



New books, articles, and reports in your library this month

FIRE INCIDENTS – AUSTRALIAN



Fire Australia – Issue 4, 2021 is now online. Articles discuss the National Construction Code for building, our firefighters in Canada economic essentials for natural hazard management and the release of the AIDR Major Incidents Report.

Use this [AFAC link](#) to read the magazine online.

What Do the Australian Black Summer Fires Signify for the Global Fire Crisis? (Concept paper)

Fire, Vol 4, no 4 December 2021

The authors apply a pyrogeographic lens to the recent Australian fires to examine the range of causes, impacts and responses. Findings are that the extensive area burnt was due to extreme climatic circumstances, antecedent hazard reduction burns (prescribed burns with the aim of reducing fuel loads) were effective in reducing fire severity and house loss, but their effectiveness declined under extreme weather conditions.

Use this [MDPI link](#) to read the paper online.



Black Thursday : and other lost Australian bushfire stories (Book)

Collected by Fiannuala Morgan, 2021

A collection of stories printed in Australian newspapers in the nineteenth century that revolve around bushfires. Young drovers, faithful dogs, wedding guests fighting fires

and women saving farms, all written over 100 years ago to entertain readers have been re-discovered for this collection.

Contact the library to request a loan of the book.



Fires (DVD)

Umbrella Entertainment, 2021

As recently seen on ABC TV, this is a six-part serialised fictional series inspired by the stories of the people who survived the catastrophic fire season in Australia and continue to endure the aftermath.

Contact the library to request a loan of the DVD set.



Ablaze : the long, hot summer of 2019-20 : Canberra's Volunteer Rural Firefighters reflect on the 'Black Summer' bushfires (Book)

ACT Volunteer Brigades Association,

2021

EMERGENCY MANAGEMENT



Australian Journal of Emergency Management – January 2022 is now online.

This edition of the journal looks at the important issue of gender justice in disasters. As Professor Emerita Raewyn Connell writes, 'before an event,

someone's gender is likely to shape their vulnerability and exposure'.

Use this [AIDR link](#) to read the journal online.



Global Risks Report (Report) World Economic Forum, 2022

The Global Risks Report series tracks global risks perceptions among risk experts and world leaders in business, government, and civil society. It examines risks across five categories: economic, environmental, geopolitical, societal, and technological.

Use this [WEForum link](#) to read the report online.

EMERGENCY WARNINGS



Warning for wildfires: Trailblazing a safer future (Webinar : 1 hr 54 mins)

University College London, January

2022

Identifying vulnerabilities to wildfires, monitoring their risk, setting alerts and implementing responses is imperative. So how can we effectively implement these warning systems? Speakers include Australian researchers Dr Christine Eriksen and Ian Mannix, Director of Forewarned.

Use this [UCL Warning Research Centre YouTube link](#) to watch the webinar online.

There are two **BNHCRC Hazard Notes** published last month presenting findings from the research project, *Effective risk and warning communication during natural hazards*

This photo-journal coffee table book captures the experiences of Canberra's volunteer firefighters from the perspectives of the firefighters, working on the front lines of Australia's catastrophic eastern seaboard and inland fires during Black Summer. The book also recognises the contributions of other emergency first responder services and agencies.

Contact the library to request a loan of the book.

## FIRE INCIDENTS – INTERNATIONAL



### Confronting the Wildfire Crisis: A Strategy for Protecting Communities and Improving Resilience in America's Forests (US Strategy)

U.S. Department of Agriculture, January 2022

U.S.D.A. announced a 10-year plan to help western states control wildfires. The strategy centres around a need to increase fuels and forest health treatment, and highlights new research by Forest Services scientists identifying high risk "firesheds," or large tree-covered landscapes that could easily catch fire.

Use this [USDA link](#) to read the strategy and implementation plan online.



### Wildfire reinforcements (Journal article)

NFPA Journal, Spring 2022

With the US wildfire season now a year-round occurrence, the US federal

government has ramped up funding and manpower to combat the worsening crisis. In this article, the author asks if it will be enough?

Use this [NFPA link](#) to read the article online.

