



New books, articles and reports in your library this month



Our history....SITREP was the official journal of both the SES and the Bush Fire Council in the late 1970s, replacing our Bush Fire Bulletin for three years. It has been digitised in the National Library of Australia and can be browsed here

This article from the Autumn 1978 issue of SITREP, introduces readers to Scottish born "Jock" Hardie of the Terrey Hills Brigade and his provision of a "first-grade" catering service for the bush firefighters in the Warringah Shire.

Read the whole article online here

FIRE INCIDENTS – AUSTRALIAN

EMERGENCY MANAGEMENT



Fire Australia – Issue 1, 2021 is online This magazine, co-published by BNHCRC, AFAC and FPA includes news and feature articles on fire protection, natural hazard research and the fire and emergency service sector.

Use this BNHCRC link to read the magazine online.



Addressing public inquiry recommendations - Emergency response agencies (Report)

Auditor-General for New South Wales, April 2021

This report examines how effectively NSW emergency response agencies address

public inquiry recommendations. The five emergency response agencies examined are Fire and Rescue NSW, National Parks and Wildlife Service, NSW Rural Fire Service, NSW State Emergency Service and Resilience NSW. The audit found that agencies' governance arrangements to address public inquiry recommendations have important and consistent gaps.

Use this Audit NSW link to read the report online.

Learning to learn from bushfire: Perspectives from Victorian emergency management practitioners (Journal article)

Australian Journal of Public Administration, April 2021

The Black Summer Fires of 2019/2020 remind us not only that Australia is arguably the most bushfire prone area in the world but also that we have much to learn in terms



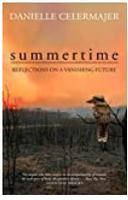
Flames of extinction : the race to save Australia's threatened wildlife (Book)

John Pickrell, 2021

Award-winning science writer John Pickrell investigates the effects of the 2019-2020 bushfires on Australian wildlife and

ecosystems exploring the stories of creatures that escaped the flames and those that rescued them.

Please contact the library to request a loan of this book



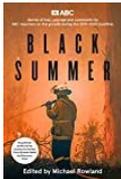
[Summertime : reflections on a vanishing future \(Book\)](#)

By Danielle Celermajer, 2021

The story of Jimmy the pig caught the world's attention during the Black Summer of 2019-20.

Gathered here is that story and others written in the shadow of the bushfires that ravaged Australia.

Please contact the library to request a loan of this book



[Black Summer : stories of loss, courage and community from the 2019-2020 bushfires \(Book\)](#)

Edited by Michael Rowland, 2021

In case you missed it earlier...Told by ABC journalists who were on the ground and

broadcasting during our worst ever fire season, spearheaded by Michael Rowland This book contains updates, new stories and overviews by them, as well as reflections on how such a catastrophe occurred and what we have learnt from it.

Please contact the library to request a loan of this book

A staggering 1.8 million hectares burned in 'high-severity' fires during Australia's Black Summer

(News article)

The Conversation, 30 March 2021

Research by the authors, including Ross Bradstock and Hamish Clarke, looks at whether bushfires are becoming more "severe" (an indicator of how intensely the vegetation burned) as a result of climate change and why the Black Summer bushfires were exceptional.

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

Measuring a Fire. The Story of the January 2019 Fire Told from Measurements at the Warra Supersite, Tasmania

(Journal article)

Fire - Special Issue "Bushfire in Tasmania", online early

Non-stand-replacing wildfires are the most common natural disturbance in the tall eucalypt forests of Tasmania, yet little is known about the conditions under which these fires burn and the effects they have on the forest. A dry lightning storm in January 2019 initiated the Riveaux Road fire. This fire burnt nearly 64,000 ha of land.

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

To read the special Bushfire in Tasmania issue online, use this [link](#).



Australian Bushfire Report : January – December 2020 (Report)

Australian Red Cross, March 2021

The report provides a full insight into how donations have been used, including independent reviews from the charity regulator and the Natural Disasters Royal

Commission.

of how we learn from such events. Bushfires interact with emergency management systems in a manner that is complex and unpredictable which all too often results in damages and losses, so significant that governments establish public inquiries to forensically examine what happened and why afterwards.

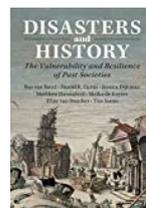
Please contact the library to request a copy of this article.

