



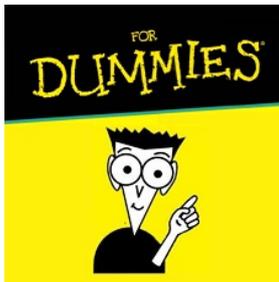
New books, articles and reports in your library this month

New Resources this month includes new publications on how terrain slope impacts persons' travel rates, funding priorities towards Australian pre-disaster mitigation measures, forensic science and fire, the Tasmanian bushfires, managing animals in disasters, a Swedish study of their media's coverage of foreign wildfires including Australia, how natural hazards affect participation in voluntary association, the latest issues of our digital magazines – National Geographic, Men's Journal and Popular Science, the very popular book by free solo climber Alex Honnold *Alone on the Wall* ...plus so much more.

There are also new additions to our latest [audio book collection](#) – Ruby Wax's *How to be human*, Sir Richard Branson's autobiography, Stephen Hawking's best seller *A brief history in time* and Adam Steltzner's, the man who led the team in landing the Curiosity rover on the surface of Mars, book *Right kind of crazy*. Instructions and the password for this collection is available from your library.

Contact your librarian Katie to borrow any of the books and DVDs or to request articles at rfs.library@rfs.nsw.gov.au

(The librarian will be on holiday leave until Tuesday, 23rd April 2015. Your correspondence will be answered on her return. Have a delightful Easter long weekend!)



For Dummies books for very smart NSW RFS people

Your library has a selection the very popular For Dummies books, both in hardcopy and eBook format. The titles include *Mindfulness at work*, *Managing all-in-one*, *Project management*, *Critical thinking*, *Excel 2016* and several more thrilling reads!

A list of For Dummies books held in our collection is [here](#) – contact the library to borrow a copy or to access the eBook version.

FIRE INCIDENTS – AUSTRALIAN



From the Heart: Remembering the 2009 Victorian Bushfires (Museum exhibition)

Located in the upper west side of Melbourne Museum until the 12th of May, this exhibition contains photographs from DELWP, and objects and images from Museums Victoria's Victorian Bushfires collection, including stories of community recovery. The

EMERGENCY MANAGEMENT

An Unmitigated Disaster: Shifting from Response and Recovery to Mitigation for an Insurable Future (Journal article)

International Journal of Disaster Risk Science, April 2019
Australian households are increasingly vulnerable to natural hazard-related disasters. To manage disaster risk, government commissioned inquiries have called for greater investment in mitigation. This article critically

program features a Remembrance Tree for visitors to post their own reflections and leave messages of support.

Follow this [Melbourne Museum link](#) for further information.

Mercury pollution from decades past may have been re-released by Tasmania's bushfires (News article)

The Conversation, 8 April 2019

Tasmania's bushfires may have resulted in the release of significant amounts of mercury from burnt trees into the atmosphere. The authors' research shows that industrial mercury pollution from decades past has been locked up in west Tasmanian trees.

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

Relicts at Risk: Impacts of the 2016 Tasmanian Fires on Pencil Pine (*Athrotaxis cupressoides*) (BNHCRC report)

March, 2019

The main goal of this study is to obtain empirical measurements of fuel loads within the first year after a fire to complement the measurements of fuel loads taken directly before the fires. This will not only allow the authors to precisely quantify the fuel loads consumed by these relatively low-severity fires, but it will also give us a baseline measurement of fuel loads. They can use this baseline to anchor measurements of fuel accumulation in mature wet eucalypt forests that are part of related TERN and BNHCRC studies attempting to measure both the effects of climate and stand age on fuel accumulation in wet forests.

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

FIRE INCIDENTS – INTERNATIONAL



Wildfire Magazine– the latest issue (April, 2019) is now available online. The contents include articles on the 2018 fires in Greece, The Camp Fire in California and the Tasmanian fires.

Use this [link](#) to download the latest Wildfire issue.



Sweden's wildfires of summer 2018 (Journal article)

Crisis Response, Vol 14, no 2, 2019

Ulrika Lindmark, who was the overall incident leader during the Kårböle wildfire operation in Sweden last year, discusses leadership and international collaboration during the incident – one of the country's largest wildfires in history.

examines the call for a shift in funding priority towards pre-disaster mitigation measures, in the context of growing concerns around the ability of households to access and afford insurance. It examines mitigation measures in the context of three prominent Australian disasters: the Black Saturday bushfires (Victoria, 2009), the Queensland floods (2010–2011), and Cyclone Yasi (Queensland, 2011).