### Megafires in a Warming World: What Wildfire Risk Factors Led to California's Largest Recorded Wildfire (Journal article)

Fire, Vol 5, no 1 January 2022

Here, the fire spread model Prometheus is used to simulate the initial explosive growth of the 2020 August Complex, which occurred in northern California (CA) mixed conifer forests. High temperatures, low relative humidity, and daytime southerly winds were all highly correlated with extreme rates of modelled spread.

Use this [MDPI link](#) to read the article online.

### After a wildfire, how does a town rebuild? (News article)

Northern Arizona University, 26 Jan 2022

After the most destructive fire in California's history, while the residents of Paradise were sifting through the rubble of their houses and grieving the 86 people killed—Catrin Edgeley took her notebook and recorder to the destroyed town. She wanted to understand the ecology of the human response to the Camp Fire, studying how human communities adapt to wildfire and how they prepare and recover.

Use this [NAU link](#) to read the article online.



### Choosing powerful words that signal risk and encourage action (Hazard Note 110)

This Hazard Note reports on how words and phrases can be used to signal risk and trigger behavioural response during bushfire and flood emergencies.

Use this [BNHCRC link](#) to read the Hazard Note online.

### Creating effective Emergency Alerts (Hazard Note 111)

This Hazard Note examines the effectiveness of different Emergency Alert structures for bushfire and flood, which were co-designed with the Victoria State Emergency Service and Emergency Management Victoria.

Use this [BNHCRC link](#) to read the Hazard Note online.

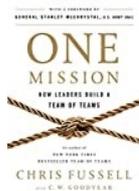
## LEADERSHIP AND MANAGEMENT

### Leaders in flames (Journal article)

Crisis Response Journal, December 2021

Burnout is not only about the front lines, says Eric J McNulty in this article that looks at how to be ready to lead when and how it matters most

Contact the library to request a copy of this article.



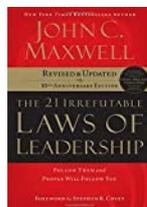
### One mission : how leaders build a team of teams (Book)

By Chris Fussell, 2017

In *Team of Teams*, General McChrystal and former Navy SEAL Chris Fussell made the case for a new organisational model

combining the agility, adaptability, and cohesion of a small team with the power and resources of a giant organisation. In *One Mission*, Fussell channels all his experiences, both military and corporate, into powerful strategies for unifying isolated and distrustful teams

Contact the library to request a loan of the book. The book [Team of Teams](#) is also available to borrow from the library.



### The 21 irrefutable laws of leadership : follow them and people will follow you (Book)

By John C. Maxwell, 2007

One of the best-selling leadership books of all time. Maxwell has combined insights learned from his thirty-plus years of

leadership successes and mistakes with observations from the worlds of business, politics, sports, religion, and military conflict. The result is a revealing study of leadership.

Contact the library to request a loan of the book.



### Champions of Change Coalition: 2021 impact report (Report)

Champions of Change Coalition, December 2021

The fourth annual impact report presents the actions taken from data contributions from

Contact the library to request a copy of the relevant article  
“Exploring the social legacy of frequent wildfires:  
Organizational responses for community recovery  
following the 2018 Camp Fire”



### [Paradise](#) (Book)

By Lizzie Johnson, 2021

On November 8, 2018, the people of Paradise, California, awoke to a mottled grey sky and gusty winds. Less than two hours after the fire ignited, the town was engulfed in flames, the residents trapped in their homes and cars. By the next morning, eighty-five people were dead. Johnson provides a minute-by-minute account of the Camp Fire, following residents and first responders.

Contact the library to request a loan of the book.

## FIREFIGHTING



### **Girls Fire and Resilience Program**

(Journal article)

AJEM, January 2022

The Girls Fire Camp program was first piloted in 2018 as a recommendation by AFAC to contribute to the long-term recruitment of women to the firefighting sector. The original program was modelled on successful North American girls fire camps and was delivered via a collaborative governance structure led by Fire and Rescue NSW (FRNSW) and included NSW Rural Fire Service (RFS) and the NSW State Emergency Service.

Use this [AIDR link](#) to read the article online.

