

Fire Research Publications

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Documents

A fire danger climatology for New Zealand – May 2003

A final report summarising research completed under the project “Fire Danger Climatology Analyses and Tools” - Grant Pearce, Leigh Douglas and John R. Moore

A fire danger climatology for New Zealand, plus Appendix 2 - 2003

Fire Climate Summaries for Individual Weather Stations by Region

A Fire Danger Climatology for New Zealand - 2003

H.G. Pearce, J.R. Moore, K.L. Douglas and S.A.J. Anderson

Forest Biosecurity & Protection - Wildfires and Communities: International Perspectives March 2005

Wildfires and Communities: International Perspectives - Helen Bones

Spatial Prediction of Wildfire Hazard Across New Zealand - A Significant Upgrade - 2005

Fuel Load and Fire Behaviour Assessments for Vegetation within LCDB2 Appendix 3: Sub-Contracted Report - H. Grant Pearce – Fire Scientist, Scion (Forest Research Limited), Christchurch

Impact of Climate Change on Long-term Fire Danger – June 2005

This research report details the findings of likely changes in fire danger under scenarios of climate change for New Zealand. Authors Grant Pearce, Brett Mullan, James Salinger, Todd W. Opperman, Darrin Woods, John R. Moore

New Zealand Vegetation Fire Database Summary and Initial Data Quality Findings – June 2005

Tonja Opperman Wildfire Scientist

Spatial Prediction of Wildfire Hazard Across New Zealand: A Significant Upgrade – September 2005

Authors: Craig Briggs, Robbie Price, and Grant Pearce. The objective of this project was to develop new high-resolution, 25m grid data layers to describe the wild fire hazard across New Zealand, utilising improved data sources like the Land cover Database 2 which was developed after the first iteration of this research in 2001. The results indicate considerable spatial variation in wildfire danger across New Zealand, this is increasingly evident with the new 25-m grids that were developed. The values of fuel load, fuel types and slope correction factor have improved as a result of using higher resolution underlying spatial data layers

Determination of field sampling methods for the assessment of curing levels in grasslands - 2005

Improved methods for the assessment and prediction of grassland curing - Wendy Anderson, Francis Hines, Stuart Anderson

Forest and rural fire danger rating in New Zealand - 2006

Author: Stuart Anderson, Forest Research, Christchurch

Forest Biosecurity & Protection - 2006

Wildfires and Communities: Australasian Perspectives - Laura Kelly

New Zealand Experimental & Wildfire Observer Guide - 2006

Guide Version 1.1 - January 2006. Author Todd Opperman

New Zealand Experimental and Wildfire Observer Guide : Forms - 2006

Fire Weather Recording Form

Applying fire spread simulators in New Zealand and Australia - 2006

Results from an international seminar

Forest Biosecurity & Protection – Communication of Fire Danger Warnings in New Zealand and Overseas - May 2007

Communication of Fire Danger - Warnings in New Zealand and Overseas - Helen Bones, H. Grant Pearce and E.R. (Lisa) Langer

Forest Biosecurity & Protection - Review of methods and data on rural fire suppression resource productivity and effectiveness – June 2007

Richard Parker, Liz Ashby, Grant Pearce and David Riley

Impact of climate variability on fire danger – August 2007

Authors: H Grant Pearce, Jim Salinger, Jim Renwick

Aerial fire suppression research - 2008

H.G. Pearce and S.A.J. Anderson

Spatial Techniques for Grassland Curing Across Australia & New Zealand - 2008

Danielle Martina, Ian Grant, Simon Jones and Stuart Anderson