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since its introduction in 1979 cheapo a computer based economic analysis program has allowed users of the stand prognosis model to evaluate silvicultural alternatives from an economic point of view subsequent modifications to the prognosis model have rendered cheap0 obsolete this users guide covers a new computer model cheap0 ii which is compatible with version 5 1 of the prognosis model and expands its economic analysis capabilities fire ecology is a scientific discipline concerned with natural processes involving fire in an ecosystem and the ecological effects the interactions between fire and the abiotic and biotic components of an ecosystem and the role of fire as an ecosystem process the hcr harvest cost revenue estimator is engineering and financial analysis software used to evaluate stand level financial thresholds for harvesting small diameter ponderosa pine pinus ponderosa dougl ex laws in the southwest united states the windows based program helps contractors and planners to identify costs associated with tree selection residual handling transportation of raw materials and equipment used costs are compared against total financial return for regionally based market opportunities to arrive at potential net profit information is used to identify per acre cost thresholds for contract appraisal and for prioritizing project planning for wildfire fuel reduction treatments and forest restoration efforts nfpa s field guide is your direct link to the information you need to conduct thorough and accurate investigations as a fire investigator your job is to provide answers as to origin and cause nfpa s field guide for fire investigators is like having your own personal assistant on hand to locate the facts and figures for you save time and get better results with a compact reference library in a single volume need to know the phone number for the bureau of alcohol tobacco and firearms or the heat release rate or ignition temperature of a particular material how about which symbol to use for specific fire protection equipment in your scene sketch just reach for your field guide for answers to these questions information on building construction and systems and much more this substantive resource has tables charts lists art and more from the most respected references in the field including nfpa 921 and nfpa 170 nfpa s fire protection handbook and the sfpe handbook of fire protection engineering data is organized into sections for fast and easy information retrieval and complete backup is provided for every phase of the investigation process from pre arrival activities to documentation and analysis this guide has you covered cover your information needs with the field guide for fire investigators fire investigators insurance personnel fire officers and attorneys should all add this resource to their tools of the trade more than 90 of wildfires are caused by human activity but other causes include lighting drought wind and changing weather conditions underground coal fires and even volcanic activity wildfire hazards risks and disasters one of nine volumes in the elsevier hazards and disasters series provides a close and detailed examination of wildfires and measures for more thorough and accurate monitoring prediction preparedness and prevention it takes a geo scientific and environmental approach to the topic while also discussing the impacts of human induced causes such as deforestation debris burning and arson underscoring the multi disciplinary nature of the topic it presents several international case studies that discuss the historical social cultural and ecological aspects of wildfire risk management in countries with a long history of dealing with this hazard e g usa australia and in countries e g taiwan where wildfire hazards represent a new and growing threat to the social and ecological landscape puts the contributions of environmental scientists social scientists climatologists and geoscientists at your fingertips arms you with the latest research on causality social and societal impacts economic impacts and the multi dimensional nature of wildfire mitigation preparedness and recovery features a broad range of tables figures diagrams illustrations and photographs to aid in the retention of key concepts discusses steps for prevention and mitigation of wildfires one of the most expensive and complex geo hazards in the world the continuing encroachment of human settlements into fire prone areas and extreme fire seasons in recent years make it urgent that we better understand both the