### **Pyro-terrorism in forests** (Journal article)

Crisis Response Journal, December 2021

As the world focuses on the pandemic and cyber threats, and in light of the huge number of wildfires that engulfed parts of the world this summer, the dangers of pyro-terrorism should not be ignored.

Contact the library to request a copy of this article.

## FIRE BEHAVIOUR

### **Scientists find climate-driven tree mortality and fuel aridity increase wildfire fuel availability** (ScienceDaily news article)

University of New Mexico, 15 December 2021

New research conducted by scientists suggests climate-driven tree mortality and fuel aridity are increasing fuel availability in forests leading to record-breaking wildfires in size, spread and plume formation.

Use this [ScienceDaily link](#) to read the article online.

more than 180 Member organisations, including the NSW Rural Fire Service, operating in Australia and internationally and it is understood to be one of the largest cross sector voluntary public disclosures on gender equality measures globally.

Use this [COCC link](#) to read the report online.



### [A message to Garcia : and other essential writings on success](#) (Book)

By Elbert Hubbard, 2013

Elbert Hubbard was a philosophical businessman. In 1895 he founded the Roycrofters, a community of artisans selling handcrafted goods. A prolific author, he was a favourite of Henry Ford, Theodore Roosevelt, and other great leaders of his time. This book is Hubbard's most famous work. In it, he argues that the greatest hero is the man who simply does his job, completing the task no matter what the obstacles. Contact the library to request a loan of the book.

### **The Swiss Army knife of leadership** (Journal article)

Crisis Response Journal, December 2021

Andy Blackwell & Nina Smith share their experiences of mentoring, recounting how it can contribute to the development of security and resilience leaders

Contact the library to request a copy of this article.

### **Falling Apart and Coming Together: How Public Perceptions of Leadership Change in Response to Natural Disasters vs. Health Crises** (Journal article)

Sustainability, Vol 14, no 2, 2022

Responding to disruptions and crises are challenges public leaders face. The last two years have been especially challenging for public leaders and institutions. In Australia, the federal government battled natural disasters (bushfires) and COVID-19 within the span of only a few months, the authors discuss the implications of differential media coverage, how the crises were managed, and the resulting public perceptions of leadership for the greater good.

Use this [MDPI link](#) to read the article online.



**THE NFPA  
PODCAST**

### **Earned wisdom – 2 parts** (Podcast)

NFPA, December, 2021

Published last month, this podcast interviews two retiring leaders in the US Fire Service, Russ Sanders and Gregory Cade. Over two parts, they discuss their thoughts on leadership, the challenges and opportunities for the next generation of leaders and the plight of the US volunteer fire service.

Use this [NFPA link](#) to listen to the podcasts online.

## COMMUNITY ENGAGEMENT

### **Initial growth of fires in eucalypt litter, from ignition to steady-state rate of spread: laboratory studies** (*Journal article*)

*International Journal of Wildland Fire, online 16 Dec 2021*

Models of initial growth for fires in eucalypt forest litter were developed from observations in a combustion wind tunnel. Time to reach steady-state spread rate depended on wind speed and fuel moisture content. Results align with theoretical fire growth models but highlight the need to extend the results to field observation.

Contact the library to request a copy of the article

## **FIRE MANAGEMENT**

### **Fire management in Australia has reached a crossroads and 'business as usual' won't cut it** (*News article*)

*The Conversation, 14 January 2022*

Fire management in Australia has reached a crossroads, and "business as usual" won't cut it. In this era of mega-fires, diverse strategies are urgently needed so we can safely live with fire.

Use [The Conversation link](#) to read the article online.

### **The sum of small parts: changing landscape fire regimes across multiple small landholdings in north-western Australia with collaborative fire management** (*Journal article*)

*International Journal of Wildland Fire, online 16 Dec 2021*

On the Dampier Peninsula, north-west Australia, Indigenous rangers, pastoralists and other stakeholders have collaborated to manage fire since 2016. The project has successfully changed fire regimes in ways that support biodiversity, cultural and economic values, showing the benefits of cross-tenure approaches to landscape-scale problems.

