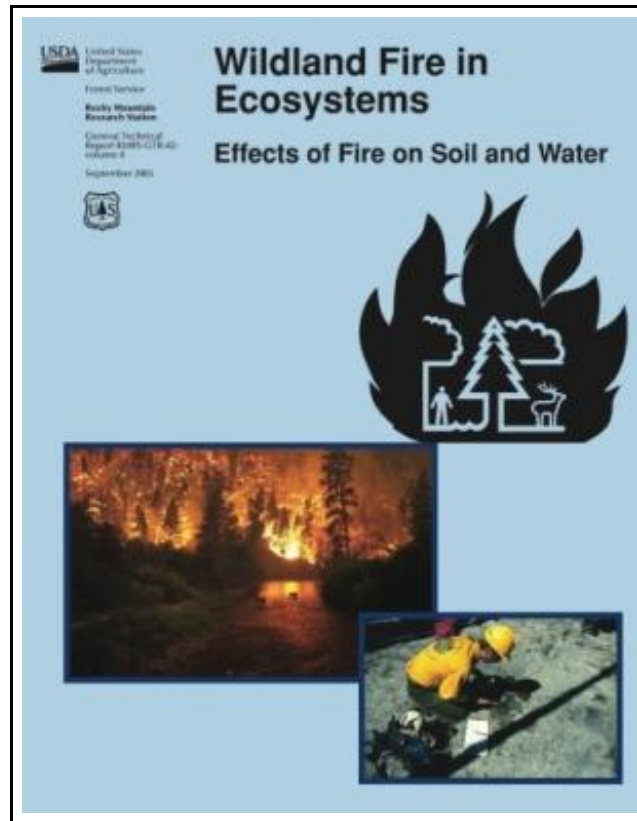


# Wildland Fire in Ecosystems: Effects of Fire on Soil and Water



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***(Mr. Hester Prohaska DVM)***

## WILDLAND FIRE IN ECOSYSTEMS: EFFECTS OF FIRE ON SOIL AND WATER



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Createspace. Paperback. Book Condition: New. This item is printed on demand. Paperback. 258 pages. Dimensions: 11.0in. x 8.5in. x 0.6in. Fire is a natural disturbance that occurs in most terrestrial ecosystems. It is also a tool that has been used by humans to manage a wide range of natural ecosystems worldwide. As such, it can produce a spectrum of effects on soils, water, riparian biota, and wetland components of ecosystems. Fire scientists, land managers, and fire suppression personnel need to evaluate fire effects on these components, and balance the overall benefits and costs associated with the use of fire in ecosystem management. This publication has been written to provide up-to-date information on fire effects on ecosystem resources that can be used as a basis for planning and implementing fire management activities. It is a companion publication to the recently published book, *Fires Effects on Ecosystems* by DeBano and others (1998). In the late 1970s, the USDA Forest Service published a series of state-of-knowledge papers about fire effects on vegetation, soils, water, wildlife, and other ecosystem resources. These papers, collectively called The Rainbow Series because of their covers, were widely used by forest fire personnel. This publication updates both the Tiedemann and others (1979) paper on fires effects on water and the Wells and others (1979) paper on soils. This publication is divided into three major parts (A, B, C) and an introductory chapter that provides discussions of fire regimes, fire severity and intensity, and fire related disturbances. Part A describes the nature of the soil resource, its importance, characteristics and the responses of soils to fire and the relationship of these features to ecosystem functioning and sustainability. Part A is divided into three main chapters (2, 3, and 4) that describe specific fire effects on the physical, chemical, and biological...



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