

# **Wildland Fire Mitigation And Management Commission**

## **Wildland Fire Mitigation and Management Commissions: Protecting Communities and Ecosystems**

### Introduction:

Wildfires are a devastating force of nature, capable of consuming vast landscapes, destroying property, and tragically claiming lives. The increasing frequency and intensity of these events, fueled by climate change and human activity, necessitates a proactive and coordinated approach to wildfire management. This article delves into the crucial role of Wildland Fire Mitigation and Management Commissions (WFM&MCs), exploring their structure, responsibilities, and the vital impact they have on safeguarding communities and preserving precious ecosystems. We'll examine their strategies for mitigation, suppression, and post-fire recovery, providing a comprehensive overview of their essential functions and the ongoing challenges they face.

### Understanding the Role of Wildland Fire Mitigation and Management Commissions

Wildland Fire Mitigation and Management Commissions are governmental or quasi-governmental bodies established at various levels (local, regional, state/provincial, or national) to address the complex issue of wildfire. Their specific mandate and structure vary depending on the jurisdiction, but their core function remains consistent: to develop and implement strategies to reduce the risk and impact of wildfires. This multifaceted approach incorporates several key areas:

#### 1. Mitigation Strategies: Preventing Wildfires Before They Start:

WFM&MCs play a critical role in proactive wildfire prevention. This involves implementing strategies designed to minimize the risk of ignition and the potential for rapid fire spread. Key mitigation efforts include:

**Fuel Management:** This is a cornerstone of wildfire prevention. It involves strategically reducing the amount and density of flammable vegetation in high-risk areas. Techniques include prescribed burns (controlled fires), mechanical thinning (removing trees and underbrush), and creating defensible space around structures. WFM&MCs often work with landowners, forestry agencies, and local communities to implement these fuel reduction measures.

**Public Education and Awareness:** Educating the public about wildfire dangers and responsible behavior is crucial. WFM&MCs develop and disseminate information on safe campfire practices, proper disposal of smoking materials, and the importance of creating defensible space around homes. Public awareness campaigns, educational workshops, and community outreach programs are key components of their efforts.

**Early Warning Systems:** Establishing and maintaining effective early warning systems is vital for timely response. This includes utilizing weather monitoring, fire detection technologies (e.g., remote sensing, lookout towers), and rapid communication networks to alert communities and fire crews to

potential wildfire threats.

## 2. Suppression Strategies: Responding to Active Wildfires:

While prevention is paramount, the reality is that wildfires do occur. WFM&MCs play a pivotal role in suppressing active fires, employing a range of tactics and resources:

**Firefighting Resources:** These commissions often coordinate the deployment of firefighting personnel, equipment (e.g., bulldozers, fire engines, helicopters), and other resources during wildfire events. They work in collaboration with state/provincial and federal agencies, coordinating efforts to contain and extinguish fires effectively.

**Incident Command Systems:** The use of standardized incident command systems (ICS) ensures efficient and coordinated response during complex wildfire events. WFM&MCs often play a key role in implementing and overseeing ICS frameworks, ensuring effective communication and resource allocation.

**Interagency Cooperation:** Effective wildfire suppression requires seamless collaboration between various agencies and organizations. WFM&MCs foster cooperation among different levels of government, private landowners, and volunteer fire departments to ensure a unified and effective response.

## 3. Post-Fire Recovery and Restoration:

After a wildfire, the focus shifts to recovery and restoration. WFM&MCs play a vital role in this phase, helping communities and ecosystems rebuild:

**Assessment and Damage Evaluation:** Following a fire, WFM&MCs often conduct assessments to determine the extent of damage to infrastructure, property, and natural resources. This information is crucial for planning and prioritizing recovery efforts.

**Rehabilitation and Restoration:** This involves implementing measures to restore damaged ecosystems, prevent further erosion, and promote the regrowth of vegetation. This might include reforestation efforts, soil stabilization techniques, and measures to protect water quality.