Contact the library to request a copy of the article

## **CULTURAL BURNING**

### **Indigenous rangers assess cultural damage** (*News article*)

*ABC News, 10 January 2022*

Aboriginal rangers assess cultural sites in wake of bushfires Yorta ranger Ralph Hume is working to promote cultural burning — the regular, controlled burning of vegetation — which can significantly reduce bushfire risk.

In the next three years, 35 traditional burns are scheduled across Yorta country.

Use this [ABC link](#) to read the article online

## **AVIATION AND UAVS**

### **"Us versus Them;" Local Social Fragmentation and Its Potential Effects on Building Pathways to Adapting to Wildfire** (*Journal article*)

*Fire, Vol 4, no 4 December 2021*

The case study research presented in this article evaluates social characteristics present in a WUI community that faces extreme wildfire risk to both people and property. It explores social processes that impede the ability of community members to work together collectively to solve problems (e.g., wildfire risk) and offers an alternative perspective about the nature of residency status (i.e., full-time and non-full-time) and its role in influencing wildfire mitigation efforts.

Use this [MDPI link](#) to read the article online.

## **COMMUNITY RESILIENCE**



### **[Wildfire and Community : Facilitating Preparedness and Resilience](#)** (*eBook*)

*Edited by Douglas Paton, 2012*

Now available as an eBook as well as hardcopy. This book examines why the goal of ensuring sustained levels of protective measures in communities

susceptible to wildfire hazard consequences has proved to be elusive. The findings of research programs being conducted in the United States, Australia, Europe, India and South America are presented.

Contact the library for eBook access. A hard copy is also available to borrow from the library.

## **HEALTH & FITNESS**

### **Nutrition 101 : How to maintain a well-rounded diet** (*Magazine article*)

*Fire Engineering, December 2021*

Fats, carbohydrates, and protein all play important roles in the body. The simple truth is the body needs all three of these macronutrients. As firefighters, we must be well rounded in all ways. This means eating balanced overall to supplement our ability to be fit.

Use this [Fire Engineering link](#) to read the article online.



Books in our *Health and Fitness* collection can be found listed [here](#). Plus *Men's Health* and *Women's Health* are found online in our eMagazine collection [here](#)

## **MENTAL HEALTH**

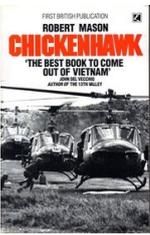
**What can we do when the smoke rolls in? An exploratory qualitative analysis of the impacts of**



### **Air Attack – Issue 19 is online.**

This issue looks at Russia's firefighting reserve, FENZ's 2021 air attack supervisor training and part 2 on a series of how to pick a helicopter.

Use this [KiaKaha Media link](#) to read Air Attack online.



### **Chickenhawk (Book)**

By Robert Mason, 1983

Robert Mason tells a gripping account of the relentless courage and heroism amidst the insanity of the Vietnam war. Between August 1965 and July 1966, he flew more than 1,000 assault missions. Chickenhawk is described as containing the most vivid, astoundingly intense descriptions of flying ever written.

Contact the library to request a loan of the book.

## **PROFESSIONAL SAFETY**

### **Enhancing fire service incident investigation – Translating findings into improved outcomes using PIAM (Journal article)**

*Safety Science, Vol 145, January 2022*

Since 1927 more than 242 formal inquiries and reviews into Australian natural disasters, and 62 international post-incident investigations following firefighter fatalities or injuries during wildfire entrapment and burnover have been completed. The PESTLE Incident Analysis Model (PIAM) is designed to enhance analysis of adverse incidents, and to assist emergency services both communicate and implement recommendations from post-incident investigations and analysis.

Use this [ScienceDirect link](#) to read the article online.

### **Why Do We Still Not Know How to Prevent Firefighter Entrapments?—Thoughts and Observations from a Few Perplexed Fire Practitioners (Journal article)**

*Fire, Vol 5, no 1 January 2022*

Entrapment continues to be a significant cause of wildland firefighter deaths. We review a selection of entrapment reports courtesy of the Wildland Fire Lessons Learned Centre and focus on human factors involved in entrapment rather than the specifics of fire behaviour and the environment. We found that in order for operational supervisors to make more informed strategic and tactical decisions, a more holistic and complete trend analysis is necessary of the existing database of entrapment incidents.

