



Field Guide for Mapping Post-Fire Soil Burn Severity

Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark

[Download now](#)

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

Field Guide for Mapping Post-Fire Soil Burn Severity

Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark

Field Guide for Mapping Post-Fire Soil Burn Severity Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark

Post-fire assessments are generally conducted by U S Department of Agriculture (USDA) Forest Service or U S Department of the Interior (DOI) Burned Area Emergency Response (BAER) teams after large wildfires. A BAER team's primary objective is to rapidly identify post-fire effects and determine whether the wildfire has created unacceptable risk to human life and safety, property, and critical natural or cultural resources. The BAER team may manage risk by recommending treatments for land, channel, road, and trail stabilization and for public safety (Calkin and others 2007; USDOI BLM 2007; Napper2006;USDAForestService2004). A map that reflects the fire's effects on the ground surface and soil condition is needed in order to rapidly assess fire effects, identify potential areas of concern, and prioritize initial field reconnaissance. Thus, it is important to develop a soil burn severity map as quickly as possible during the initial post-fire assessment phase. This map identifies the fire-induced changes in soil and ground surface properties that may affect infiltration, runoff, and erosion potential (Parsons 2002). It also enables BAER teams to achieve their primary objective of identifying areas of unacceptable risk to a critical value and where rehabilitation treatments may be most effective (Robichaud and others 2008b; Calkin and others 2007; Robichaud and others 2000) BAER teams have often struggled with accurately mapping post-fire soil burn severity. This challenge has grown in recent years as larger fires affect multiple jurisdictions, agencies, and landowners. There is a need for consistent methodologies, assessment tools, and terminology that quickly and accurately identify the post-fire conditions In response, BAER teams are using many geospatial assessment tools to expedite post-fire soil burn severity assessment. However, little standardization of methodology or terminology has occurred in soil burn severity mapping and field verification. This guide provides direction to BAER teams to promote consistency in post-fire soil burn severity mapping. With a field-validated soil burn severity map, BAER teams can more readily evaluate secondary wildfire effects, including increased runoff, erosion, flooding, sedimentation, and vulnerability to invasive weeds, and can predict natural revegetation (Calkin and others 2007). This field guide clarifies concepts, terminology, context, and use of the soil burn severity map. Field indicators and classification guidelines are also provided for use in mapping. Using this field guide will ensure consistency in map products across ecoregions around the United States. Components of this guide include: terminology and definitions, the role of remote sensing and geographic information systems (GIS) in BAER assessments, guidelines for identifying soil burn severity classes in the field, discussion on soil burn severity within general vegetation density models, photo series showing representative postfire soil and ground conditions, and field data sheets to assist in data collection for mapping soil burn severity. This guide provides a reference for ground conditions, soil characteristics, and vegetation density models that most closely match the field setting. Observations can be compared with those in the tables and photos to make a determination of the soil burn severity classification at a field location. This guide presents representative conditions only. Actual ground conditions will vary within the categories.

 [Download Field Guide for Mapping Post-Fire Soil Burn Severi ...pdf](#)

 [Read Online Field Guide for Mapping Post-Fire Soil Burn Seve ...pdf](#)

Download and Read Free Online Field Guide for Mapping Post-Fire Soil Burn Severity Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark

From reader reviews:

Scottie Hicks:

Here thing why this specific Field Guide for Mapping Post-Fire Soil Burn Severity are different and reputable to be yours. First of all looking at a book is good but it really depends in the content of computer which is the content is as delicious as food or not. Field Guide for Mapping Post-Fire Soil Burn Severity giving you information deeper as different ways, you can find any e-book out there but there is no guide that similar with Field Guide for Mapping Post-Fire Soil Burn Severity. It gives you thrill reading through journey, its open up your personal eyes about the thing that happened in the world which is might be can be happened around you. You can easily bring everywhere like in area, café, or even in your technique home by train. Should you be having difficulties in bringing the branded book maybe the form of Field Guide for Mapping Post-Fire Soil Burn Severity in e-book can be your option.

Daniel Miller:

The e-book with title Field Guide for Mapping Post-Fire Soil Burn Severity has lot of information that you can find out it. You can get a lot of benefit after read this book. This particular book exist new knowledge the information that exist in this reserve represented the condition of the world today. That is important to yo7u to be aware of how the improvement of the world. This kind of book will bring you within new era of the internationalization. You can read the e-book on your own smart phone, so you can read the idea anywhere you want.

Katherine Khan:

Do you like reading a e-book? Confuse to looking for your favorite book? Or your book ended up being rare? Why so many problem for the book? But just about any people feel that they enjoy with regard to reading. Some people likes reading through, not only science book but also novel and Field Guide for Mapping Post-Fire Soil Burn Severity or maybe others sources were given information for you. After you know how the fantastic a book, you feel need to read more and more. Science book was created for teacher or maybe students especially. Those guides are helping them to include their knowledge. In various other case, beside science reserve, any other book likes Field Guide for Mapping Post-Fire Soil Burn Severity to make your spare time more colorful. Many types of book like this one.

Willie Isaac:

Some people said that they feel fed up when they reading a e-book. They are directly felt it when they get a half areas of the book. You can choose the actual book Field Guide for Mapping Post-Fire Soil Burn Severity to make your current reading is interesting. Your skill of reading expertise is developing when you such as reading. Try to choose simple book to make you enjoy to see it and mingle the impression about book and looking at especially. It is to be very first opinion for you to like to open up a book and go through it. Beside that the e-book Field Guide for Mapping Post-Fire Soil Burn Severity can to be your friend when you're feel

alone and confuse in doing what must you're doing of their time.

**Download and Read Online Field Guide for Mapping Post-Fire Soil
Burn Severity Annette Parsons, Peter R. Robichaud, Sarah A.
Lewis, Carolyn Napper, Jess T. Clark #APL78S916DC**

Read Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark for online ebook

Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark 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 Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark books to read online.

Online Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark ebook PDF download

Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark Doc

Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark Mobipocket

Field Guide for Mapping Post-Fire Soil Burn Severity by Annette Parsons, Peter R. Robichaud, Sarah A. Lewis, Carolyn Napper, Jess T. Clark EPub