**Community Support and Assistance:** WFM&MCs often coordinate support services for affected communities, providing assistance with housing, financial aid, and other essential needs. They work with other agencies to provide resources and guidance during the challenging recovery period.

## Challenges Faced by Wildland Fire Mitigation and Management Commissions:

Despite their crucial role, WFM&MCs face numerous challenges:

**Funding Limitations:** Securing adequate funding for prevention, suppression, and recovery efforts is often a major hurdle. Competition for limited resources and budget constraints can hamper the effectiveness of mitigation programs.

**Climate Change Impacts:** The increasing frequency and intensity of wildfires due to climate change pose a significant challenge. WFM&MCs must adapt their strategies to address the evolving wildfire landscape.

Land Ownership and Management: Complex land ownership patterns can make implementing effective fuel management programs challenging. Coordinating efforts across diverse jurisdictions and landowners requires careful planning and collaboration.

Public Perception and Engagement: Gaining public support and engagement in wildfire prevention efforts can be difficult. Educating the public about the importance of mitigation and responsible land use is ongoing challenge.

#### Sample Wildland Fire Mitigation and Management Commission Structure and Report Outline:

Name: The Redwood Ridge Wildland Fire Mitigation and Management Commission (RRWFM&MC)

Outline:

Introduction: Mission statement, jurisdictional boundaries, and overall goals.

Chapter 1: Mitigation Strategies: Details of fuel management plans, public education programs, and early warning systems.

Chapter 2: Suppression Strategies: Outlines the commission's response protocol, resource allocation, and interagency collaborations.

Chapter 3: Post-Fire Recovery and Restoration: Describes the commission's role in damage assessment, rehabilitation efforts, and community support.

Chapter 4: Challenges and Future Directions: Addresses ongoing challenges, including funding, climate change impacts, and evolving best practices.

Conclusion: Summary of key findings, recommendations for improvement, and future goals.

(Each chapter would then be expanded upon with detailed information specific to the Redwood Ridge commission's activities and policies.)

#### FAQs:

1. What is the difference between wildfire mitigation and suppression? Mitigation focuses on preventing wildfires, while suppression involves controlling and extinguishing active fires.
2. How are prescribed burns used in wildfire mitigation? Prescribed burns are controlled fires used to reduce fuel loads and create firebreaks, minimizing the risk of uncontrolled wildfires.
3. What role do community members play in wildfire mitigation? Communities play a critical role in creating defensible space around homes, following fire safety regulations, and participating in public education programs.
4. How do WFM&MCs coordinate with other agencies during wildfires? They utilize incident command systems and interagency agreements to ensure efficient resource allocation and communication.
5. What are the common challenges faced by WFM&MCs? Funding limitations, climate change impacts, land ownership complexities, and public engagement are significant challenges.
6. How do WFM&MCs support post-fire recovery? They assist with damage assessment,

rehabilitation efforts, and providing support services to affected communities.

7. What technologies are used in wildfire detection and monitoring? Remote sensing, lookout towers, and weather monitoring systems are crucial for early detection and response.

8. How does climate change affect wildfire risk? Climate change leads to hotter, drier conditions, increasing the frequency, intensity, and spread of wildfires.

9. What are some examples of fuel reduction techniques? Mechanical thinning, prescribed burns, and creating defensible space are common fuel reduction techniques.

#### Related Articles:

1. Defensible Space and Wildland-Urban Interface: Discusses the importance of creating defensible space between homes and wildlands to protect structures from wildfires.

2. The Role of Prescribed Fire in Ecosystem Management: Explores the ecological benefits of prescribed burns in maintaining healthy forest ecosystems.

3. Wildfire Smoke and Public Health: Examines the health impacts of wildfire smoke and strategies for mitigating risks.

4. Climate Change and Wildfire Risk in the Western US: Analyses the link between climate change and the increasing frequency and intensity of wildfires in the western United States.

5. Wildfire Economics: The Cost of Prevention and Suppression: Discusses the economic implications of wildfires, including the costs of prevention, suppression, and recovery.