Use this [MDPI link](#) to read the article online.

### **Effectiveness of Safety Interventions in Fire Engines to Reduce Potential Airborne Transmission of SARS-CoV-2 (Journal article)**

*Fire, Vol 4, no 4 December 2021*

Physical distancing and wearing a face mask are key interventions to prevent COVID-19. While this remains

### **rural wildfire smoke on mental health and wellbeing, and opportunities for adaptation. (Journal article)**

*BMC Public Health, January 2022*

Extreme, prolonged wildfire smoke (WFS) events are becoming increasingly frequent phenomena across the Western United States. Rural communities, dependent on contributions of nature to people's quality of life, are particularly hard hit. While prior research has explored the physical health impacts of WFS exposure, little work has been done to assess WFS impacts on mental health and wellbeing, or potential adaptation solutions

Contact the library to request a copy of the article

Books in our *Mental Health and You* collection can be found listed [here](#)

## **WILDFIRE SMOKE**

### **Response to wildfires: guidelines for public health units (NZ Report)**

*NZ Ministry of Health 2021*

Wildfires produce large amounts of smoke that disperses widely and can affect populations far from the source of the fire. These NZ guidelines describe air quality categories, provide information on how to minimise smoke exposure, and identifies other hazardous associated with wildfires.

Use this [NZ Ministry of Health link](#) to read the report online.

## **LEARNING AND DEVELOPMENT**



### **Using Virtual Reality to Train Firefighters (US Webinar: 6 mins)**

*NPFA, January 2022*

Virtual reality and augmented reality

aren't just for video games. Experts say the fire service could be next in line to adopt the technologies, collectively known as immersive learning, for training. So what are the benefits of using VR to train firefighters?

Use this [NFPA YouTube link](#) to watch the video online.

Read the related NFPA Journal article, Full immersion, from the Spring 2022 issue online [here](#)

## **VOLUNTEER MANAGEMENT**

### **Supporting new volunteers: a resource kit for emergency service volunteer leaders (Report)**

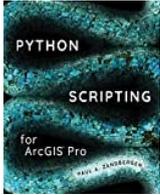
*Bushfire and Natural Hazards CRC, January 2022*

The 2019-20 Australian bushfires ('Black Summer') caused a spike in volunteer inquiries. The aftermath of the 2019-20 bushfires left volunteer leaders and managers with little guidance as to how they can properly onboard, support, lead, and manage the

difficult to practice for millions of firefighters in fire engines responding to emergencies, the delayed forthcoming of evidence on the effectiveness of such safety interventions in this setting presents a major problem. We examined total aerosol burden in the cabin of a fire engine whilst manipulating crew size, use of FFP2 respirators and use of SCBA full-face masks during 15-min driving periods

Use this [MDPI link](#) to read the article online.

## REMOTE SENSING

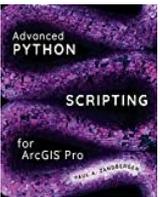


### [Python scripting for ArcGIS pro](#) (Book)

By Paul Zandbergen, 2020

The definitive, easy-to-follow guide to writing Python code with spatial data in ArcGIS Pro, whether you're new to programming or not. This book starts with the basics, then covers how to write scripts that work with spatial data in ArcGIS Pro. Lastly, you will learn how to create a tool out of your script and how to share your tool with others.

Contact the library to request a loan of the book.



### [Advanced](#)

### [Python scripting for ArcGIS pro](#) (Book)

By Paul Zandbergen, 2020

Want more python scripting!!! In this book Learn how to create a geoprocessing tool out of your script and automate tasks in

ArcGIS Pro, how to share your tools with others, as well as master a number of more specialised tasks

Contact the library to request a loan of the book.

### **Remote Sensing Mapping of Peat-Fire-Burnt Areas: Identification among Other Wildfires** (Journal article)

*Remote Sensing*, January 2022

Peat fires differ from other wildfires in their duration, carbon losses, emissions of greenhouse gases and highly hazardous products of combustion and other environmental impacts. Moreover, it is difficult to identify peat fires using ground-based methods and to distinguish peat fires from forest fires and other wildfires by remote sensing. This study uses the example of catastrophic fires in July–August 2010 in the Moscow region.