Why should I use a multi-hazard app? Assessing the public's information needs and app feature preferences in a participatory process (Journal article)

International Journal of Disaster Risk Reduction, April 2021

In the age of nearly instant information and high-bandwidth communication, public expectations regarding the availability of authoritative short-term and real-time hazard information are evolving rapidly. Several studies have identified that people prefer an app combining relevant hazards instead of single hazard apps.

Please contact the library to request a copy of this article.



[Disasters and history : the vulnerability and resilience of past societies \(Book\)](#)

Cambridge University Press, 2020

Drawing on a range of case studies, including the Black Death, the Lisbon earthquake of 1755 and the Fukushima

disaster, the authors examine how societies dealt with shocks and hazards and their outcomes. They reveal the ways in which the consequences and outcomes of these disasters varied widely not only between societies but also within the same societies according to social groups, ethnicity and gender.

Please contact the library to request a loan of this book



Australian Journal of Emergency Management – April 2021 issue is out and available online.

Read a selection of articles about lessons learnt and bushfire incidents, psychological recovery of young adults in disasters, and community floor

preparedness.

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

LEADERSHIP AND MANAGEMENT



Interested in receiving an email alert for the latest issue of the **Harvard Business Review**. Described as the world's most influential management magazine, this month's May/June issue is out and looks at the new reality of work.

Contact the library to be added to the new issue email alert for the HBR

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

FIRE INCIDENTS – INTERNATIONAL



Wildfire Magazine – Jan-March 2021 issue is online.

Articles include evaluating the 10% Wind Speed Rule of Thumb for Estimating a Wildfire's Forward Spread Rate, the Californian fires, resilient health systems and climate extremes, kookaburras and fire

and UK Firefighters.

Use this [IAWF link](#) to read the issue online.

Adapting to the Era of Megafires (Webcast)

World Forestry Center, April 2021

Wildfire ravaged much of the western United States in 2020. This five part series has community leaders discuss the full impacts of megafires on Oregon; discuss real solutions shaped by decades of experience across the globe; and address barriers to achieving these solutions.

Use this [World Forestry link](#) to watch the episodes online.



Wildland Fire Lessons Learned Center 2020 Incident Review (Report)

This Incident Review Summary focuses on the 118 operational reports submitted to and gathered by the US Wildland Fire LLC in 2020.

The authors have examined these reports, compiled a few numbers and extracted specific lessons. It includes the a C-130 Large Airtanker crash in Australia.

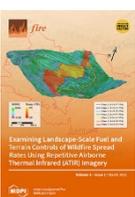
Use this [Wildland Fire LLC link](#) to read the short report online.

California's wildfire season has lengthened, and its peak is now earlier in the year (ScienceDaily news article)

University of California, April 2021

Researchers have analysed CALFIRE wildfire statistics from 2000 to 2019, comparing them with data from 1920 to 1999, to learn that the annual burn season has lengthened in the past two decades and that the yearly peak has shifted from August to July.

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



Fire Journal – March 2021 issue is out and available online. Read a selection of articles on the science, policy, and technology of vegetation fires and how they interact with communities and the environment right across the globe.

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

Once-in-a-century UK wildfire threats could happen most years by end of century (ScienceDaily news article)



[HBR's 10 Must Reads on Change Management \(Book\)](#)

Harvard Business Review Press, 2021

70% of all change initiatives fail. But the odds turn in your company's favour once you

understand that change is a multi-stage process--not an event--and that persuasion is key to establishing a sense of urgency, winning support, and silencing naysayers. This book is a selection from hundreds of HBR articles on change management.

Please contact the library to request a loan of this book.

The library also holds in the collection HRB 10 Must Reads on Design Thinking, Managing People, Strategy, and Leadership.



[Respect trumps harmony : why being liked is overrated and constructive conflict gets results \(Book\)](#)

Rachael Robertson, 2020

In recent years there has been a huge push towards passion and purpose at work. There is a notion that when you love what you do at work, your colleagues become like family. But sometimes, work is just work, it's hard to get passionate about it. This book is the antidote to the love your colleagues movement - because you don't have to love your colleagues, you don't have to even like them. But you must always treat them with respect

Please contact the library to request a loan of this book or Rachael Robertson's other book [Leading on the Edge](#).

