

Report number	Title	Research provider	Year	Notes
1	Cost-effective domestic fire sprinkler systems	Building Research Advisory New Zealand (BRANZ)	2000	
2	Determining effective fire safety strategies for Māori	Key Research & Marketing Ltd and Te Papa Takaro O Te Arawa	2000	
3	A strategy for developing greater community responsibility for fire safety and prevention	CM Research	2000	
4	Risk assessment and cost benefit analysis of corridor smoke detectors in rest homes	Caldwell Consulting	2000	
5	Social and economic deprivation and fatal unintentional domestic fire incidents in New Zealand 1988-1998	University of Otago	2000	
6	Where in New Zealand have fatal fires occurred? Descriptive analysis of data 1986-1998	University of Otago	2000	
7	Follow-up survey of Auahi Whatatupato smoke alarm installation project in the Eastern Bay of Plenty	University of Otago	2000	
8	Improving the fire safety knowledge and practices of vulnerable groups: year one report	New Zealand Council for Education Research	2000	
9	Fire safety as an interactive phenomenon	Victoria University of Wellington	2001	
10	A pilot study to identify strategies to assess vegetation fire hazards	Chilton Saint James School	2001	
11	Climate and severe fire seasons - Part 1	National Institute of Water and Atmospheric Research (NIWA)	2001	
12	Scoping a social marketing programme for fire safety research in the community	McDermott Miller Ltd	2001	
13	Unintentional fire-related childhood injuries in Auckland resulting in hospitalisation or death 1989-1998	Bridget Kool	2001	
14	Interventions in Māori house fire mortality rates through innovations in healthy Māori housing solutions	International Research Institute for Māori and Indigenous Education	2001	
15	Analysis of vehicle fires using the In-Depth Fatal Accident Database	Bailey Partnership Ltd	2001	
16	Cooking, alcohol and unintentional fatal fires in New Zealand homes 1991-1997	University of Otago	2001	
17	The ecotoxicity of fire-water runoff Part I: review of the literature	Institute of Environmental Science and Research Limited	2001	
18	The ecotoxicity of fire-water runoff Part II: analytical results	Institute of Environmental Science and Research Limited	2001	
19	The ecotoxicity of fire-water runoff Part three: proposed framework for risk management	Institute of Environmental Science and Research Limited	2001	
20	A Flammability Guide for Some Common New Zealand Native Tree and Shrub Species	Forest Research (formerly NZ FRI)	2001	
21	Fire behaviour as a factor in forest and rural fire suppression	Forest Research (formerly NZ FRI)	2001	
22	Spatial prediction of wildfire hazard across New Zealand	Landcare Research	2001	
23	Developing a strategy to nurture, enhance, and expand the Volunteer Fire Brigade	UMR Research Limited	2001	

Report number	Title	Research provider	Year	Notes
24	Prediction of rural fire risk for the Wellington Region	Landcare Research	2002	
25	Vulnerability and the translation of safety knowledge	Victoria University of Wellington	2002	
26	School fires in New Zealand	New Zealand Institute of Economic Research and Corydon Consultants Ltd	2002	
27	Estimating risks from fire following earthquake	Institute of Geological and Nuclear Sciences Ltd	2002	
28	An economic assessment of industrial fires in New Zealand	Business and Economic Research Ltd (BERL)	2002	
29	Overview of fire-related mortality data for New Zealand 1991-1997	University of Otago	2001	
30	Fire incidents resulting in deaths of New Zealand children aged under 15 years 1991-1997	University of Otago	2001	
31	Fire incidents resulting in deaths of New Zealanders aged 15-64 years 1991-1997	University of Otago	2001	
32	Fire incidents resulting in deaths of New Zealanders aged 65 and older 1991-1997	University of Otago	2001	
33	Hospitalisation for non-fatal injury as a result of unintentional domestic fire incidents: New Zealand 1996-2000	University of Otago	2002	
34	The New Zealand volunteer fire service in 3 rural communities in Northland	University of Auckland	2002	
35	Costs and benefits of regulating fire safety performance of upholstered furniture in NZ	Building Research Advisory New Zealand (BRANZ) and the University of Otago	2003	
36	Recruitment and retention of women volunteers within the Fire Service	UMR Research Limited	2003	
37	Fire safety in small tourist accommodation businesses: working towards developing best practice models	University of Auckland	2003	
38	Fire following earthquake: identifying key issues for New Zealand	Wellington Lifelines Group	2002	
39	A fire danger climatology for New Zealand	Forest Research (formerly NZ FRI)	2003	
40	Impact on life safety of the Type 5 alarm	Connell Mott MacDonald	2003	
41	Peer review: costs and benefits of regulating fire safety performance of upholstered furniture in New Zealand	Business and Economic Research Ltd (BERL)	2003	
42	A framework for social research funded through the New Zealand Fire Service research fund	The Centre for Research, Evaluation and Social Assessment (CRESA)	2003	
43	Assessing and selecting high performing Fire Service recruits for the future	Cerno Limited	2003	
44	Modelling fire-spread in and around urban centres	Institute of Geological and Nuclear Sciences Ltd	2003	
45	Improving the fire performance of polystyrene insulated panel in New Zealand	Building Research Advisory New Zealand (BRANZ)	2004	
46	Adolescent fire setting: a NZ case-controlled study of risk factors for adolescent fire setting	University of Auckland	2004	