Use this [Springer publisher's link](#) to read the article online



Flood risk management : case studies of governance, policy and communities (Book)

Our changing climate and more extreme weather events have dramatically increased the number and severity of floods across the

world. Demonstrating the diversity of global flood risk management, this volume covers a range of topics including planning and policy, risk governance and communication, forecasting and warning, and economics. Written by an international set of authors, this collection of chapters and case studies will allow the reader to see how floods and flood risk management is experienced in different regions of the world.

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

Managing animals in disasters (MAiD) - improving preparedness, response and resilience through individual and organisational collaboration: Final Report 2017 (BNHCRC Report)

Mel Taylor, 2019

The Managing Animals in Disasters (MAiD) project was a three-year research project focusing on the challenges for end users, stakeholders, and community members in preparing for, planning for, and responding to the needs of animals in emergencies. The aim of the project was to identify and build best practice approaches to animal emergency management (AEM) to enable engagement with animal owners and other stakeholders in disasters and emergencies.

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



Dark water rising : the truth about Hurricane Katrina animal rescues (DVD)

Over 50,000 dogs and cats were left behind in New Orleans in the aftermath of Hurricane Katrina as FEMA required that all animals be left behind in the mandatory evacuation. This forced separation created America's first-ever major animal rescue. This film tells many uplifting stories of hope and survival as animal companions (pets) are reunited with

Please contact the library to request a copy of this article

FIREFIGHTING

Geographers use big data to predict how slope affects human travel rates (*US News article*)

ScienceDaily News - University of Utah, 3 April 2019

For wildland firefighters retreating from the fire to a safety zone, predicting how long it takes to move across terrain can be a matter of life and death. Geographers developed a series of models that strongly predict how terrain slope impacts travel rates. Using a crowdsourced fitness-tracking database, they analysed GPS data from nearly 30,000 people. The resulting models are the first to account for variability in travel rates between slow, medium and fast movers.

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

[Fighting fire : stories of the Mt Wilson and Mt Irvine Rural Fire Brigade](#) (*Book*)

A history of the Mount Wilson/Mount Irvine Rural Fire Brigade, compiled by Alison Halliday, a Mount Wilson member. Various members of the community and others knowledgeable of the brigade history, contributed to this project.

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

FIRE BEHAVIOUR

Simulated transport of short-range embers in an idealised bushfire (*Conference paper*)

6th International Fire Behaviour and Fuels Conference, April 2019

The sources of ignition of the fires are often natural or accidental such as lightning, campfire, cigarette butts, or machinery and tools (Miller, Plucinski et al. 2017). Accurate and quick prediction of the evacuation of communities and the behaviour of a bushfire will make a difference in reducing the impact of bushfire. The author's work seeks to study the transport of ember particles across realistic forest edges. They then seek to compute and characterise the final ember landing distribution with the eye to develop an operational model of ember attack. Please contact the library to request a copy of this paper

Determining Threshold Conditions for Extreme Fire Behaviour Annual Report 2017-2018 (*BNHCRC report*) *March 2019*

their owners while other lucky animals find loving new homes.

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

Deciding will be decisive (*Journal article*)

Crisis Response, Vol 14, no 2, 2019

Procedures and manuals will always play an indispensable role in orchestrating an effective response, but they might have reached their limitations, because today's crisis communication stands on the edge of tomorrow, says Patrick Meschenmoser

Please contact the library to request a copy of this article

The future of public warning: from sirens to smartphones (*Journal article*)

Crisis Response, Vol 14, no 2, 2019

How much of the technology that we use today is the same as back in World War Two? It's a struggle to think of many, when the ways we travel, work and spend our free time have all changed so dramatically. It's even more difficult if we think about the public safety world, says Rose Michael

Please contact the library to request a copy of this article

NATURAL ENVIRONMENT

Evidence that the functional extinction of small mammals facilitates shrub encroachment following wildfire in arid Australia (*Journal article*)

Journal of Arid Environments. May 2019, Vol. 164

The authors investigate the interacting impacts that wildfire and functional extinction of native granivorous rodents and a small introduced herbivore, the European rabbit (*Oryctolagus cuniculus*), have on shrub seedling density in the Strzelecki Desert, Australia. Using data from field surveys conducted following wildfires in 2012, we show that shrub seedling densities were higher at burned than unburned sites in areas where rodents and rabbits were rare. However, at sites where rodents and rabbits were common, seedling densities were higher at unburned than burned sites and rodent activity was greater on burned sites during an optimal recruitment period.