Proactive resilience for innovative leadership (Journal article)

Crisis Response, March 2021

The concept of resilience is widely used in crisis research to explore the capacities that citizens and organisations have nurtured in order to be stronger, stay alive and rebound after shocks. But these efforts must be developed further in the light of the mega-shocks that are increasingly threatening our societies,

Please contact the library to request a copy of this article

TRAINING AND PROFESSIONAL DEVELOPMENT

What the best fire instructors do (Magazine article)

Fire Engineering, April 2021

The author lists guidelines including knowing your subject, being experienced, being humble, being passionate, relating to students plus more and then writes on using these guidelines in action and after the class.

Please contact the library to request a copy of this article

University of Reading, March 2021

Researchers looked at current frequency of weather conditions in the UK that present 'very high' or 'exceptional' fire danger, and found these conditions could occur hundreds of times more often in some regions by the 2050s and 2080s as temperatures rise and summer rainfall decreases.

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



Land-based wildfire prevention: Principles and experiences on managing landscapes, forests and woodlands for safety and resilience in Europe (Booklet)

European Commission, March 2021

This booklet is an example of how exchanges of information and good practices at European and international level can facilitate a better understanding of land-based wildfire prevention and facilitate effective responses.

Use this [EC link](#) to read the booklet online.



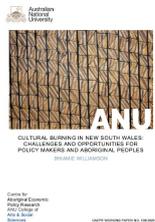
Colorado Wildfires 2020 Webinar Series (Webinar)

Presented by the Warner College of Natural Resources at Colorado State

University, The Southern Rockies Fire Science Network and the Forest Stewards Guild, this is an ongoing webinar series with a varied host of experts talking on topics that cover wildfire history, policy, fire ecology and behaviour, climate change, and long-term outlooks.

The videos are posted weekly, use this [YouTube link](#) to watch them online.

CULTURAL BURNING



Cultural burning in New South Wales: challenges and opportunities for policy makers and Aboriginal peoples (Working paper)

Centre for Aboriginal Economic Policy Research (ANU), March 2021

Drawing on the history of Caring for Country in northern and central Australia, and current developments to support Aboriginal people in southern temperate Australia, this paper maps the challenges and opportunities to support cultural land management programs in New South Wales.

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

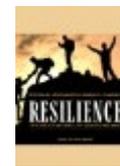
FIRE BEHAVIOUR

MENTAL HEALTH & INCIDENT STRESS

Mental health and wellbeing of Australian police and emergency services employees (Journal article)

Archives of Environmental & Occupational Health, March 2021

Answering the Call, the Australian National Police and Emergency Services Mental Health and Wellbeing Study, surveyed 14,868 Australian ambulance, fire and rescue, police, and state emergency service employees. Emergency services personnel had lower rates of mental wellbeing and higher rates of psychological distress and probable PTSD than the general adult population. Please contact the library to request a copy of this article.



Resilience : the science of mastering life's greatest challenges (Audiobook)

Stephen Southwick, 2020

Most of us at some point in our lives will be struck by major traumas. Resilience refers to the ability to "bounce back" after encountering difficulty. This book provides a guide to building emotional, mental, and physical resilience by presenting ten factors to help anyone become more resilient to life's challenges. Please contact the library for instructions on how to borrow an AudioBook from the [audiobook collection](#).

The role of emotions in ethics according to six big thinkers (Article)

The Ethics Centre, April 2021

It's not easy to provide a clear definition of emotions. Philosophers and psychologists still haven't agreed on what they are or whether they're ethically important. Why do emotions matter? Are we in control of our emotions? Should we prioritise our reason over our emotion?

Use this [Ethics Centre link](#) to read the short article online.



Interested in receiving a monthly email alert for the latest issue of **Psychology Today** magazine.

This magazine presents scientifically accurate psychological information for the layperson. Examples of articles include discussions on why are so many people drawn to conspiracy theories in times of crisis, polishing your personality or insights on handling a fake apology. Contact the library to be added to the bimonthly new issue email alert for Psychology Today.

Books on this topic are found in our library's [Mental Health and You collection](#)

NATURAL ENVIRONMENT



[Fire : a very short introduction](#) (Audiobook)
Andrew Scott, 2020

This audiobook covers the fundamentals of fire, whether wild or under human control, starting with the basics of ignition, combustion, and fuel. Andrew Scott considers both natural wildfires and the role of humans in making and suppressing fire. Please contact the library for instructions on how to borrow an AudioBook from the [audiobook collection](#).

FIREFIGHTING

Technology innovation in firefighting hotwashes (Journal article)

Crisis Response, March 2021

Effective firefighting debriefs – or hotwashes – share techniques, highlight best practices and discuss challenges. CRJ Key Network Partner, Pix4D, explores how photogrammetry can improve and enhance the debriefing process

Please contact the library to request a copy of this article.

