New books, articles and reports in your library this month

For all those members who work in catering, or those who just enjoy cooking or even hate cooking but need to create meals, the library has created a list of cookery titles available to borrow or access online.

Some of the books have been in the library for a few years, but new ones have been added just this month including Ben’s BBQ Bible, 15 minute vegan on a budget, Margaret Fulton’s Baking classics, and the Women’s Weekly Everyday Vegetarian.

Plus…the library has subscribed to Taste eMagazine, a monthly publication full of pages of delicious Australian recipes from quick midweek dinners to lazy weekend lunches. If you don’t already have access to our eBook collection or our online magazines, please email the library at rfs.library@rfs.nsw.gov.au

New Resources this month includes reports, books and journal articles covering prescribed burning, the history and future of climate change in Australia, the Christchurch mosque gunman tragedy, the history of the US advertising character Smokey Bear, retired US four-star general Stan McChrystal’s book on leadership, community resilience, Deep Survival and the thought processes and actions of survivors and nonsurvivors in deadly situations, Californian fires and Dr Steve Ellen & Catherine Deveny new book on demystifying mental health...plus so much more.

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

FIRE INCIDENTS – AUSTRALIAN

The risk of dying in bushfires: A comparative analysis of fatalities and survivors (Journal article)
Progress in Disaster Science, Vol 1, May 2019
A limitation in disaster risk reduction research is the lack of comparative analysis between those who die and those who survive in the same event. This makes it difficult to determine factors that increase or decrease the risk of dying in a disaster. In this paper, we begin to address this research gap by using published data from the 2009 ‘Black Saturday’ bushfires in Victoria, Australia.
Please contact the library to request a copy of this article.

FIRE INCIDENTS – INTERNATIONAL

EMERGENCY MANAGEMENT

Economic Recovery After Disaster Strikes : a report for Suncorp (Report)
SGS Economics And Planning, 2019
This report considers the role of insurance in restoring local economic activity and reducing the long-term impact of natural disasters in Australia. The analysis looks at the experience of three recent natural disasters: Cyclone Debbie, Tathra bushfires and Hobart’s floods. All three disasters had a devastating effect on local communities and economic activity, and unlike previous studies, this analysis considers the economic impact of insurance payouts made to those affected.
Use this SGSEP link to read the review online.
The latest issue of **Wildfire** (June 2019) is available online. Click [here](#) to read about Turkey’s wildfires, IAWF papers on suppression and the latest challenge for wildfire science.

**Under fire** (**Journal article**)
Smithsonian, July 2019
The article reports on the history of the advertising character Smokey Bear. It mentions the creation of the character in 1944 and its use by the U.S. Forest Service, the effectiveness of the public service advertising, and the change in Smokey’s motto after the acceptance of the need for controlled burns. Please contact the library to request a copy of this article.

**NSW RFS Staff may use this EBSCO link to access the article at work**

**Blueprint for wildland fire science in Canada (2019-2029)** (**Report**)
Natural Resources Canada, 2019
Preparing and managing for wildland fire events requires evidence-based decisions, policies, and practices, supported by strong science and technological innovation. This blueprint is a 10-year plan focused on building national wildland fire science capacity for Canada. It identifies existing research gaps, priority research topics, and recommendations to enhance wildland fire research. Use this [NRCAN link](#) to read the hazard note online.

**California Is Bracing for Fire Season. But a Big Problem Remains** (**Magazine article**)
Time Magazine, Vol 194 no 3, July 2019
The article discusses preparation for the 2019 fire season in California. Topics include fire prevention efforts in forested areas of California, the experiences of anxiety among residents, and preparation efforts by the state’s Cal Fire department. Please contact the library to request a copy of this article.