6. Community Wildfire Protection Plans: Explains the development and implementation of community-based wildfire protection plans.

7. The Effectiveness of Different Wildfire Suppression Techniques: Compares and contrasts different methods used to suppress wildfires, evaluating their effectiveness.

8. Post-Wildfire Erosion Control Strategies: Focuses on techniques used to prevent soil erosion and landslides after wildfires.

9. Wildfire and Biodiversity Loss: Explores the impact of wildfires on biodiversity and the strategies for protecting vulnerable species.

**wildland fire mitigation and management commission:** *Building Wildfire Resilience Into Forest Management Planning* Great Britain. Forestry Commission, 2014 [http://www.forestry.gov.uk/PDF/FCPG022.pdf/\\$FILE/FCPG022.pdf](http://www.forestry.gov.uk/PDF/FCPG022.pdf/$FILE/FCPG022.pdf)

**wildland fire mitigation and management commission:** **FireSmart** Partners in Protection (Canada), 2003 Contains the manual intended for use with the interactive FireSmart disc (manual also included on interactive disc).

**wildland fire mitigation and management commission:** **A Century of Wildland Fire Research** National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life

Studies, Board on Agriculture and Natural Resources, Board on Earth Sciences and Resources, Committee on Increasing Resilience to Wildland Fire: A Century of Wildland Fire Research, 2017-09-30 Although ecosystems, humans, and fire have coexisted for millennia, changes in geology, ecology, hydrology, and climate as well as sociocultural, regulatory, and economic factors have converged to make wildland fire management exceptionally challenging for U.S. federal, state, and local authorities. Given the mounting, unsustainable costs and difficulty translating existing wildland fire science into policy, the National Academies of Sciences, Engineering, and Medicine organized a 1-day workshop to focus on how a century of wildland fire research can contribute to improving wildland fire management. This publication summarizes the presentations and discussions from the workshop.

**wildland fire mitigation and management commission: Ignition** M.R. O'Connor, 2023-10-17 A work of on-the-ground reporting into the science of, and cultural ideas around, wildfires and fire management that challenges the ethos of the conservation movement, offering a hopeful vision of the connection between humans and our environment. In a riveting investigation of the science and ecology of wildfires, journalist M.R. O'Connor ventures into some of the oldest, most beautiful, and remote forests in North America to explore the powerful and ancient relationship between trees, fires, and humans. Along the way, she describes revelatory research in the fields of paleobotany and climate science to show how the world's forests have been shaped by fire for hundreds of millions of years. She also reports on the compelling archeological evidence emerging from the field of ethnoecology that proves how, until very recently, humans were instigators of forest fires, actively molding and influencing the ecosystems around them by inserting themselves into the loop of a natural biological process to start "good fires." As she weaves together first-hand reportage with research and cultural insights, O'Connor also embeds on firelines alongside firefighters and "pyrotechnicians." These highly trained individuals are resurrecting the practice of prescribed burning in an effort to sustain fire-dependent forest ecologies and prevent the catastrophic wildfires that are increasing in frequency and intensity as a result of global warming. Hailing from diverse backgrounds including state and federal agencies, scientific laboratories, and private lands and tribal nations, these fire starters are undertaking a radical and often controversial effort to promote, protect, and expand the responsible use of fire to restore ecological health to landscapes. At the heart of *Ignition* is a discussion about risk and how our relationship to it as a society will determine our potential to survive the onslaught of climate change.

**wildland fire mitigation and management commission: Issues for Debate in American Public Policy** CQ Researcher,, 2021-08-26 Written by award-winning CQ Researcher journalists, this collection of non-partisan reports offers an in-depth examination of today's most pressing policy issues.

