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Evaluating the Effectiveness of Postfire Rehabilitation Treatments

**Peter R. Robichaud
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Daniel G. Neary**



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Evaluating The Effectiveness Of Postfire Rehabilitation Treatments:

Evaluating the Effectiveness of Postfire Rehabilitation Treatments Peter R. Robichaud, 2000 Spending on postfire emergency watershed rehabilitation has increased during the past decade A west wide evaluation of USDA Forest Service burned area emergency rehabilitation BAER treatment effectiveness was undertaken as a joint project by USDA Forest Service Research and National Forest System staffs This evaluation covers 470 fires and 321 BAER projects from 1973 through 1998 in USDA Forest Service Regions 1 through 6 A literature review interviews with key Regional and Forest BAER specialists analysis of burned area reports and review of Forest and District monitoring reports were used in the evaluation The study found that spending on rehabilitation has increased to over 48 million during the past decade because the perceived threat of debris flows and floods has increased where fires are closer to the wildland urban interface Existing literature on treatment effectiveness is limited thus making treatment comparisons difficult The amount of protection provided by any treatment is small Of the available treatments contour felled logs show promise as an effective hillslope treatment because they provide some immediate watershed protection especially during the first postfire year Seeding has a low probability of reducing the first season erosion because most of the benefits of the seeded grass occurs after the initial damaging runoff events To reduce road failures treatments such as properly spaced rolling dips water bars and culvert reliefs can move water past the road prism Channel treatments such as straw bale check dams should be used sparingly because onsite erosion control is more effective than offsite sediment storage in channels in reducing sedimentation from burned watersheds From this review we recommend increased treatment effectiveness monitoring at the hillslope and sub catchment scale streamlined postfire data collection needs increased training on evaluation postfire watershed conditions and development of an easily accessible knowledge base of BAER techniques

Evaluating the Effectiveness of Postfire Rehabilitation Treatments Peter Robichaud, Jan L. Beyers, Daniel G. Neary, 2003-09 Spending on postfire emergency watershed rehabilitation has increased during the past decade A west wide evaluation of U S Dept of Agriculture USDA Forest Service burned area emergency rehabilitation BAER treatment effectiveness was undertaken as a joint project by USDA Forest Service Research Nat Forest System staffs This evaluation covers 470 fires 321 BAER projects from 1973 through 1988 in USDA Forest Service Regions 1 through 6 A literature review interviews with key Regional Forest BAER specialists analysis of burned area reports review of Forest district monitoring reports were used in the evaluation Charts tables

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Post-fire Treatment Effectiveness for Hillslope Stabilization Peter R. Robichaud, 1998 This synthesis of post fire treatment effectiveness reviews the past decade of research monitoring and product development related to post fire hillslope emergency stabilization treatments including erosion barriers

mulching chemical soil treatments and combinations of these treatments In the past ten years erosion barrier treatments contour felled logs and straw wattles have declined in use and are now rarely applied as a post fire hillslope treatment In contrast dry mulch treatments agricultural straw wood strands wood shreds etc have quickly gained acceptance as effective though somewhat expensive post fire hillslope stabilization treatments and are frequently recommended when values at risk warrant protection This change has been motivated by research that shows the proportion of exposed mineral soil or conversely the proportion of ground cover to be the primary treatment factor controlling post fire hillslope erosion Erosion barrier treatments provide little ground cover and have been shown to be less effective than mulch especially during short duration high intensity rainfall events In addition innovative options for producing and applying mulch materials have adapted these materials for use on large burned areas that are inaccessible by road Although longer term studies on mulch treatment effectiveness are on going early results and short term studies have shown that dry mulches can be highly effective in reducing post fire runoff and erosion Hydromulches have been used after some fires but they have been less effective than dry mulches in stabilizing burned hillslopes and generally decompose or degrade within a year

PostFire Treatment Effectiveness for Hillslope Stabilization , General Technical Report RMRS ,1998 **RMRS**Science ,2003