**NSW RFS Staff may use this EBSCO link to access the article at work**

**California, Catalyzed.** (**Magazine article**)
American Forests, Summer 2019
The article explore author’s experience of evacuating guests from wildfire in California. It informs on authors experience of working with Dave Derby is the unit forester for the California Department of Forestry and Fire

**Review — Efficacy of recovery governance** (**Report**)
Qld Office Of The Inspector-General Emergency Management, June 2019
This report sets out to assess the efficiency and effectiveness of recovery governance in Queensland, and to identify enhancements that would lead to better local-level community recovery and community outcomes. The review finds that a great challenge for the state will be to change the cultural approach towards recovery, so those at the community level actively strive to become involved. Use this [IGEM link](#) to read the review online.

**Christchurch mosque gunman tragedy** (**Journal article**)
Crisis Response Journal, Vol 14, no 3, 2019
Some unusual characteristics of the Christchurch shootings provide important lessons for intelligence and police services, crisis managers and emergency responders – regionally and internationally. Please contact the library to request a copy of this article.

**COMMUNITY ENGAGEMENT**

**Community Citizen Science : From Promise to Action** (**US Report**)
RAND Corporation, July 2019
Citizen science is the use of scientific methods by the general public to ask and answer questions and solve problems. Part of the research report included interviewing representatives of three community citizen science projects carried out for disaster response and recovery. The authors used findings from the disaster response and recovery case studies to identify specific considerations for community citizen science implementation and impacts. Use this [RAND link](#) to read the report online.

**Youth and Preparedness** (**US Podcast, 40 mins**)
EM Weekly Podcast, July 2019
Interview with Dr. Ryan Akers about youth preparedness. Ryan is the founder of MyPI Short for My Preparedness Initiative, MyPI provides a challenging youth preparedness and leadership development opportunity in which teenagers are empowered to take ownership of their preparedness and to assist their families and surrounding communities with the same, all with the goal of enhancing individual, family, and community preparedness and resilience, and at the same creating a new standard for youth preparedness across the nation.
Protection's (CAL FIRE) Butte unit for vegetation management program. Please contact the library to request a copy of this article. NSW RFS Staff may use this EBSCO link to access the article at work.

Lessons Learned from The Big One California Firestorms (US Podcast, 39 mins)
EM Weekly Podcast, June 2019
Interview with Brentt Blaser about responding to the Northern California's firestorm in Sonoma. Brentt shares his story and the impact that the fire had on the county. Guest Bio Brentt Blaser is an experienced Emergency Manager with a demonstrated history of working in the public safety industry. He is skilled in Public Safety, Government, GIS, Emergency Management, and Preparedness. Strong community and social services professional with a Bachelor of Arts (B.A.) from Arizona State University.
To listen to this podcast, please use this EM Weekly link.

FIREFIGHTING

Escape Route Index: A Spatially-Explicit Measure of Wildland Firefighter Egress Capacity (Journal article)
Fire, Vol 2, no 3, July 2019
For wildland firefighters, the ability to efficiently evacuate the fireline is limited by terrain, vegetation, and fire impacts. The conditions of terrain and vegetation on evacuation time to a safety zone may not be apparent when considering potential control locations either at the time of a wildfire or during pre-suppression planning. To address the need for a spatially-explicit measure of egress capacity, this paper introduces the Escape Route Index (ERI).
Use this Fire link to read the article online.

The Fire Trucks, Tankers and Support Vehicles of Sutton Volunteer Rural Fire Brigade (Book)
Graham Scofield, Sutton Rural Fire Brigade, 2019
This book records the history of the Sutton Volunteer Rural Fire Brigade’s vehicles from the Brigade's formation through to the current day, with an emphasis on how the vehicles and equipment carried on them has changed. It also covers other topics associated with the vehicles and their operation.
Please contact the library to request a loan of this book.

To listen to this podcast, please use this EM Weekly link.