**wildland fire mitigation and management commission: A Guide for Prescribed Fire in Southern Forests** , 1973

**wildland fire mitigation and management commission: Wildfire** George Wuerthner, 2006 Wildfires are an awe-inspiring natural phenomenon that have shaped North America's landscapes. Containing over 150 photographs, this book covers the topic of wildfire from ecological, economic, and social/political perspectives. It also examines the policies and practices that affect them, such as fire suppression.

**wildland fire mitigation and management commission: *Wildland Fire in Ecosystems*** David V. Sandberg, 2003 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 mitigation and management commission: The Natural Role of Fire** United States. Forest Service. Northern Region, 1972

**wildland fire mitigation and management commission:** Federal Wildland Fire Management DIANE Publishing Company, 1997-08 Managing wildland fire in the U.S. is a challenge increasing in complexity & magnitude. The goals & actions presented in this report encourage a proactive approach to wildland fire to reduce its threat. Five major topic areas on the subject are addressed: the role of wildland fire in resource management; the use of wildland fire; preparedness & suppression; wildland/urban interface protection; & coordinated program management. Also presented are the guiding principle that are fundamental to wildland fire management & recommendations for fire management policies. Photos, graphs, & references.

**wildland fire mitigation and management commission:** *Introduction to Prescribed Fire in Southern Ecosystems* Thomas A. Waldrop, Scott L. Goodrick, 2018-03-29 Prescribed burning is an important tool throughout Southern forests, grasslands, and croplands. The need to control fire became evident to allow forests to regenerate. This manual is intended to help resource managers to plan and execute prescribed burns in Southern forests and grasslands. A new appreciation and interest has developed in recent years for using prescribed fire in grasslands, especially hardwood forests, and on steep mountain slopes. Proper planning and execution of prescribed fires are necessary to reduce detrimental effects, such as the impacts on air and downstream water quality. Check out these related products: *Trees at Work: Economic Accounting for Forest Ecosystem Services in the U.S. South* can be found here:

<https://bookstore.gpo.gov/products/trees-work-economic-accounting-forest-ecosystem-services-us-south> Soil Survey Manual 2017 is available here:

<https://bookstore.gpo.gov/products/soil-survey-manual-march-2017> Quantifying the Role of the National Forest System Lands in Providing Surface Drinking Water Supply for the Southern United States is available here:

<https://bookstore.gpo.gov/products/quantifying-role-national-forest-system-lands-providing-surface-drinking-water-supply> Fire Management Today print subscription is available here:

<https://bookstore.gpo.gov/products/fire-management-today> Wildland Fire in Ecosystems: Fire and Nonnative Invasive Plants can be found here:

<https://bookstore.gpo.gov/products/wildland-fire-ecosystems-fire-and-nonnative-invasive-plants>

**wildland fire mitigation and management commission: Implications of the California Wildfires for Health, Communities, and Preparedness** National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Board on Population Health and Public Health Practice, Board on Health Sciences Policy, Roundtable on Environmental Health Services, Research, and Medicine, Roundtable on the Promotion of Health Equity, Roundtable on Population Health Improvement, Forum on Medical and Public Health Preparedness for Disasters and Emergencies, 2020-08-31 California and other wildfire-prone western states have experienced a substantial increase in the number and intensity of wildfires in recent years. Wildlands and climate experts expect these trends to continue and quite likely to worsen in coming years. Wildfires and other disasters can be particularly devastating for vulnerable communities. Members of these communities tend to experience worse health outcomes from disasters, have fewer resources for responding and rebuilding, and receive less assistance from state, local, and federal agencies. Because burning wood releases particulate matter and other toxicants, the health effects of wildfires extend well beyond burns. In addition, deposition of toxicants in soil and water can result in chronic as well as acute exposures. On June 4-5, 2019, four different entities within the National Academies of Sciences, Engineering, and Medicine held a workshop titled Implications of the California Wildfires for Health, Communities, and Preparedness at the Betty Irene Moore School of Nursing at the University of California, Davis. The workshop explored the population health, environmental health, emergency preparedness, and health equity consequences of increasingly strong and numerous wildfires, particularly in California. This publication is a summary of the presentations and discussion of the workshop.