Report number	Title	Research provider	Year	Notes
47	Human behaviour contributing to unintentional residential fire deaths 1997-2003	Heimdall Consulting Ltd	2005	
48	Guidelines for identifying and preventing fire risks to heritage buildings and collections	Opus Consulting Ltd	2004	
49	Optimal mapping and interpretation of fire weather information	National Institute of Water and Atmospheric Research (NIWA)	2005	
50	Impact of climate change on long-term fire danger	National Institute of Water and Atmospheric Research (NIWA) and Forest Research (formerly NZ FRI)	2005	
51	Developing indicators of household risk and targeting interventions	Centre for Research, Evaluation and Social Assessment (CRESA)	2005	
52	Fire safety regulation for non-residential buildings	NZIER	2005	
53	The cost of managing the risk of fire in New Zealand	Business and Economic Research Ltd (BERL)	2005	
54	Analysis of the revised purposes of the Building Act 2004	Building Research Advisory New Zealand (BRANZ)	2005	
55	Spatial prediction of wildfire hazard across New Zealand: a significant upgrade	Landcare Research	2005	
56	Code of practice for fire fighting water supplies and indicative cost benefit analysis	NZIER	2004	
57	Handbook SNZ HB 4525 Fire Risk Management	Risk Management Ltd	2006	
58	Fire loss reduction in industrial buildings: risk cost benefit study	Building Research Advisory New Zealand (BRANZ)	2006	
59	The cost factors and profile of false and unwanted fire alarm activations in New Zealand	Auckland UniServices Ltd (wholly owned company of the University of Auckland)	2006	
60	Effective fire safety strategies for Pacific people	Niu Development Inc	2006	
61	Fire Safety Research Quantitative Research Report	TNS	2006	
62	International approaches to reducing deliberately lit fires: statistical data and fire investigations	Auckland UniServices Ltd (wholly owned company of the University of Auckland)	2006	
63	International approaches to reducing deliberately lit fires: prevention programmes	Auckland UniServices Ltd (wholly owned company of the University of Auckland)	2006	
64	Medium range forecasts of fire weather indices	Met Service	2005	
65	Work-related fatal and non-fatal fire injuries in New Zealand 1985-1999	Bridget Kool (New Zealand Environmental and Occupational Health Research Centre)	2001	
66	Managing non-operational environmental impacts of fire service activity	MWH New Zealand Ltd	2007	