COMMUNITY RESILIENCE

Deep survival : who lives, who dies, and why : true stories of miraculous endurance and sudden death (Book)
Laurence Gonzales, 2017
Compares the thought processes and actions of survivors and nonsurvivors in deadly situations, presenting case studies and discussing neurological and psychological research and ancient texts on survival; and lists twelve steps most survivors take in life-and-death situations as well as trying situations in everyday life.
Please contact the library to request a loan of this book.

Extreme event: Let’s play a game (Online news blog)
Crisis Response, July 2019
Rob Fagan introduces the US National Academy of Sciences’ LabX and its free series of exercises known as the 'Extreme Event Game'. According to the website, Extreme Event is an in-person role-playing game that gives participants a taste of what it takes to build community resilience in the face of disaster. Players work together to make decisions and solve problems during an engaging, fast-paced disaster simulation.
Use this Crisis Response link to read the blog online.

Natural Hazards and Social Vulnerability of Place: The Strength-Based Approach Applied to Wollongong, Australia (Journal article)
International Journal of Disaster Risk Science, Online: 9 July, 2019
Failing to identify and support the most vulnerable communities is a recipe for disaster. Many studies have proposed social vulnerability indices for measuring both the sensitivity of a population to natural hazards and its ability to respond and recover from them. This study proposes a more balanced approach referred to as the strength-based social vulnerability index (SSVI) applied to assess comparatively the social vulnerability of different suburbs in the Wollongong area of New South Wales, Australia.
Use this Springer link to read the article online.

Optimising post-disaster recovery interventions in Australia: annual project report 2018-19 (Report)
Bushfire and Natural Hazards CRC, July 2019
A review of US wildland firefighter entrapments: trends, important environmental factors and research needs
*International Journal of Wildland Fire, Online: 25 June 2019*

Although vehicle accidents and aircraft mishaps claim the most lives, situations where firefighters are caught in a life-threatening, fire behaviour-related event (i.e. an entrapment) constitute a considerable danger because each instance can affect many individuals. In an attempt to advance our understanding of the causes of firefighter entrapments, a review of the pertinent literature and a synthesis of existing data were undertaken.

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

**FIRE BEHAVIOUR**

Drivers of Wildfire Occurrence Patterns in the Inland Riverine Environment of New South Wales, Australia
*Forests, June 2019*

This study investigated patterns and driving factors of wildfire occurrence over the years from 2001 to 2016 and across the New South Wales side of the Riverina bioregion. Descriptive analyses were conducted for fires of different causes and that burned different vegetation types.

Please contact the library to request a copy of this article

NSW RFS Staff may use this EBSCO link to access the article at work

Bushfire rate of spread rule of thumb
*CSIRO Pyropage Issue 23, June 2019*

This issue reports on research aimed at identifying and quantifying the performance of a simple rule of thumb to estimate the forward rate of spread of established bushfire burning through forest or shrubland vegetation using just the wind speed. This work analysed a large number of rate of forward spread observations of fires burning in temperate shrublands, Australian dry eucalypt forest and North American conifer forests.

Use this CSIRO link to read the issue online

Can peat soil support a flaming wildfire?
*International Journal of Wildland Fire, Online: 15 July 2019*

Smouldering wildfire in peatlands is one of the largest and longest-lasting fire phenomena on Earth, but whether peat can support a flaming fire like other surface fuels is still unclear. Our experiments demonstrate the successful piloted flaming ignition of peat soil with moisture up to

This research program explores the impact of a number of Australian natural disasters, including the Victorian Black Saturday Bushfires, on disaster-hit individuals’ economic resilience. By analysing Australian 2006, 2011 and 2016 Census data, we determine whether their income levels were able to recover post disaster in the short and medium term, considering demographic factors and employment sectors.

Use this BNHCRC link to read the report online.

**MENTAL HEALTH & INCIDENT STRESS**

Mental: everything you never knew you needed to know about mental health
*Dr Steve Ellen & Catherine Deveny, 2018*

Psychiatrist Dr Steve Ellen and comedian Catherine Deveny combine forces to demystify the world of mental health. Providing an insider perspective, they share their personal experiences of mental illness and unpack the current knowledge about conditions and treatments. Set to become a go-to guide for anyone with a mental illness or supporting someone who has one.