**wildland fire mitigation and management commission:** Forest Fire Disaster Management Satendra, Ashutosh Dev Kaushik, 2014

**wildland fire mitigation and management commission: Natural and Anthropogenic Disasters** M.K. Jha, 2010-07-20 The major challenges of the 21st century faced by human beings are how to achieve water security, food security, energy security and environmental security. Owing to enhanced natural/anthropogenic disasters worldwide, these challenges become much more complicated and daunting especially for developing countries. Therefore, it is important to highlight the risk of different disasters as well as the modern tools and techniques for minimizing disaster incidence and losses. Disaster management being highly multidisciplinary in nature, a comprehensive book dealing with different aspects of disaster management, and encompassing important disasters faced by humankind is presently not available. This book is an attempt to fulfill this gap. It provides clear, comprehensive, and up-to-date information about different facets of disaster management along with salient case studies. The book highlights the current status of disaster management focusing on developing nations, discusses vital issues such as climate change and sustainable development, modern approaches and tools/techniques, and the challenges of and future R&D needs for sustainable disaster management.

**wildland fire mitigation and management commission: *Wildfires in the West*** United States. Congress. House. Committee on Government Reform. Subcommittee on Energy Policy, Natural Resources, and Regulatory Affairs, 2004

**wildland fire mitigation and management commission: Approaches to Managing Disaster** John Tiefenbacher, 2012-03-14 Approaches to Managing Disaster - Assessing Hazards, Emergencies and Disaster Impacts demonstrates the array of information that is critical for improving disaster management. The book reflects major management components of the disaster continuum (the nature of risk, hazard, vulnerability, planning, response and adaptation) in the context of threats that derive from both nature and technology. The chapters include a selection of original research reports by an array of international scholars focused either on specific locations or on specific events. The chapters are ordered according to the phases of emergencies and disasters. The text reflects the disciplinary diversity found within disaster management and the challenges presented by the co-mingling of science and social science in their collective efforts to promote improvements in the techniques, approaches, and decision-making by emergency-response practitioners and the public. This text demonstrates the growing complexity of disasters and their management, as well as the tests societies face every day.

**wildland fire mitigation and management commission: Post-Fire Management and Restoration of Southern European Forests** Francisco Moreira, Margarita Arianoutsou, Piermaria Corona, Jorge De las Heras, 2011-11-02 In spite of all the efforts made in fire prevention and suppression, every year about 45 000 forest fires occur in Europe, burning ca. 0.5 million hectares of forests and other rural lands. The management of these burned forests has been given much less attention than fire prevention or fire suppression issues, but the post-fire management of burned areas raises strong concerns (economic and social impacts, soil erosion and water quality, biodiversity loss, forest restoration). Although there are a few publications which address post-fire management, the focus of these has been either on general approaches to restoration or specific topics such as preventing post-fire soil erosion. This book is about the post-fire management of fire-prone forest types in southern Europe. It provides the first comprehensive overview of the topic, ranging from stand-level to landscape-level management, and from emergency actions to long-term restoration approaches.

**wildland fire mitigation and management commission: *Federal Wildland Fire Management*** United States. Department of the Interior, 1995

**wildland fire mitigation and management commission: Enhancing the Resilience of the Nation's Electricity System** National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Committee on Enhancing the Resilience of the Nation's Electric Power Transmission and Distribution System, 2017-10-25 Americans' safety, productivity, comfort, and convenience depend on the reliable supply of electric power. The electric power system is a complex cyber-physical system composed of a

network of millions of components spread out across the continent. These components are owned, operated, and regulated by thousands of different entities. Power system operators work hard to assure safe and reliable service, but large outages occasionally happen. Given the nature of the system, there is simply no way that outages can be completely avoided, no matter how much time and money is devoted to such an effort. The system's reliability and resilience can be improved but never made perfect. Thus, system owners, operators, and regulators must prioritize their investments based on potential benefits. Enhancing the Resilience of the Nation's Electricity System focuses on identifying, developing, and implementing strategies to increase the power system's resilience in the face of events that can cause large-area, long-duration outages: blackouts that extend over multiple service areas and last several days or longer. Resilience is not just about lessening the likelihood that these outages will occur. It is also about limiting the scope and impact of outages when they do occur, restoring power rapidly afterwards, and learning from these experiences to better deal with events in the future.