Report number	Title	Research provider	Year	Notes
67	Compressed air foam project	Institute of Environmental Science and Research Limited	1999	not on website due to size contact research@fireandemergency.nz
68	NZFS research among people with physical and sensory disabilities	UMR Research Limited	2007	
69	Impact of Fire Service activity on the environment	Landcare Research	2007	
70	Operational 10-day forecasts of fire weather indices	Met Service	2007	
71	The risks, perceptions and experiences of fire among older people	Heimdall Consulting Ltd	2007	
72	Impact of climate variability on fire danger	National Institute of Water and Atmospheric Research (NIWA)	2007	
73	Climate and severe fire seasons: part II - New Zealand fire regions	National Institute of Water and Atmospheric Research (NIWA)	2002	
74	Fire Technology transfer note	Forest Research (formerly NZ FRI)	2000	
75	Climate and severe fire seasons: part III	National Institute of Water and Atmospheric Research (NIWA)	2002	
76	Climate and severe fire seasons: part IV	National Institute of Water and Atmospheric Research (NIWA)	2004	
77	An updated validation of seasonal fire weather climate outlooks	National Institute of Water and Atmospheric Research (NIWA)	2004	
78	House Foundations and earthquakes	Victoria University of Wellington	2007	
79	Value of statistical life	Business and Economic Research Ltd (BERL)	2007	
80	Urban fire spread models	Victoria University of Wellington and GNS Science	2008	
81	Evaluation of the Firewise programme for year one and two students	MartinJenkins (Martin, Jenkins & Associates Ltd)	2008	
82	Evaluation of home sprinkler systems	Building Research Advisory New Zealand (BRANZ)	2008	
83	Prediction of fire weather and fire danger	National Institute of Water and Atmospheric Research (NIWA)	2007	
84	Training for rural firefighters: motivators and impediments	Corydon Consultants Ltd	2008	not on website due to size contact research@fireandemergency.nz
85	Evaluation of the NZFSC programmes, promotions and research for Māori	Massey University (Te Ropu Whariki Research Group)	2009	
86	Developing a composite performance measure for the New Zealand Fire Service	BERL	2008	
87	Kitchen fire and advertising campaign research	UMR Research Limited	2008	
88	A review of existing fire safety in homes	CRESA	2009	

Report number	Title	Research provider	Year	Notes
89	Effectiveness of fire safety systems for use in quantitative risk assessments	Marsh and McLennan	2008	
90	Sustainability and carbon footprint reduction	PriceWaterhouseCoopers	2009	
91	The cost of repair to fire damaged buildings	Building Research Advisory New Zealand (BRANZ)	2009	
92	Measurement of rural fire fighter physiological workload	SCION	2008	
93	UFBA event evaluation: benchmarking their impact and identifying opportunities to improve	Synovate Ltd	2009	
94	UFBA conference evaluation: a benchmark of perceived benefits and an exploration of how to improve future conferences	Synovate Ltd	2009	
95	The application of data mining and statistical techniques to identify patterns and changes in fire events		2009	
96	Validation of the firefighter recruitment and selection programme		2009	
97	Sparking up an old flame: a process evaluation of the Fire Awareness and Intervention Programme (FAIP) in New Zealand		2008	
98	An outcome evaluation of New Zealand Fire Service Fire Awareness and Intervention Programme		2009	
99	The economic cost of wildfires		2009	
100	Describing the value of the contribution from the Volunteer Fire Brigade	PriceWaterhouseCoopers	2009	
101	A strategic review of the New Zealand Fire Service's incident data system	MartinJenkins (Martin, Jenkins & Associates Ltd)	2009	
102	Understanding the New Zealand Fire Service's contribution to non-fire outcomes	MartinJenkins (Martin, Jenkins & Associates Ltd)	2010	
103	Residential kitchen local fire protection - cost effectiveness analysis	Building Research Advisory New Zealand (BRANZ)	2010	
104	Assessing the impact of vegetation and house fires on greenhouse gas emissions		2010	
105	NZ fire behaviour toolkit: user guide and technical report	SCION	2008	
106	What impact has the change in building materials and design in housing had on the cost damage of fires	Building Research Advisory New Zealand (BRANZ)	2010	
107	Metadata analysis of the NZFS Commission Contestable Research Fund	BERL	2010	
108	Rural fire fighter exposure to fireground gases	SCION	2010	
109	The impact of changes in New Zealand's demographic profile on fire outcomes	BERL	2010	
110	Applying the conversion model to changing at risk groups attitudes towards fire safety	Research International	2010	
111	Sprinklers for community buildings and places of historical interest		2011	