How to be resilient
*Stacey Copas, 2015*

Recently presenting at our 2019 Leadership Forum, the author outlines in her book her first-hand experience in dealing with some of the toughest adversity one could face – an accident at 12 years old that left Stacey a quadriplegic. There was no textbook theory or hype that got her to where she is now, just real world, practical principles that got her from rock bottom to succeeding in business, sport and life. In this book these principles have been laid out in the easiest way possible so now you can apply them in your life too.

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

Mental health and mindfulness amongst Australian fire fighters
*BMC Psychology, Vol 7, 2019*

While extensive research has highlighted the positive mental health outcomes associated with mindfulness, little work has examined how mindfulness may protect the mental health of first responders exposed to trauma. The purpose of the current research was to examine the potential role mindfulness may have in supporting the mental health of Australian fire fighters.

Please contact the library to request a copy of this article
100 wt-% under external radiation, indicating that flames may rapidly spread on peatland before transitioning to a conventional smouldering peat fire. 

**FIRE MANAGEMENT**

**Cost effectiveness of fire management strategies in southern Australia** *(Journal article)*

International Journal of Wildland Fire, Online: 18 June 2019

Fire-management agencies invest significant resources to reduce the impacts of future fires. There has been increasing public scrutiny over how agencies allocate fire-management budgets and, in response, agencies are looking to use quantitative risk-based approaches to make decisions about expenditure in a more transparent manner. Here, the authors, analyse the cost trade-offs of future fire management in the Australian Capital Territory (ACT) and surrounding areas by combining fire simulation with Bayesian Decision Networks.

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

**PRESCRIBED BURNING – HAZARD REDUCTION**

**Fuel Moisture Differentials** *(YouTube video, 31 mins)*

Centre of Excellence for Prescribed Burning, 5 June 2019

The ACT Parks and Conservation Service has developed a fuel moisture collection program to mitigate the risk associated with the reliance on moisture differentials. Detailed knowledge of fuel moisture content across fuel classes and strata has opened up burning opportunities that were previously overlooked when decisions were based solely on weather.

*Use this Youtube link to watch the video.*

**Where to prescribe burn: the costs and benefits of prescribed burning close to houses** *(Journal article)*

International Journal of Wildland Fire, Online 3 June 2019

A key challenge is deciding how to arrange the prescribed burns to generate the highest benefits to society. Studies have shown that prescribed burning in the wildland–urban interface (WUI) can reduce the risk of house loss due to wildfires, but the costs and benefits of different arrangements for prescribed burning treatments have rarely been estimated. In this study, the authors use three different models to explore the costs and benefits of

**LEADERSHIP AND MANAGEMENT**

**New power : why outsiders are winning, institutions are failing, and how the rest of us can keep up in the age of mass participation** *(Book)*

Henry Timms, 2019

From #MeToo to Harvey Weinstein; Corbyn to Trump; from YouTube sensations to darker phenomena such as the emergence of ISIS - in our new hyper-connected world, ideas and movements can spread and flourish with astonishing force and speed. In New Power, Jeremy Heimans and Henry Timms confront the biggest story of
modifying the spatial arrangement of prescribed burns on public land, using the south-west of Western Australia as a case study.

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

Climate change effects on the frequency, seasonality and interannual variability of suitable prescribed burning weather conditions in south-eastern Australia (Journal article)
Agricultural and Forest Meteorology, Vol 271, June 2019
Despite the importance of prescribed burning in contemporary fire management, there is little understanding of how climate change will influence the weather conditions under which it is deployed. The authors, including NSW RFS member Belinda Kenny, provide quantitative estimates of potential changes in the number of prescribed burning days in coastal NSW.