**wildland fire mitigation and management commission: Development of Coarse-scale Spatial Data for Wildland Fire and Fuel Management** , 2002 The objective of this study was to provide managers with national-level data on current conditions of vegetation and fuels developed from ecologically based methods to address these questions: How do current vegetation and fuels differ from those that existed historically? Where on the landscape do vegetation and fuels differ from historical levels? In particular, where are high fuel accumulations? When considered at a coarse scale, which areas estimated to have high fuel accumulations represent the highest priorities for treatment?

**wildland fire mitigation and management commission: The Budget of the United States Government** United States. Office of Management and Budget, 2015

**wildland fire mitigation and management commission: Machine Learning** Kevin P. Murphy, 2012-08-24 A comprehensive introduction to machine learning that uses probabilistic models and inference as a unifying approach. Today's Web-enabled deluge of electronic data calls for automated methods of data analysis. Machine learning provides these, developing methods that can automatically detect patterns in data and then use the uncovered patterns to predict future data. This textbook offers a comprehensive and self-contained introduction to the field of machine learning, based on a unified, probabilistic approach. The coverage combines breadth and depth, offering necessary background material on such topics as probability, optimization, and linear algebra as well as discussion of recent developments in the field, including conditional random fields, L1 regularization, and deep learning. The book is written in an informal, accessible style, complete with pseudo-code for the most important algorithms. All topics are copiously illustrated with color images and worked examples drawn from such application domains as biology, text processing, computer vision, and robotics. Rather than providing a cookbook of different heuristic methods, the book stresses a principled model-based approach, often using the language of graphical models to specify models in a concise and intuitive way. Almost all the models described have been implemented in a MATLAB software package—PMTK (probabilistic modeling toolkit)—that is freely available online. The book is suitable for upper-level undergraduates with an introductory-level college math background and beginning graduate students.

**wildland fire mitigation and management commission: Budget of the United States Government** United States. Office of Management and Budget, 2002

**wildland fire mitigation and management commission: Unasylva** , 2007

**wildland fire mitigation and management commission: Climate Change Adaptation and Mitigation Management Options** James M. Vose, Kier D. Klepzig, 2013-12-05 Forest land managers face the challenges of preparing their forests for the impacts of climate change. However, climate change adds a new dimension to the task of developing and testing science-based management options to deal with the effects of stressors on forest ecosystems in the southern United States. The large spatial scale and complex interactions make traditional experimental approaches difficult. Yet, the current progression of climate change science offers new insights from



recent syntheses, models, and experiments, providing enough information to start planning now for a future that will likely include an increase in disturbances and rapid changes in forest conditions. *Climate Change Adaptation and Mitigation Management Options: A Guide for Natural Resource Managers in Southern Forest Ecosystems* provides a comprehensive analysis of forest management options to guide natural resource management in the face of future climate change. Topics include potential climate change impacts on wildfire, insects, diseases, and invasives, and how these in turn might affect the values of southern forests that include timber, fiber, and carbon; water quality and quantity; species and habitats; and recreation. The book also considers southern forest carbon sequestration, vulnerability to biological threats, and migration of native tree populations due to climate change. This book utilizes the most relevant science and brings together science experts and land managers from various disciplines and regions throughout the south to combine science, models, and on-the-ground experience to develop management options. Providing a link between current management actions and future management options that would anticipate a changing climate, the authors hope to ensure a broader range of options for managing southern forests and protecting their values in the future.