Report number	Title	Research provider	Year	Notes
112	Alcohol and fire: a strategic review	BERL	2011	
113	Encouraging fire safety ownership effective methods for working with at risk rural communities		2011	Appendices available from Research at FENZ
114	Can vegetation flammability and wildfire hazard indices predict fire extent?	Manaaki Whenua Landcare Research	2011	not on website due to size contact research@fireandemergency.nz
115	Fire design for aging residential occupancies		2011	
116	Fire climate severity across New Zealand	SCION	2011	not on website due to size contact research@fireandemergency.nz
117	Project Re-Kindled	Research International	2011	not on website due to size contact research@fireandemergency.nz
118	Effectiveness of digital media and social networking for reaching at-risk groups	UMR Research Limited	2011	not on website due to size contact research@fireandemergency.nz
119	Changes in community self-reliance and implications for fire safety messages and emergency response	McDermott Miller Ltd	2011	
120	Te ahi kaa: keeping our Marae safe from fire		2011	not on website due to size contact research@fireandemergency.nz
121	Impact of emerging social change and technological developments on fire service operations	McDermott Miller Ltd	2012	
124	Fire system effectiveness in major buildings	Marsh Limited	2012	not on website due to size contact research@fireandemergency.nz
125	Developing a methodology for establishing a stronger line of sight between expenditure and outcomes	MartinJenkins (Martin, Jenkins & Associates Ltd)	2011	
126	The economic cost of fire in non-residential buildings	BERL	2012	
127	Change in high wind country fire hazard from wilding trees	SCION	2013	
128	Fire safety features in housing	Building Research Advisory New Zealand (BRANZ)	2013	
129	Evaluation of NZFS programmes targeted at years 7 & 8 and secondary schools	MartinJenkins (Martin, Jenkins & Associates Ltd)	2013	
130	Development of a micro-simulation statistical model for household fire risk identification	McDermott Miller Ltd	2016	
131	Delivery mechanisms for hard to reach groups	McDermott Miller Ltd	2013	
132	Get Out! Stay Out! Evaluation	SHORE and Whariki Research Centre	2014	
133	Minimum Fitness Recommendations for Rural Fire Personnel	SCION	2014	
134	Describing wildfire prone areas in the NZ context	SCION	2014	
135	Communicating fire safety messages to refugees and new migrants	Julie Warren and Associates	2014	

Report number	Title	Research provider	Year	Notes
136	Attitudes to fire safety in families with newborn babies	Litmus Limited	2014	
137	Risk factors and offending behaviours of young fire setters	Auckland UniServices Ltd (wholly owned company of the University of Auckland)	2013	
138	What motivates people in small rural communities to become volunteer rural firefighters?	Heathrose Research Limited	2013	
139	Exploring Digital Approaches for Improving Safety Behaviour in Older People	Litmus Limited	2013	
140	The value of fire stations and the management of relocations from a community perspective	Kaitiaki Research and Evaluation	2014	
141	Safe or Trapped?	Litmus Limited	2015	
142	Diversity in the community versus diversity versus diversity in the NZFS	Allen and Clarke	2015	
143	Scenario Tool for Allocating Resources (STAR)	Navigatus Consulting	2015	not on website due to size contact research@fireandemergency.nz
144	The prevalence and fire safety implications of Early Childhood Centres in multi-story buildings	Branz	2015	
145	Home Fire Safety Checks Evaluation Phase 2	EvaluationConsult	2015	
146	Evaluating effective methods of engaging school-leavers in adopting fire safety messages	Auckland UniServices Ltd	2015	
147	Home Fire Safety Checks Evaluation Phase 1	EvaluationConsult	2014	
148	Assessment of impacts of change in requirements for hand-operated fire-fighting equipment in non-residential buildings	Civic Futures	2016	
149	Building quality working relationships across the emergency services sector	Kaitiaki Research and Evaluation	2016	
150	Differentiating Strong and Struggling Volunteer Brigades	Ethos	2017	
151	Development of an integrated framework to assess after fire economic impacts	Scion	2016	
152	Literacy and numeracy competencies in volunteers	Family Centre	2016	
153	International best practice health, safety and wellbeing leadership in fire and emergency services	Litmus	2016	
154	Scoping Principle Factors and Parameters to Include in an Environmental Stewardship Model for Firefighting in New Zealand	ESR	2017	
156	Changing Public Behaviour: Enhanced and improved communication of fire danger	Scion	2017	
157	Engaging owners of life-style blocks in understanding and mitigating wildfire risk	ESR	2017	
158	Improving the safety culture and practices of Rural Fire Personnel in relation to near miss reporting	Heathrose Research Ltd	2017	
159	The voice of the family: research with families of volunteers	Litmus	2017	