Contact the library to request a copy of the article

## ECOLOGY

### **Surprisingly few animals die in wildfires – and that means we can help more in the aftermath** (News article)

*The Conversation*, 7 January 2022

The estimate that one billion animals were killed by Australia's 2019-20 Black Summer fires drew international attention to the fate of wildlife. New research suggests that, on average, the vast majority of animals (more than

sudden influx of new volunteers and ensure that they are prepared for future bushfire seasons.

There are three modules available within the resource kit

Use this [BNHCRC link](#) to read the report online.

## CATERING



### **AWWW Cooking**

A small name-change...the NSW RFS library subscribes to this Australian Women's Weekly magazine in our online eMagazine collection for all our members to access – whether it is for ideas when catering for a brigade or

packing school lunches. AWWW Food is now called AWWW Cooking!

Both archived and the latest issue can be found in our eMagazine collection [here](#)

## GENERAL



### [A fortunate life](#) (Book)

A.B. Facey, 1981

Re-read the Australian classic recounting the extraordinary life of an ordinary man. It is the story of Albert Facey, a parentless boy who began work at eight, struggled as a rural worker, survived Gallipoli, the loss of his farm in the Depression, the death of his son in WWII and that of his wife after sixty years - yet felt that his life was fortunate.

Contact the library to request a loan of the book.

## CHILDREN'S BUSH FIRE COLLECTION



### [Looking after country with fire : Aboriginal burning knowledge with Uncle Kuu](#) (Book)

By Victor Steffensen, 2022

For thousands of years, Aboriginal people have managed the land by burning Country. The trees and grass tell us the right places to burn, and they also tell us when it's the best time to burn. Join Uncle Kuu as he shows us how to listen to the land so that we can look after the plants and animals, and learn how to live with fire. For ages 5-10

Contact the library to request a loan of the book. Victor Steffensen's book, [Fire country : how indigenous fire management could help save Australia](#), is also available in the library for loan.

90%) actually survive the immediate passage of a typical fire. But there are precious few studies of animal survival through catastrophic fires, such as those observed during Australia's Black Summer.

Use [The Conversation link](#) to read the article online.

**Emergency conservation interventions during times of crisis: A case study for a threatened bird species in the Australian Black Summer bushfires** (*Journal article*)  
*Conservation Science and Practice, Vol. 4, No 2, Feb 2022*  
We detail the emergency extraction of the endangered Eastern Bristlebird during the unprecedented 2019–2020 Australian Black Summer bushfires. The intervention was triggered, coordinated, and implemented within a 4-week period, with re-release to the wild within 2 months.  
*Contact the library to request a copy of this article.*

## CLIMATE CHANGE



**Crunch time: how climate action in the 2020s will define Australia** (*Report*)  
*Climate Council, 14 Dec 2021*

This report unpacks the key takeaways for Australia from the COP26 climate conference in Glasgow, in particular the urgent need for Australia to catch up with the rest of the world.

Use this [Climate Council link](#) to read the report online.

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These are available to NSW RFS Staff at work.

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### Your Librarian

Katie Vandine  
Phone: 02 8741 5455  
Email: [rfs.library@rfs.nsw.gov.au](mailto:rfs.library@rfs.nsw.gov.au)

### Visitors Welcome!

Our members are always welcome to visit the library – just email/call in advance to check opening hours and the COVID-19 restrictions.



### [Combat Wombat to the rescue](#) (Book)

By Gina Newton, 2020

A new addition to our collection, this book for preschool children look at how using courage, determination and sheer wombat power, Combat Wombat leads his bush buddies to safety in a race to escape a raging bushfire.

*Contact the library to request a loan of the book.*

Books in our children's bush fire collection can be found listed [here](#)

## AUDIOBOOKS – NEW ADDITIONS!



Jill Ker Conway's Australian classic, *The road from Coorain*, and Malcolm Gladwell's *Talking to Strangers* about how misreading strangers can have disastrous consequences, have been added to our [audiobook collection](#) this month.

To download and listen to an audiobook, please use these [simple instructions](#) or contact your library