physical and human dimensions of managing the risk from wildfire wildfire risk follows from our awareness that increasing public knowledge about wildfire hazard does not necessarily lead to appropriate risk reduction behavior drawing heavily upon health and risk communication and risk modeling the authors advance our understanding of how individuals and communities respond to wildfire hazard they present results of original research on the social economic and psychological factors in responses to risk discuss how outreach and education can influence behavior and consider differences among ethnic racial groups and between genders with regard to values views and attitudes about wildfire risk they explore the role of public participation in risk assessment and mitigation as well as in planning for evacuation and recovery after fire wildfire risk concludes with a dedicated section on risk modeling with perspectives from decision sciences geography operations research psychology experimental economics and other social sciences landowners and managers municipalities the logging and livestock industries and conservation professionals all increasingly recognize that setting prescribed fires may reduce the devastating effects of wildfire control invasive brush and weeds improve livestock range and health maintain wildlife habitat control parasites manage forest lands remove hazardous fuel in the wildland urban interface and create residential buffer zones in this practical and helpful manual john r weir who has conducted more than 720 burns in four states offers a step by step guide to the systematic application of burning to meet specific land management needs and goals large and intense wildfires are integral to the globally important boreal forest biome while much is known about boreal wildfires the focus on forest remnants that either escape or survive these intense fires is a recent phenomenon academics now study ecological processes of wildfire residuals forest policymakers use their patterns to design harvest strategies forest managers consider their economic value and conservationists recognize their intrinsic ecological importance ecology of wildfire residuals in boreal forests is the first book to explore ecological patterns and processes of what does not burn within boreal wildfires following a brief introduction to the boreal forest biome it discusses the processes that form wildfire residuals how they are studied with various approaches and methods the types extent and ecological functions of wildfire residuals and their role in forest management applications all in the context of ecological scale this book is a reference for researchers and graduate students studying boreal forest ecology as well as for policymakers and forest managers it adopts a non reductionist perspective that will be of interest to scientists from conservation science forest ecology forest management and timber production brings together fire behaviour ecological scale vegetation ecology and conservation biology to provide a cross disciplinary multi scale and an integrative discussion of forest fire residuals captures the state of knowledge with a meta analysis of research trends during the past few decades with a comprehensive review of the literature a compilation of key references and a list of key topics relevant to the study of boreal wildfire residuals identifies the major gaps and uncertainties in the present body of knowledge including a critique of study techniques and reporting practices to date and proposes a set of terms and definitions and a list of research questions and priorities includes the authors observations and research experience from boreal canada and information extracted from interactions with north american and european ecologists forest managers and conservationists develop accurate computer models to determine wildfire risks and controlled burn benefits although scientists now recognize that fire is essential to many ecosystems the ecological and political issues of managing wildfire continue to be vexing mapping wildfire hazards and risks offers multiple perspectives on using a geographic information system gis for more effective wildfire management this innovative technology is the ideal tool to organize and display all the information available so authorities can make informed judgments based on all the facts because the authors are not merely theorizing but discussing the gis they are actually building and using mapping wildfire hazards and risks offers practical ideas and perspectives including specific information on the modeling approach and kinds of data utilized valuable discussions of the social and environmental factors included in the model techniques for predicting the effects of wildfire on neighborhoods soil erosion sedimentation and air quality predictions of long term ecosystem recovery given wildfires of different sizes and intensities maps charts tables and formulas to make the process of building a gis understandable and

accessible mapping wildfire hazards and risks is a compilation of the ideas of federal and state agencies universities and non governmental organizations on how to rank and prioritize forested watershed areas that are in need of prescribed fire this book provides the essential information for deciding how to set priorities for wildfire management that might reduce risks or lower future damages in the last decade the fire management program of the forest service u s department of agriculture has come under closer scrutiny because of ever rising program costs the forest service has responded by conducting several studies analyzing the economic efficiency of its fire management program some components of the analytical models have been difficult to develop particularly changes in the net value and output of timber caused by wildfire this is a users manual for vsmoke a computer program for predicting the smoke and dry weather visibility impact of a single prescribed fire at several downwind locations vsmoke is a fortran 77 program that depands on the input in file vsmoke ipt to generate output in file vsmoke out vsmoke is based on steady state gaussian plume modeling principles compatible with those used by the u s environmental protection agency vsmoke is uniquely tailored as a plume model for a low to moderate intensity ground fire as an emission source this state of knowledge review about the effects of fire on air quality can assist land fire and air resource managers with fire and smoke planning and their efforts to explain to others the science behind fire related program policies and practices to improve air quality chapter topics include air quality regulations and fire characterization of emissions from fire the transport dispersion and modeling of fire emissions atmospheric and plume chemistry air quality impacts of fire social consequences of air quality impacts and recommendations for future research wildland fire is an integral part of ecosystem mgmt and is essential in maintaining functional ecosystems but air pollutants emitted from those fires can be harmful to human health and welfare this review of what is known about the effects of fire on air quality will assist those in the fire and air quality mgmt communities contents 1 intro scope framework prior work changes in fire policy 2 air quality regulations and fire 3 overview of air pollution from fire 4 characterization of emissions from fires 5 transport dispersion and modeling of fire emissions 6 atmospheric and plume chemistry 7 estimating the air quality impacts of fire 8 consequences of fire on air quality 9 recommend for future research illus fire investigator the book on forest fire characteristics and management embodies seven chapters providing an updated comprehensive information on history causes types characteristics behaviour effects of fire on ecosystem dynamics i e plant community ecosystem wildlife and soils damaging beneficial effects prediction management and prevention control of forest fires in each chapter the readers will find complete information aptly backed by authentic data examples and illustrations chapter eight is dedicated to bibliography this book will be useful to students and researchers as a part of their curriculum and for forest managers officials and planners as an important guide for managing forest fires the fire and fuels extension ffe to the forest vegetation simulator fvs simulates fuel dynamics and potential fire behavior over time in the context of stand development and management existing models of fire behavior and fire effects were added to fvs to form this extension new submodels representing snag and fuel dynamics were created to complete the linkages this report contains four chapters chapter 1 states the purpose and chronicles some applications of the model chapter 2 details the model s content documents links to the supporting science and provides annotated examples of the outputs chapter 3 is a user s guide that presents options and examples of command usage chapter 4 describes how the model was customized for use in different regions fuel managers and silviculturists charged with managing fire prone forests can use the ffefvs and this document to better understand and display the consequences of alternative management actions