Report number	Title	Research provider	Year	Notes
160	Environmental criteria in fire-fighting – Review and comparison of legislative, policy and operational environment for NZFS and overseas counterparts	ESR	2017	
161	Environmental Assessment of Existing Fire-fighting Foams in use by New Zealand Fire Service	ESR	2017	
162	After fire impacts on community in New Zealand	Skylight & Allen + Clarke	2018	
163	Fire safety in schools, kura, ECE centres and kohanga reo	NZ Council for Educational Research	2018	
164	Improving safety at controlled burns through land manager knowledge and practices	SCION	2018	
165	Evaluation of grass curing assessment methods for application in New Zealand	SCION	2018	
166	Ready to respond: Impact of illness, injury and death incidents on firefighter wellbeing	SHORE, Whariki Research Centre and Dr Pauline & Associates.	2018	
167	Unintentional domestic fire-related fatality in New Zealand: 2007-2014	University of Otago	2018	
168	Young people's perceptions of the firefighter role	LITMUS	2019	
169	Diversity in recruitment evidence review	Carol MacDonald (tactical)	2019	
170	Evidence review of effective reduction interventions for Māori whānau and communities	Shirley Simmonds (tactical)	2019	
171	Economic cost of unwanted alarms	BERL	2019	
172	Understanding how firefighters engage with learning technologies	LITMUS	2019	
173	Toxicity of building contents in building fires	BRANZ	2019	
174	Lithium batteries – What's the problem?	BRANZ	2020	
175	Assessing firefighting water supplies	University of Canterbury	2020	
176	Impact of live fire training on national training centre based instructors	Massey University	2020	
177	Inquiry on alternate water sources for firefighting	Morphum	2020	
178	Fatigue in firefighting and associated support roles	Sleep/Wake Centre, Massey University	2020	
179	Heads up: anyone for a promotion? Does Fire and Emergency have a challenge advancing firefighters into management roles?	University of Waikato	2021	
180	The New Zealand fire awareness and intervention programme: reach, uptake and barriers to engagement	Victoria University of Wellington	2021	
181	The use of open access satellite data to identify wildfire fuel types	Orbica	2021	
182	Factors contributing to spontaneous combustion of slash at skid sites	SCION	2020	
183	The Pigeon Valley Fire: a questionnaire study about the evacuation process	University of Canterbury, Massey University	2021	

Report number	Title	Research provider	Year	Notes
184	Understanding non-fatal fire related injuries in New Zealand: 2013-2017	University of Otago	2019	
185	Non-fatal fire related injuries: the lived experiences of those who have been involved in a house fire event	University of Otago	2021	
186	Smoke alarms: insights into fire-related experiences, motivation and actions	University of Otago	2022	
187	Understanding the volunteer journey	SHORE, Whariki Research Centre	2021	
188	Women's career progression at Fire and Emergency New Zealand: what's already known, and where are the gaps?	University of Waikato, Auckland University of Technology, Kin Strategy	2021	
189	Hawke's Bay recovery team pilot evaluation	FENZ	2022	
190	Thermal and carcinogenic consequences of live fire training on National Training Centre-based trainers	Toby Mündel and Samuel Keer	2022	
191	Engaging with Hapori Māori: a literature review	Te Paetawhiti Ltd	2022	
192	Testing the collective action model to lifestyle block owners fire reduction activities	ESR	2021	
193	The cost of fire in New Zealand	Sapere	2021	
194	Waiharara/Kaimaumu recovery research	Kantar Public	2022	
195	Readiness and recovery formative evaluation	Te Paetawhiti Ltd		
196	Can't be what you can't see: Progression and development of women firefighters	Dr Elaine Mossman	2023	
197	Preventing arson by adult offenders. A review of the research literature, and survey of international practice.	Dr Peter Johnston and Dr Elaine Mossman	2022	
198	Lead Teams Programme Evaluation Supporting the Leadership Development Framework	Scarlatti	2023	
199	Experiences and career expectations of Māori Firefighters	AIKO	2023	
200	Te Hiku intensification research report	BECA	2023	
201	Traffic calming and effective response needs	MRCagney (NZ) Ltd	2023	
202	An updated fire danger climatology for New Zealand	SCION	2023	ISBN issued by SCION
203	Barriers and enablers of recruitment and retention diversity	Martin Jenkins	2023	
204	Preliminary analysis of soil moisture data collected by the Fire Weather System weather station network	SCION	2023	
205	Climate and Wildfire Risk – Evidence Brief	Fire and Emergency	2023	

Report number	Title	Research provider	Year	Notes