**wildland fire mitigation and management commission: Multi Hazard Identification and Risk Assessment** , 1997

**wildland fire mitigation and management commission: Wildfire Hazards, Risks, and Disasters** Douglas Paton, 2014-10-20 More than 90% of wildfires are caused by human activity, but other causes include lightning, 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.

**wildland fire mitigation and management commission: Canadian Wildland Fire Strategy** Canadian Wildland Fire Strategy Assistant Deputy Ministers Task Group, Canadian Council of Forest Ministers, 2005 Under the direction of the Canadian Council of Forest Ministers and in accordance with current jurisdictional mandates, the federal, provincial, and territorial governments have been co-operating on the establishment of the Canadian Wildlands Fire Strategy (CWFS). The CWFS will seek to balance the social, ecological, and economic aspects of wildland fire to deal with both the root causes and the symptoms of current and potential fire management issues. It is designed to facilitate the development and implementation of an innovative approach to wildland fire management in Canada that will foster resilient communities and an empowered public, develop healthy and productive forest ecosystems, and incorporate modern business practises. This report describes the current state of wildland fires and its management in Canada, a vision for a desired future state, and recommendations on how to initiate the necessary changes over the next ten years.

**wildland fire mitigation and management commission: Fire Management** Food and Agriculture Organization of the United Nations, 2007 Fire management is an essential part of sustainable forest management. This publication complements the Global Forest Resources Assessment 2005 (FRA 2005) as an in-depth thematic study on the incidence, impact and

management of forest fires in different regions of the world. It was developed from 12 regional papers prepared within the framework of the Global Wildland Fire Network of the United Nations International Strategy for Disaster Reduction. It provides the best estimate of the global fire situation to date and gives a good indication of the scale of the impact of vegetation fires on society, on the economy and on the environment. This global assessment will be of interest not only to fire specialists, but also to policy-makers, forest managers and those involved in collecting reliable and current information on fire in different types of vegetation. It is an important contribution to FAO's efforts to enhance international cooperation in fire management.

**wildland fire mitigation and management commission:** *Climate Change Adaptation and Mitigation Management Options* James M. Vose, Kier D. Klepzig, 2013-12-05 Forest land managers face the challenges of preparing their forests for the impacts of climate change. However, climate change adds a new dimension to the task of developing and testing science-based management options to deal with the effects of stressors on forest ecosystems in the southern United States. The large spatial scale and complex inter

**wildland fire mitigation and management commission:** *Florida* Stephen J. Pyne, 2016-03-31 In this important new collection of essays on the region, Stephen J. Pyne colorfully explores the ways the region has approached fire management. Florida has long resisted national models of fire suppression in favor of prescribed burning, for which it has ideal environmental conditions and a robust culture. Out of this heritage the fire community has created institutions to match. The Tallahassee region became the ignition point for the national fire revolution of the 1960s. Today, it remains the Silicon Valley of prescription burning. How and why this happened is the topic of a fire reconnaissance that begins in the panhandle and follows Floridian fire south to the Everglades.

**wildland fire mitigation and management commission:** *Canadian Wildland Fire Strategy* Peter L. Fuglem, Kelvin G. Hirsch, Canadian Council of Forest Ministers, 2006 In September 2004, the Canadian Council of Forest Ministers established a federal, provincial, and territorial task group of assistant deputy ministers (ADMs) and commissioned the development of the Canadian Wildland Fire Strategy (CWFS). The ADMs created an intergovernmental team of analysts, experienced fire managers, and researchers, known as the CWFS Core Team, to consult with Canadian and international experts, collate information, conduct analyses, and present the findings. This team was directed to assess the current state of wildland fire management in Canada, examine the key influences and trends, and identify possible desired future states and how they could be achieved. This publication comprises a collection of nine reports written by the CWFS Core Team members and their associates. Collectively these papers include syntheses, analyses, and perspective articles that address a variety of the social, economic, and biophysical aspects of wildland fire and its management as well as policy, science, and operational issues in Canada.--Pub. desc.