Fire Effects Information System

1996

since its introduction in 1979 cheapo a computer based economic analysis program has allowed users of the stand prognosis model to evaluate silvicultural alternatives from an economic point of view subsequent modifications to the prognosis model have rendered cheap0 obsolete this users guide covers a new computer model cheap0 ii which is compatible with version 5 1 of the prognosis model and expands its economic analysis capabilities

User's Guide to the National Fire Occurrence Data Library

1982

fire ecology is a scientific discipline concerned with natural processes involving fire in an ecosystem and the ecological effects the interactions between fire and the abiotic and biotic components of an ecosystem and the role of fire as an ecosystem process

Fire Effects Information System

1996

the hcr harvest cost revenue estimator is engineering and financial analysis software used to evaluate stand level financial thresholds for harvesting small diameter ponderosa pine pinus ponderosa dougl ex laws in the southwest united states the windows based program helps contractors and planners to identify costs associated with tree selection residual handling transportation of raw materials and equipment used costs are compared against total financial return for regionally based market opportunities to arrive at potential net profit information is used to identify per acre cost thresholds for contract appraisal and for prioritizing project planning for wildfire fuel reduction treatments and forest restoration efforts

User's Guide to CHEAPO II

1986

nfpa s field guide is your direct link to the information you need to conduct thorough and accurate investigations as a fire investigator your job is to provide answers as to origin and cause nfpa s field guide for fire investigators is like having your own personal assistant on hand to locate the facts and figures for you save time and get better results with a compact reference library in a single volume need to know the phone number for the bureau of alcohol tobacco and firearms or the heat release rate or ignition temperature of a particular material how about which symbol to use for specific fire protection equipment in your scene sketch just reach for your field guide for answers to these questions information on building construction and systems and much more this substantive resource has tables charts lists art and more from the most respected references in the field including nfpa 921 and nfpa 170 nfpa s fire protection handbook and the sfpe handbook of fire protection engineering data is organized into sections for fast and easy information retrieval and complete backup is provided for every phase of the investigation process from pre arrival activities to documentation and analysis this guide has you covered cover your information needs with the field guide for fire investigators fire investigators insurance personnel fire officers and attorneys should all add this resource to their tools of the trade

User's Guide to AFFIRMS

1980

more than 90 of wildfires are caused by human activity but other causes include lighting drought wind and changing weather conditions underground coal fires and even volcanic activity wildfire hazards risks and disasters one of nine volumes in the elsevier hazards and disasters series provides a close and detailed examination of wildfires and measures for more thorough and accurate monitoring prediction preparedness and prevention it takes a geo scientific and environmental approach to the topic while also discussing the impacts of human induced causes such as deforestation debris burning and arson underscoring the multi disciplinary nature of the topic it presents several international case studies that discuss the historical social cultural and ecological aspects of wildfire risk management in countries with a long history of dealing with this hazard e g usa australia and in countries e g taiwan where wildfire hazards represent a new and growing threat to the social and ecological landscape puts the contributions of environmental scientists social scientists climatologists and geoscientists at your fingertips arms you with the latest research on causality social and societal impacts economic impacts and the multi dimensional nature of wildfire mitigation preparedness and recovery features a broad range of tables figures diagrams illustrations and photographs to aid in the retention of key concepts discusses steps for prevention and mitigation of wildfires one of the most expensive and complex geo hazards in the world

