



## Retrospective Fire Modeling: Quantifying the Impacts of Fire Suppression

By Carol Miller

Createspace. Paperback. Condition: New. This item is printed on demand. 44 pages. Dimensions: 11.0in. x 8.5in. x 0.1in. When wildfires are suppressed, opportunities are foregone to create fuel breaks, reduce fire regime departures, and decrease future extreme fire behavior by modifying fuels. To our knowledge, no one has yet attempted to systematically quantify these foregone opportunities. This general technical report describes a methodology to measure the cumulative impacts of suppression over time by modeling the spread of ignitions that were suppressed. We illustrate a set of analysis steps to simulate where ignitions would have spread had they not been suppressed and to assess the cumulative effects that would have resulted from those fires. The quantification of these effects will help land managers improve the prioritization and planning of fuels treatments and help inform decisions about the suppression of future ignitions. In its simplest application, the methodology compares two landscapes: the realized landscape vs. a hypothetical landscape. As used throughout this guidebook, a landscape refers mainly to the biophysical characteristics of the study area such as vegetation and fuel conditions and potential fire behavior. The realized landscape is the landscape that resulted due to the fire management strategies actually implemented; this is...

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