'Magical' fire suppressant kills zombie fires 40% faster than water alone (ScienceDaily news article)

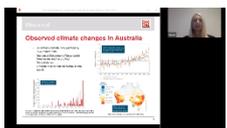
Imperial College, London, March 2021

New research shows a fire suppressant, when combined with water, cuts the amount of time and water needed to extinguish peat fires by 40%.

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

Please contact the library to request a copy of the IJWF article "Laboratory study on the suppression of smouldering peat wildfires: effects of flow rate and wetting agent" that the article refers to.

FIRE WEATHER



Climate Change and Fire: Focus on south eastern Australia (Webinar)
Pau Costa Foundation, February 2021

Fire weather in Victoria has changed over recent decades and these changes are projected to continue. Dr. Sarah Harris (Manager Research & Development-CFA) gives an outline of the fire agency driven research and development into observed and projected fire weather. Harris explores the implication of these changes for wildfire management.

Use this [Pau Costa Foundation YouTube link](#) to watch the webinar online.

Pyrocumulonimbus Firepower Threshold: Assessing the Atmospheric Potential for pyroCb (Journal article)



Australian Geographic is back in our eMagazine collection. Read the magazine that covers beautifully in both words and photos our Australian nature, culture, people & places.

Contact the library for the password embedded link to access our eMagazines.

LAND USE AND MANAGEMENT



[Safer gardens : plant flammability & planning for fire](#) (Book)

Lesley Corbett, 2021

For people living in fire prone areas there are no reliable guides about which plants have low flammability and which are frighteningly flammable. 'Safer Gardens' is that guide, with over 500 plants assessed, based on fire research from around the world. Readers can look up a plant in the Plant Flammability Table to get an idea of its flammability then turn to the A_Z for more detailed information.

Please contact the library to request a loan of this book.

The Impact of Bushfire Smoke on Cattle—A Review. (Journal article)

Animals, March 2021

In 2019–2020, Australia had a particularly bad bushfire season which resulted in large numbers of people and animals being exposed to smoke haze for several weeks. We conducted a literature review to examine the evidence for effects of prolonged exposure to bushfire smoke on cattle.

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

Towards an early smoke detection network (Magazine article)

Australian & New Zealand Grapegrower & Winemaker, April 2021

The early smoke detection network would generate a site-specific risk assessment by using real time data sourced from an accredited smoke sensor positioned in the vineyard as well as data from the substantial database of research the team has created over the years.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

METEOROLOGY AND CLIMATE CHANGE



[Angry weather : heat waves, floods, storms, and the new science of climate change](#) (Book)

By Friederike Otto, 2020

Anchoring her book with the gripping story of Hurricane Harvey, which caused over a

Weather & Forecasting. April 2021

Many forecasters modify conventional thunderstorm diagnostics to predict pyroCb potential, by adding temperature ($\Delta\theta$) and moisture increments (Δq) to represent smoke plume thermodynamics near the expected plume condensation level. However, estimating these $\Delta\theta$ and Δq increments is a highly subjective process. In this paper, instead of trying to anticipate these $\Delta\theta$ and Δq increments for a particular fire, the minimum firepower required to generate pyroCb for a given atmospheric environment is considered.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.

FIRE MANAGEMENT

Australia's first satellite that can help detect bushfires within one minute of ignition set for launch *(News article)*

ABC Science, 14 March 2021

A Queensland-based company, Fireball, announced the first purpose-built satellite for fire detection in Australia. Scheduled for launch a year from now, the satellite is the first of a planned constellation of 24 that will monitor Australia from low Earth orbit. Once the full system, including ground-based cameras and aerial drones, is up and running, Fireball says it will be able to spot any fires within one minute of ignition.

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

FIRE EVACUATION

Preparing for wildfire evacuation and alternatives: Exploring influences on residents' intended evacuation behaviors and mitigations *(Journal article)*

International Journal of Disaster Risk Reduction, May 2021

Growing evidence suggests that local populations consider a range of potential evacuation behaviours during fire events, yet fewer efforts explore rural residents' evacuation intentions or their relationship to wildfire mitigations that reduce risk or aid in fire suppression.

Please contact the library to request a copy of this article.

FIRE INVESTIGATION



Fire & Arson Investigator Journal - Spring 2021

This issue looks at the comparison of heat impinging conductors, and an Australian factory fire.

