavity nesters, both birds and mammals, take advantage of the nest sites prepared by primary excavators. Many animal-fire studies depict a reorganization of animal communities in response to fire, with increases in some species accompanied by decreases in others. Like fire effects on populations, fire effects on communities are related to the amount of structural change in vegetation. Bird abundance and diversity are likely to be greatest early in succession. When shrub or tree canopy closure occurs, species that prefer open sites and habitat edges decline and species that prefer mature structures increase. Major changes to fire regimes alter landscape patterns, processes, and functional linkages. These changes can affect animal habitat and often produce major changes in the composition of faunal communities. In many Western ecosystems, landscape changes due to fire exclusion have changed fuel quantities and arrangement, increasing the likelihood of large or severe fires, or both. Where fire exclusion has changed species composition and fuel arrays over large areas, subsequent fires without prior fuel modification are unlikely to restore presettlement vegetation and habitat. In many desert and semi desert habitats where fire historically burned infrequently because of sparse fuels, invasion of weedy species has changed the vegetation so that burns occur much more frequently. Many animals in these ecosystems are poorly adapted to avoid fire or use resources in postfire communities. Collaboration among managers, researchers, and the public is needed to address tradeoffs in fire management, and fire management must be better integrated with overall land management objectives to address the potential interactions of fire with other disturbances such as grazing, flood, wind throw, and insect and fungus infestations.

 [Download Wildland Fire in Ecosystems: Effects of Fire on Fauna ...pdf](#)

 [Read Online Wildland Fire in Ecosystems: Effects of Fire on Faun ...pdf](#)



Download and Read Free Online Wildland Fire in Ecosystems: Effects of Fire on Fauna L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith

Download and Read Free Online Wildland Fire in Ecosystems: Effects of Fire on Fauna L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith

From reader reviews:

Barbara Tucker:

The book Wildland Fire in Ecosystems: Effects of Fire on Fauna can give more knowledge and information about everything you want. So just why must we leave the good thing like a book Wildland Fire in Ecosystems: Effects of Fire on Fauna? Some of you have a different opinion about book. But one aim which book can give many information for us. It is absolutely correct. Right now, try to closer with the book. Knowledge or information that you take for that, you are able to give for each other; you may share all of these. Book Wildland Fire in Ecosystems: Effects of Fire on Fauna has simple shape but the truth is know: it has great and large function for you. You can seem the enormous world by wide open and read a publication. So it is very wonderful.

Bruce Benedict:

Book is to be different per grade. Book for children until eventually adult are different content. To be sure that book is very important for all of us. The book Wildland Fire in Ecosystems: Effects of Fire on Fauna had been making you to know about other information and of course you can take more information. It is rather advantages for you. The reserve Wildland Fire in Ecosystems: Effects of Fire on Fauna is not only giving you considerably more new information but also being your friend when you really feel bored. You can spend your spend time to read your e-book. Try to make relationship with the book Wildland Fire in Ecosystems: Effects of Fire on Fauna. You never really feel lose out for everything if you read some books.

Ralph Humphries:

As people who live in the particular modest era should be change about what going on or information even knowledge to make these people keep up with the era that is always change and advance. Some of you maybe will certainly update themselves by studying books. It is a good choice to suit your needs but the problems coming to anyone is you don't know what one you should start with. This Wildland Fire in Ecosystems: Effects of Fire on Fauna is our recommendation so you keep up with the world. Why, since this book serves what you want and want in this era.

Micah Clark:

Reading a guide make you to get more knowledge as a result. You can take knowledge and information originating from a book. Book is prepared or printed or highlighted from each source that will filled update of news. With this modern era like currently, many ways to get information are available for you. From media social similar to newspaper, magazines, science e-book, encyclopedia, reference book, new and comic. You can add your understanding by that book. Do you want to spend your spare time to open your book? Or just searching for the Wildland Fire in Ecosystems: Effects of Fire on Fauna when you necessary it?

**Download and Read Online Wildland Fire in Ecosystems: Effects of
Fire on Fauna L. Jack Lyon, Mark H. Huff, Robert G. Hooper,
Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith
#J2KL51WOQN8**

Read Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith for online ebook

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith books to read online.

Online Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith ebook PDF download

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith Doc

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith Mobipocket

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith EPub

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith Ebook online

Wildland Fire in Ecosystems: Effects of Fire on Fauna by L. Jack Lyon, Mark H. Huff, Robert G. Hooper, Edmund S. Telfer, David Scott Schreiner, Jane Kapler Smith Ebook PDF