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

From hectares to tailor-made solutions for risk mitigation: annual project report 2018-19 (Report)
Bushfire and Natural Hazards CRC, July 2019
The project aims to provide critical support to agency decision makers across southern Australia by undertaking a systematic investigation of the drivers of prescribed burning effectiveness across the region.

Use this BNHCRC link to read the report online.

Fuelbreaks: a part of wildfire prevention (Research paper)
United Nations Office For Disaster Risk Reduction, 2019
Fuelbreaks are a common method of applying hazard reduction. This article is divided into these following sections: Firstly, background information on wildfire mechanism is given. Secondly, global trends in forest fires and their impacts are detailed. Thirdly, the use of fuelbreaks in fire management is explained. This paper is a contribution to the 2019 edition of the Global Assessment Report on Disaster Risk Reduction.

Use this PreventionWeb link to read the paper online.

SEARCH AND RESCUE

Fire service technical search and rescue (Book)
IFSTA, 2015
This 8th Edition is a primary training text for US Level I Rescuers according to NFPA® 1006. The manual presents the knowledge and skills for fire service search and technical rescue for Level I Rescuers to our age and trace how New Power is the key to understanding where we are and will prosper in the 21st Century.

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

Preparing to lead in a crisis (Book)
Peter Dunn, 2018
Based on over 15 years of work identifying the causes of poor responses to crises, four themes have emerged: poor planning, inadequate use of information and intelligence, ineffective resource management and deficiencies in certain senior leadership behaviours. This book examines actions that a senior leader can take to rapidly improve their expertise in these critical areas.

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

Avoiding pitfalls as an unexpected crisis leader (Journal article)
Crisis Response Journal, Vol 14, no 3, 2019
Leaders who are suddenly faced with responding to a true crisis can react in a number of ways – from panic to perfect pivots into productive action – explain Eric J McNulty and colleagues, who say you need to understand how your brain works, and then work out how to get smarter than it.

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

Leaders : myth and reality (Book)
Stanley McChrystal, 2018
Retired US four-star general Stan McChrystal has studied leadership his whole adult life, from his first day at West Point to his most recent work with the corporate clients of the McChrystal Group. McChrystal explores what leadership really means, debunking the many myths that have surrounded the concept. He focuses on thirteen great leaders, showing that the lessons we commonly draw from their lives are seldom the correct ones.

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

How to win friends and influence people (Book)
Dale Carnegie, 2010
Twelve things this book will (apparently according to the blurb) do for you: Get you out of a mental rut, give you new thoughts, new visions, new ambitions. Enable you to make friends quickly and easily. Help you to win people to your way of thinking. Increase your influence, your prestige, your ability to get things done.
safely and effectively conduct Operations-level rescues as defined in NFPA® 1006.

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

MAPPING

Using a statistical model of past wildfire spread to quantify and map the likelihood of fire reaching assets and prioritise fuel treatments (Journal article)
*International Journal of Wildland Fire, Online: 9 July 2019*

We present a method to quantify and map the probability of fires reaching the vicinity of assets in a wildfire-prone region, by extending a statistical fire spread model developed on historical fire patterns in the Sydney region, Australia. It calculates the mean probability of fire spreading along sample lines around assets, weights the probability according to ignition probability and also estimates the change in spread probability that fuel reduction in treatment blocks would achieve.

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

METEOROLOGY AND CLIMATE CHANGE

Design Bushfire Selection for Bushfire Protection in Adaptation to Global Warming (Journal article)
*Grahame Douglas and Yaping He Frontiers in Mechanical Engineering, May 2019*

In this article, a risk based approach to design for bushfire protection in view of adaptation to global warming is discussed. In lieu of using the Global Climate Model, the current study is based on the analysis of historical fire weather data from multiple locations in a NSW state wide region.