Klamath National Forest (N.F.), Thom-Seider Vegetation Management and Fuels Reduction Project ,2009 **Hayman Fire Case Study** ,2003 In 2002 much of the Front Range of the Rocky Mountains in Colorado was rich in dry vegetation as a result of fire exclusion and the droughty conditions that prevailed in recent years These dry and heavy fuel loadings were continuous along the South Platte River corridor located between Denver and Colorado Springs on the Front Range These topographic and fuel conditions combined with a dry and windy weather system centered over eastern Washington to produce ideal burning conditions The start of the Hayman Fire was timed and located perfectly to take advantage of these conditions resulting in a wildfire run in 1 day of over 60 000 acres and finally impacting over 138 000 acres The Hayman Fire Case Study involving more than 60 scientists and professionals from throughout the United States examined how the fire behaved the effects of fuel treatments on burn severity the emissions produced the ecological for example soil vegetation animals effects the home destruction postfire rehabilitation activities and the social and economic issues surrounding the Hayman Fire The Hayman Fire Case Study revealed much about wildfires and their interactions with both the social and natural environments As the largest fire in Colorado history it had a profound impact both locally and nationally The findings of this study will inform both private and public decisions on the management of natural resources and how individuals communities and organizations can prepare for wildfire events Natural Hazard Uncertainty Assessment Karin Riley,Peter Webley,Matthew Thompson,2016-11-15 Uncertainties are pervasive in natural hazards and it is crucial to develop robust and meaningful approaches to characterize and communicate uncertainties to inform modeling efforts In this monograph we provide a broad cross disciplinary overview of issues relating to uncertainties faced in natural hazard and risk assessment We

introduce some basic tenets of uncertainty analysis discuss issues related to communication and decision support and offer numerous examples of analyses and modeling approaches that vary by context and scope Contributors include scientists from across the full breath of the natural hazard scientific community from those in real time analysis of natural hazards to those in the research community from academia and government Key themes and highlights include Substantial breadth and depth of analysis in terms of the types of natural hazards addressed the disciplinary perspectives represented and the number of studies included Targeted application centered analyses with a focus on development and use of modeling techniques to address various sources of uncertainty Emphasis on the impacts of climate change on natural hazard processes and outcomes Recommendations for cross disciplinary and science transfer across natural hazard sciences This volume will be an excellent resource for those interested in the current work on uncertainty classification quantification and will document common and emergent research themes to allow all to learn from each other and build a more connected but still diverse and ever growing community of scientists Read an interview with the editors to find out more <https://eos.org/editors-vox-reducing-uncertainty-in-hazard-prediction>

Santa Fe National Forest (N.F.), Viveash Fire Salvage, 2002 **Science Basis for Changing Forest Structure to Modify Wildfire Behavior and Severity**, 2004 **Ochoco National Forest (N.F.), West Maurys Fuels and Vegetation Management Project**, 2005 *Ecology and Management of Forest Soils* Dan

Binkley, Richard F. Fisher, 2019-03-20 Contemporary soil science and conservation methods of effective forestry Forests and the soils that serve as their foundation cover almost a third of the world's land area Soils influenced by forest cover have different properties than soils cultivated for agricultural use Ecology and Management of Forest Soils provides a clear and comprehensive overview of the composition structure processes and management of the largest terrestrial ecosystem From composition and biogeochemistry to dynamics and management this essential text enables readers to understand the vital components of sustainable long term forest soil fertility The interaction of trees animals microbes and vegetation alter the biology and chemistry of forest soils these dynamics are also subject to human management requiring conservationists to be conversant in the philosophy and methods of soil science Now in its fifth edition this classic text includes new coverage of uptake of organic nitrogen in forests ¹⁵N retention studies the effects of N additions on C accumulation evidence based examples of the dynamics of soils and more Extensive updates and revisions to topics such as spatial implications of megafires long term organic matter accumulation soil characterization and molecular soil measurement techniques reflect contemporary research and practices in the field This informative overview of forest soils integrates clear and accurate descriptions of central concepts and logically organized chapters to provide readers with foundational knowledge of major soil features processes measurement techniques and management methods This authoritative survey of the management and ecology of forest soils Offers full color photographs and illustrations real world examples and case studies and clear overviews to each topic Presents up to date and accessible coverage of contemporary forest science literature and research

Addresses topical issues relevant to areas such as ecology forest management conservation and government policy Provides a comprehensive global perspective on forest soils from tropical to temperate to boreal Presents balanced coverage of soil science principles and their practical application to forest management Ecology and Management of Forest Soils offers students in areas of soil science and forestry natural resource and environmental management ecology agronomy and conservation an invaluable overview of the field while providing forestry professionals an efficient and current work of reference Hearing to Review U.S. Agriculture Policy in Advance of the 2012 Farm Bill. Serial No. 111-48, Part 2 (Final), April 30, 2010, 111-2 Hearings, *, 2010 **Fire Effects on Soils and Restoration Strategies** A Cerda, 2009-01-05 This book has been published a decade after Fires Effects on Ecosystems by DeBano Neary and Folliott 1998 and builds on their foundation to update knowledge on natural post fire processes and describe the use and effectiveness of various restoration strategies that may be applied when human intervention is warranted The chapters in this book Arapaho National Forest (N.F.), Arapaho National Recreation Area Forest Health and Fuels Reduction Project, 2004 *Modoc National Forest (N.F.), Blue Fire Forest Project*, 2003 Lolo National Forest (N.F.), Post Burn, 2002

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