Contact the library if you would like to added to the table of contents email alert for new issues.

hundred deaths and \$125 billion in damage in 2017, Otto reveals how attribution science works in real time, and determines that Harvey's terrifying floods were three times more likely to occur due to human-induced climate change. This new ability to determine climate change's role in extreme weather events has the potential to dramatically transform society.

Please contact the library to request a loan of this book



The risks to Australia of a 3°C warmer world *(Report)*

Australian Academy Of Science, March 2021

This report synthesises the observed impacts of climate change on Australia and the risk to our future of the current global trajectory of greenhouse gas emissions. It focuses on the consequences of 3°C of global warming in the absence of greater mitigation strategies for four areas of importance to Australia's future: our ecosystems, food production, cities and towns, and health and wellbeing.

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

COMMUNITY RESILIENCE



10 years beyond bushfires report *(Report)*

University of Melbourne, March 2021

This report presents an overview of the key learnings in the 10 years since the bushfires 2009 Victorian bushfires. It shows individual and community capacity to recover from a disaster experience and subsequent disruptions, and to adapt to changed lives and environments

Use this [University of Melbourne link](#) to read the report online.

When Safety Is Shattered: Why losing a home is uniquely painful--and how we can all better appreciate the space we inhabit. *(Magazine article)*

Psychology Today, Vol 54, no 1, 2021

The article discusses the negative impact of losing a home and some important issues to consider to better appreciate the space being inhabited.

Contact the library to request a copy of the article or use this [EBSCO link](#) to read the article online.



After the disaster: Recovery for Australia's children *(Report)*

UNICEF Australia & Royal Far West, March 2021

The report finds that children and young people are particularly susceptible to the impacts of natural disasters like bushfires, and governments, non-government agencies and philanthropic

Fire created from water – a natural fire cause (*Journal article*)

Fire & Arson Investigator Journal - Spring 2021

When a fire caused over \$30mil damage and destroyed two factories, fire investigators from the private and public sectors teamed up to conduct some experiments into how pallets of stored air conditioning 'Y' splitters could suddenly ignite.

Please contact the library to request a copy of this article.

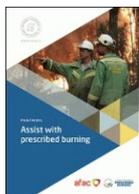
HAZARD REDUCTION AND PRESCRIBED BURNING

Optimisation of fuel reduction burning regimes for fuel reduction, carbon, water and vegetation outcomes – final project report (*Report*)

BNHCRC, March 2021

Fire managers often have multiple objectives for a given prescribed burn centred around risk reduction and conservation of biodiversity. The body of research detailed in this Synthesis Report represents a concerted effort to understand the effect of prescribed burning on water quantity and carbon losses and gains in forested ecosystems in south-eastern Australia

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



PUA Prescribed Burning (*Learner Resources*) *AFAC, 2021*

AFAC has recently updated its latest editions of three PUA Prescribed Burning Learner Resources to support agencies in training their personnel to safely and effectively plan

and conduct simple and complex prescribed burns in a range of environments. Each resource provides sufficient depth of detail to support the training of personnel in the conduct of a prescribed burn at its respective level, whether as a team member participating in the preparation and conduct of a burn, or as a burn manager.

[PUAFIR201 Assist with Prescribed Burning](#)

[PUAFIR402/406 Develop Simple Prescribed Burn Plans and Conduct Simple Prescribed Burns](#)

Please contact the library to borrow a copy of the learner resources.

AVIATION

organisations need to urgently invest in research, policies and programs to strengthen their resilience following these events.

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

HISTORY



Young digger (*Book*)

By Anthony Hill, 2002

An extraordinary story about Henri Tovell who was known as 'Young Digger'. Orphaned, homeless and no more than seven years old, he attached himself to several British Army fighting units, until he was eventually smuggled back to Australia where he was raised by an airman as his own son.

Please contact the library to request a loan of this book

More books and DVDs on Australian military history can be found listed [here](#).

CHILDREN'S BUSH FIRE COLLECTION

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

GENERAL



Interested in receiving a monthly email alert for the latest issue of **Choice** magazine. Since 1960, Choice has provided independent and unbiased reviews, product tests, articles, information and buying guides from their experts.

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Air Attack – Issue 14 is online.

This issue looks at Bell AH-1 Cobra helicopters being used for firefighting in California by the US Forest Service, the emerging use of drones in firefighting and new technologies on the fire line.

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

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