Please contact the library to request a copy of this article

Wild bees flock to forested areas affected by severe fire (*US News article*)

ScienceDaily News – Oregon State University, 3 April 2019

The main aim of this project is to investigate the conditions and processes under which bushfire behaviour undergoes major transitions, including fire convection and plume dynamics, evaluating the consequences of eruptive fire behaviour (spotting events, convection driven wind damage, rapid fire spread) and determining the combination of conditions for such behaviours to occur (e.g. unstable atmosphere, fuel properties and weather conditions).

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

FIRE MANAGEMENT



[To burn or not to burn : perceptions of fire management around Australia](#) (Book)

By Anthony Kerr, 2018

This volume presents opinions about managing fire in Australia: perspectives from people of many backgrounds whose views have been shaped by diverse experiences with fire, in many different places. The interviews that make up the individual chapters often vividly recount experiences that most of the Australian population would regard as anything but routine.

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



Fire in the south: a cross-continental exchange (BNHCRC report)

Jessica Weir and Dean Freeman, April 2019

This report documents a trip undertaken across southern Western Australia (WA) to exchange knowledge from south eastern Australia about cultural burning with traditional owners and fire authorities in Norseman, Esperance, Nowanup, Albany, Bunbury and Perth. The key learnings are summarised under the headings: Fire and life, At-risk values, Healing, Cultural burning as a contemporary practice, Volunteer training and fire skills, Relations and repair, and, East-West engagement across southern Australia.

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

Forest fuel bed ignitability under marginal fire weather conditions in Eucalyptus forests (Journal article)

International Journal of Wildland Fire, Vol 28, no 3.

Fires burning under marginal fire-weather conditions tend to be patchy in terms of their spatial coverage. This patchiness is partially driven by variability in the ignitability of the fuel bed. An understanding of fuel-bed ignitability through space and time would help fire managers to more effectively carry out prescribed burns

A groundbreaking two-year study in southern Oregon, U.S.A., found greater abundance and diversity of wild bees in areas that experienced moderate and severe forest fires compared to areas with low-severity fires.

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

Climate change limits forest recovery after wildfires (US News article)

ScienceDaily News –University of Montana, 12 March 2019

New research suggests climate change makes it increasingly difficult for tree seedlings to regenerate following wildfires in low-elevation forests, which could contribute to abrupt forest loss.

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

COMMUNITY ENGAGEMENT

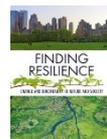
Should We Leave Now? Behavioral Factors in Evacuation Under Wildfire Threat (Journal article)

Fire Technology, Vol 55, no 2, March 2019

This paper reviews North American and Australian research into wildfire evacuation behaviour published between January 2005 and June 2017. Wildfire evacuation policies differ across the two regions: in North America mandatory evacuations are favoured, in Australia most are advisory. Research from both regions indicates that following a wildfire evacuation warning some threatened residents will wish to remain on their property in order to protect it, many will delay evacuating, and some residents who are not on their property when an evacuation warning is issued may seek to return. Suggestions are offered for ways in which authorities might reduce the numbers of residents who delay evacuating following a wildfire warning.

Please contact the library to request a copy of this article

COMMUNITY RESILIENCE



[Finding resilience : change and uncertainty in nature and society](#) (Book)

By Brian Walker, 2019

An analysis of how ecosystems, societies and people cope with disturbance and adversity.

Floods, fires, famines, epidemics and disasters of all kinds are on the increase, and as their frequency rises so does the call for greater resilience. But what does that mean? An authoritative but plain English account which is based

to achieve desired levels of burn coverage in Eucalyptus forests. The authors sought to identify the key fuel-bed attributes influencing ignitability under marginal weather conditions.

Please contact the library to request a copy of this article

FIRE INVESTIGATION



Disrupting forensic science and playing with fire (Podcast)

ABC Conversations, March 2019

Forensic chemist Professor Niamh Nic

Daeid began learning about fire from her

parents after they started Ireland's first fire investigation company.

Niamh is now among the UK's chief expert witnesses and was recently the fire investigation expert witness for the public inquiry into the Grenfell Tower Fire.

To listen to this podcast, please use this [ABC link](#).