**wildland fire mitigation and management commission:** *Lincoln National Forest Plan* , 1986

**wildland fire mitigation and management commission:** *Feeling the heat: International perspectives on the prevention of wildfire ignition* Janet Stanley, Alan March, James Ogloff, Jason Thompson, 2020-09-01 In the context of climate change, world population growth and crashing ecological systems, wildfire is often a catastrophic and traumatic event. Its impact can include loss of life, life-changing injuries, long-term psychological stress; increases in domestic violence; destruction of properties, business and livestock; long-term housing insecurity; increased insurance premiums, fire-fighting, legal and health costs; as well as significant changes and species losses in the natural environment. In Australia, an average of 4,500 wildfires occur weekly. Yet how to prevent these wildfires, 85% of which are caused by human activities, has received extraordinarily little attention. The current approach to the prevention of arson can be summarised as small in scale, uncoordinated and rarely evaluated. 'Feeling the heat: International perspectives on the prevention of wildfire ignition' is the culmination of over a decade of research into wildfires and arson; taking an interdisciplinary approach to comprehensively understand the topic. This book reviews current international knowledge and presents new findings on political, spatial, psychological, socio-ecological and socio-economic risk factors. It argues that if we are to reverse

the increasing occurrence and severity of wildfires, all prevention approaches must be utilised, broadening from heavy reliance on environmental modification. Such prevention measures range from the critical importance of reducing greenhouse gases to addressing the psychological and socio-economic drivers of arson. In particular, it calls for a coordinated and collaborative approach across sectors, including place-based, state and country coordination, as well as an international body. It will hold appeal for researchers and students from a range of disciplines and interests, government planners and policymakers, emergency services, counsellors and NGOs, and those in agriculture and forestry.

**wildland fire mitigation and management commission: Managing Forest Ecosystems: The Challenge of Climate Change** Felipe Bravo, Valerie LeMay, Robert Jandl, Klaus Gadow, 2008-05-20 Climate changes, particularly warming trends, have been recorded around the globe. For many countries, these changes in climate have become evident through insect epidemics (e.g., Mountain Pine Beetle epidemic in Western Canada, bark beetle in secondary spruce forests in Central Europe), water shortages and intense forest fires in the Mediterranean countries (e.g., 2005 droughts in Spain), and unusual storm activities (e.g., the 2004 South-East Asia Tsunami). Climate changes are expected to impact vegetation as manifested by changes in vegetation extent, migration of species, tree species composition, growth rates, and mortality. The International Panel on Climate Change (IPCC) has included discussions on how forests may be impacted, and how they may be used to mitigate the impacts of changes in climate, to possibly slow the rate of change. This book provides current scientific information on the biological and economical impacts of climate changes in forest environments, as well as information on how forest management activities might mitigate these impacts, particularly through carbon sequestration. Case studies from a wide geographic range are presented. This information is beneficial to managers and researchers interested in climate change and impacts upon forest environments and economic activities. This volume, which forms part of Springer's book series Managing Forest Ecosystems, presents state-of-the-art research results, visions and theories, as well as specific methods for sustainable forest management in changing climatic conditions.

**wildland fire mitigation and management commission: Southern Forest Resource Assessment** David N. Wear, John George Greis, 2002 Forces of change; Social and economics systems; Forest area conditions; Terrestrial ecosystems; Water quality, wetlands, and aquatic ecosystems.

**wildland fire mitigation and management commission: United States Congressional Serial Set, Serial No. 14951, House Document No. 2, V. 2**, 2005-02 This title contains detailed information on the various appropriations and funds that constitute the budget and is designed primarily for the use of the Appropriations Committee. The Appendix contains more detailed financial information on individual programs and appropriation accounts than any of the other budget documents. It includes for each agency: the proposed text of appropriations language, budget schedules for each account, new legislative proposals, explanations of the work to be performed and the funds needed, and proposed general provisions applicable to the appropriations of entire agencies or group of agencies. Information is also provided on certain activities whose outlays are not part of the budget totals.

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