Ecological Restoration: Wildfire Ecology Reference Manual

2016-10-10

the continuing encroachment of human settlements into fire prone areas and extreme fire seasons in recent years make it urgent that we better understand both the physical and human dimensions of managing the risk from wildfire wildfire risk follows from our awareness that increasing public knowledge about wildfire hazard does not necessarily lead to appropriate risk reduction behavior drawing heavily upon health and risk communication and risk modeling the authors advance our understanding of how individuals and communities respond to wildfire hazard they present results of original research on the social economic and psychological factors in responses to risk discuss how outreach and education can influence behavior and consider differences among ethnic racial groups and between genders with regard to values views and attitudes about wildfire risk they explore the role of public participation in risk assessment and mitigation as well as in planning for evacuation and recovery after fire wildfire risk concludes with a dedicated section on risk modeling with perspectives from decision sciences geography operations research psychology experimental economics and other social sciences

User Guide for HCR Estimator 2.0

2008

landowners and managers municipalities the logging and livestock industries and conservation professionals all increasingly recognize that setting prescribed fires may reduce the devastating effects of wildfire control invasive brush and weeds improve livestock range and health maintain wildlife habitat control parasites manage forest lands remove hazardous fuel in the wildland urban interface and create residential buffer zones in this practical and helpful manual john r weir who has conducted more than 720 burns in four states offers a step by step guide to the systematic application of burning to meet specific land management needs and goals

User's Guide to PCDANGER

1997

large and intense wildfires are integral to the globally important boreal forest biome while much is known about boreal wildfires the focus on forest remnants that either escape or survive these intense fires is a recent phenomenon academics now study ecological processes of wildfire residuals forest policymakers use their patterns to design harvest strategies forest managers consider their economic value and conservationists recognize their intrinsic ecological importance ecology of wildfire residuals in boreal forests is the first book to explore ecological patterns and processes of what does not burn within boreal wildfires following a brief introduction to the boreal forest biome it discusses the processes that form wildfire residuals how they are studied with various approaches and methods the types extent and ecological functions of wildfire residuals and their role in forest management applications all in the context of ecological scale this book is a reference for researchers and graduate students studying boreal forest ecology as well as for policymakers and forest managers it adopts a non reductionist perspective that will be of interest to scientists from conservation science forest ecology forest management and timber production brings together fire behaviour ecological scale vegetation ecology and conservation biology to provide a cross disciplinary multi scale and an integrative discussion of forest fire residuals captures the state of knowledge with a meta analysis of research trends during the past few decades with a comprehensive review of the literature a compilation of key references and a list of key topics relevant to the study of boreal wildfire residuals identifies the major gaps and uncertainties in the present body of knowledge including a critique of study techniques and reporting practices to date and proposes a set of terms and definitions and a list of research questions and priorities includes the authors observations and research experience from boreal canada and information extracted from interactions with north american and european ecologists forest managers and conservationists

Field Guide for Fire Investigators

2003

develop accurate computer models to determine wildfire risks and controlled burn benefits although scientists now recognize that fire is essential to many ecosystems the ecological and political issues of managing wildfire continue to be vexing mapping wildfire hazards and risks offers multiple perspectives on using a geographic information system gis for more effective wildfire management this innovative technology is the ideal tool to organize and display all the information available so authorities can make informed judgments based on all the facts because the authors are not merely theorizing but discussing the gis they are actually building and using mapping wildfire hazards and risks offers practical ideas and perspectives including specific information on the modeling approach and kinds of data utilized valuable discussions of the social and environmental factors included in the model techniques for predicting the effects of wildfire on neighborhoods soil erosion sedimentation and air quality predictions of long term ecosystem recovery given wildfires of different sizes and intensities maps charts tables and formulas to make the process of building a gis understandable and accessible mapping wildfire hazards and risks is a compilation of the ideas of federal and state agencies universities and non governmental organizations on how to rank and prioritize forested watershed areas that are in need of prescribed fire this book provides the essential information for deciding how to set priorities for wildfire management that might reduce risks or lower future damages

Users Guide for Fire Image Analysis System-version 5.0

1995

in the last decade the fire management program of the forest service u s department of agriculture has come under closer scrutiny because of ever rising program costs the forest service has responded by conducting several studies analyzing the economic efficiency of its fire management program some components of the analytical models have been difficult to develop particularly changes in the net value and output of timber caused by wildfire