RISK MANAGEMENT

Black swans and grey rhinos in disaster risk reduction

(Journal article)

Crisis Response, Vol 14, no 2, 2019

Society has always been threatened by extreme events. Korbinian Breinl examines why we still fail to respond to obvious but neglected major threats – grey rhinos – and still focus too much on identifying black swans, which are, by definition, unpredictable and are therefore unknown unknowns

Please contact the library to request a copy of this article



[Managing the Risks of Organizational Accidents](#) (eBook)

By James Reason, 2016

Major accidents are rare events due to the many barriers, safeguards and defences

developed by modern technologies. But they continue to happen with saddening regularity and their human and financial consequences are all too often unacceptably catastrophic. This lucid book presents a set of common principles to further our knowledge of the causes of major accidents in a wide variety of high-technology systems. It also describes tools and techniques for managing the risks of such organisational accidents that go beyond those currently available to system managers and safety professionals.

on the experiences of researchers, the fascinating stories from around the world reveal what resilience is, how it works in different kinds of systems, how it is expressed, and how it can be gained and lost.

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



The disaster resilience project: a school-based feasibility and acceptability study (BNHCRC report)

To assess the feasibility and acceptability of the pilot version of the Disaster Resilience Project, an empirical study was undertaken in two Victorian Secondary schools in Australia. The study had three main objectives: 1) to determine the overall feasibility and acceptability of the project as an educational resource; 2) to determine the feasibility and acceptability of the individual lessons and the specific teaching and learning activities comprising those lessons; and 3) to determine the feasibility and acceptability of the teacher-delivered model of implementation

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

LEADERSHIP AND MANAGEMENT

Servant leadership for first responders (Journal article)

Crisis Response, Vol 14, no 2, 2019

Eric Russell provides some thoughts on the characteristics of first responders, and what sort of leadership they deserve to help them in their jobs, not least when navigating internal bureaucracies

Please contact the library to request a copy of this article



[Managing all-in-one for dummies](#) (eBook)

Your all-encompassing guide to managing people, projects, and teams. Being a manager can be an intimidating and challenging task.

Managing involves teaching new skills to employees, helping land a new customer, accomplishing an important assignment, increasing performance, and much more. The process of management can be very challenging at times, but it can also bring you a sense of fulfilment that you never imagined possible. Managing All-In-One For Dummies is the practical, plain-English guide that covers all the basics of business management.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home, please [contact the library](#) for a password-embedded link.

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METEOROLOGY AND CLIMATE CHANGE

Foreign, Domestic, and Cultural Factors in Climate Change Reporting: Swedish Media's Coverage of Wildfires in Three Continents (Journal article)

Environmental Communication, May 2019, Vol. 13 no 3

This study examines domestic media's coverage of foreign wildfires from a climate change perspective. It explores Swedish newspapers' coverage of wildfires in Australia, the Mediterranean region, and the USA during a three-year period (February 2013-March 2016), focusing on how and to what extent climate change is viewed as an underlying cause. A central result is that climate change is mentioned far more often in the case of Australian wildfires than of fires in the other two regions. Another finding is that the climate change issue became more prominent after a severe domestic wildfire in 2014.

Please contact the library to request a copy of this article



New hazard and risk level for wildfires in California and worldwide (Report)

Munich RE, 2019

The number of wildfires in California causing billions of dollars in damage has spiked over the last few years. While Southern California has seen an accumulation of such events since the early 2000s, the northern half of the state has only experienced a sharp rise in major loss events since 2015. Climate trends also show an increase in wildfire hazard, which is arguably higher now than it ever was in the 20th century. This illustrates that the overall risk and loss levels are significantly different than in the past.

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

LAND USE

Gaining public input on natural hazard risk and land-use planning: A case study from New Zealand (Journal article)

Disaster Prevention and Management, Vol 28, no 2

Risk-based land-use planning is a major tool for reducing risks and enabling communities to design for and mitigate against natural hazard events. Moving towards a risk-based approach to land-use planning involves changes in

VOLUNTEER MANAGEMENT

How do natural hazards affect participation in voluntary association? The social impacts of disasters in Japanese society (Journal article)

International Journal of Disaster Risk Reduction, Vol 34, March 2019

This study focused on the way individuals' past experiences with disasters and their perceived risks of disasters affect their involvement in voluntary associations, which are important indicators of social capital. Moreover, as recent social capital studies have examined the different types of associations that contribute to the formation of social capital in various ways, for this present study, associations were categorised as civic, reward-based, and social/recreational.