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

LEARNING AND DEVELOPMENT

Understanding how firefighters engage with learning technologies (NZ Report)
*Fire and Emergency New Zealand, June, 2019*

NZ Fire and Emergency commissioned this research to deepen Fire and Emergency’s understanding of their learners to inform decisions about the future development of learning resources. Focus groups and indepth interviews were conducted with 132 firefighters in four career stations, four urban volunteer stations, and three rural volunteer stations around New Zealand.

Use this FENZ link to read the report online.

HISTORY

Australia’s first naturalists: indigenous peoples’ contribution to early zoology (Book)
*Penny Olsen, 2019*

Australia’s First Naturalists is invaluable for those wanting to learn more about our original inhabitants’ contribution to the collection, recognition and classification of Australia’s unique fauna. It heightens our appreciation of the previously unrecognised complex knowledge of Indigenous societies.

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

VOLUNTEER MANAGEMENT

Diversity in recruitment evidence review (NZ Report)
*Fire and Emergency New Zealand, June, 2019*

This evidence review provides Fire and Emergency NZ with a summary of good practice for the design and implementation of interventions to increase diversity in applications and recruits.

Use this FENZ link to read the report online.

Valuing volunteers: better understanding the primary motives for volunteering in Australian emergency services (Thesis)
*Bill Calcutt, University of Wollongong, June 2019*

The Valuing Volunteers Study aims to provide a better understanding of the primary motives for formal volunteering in Australian emergency services, and the broader contemporary influences on such important civic
Climate: More than a storm in a teacup (Journal article)
*Crisis Response Journal, Vol 4, no 3, 2019*
Earlier this year, Emily Hough chaired the keynote session at EENA 2019, featuring Alice Hill, who is former Special Assistant to President Barack Obama and Senior Director for Resilience for the National Security Council. Afterwards, she caught up with Hill to discuss her views on where we are today in terms of national climate change mitigation.  
*Please contact the library to request a copy of this article*

NATURAL ENVIRONMENT

Management of Commonwealth National Parks (Report)
*Australian National Audit Office, June 2019*
There are six terrestrial Commonwealth national parks under the EPBC Act, including Booderee at Jervis Bay. The objective of the audit was to assess the effectiveness of the Director’s management of the six terrestrial Commonwealth national parks.  
*Use this APO link to read the report online.*

LAND MANAGEMENT

*Who’s minding the farm?* (Book)
*Patrice Newell, 2019*
This book is a call to action containing all Patrice Newell has learned in more than thirty years of hard work on her property Elmswood, near Gundy in the Hunter Valley. It is also a book of hope, showing that the old agriculture is now the new agriculture - the farming of the future. Patrice Newell has dedicated her life to understanding what it takes to create a sustainable and healthy agricultural business.  
*Please contact the library to request a loan of this book.*

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CHILDREN’S BOOKS

*When the fire met the sea* (Book)
*Tathra Public School, 2019*
A group of students who came close to losing their school in a fast-moving bushfire last year have published a book about how the seaside town survived its darkest day. One of its authors, 12-year-old Dom Hannah, described When the Fire Met the Sea as the "missing piece", that shared the experience through "the art and language that we as people who were at the fire used".  
*Please contact the library to request a loan of this book. If you would like to purchase a copy of the book, please contact Tathra Public School here.*

GENERAL

*The burnt country* (Book)
*Joy Rhoades, 2019*
From the author of the bestselling The Woolgrower’s Companion, this novel is set in Australia in 1948. As a young woman running a sizeable sheep station in New South Wales, Kate Dowd knows she’s expected to fail. And her grazier neighbour is doing his best to ensure she does, attacking her method of burning off to repel a bushfire.  
*Please contact the library to request a loan of this book.*

*Wild* is part of our digital magazine collection. The July/August issue is now available online. Articles on the NSW Budawangs, NZs Southern Alps, the Du Cane Range in Tasmania and paddling in Myall Lakes. Please [contact the library](#) for a password-embedded link to our magazines.
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Your Librarian
Katie Vantine
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Email: rfs.library@rfs.nsw.gov.au