User's Guide to the National Fuel Appraisal Process

1982

this is a users manual for vsmoke a computer program for predicting the smoke and dry weather visibility impact of a single prescribed fire at several downwind locations vsmoke is a fortran 77 program that depands on the input in file vsmoke ipt to generate output in file vsmoke out vsmoke is based on steady state gaussian plume modeling principles compatible with those used by the u s environmental protection agency vsmoke is uniquely tailored as a plume model for a low to moderate intensity ground fire as an emission source

Boise National Forest (N.F.), South Fork Wildfire Salvage Project

2004

this state of knowledge review about the effects of fire on air quality can assist land fire and air resource managers with fire and smoke planning and their efforts to explain to others the science behind fire related program policies and practices to improve air quality chapter topics include air quality regulations and fire characterization of emissions from fire the transport dispersion and modeling of fire emissions atmospheric and plume chemistry air quality impacts of fire social consequences of air quality impacts and recommendations for future research

Wildfire Hazards, Risks, and Disasters

2014-10-20

wildland fire is an integral part of ecosystem mgmt and is essential in maintaining functional ecosystems but air pollutants emitted from those fires can be harmful to human health and welfare this review of what is known about the effects of fire on air quality will assist those in the fire and air quality mgmt communities contents 1 intro scope framework prior work changes in fire policy 2 air quality regulations and fire 3 overview of air pollution from fire 4 characterization of emissions from fires 5 transport dispersion and modeling of fire emissions 6 atmospheric and plume chemistry 7 estimating the air quality impacts of fire 8 consequences of fire on air quality 9 recommend for future research illus

Wildfire Risk

2010-09-30

fire investigator

Boise National Forest (N.F.), Payette National Forest (N.F.), Thunderbolt Wildfire Recovery Project, Valley County

1995

the book on forest fire characteristics and management embodies seven chapters providing an updated comprehensive information on history causes types characteristics behaviour effects of fire on ecosystem dynamics i e plant community ecosystem wildlife and soils damaging beneficial effects prediction management and prevention control of forest fires in each chapter the readers will find complete information aptly backed by authentic data examples and illustrations chapter eight is dedicated to bibliography this book will be useful to students and researchers as a part of their curriculum and for forest managers officials and planners as an important guide for managing forest fires

Interior, Environment, and Related Agencies Appropriations for 2016: Justification of the budget estimates: National Park Service; U.S. Geological Survey

2015

the fire and fuels extension ffe to the forest vegetation simulator fvs simulates fuel dynamics and potential fire behavior over time in the context of stand development and management existing models of fire behavior and fire effects were added to fvs to form this extension new submodels representing snag and fuel dynamics were created to complete the linkages this report contains four chapters chapter 1 states the purpose and chronicles some applications of the model chapter 2 details the model s content documents links to the supporting science and provides annotated examples of the outputs chapter 3 is a user s guide that presents options and examples of command usage chapter 4 describes how the model was customized for use in different regions fuel managers and silviculturists charged with managing fire prone forests can use the ffefvs and this document to better understand and display the consequences of alternative management actions

Interior, Environment, and Related Agencies Appropriations for 2016, Part 4 B, 2015, 114-1

2015

Conducting Prescribed Fires

2009-10-26

Monthly Catalog of United States Government Publications

1971

Monthly Catalog of United States Government Publications, Cumulative Index

1976

Ecology of Wildfire Residuals in Boreal Forests

2014-07-21

PTIPS Database Applications Users Guide and Reference Manual

1996

Smoke Management Guide for Prescribed and Wildland Fire

2001

Protecting People and Homes from Wildfire in the Interior West

1988

Mapping Wildfire Hazards and Risks

2000-10-10

Timber Net Value and Physical Output Changes Following Wildfire in the Northern Rocky Mountains

1985

Effects of Wildfire on the Hydrology of Capulin and Rito de Los Frijoles Canyons, Bandelier National Monument, New Mexico

2002

Fire Management Today

2006

Program VSMOKE-users Manual

1996

Wildland Fire in Ecosystems

2003

Wildland Fire in Ecosystems

2009-09

User's Manual for NFPA 921

2006-03

Effects of Fire on Madrean Province Ecosystems

1996

Research Accomplishments

1976

Forest Service Research Accomplishments

1975

Forest Fire

2022-07-07

The California Fire Economics Simulator Version 2 User's Guide

1999

General Technical Report RM.

1976

Standard Fire Behavior Fuel Models

2005

The Fire and Fuels Extension to the Forest Vegetation Simulator

2003

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