Please contact the library to request a copy of this article

WOMEN AND SUCCESS



Women in STEM: decadal plan (Online report)

Australian Academy of Science and Australian Academy of Technology and Engineering, April 2019

Demand for STEM skills in Australia is high and cannot be met over the coming decade unless cohesive and collective action is taken to maximise the attraction, participation and retention of men and women in the workforce. Women in particular face barriers at all levels of the pipeline including in their years of education and at all levels in the workforce, with pronounced barriers presenting at senior levels. This strategy offers a vision and opportunity to guide stakeholders, as they go about identifying and agreeing upon the specific actions required to build the strongest STEM workforce possible to support Australia's prosperity.

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



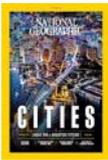
[On the line : women firefighters tell their stories](#) (Book)

Published in 2011, this book profiles more than 35 women who serve as firefighters in the United States and Canada, from career

members of the largest fire departments to volunteers with organizations of only a dozen members. The women in this book share their best stories: responding to the World Trade Center and the Pentagon on 9/11, handling emergency medical calls that may range from the tragic

planning and public communication practice for local government agencies. However, talking to people about how decisions made in the present may increase risk in the future is notoriously hard and requires carefully crafted public discussion. This paper explores the case of a local government planning agency in New Zealand. Please contact the library to request a copy of this article NSW RFS Staff and SES HQ Staff may use this [Emerald link](#) to access the article at work

GENERAL

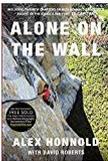


National Geographic (Online magazine)
April 2019

All about cities in this issue. Urban life and trade-offs, cities of the future, rats, Tokyo, Uganda, rethinking cities, the working

homeless and so much more.

National Geographic is part of our digital magazine collection. Please [contact the library](#) for a password-embedded link to our magazines.

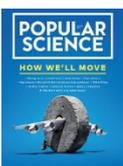


Alone on the wall (Book and Audiobook)
By Alex Honnold, 2018

On June 3rd, 2017, Alex Honnold became the first person to free solo Yosemite's El Capitan--to scale the wall without rope, a partner, or any protective gear--completing what was described as 'the greatest feat of pure rock climbing in the history of the sport' (National Geographic) and 'one of the great athletic feats of any kind, ever' (New York Times). Alone on the Wall recounts the most astonishing achievements of Honnold's extraordinary life and career, brimming with lessons on living fearlessly, taking risks, and maintaining focus even in the face of extreme danger.

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

For the audiobook version, please [contact the library](#) for a password-embedded link and instructions.



Popular Science (Online magazine)
Spring 2019

Transport articles are the subject of this issue... self-driving cars, the laser sailboat, public transport, history of roads, supersonic airplanes etc.

Popular Science is part of our digital magazine collection.

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to the ridiculous, living in the fire station, overcoming obstacles.

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Fire girl (Book)

By Jan Mendoza, 2012

Jan Mendoza was one of the first few female fire fighters to work for the California

Department of Forestry. The year was 1978 and a girl had never stepped foot to work at her assigned duty station in its 50 year history. It was definitely a man's world. She not only surprised herself of her abilities and stamina, she also surprised her male counterparts. From the mundane everyday station work to battling raging forest fires with near death experiences, Jan tells her story with humour and honesty of being the only girl at a mountain fire station.

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

Books on this topic are found in our library's [Women and Success online bibliography](#).

WORK, HEALTH AND SAFETY

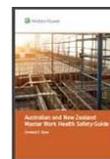


Men's Journal (Online magazine)
April 2019

This month's issue includes trail running, mountain bikes, resistance bands and yoga for adventurers. If this is not your thing, then there are also articles on apple brandy, interviews with Zachary Levi and Jimmie Johnson and a review of the new Ford Ranger.

Men's Journal is part of our digital magazine collection.

Please [contact the library](#) for a password-embedded link to our magazines.



Australian and New Zealand master work health and safety guide (Book)

This third edition is a first point of reference for work health and safety best practice and strategy. It provides key information and practical guidance on how to meet the current safety challenges facing organisations in Australia and New Zealand. This title equips safety professionals, managers and students with a variety of practical tools to assist in understanding and improving health and safety standards, such as case studies, diagrams, checklists and templates.

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MENTAL HEALTH & INCIDENT STRESS

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

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