

National Headquarters Level 12 80 The Terrace PO Box 2133 Wellington New Zealand

Phone +64 4 496 3600

4 December 2018



Information Request – Data on the number of residential fires in properties with sprinkler systems - damage sustained and injuries from 2000 to 2017

I refer to your official information request dated 8 November 2018 asking for the following information:

- 1. Number of structure fires in residential properties with sprinklers from 2000 onwards
- 2. Number of injuries / fatalities in houses with sprinklers.

In accordance with the provisions of the Official Information Act 1982, I *enclose* the information you requested.

Please note that industrial action undertaken by New Zealand Professional Firefighters Union during late July 2009 to December 2009 and August 2011 to end March 2012 may have limited the information gathered, and now held by, Fire and Emergency New Zealand that is relevant to your request. It may consequently not be possible to draw meaningful comparisons between the information relating to the period(s) of industrial action and other periods for which a fuller range of information may be held.

Note also that this response (with your personal details removed) may be published on the Fire and Emergency website.

Yours sincerely

Bella Sutherland

Director, Office of the Chief Executive

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OIA 2018-7476 - Residential structure fire incidents and sprinkler statistics

Between 01 January 2000 and 30 November 2018

Structure fires in residential homes

Ir	ncident Count	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Struc	ture fire with	1,336	1,236	1,533	1,593	1,635	1,536	1,662	1,670	1,709	1,328	1,642	1,123	1,317	1,513	1,590	1,631	1,541	1,564	1,488	28,647
Struc	ture fire with no	2,845	2,295	2,799	2,432	2,402	2,146	2,140	2,028	2,112	1,616	2,073	1,510	1,601	1,750	1,657	1,623	1,574	1,579	1,341	37,523
		4,181	3,531	4,332	4,025	4,037	3,682	3,802	3,698	3,821	2,944	3,715	2,633	2,918	3,263	3,247	3,254	3,115	3,143	2,829	66,170

Residential structure fires with sprinklers

Sprinklers 2 3 5 7 10 12 22 11 11 13 21 9 8 12 20 11 14 15 12	Sprinklers 2 3 5 7 10 12 22 11 11 13 21 9 8 12 20 11 14 15 12	Flat, Home Unit, Apartment Sprinklers 2 3 5 7 10 12 22 11 11 13 21 9 8 12 20 11 14 15 12	Sprinklers 2 3 5 7 10 12 22 11 11 13 21 9 8 12 20 11 14 15 12	Residenti																					
Home Unit, Apartment Petector 36 101 131 235 247 236 233 241 272 229 333 207 313 299 339 319 399 389 382 Not Recorded 429 387 522 408 408 319 357 336 329 188 282 159 181 254 203 218 173 138 116 Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 548 586 552 510 House Sprinklers 3	Other Othe	Home Unit, Apartment Other Detector 36 101 131 235 247 236 233 241 272 229 333 207 313 299 339 319 399 389 382	Home Unit, Apartment Petector 36 101 131 235 247 236 233 241 272 229 333 207 313 299 339 319 399 382 Not Recorded 429 387 522 408 408 319 357 336 329 188 282 159 181 254 203 218 773 138 116 Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 548 586 552 510 House Sprinklers 3 7 7 7 7 16 16 16 12 14 27 12 11 14 28 16 21 16 8 Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 1082 1,117 1,192 1,352			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Detector Not Recorded A29 387 522 408 408 319 357 336 329 188 282 159 181 254 203 218 173 138 116	Not Recorded Not Recorded Apartment Apartment Not Recorded Apartment Apartment Apartment Not Recorded Apartment Apartment	Detector Not Recorded Appartment Not Recorded Appartment Not Recorded Appartment Appartment Not Recorded Appartment Appartment Appartment Not Recorded Appartment Appartme	Not Recorded Algorithment Apartment Not Recorded Algorithment Apartment Apartment Not Recorded Algorithment Algorithment	Home	-																			-	4,9
Recorded Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 548 586 552 510 5 House Sprinklers 3 7 7 7 16 16 12 14 27 12 11 14 26 16 21 16 8 Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 1,082 1,117 1,192 1,352 1	Recorded Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 648 586 552 510 9 House Sprinklers 3 7 7 7 16 16 12 14 27 12 11 14 26 16 21 16 8 Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 1,082 1,117 1,192 1,352 1	Recorded Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 648 586 552 510 9 House Sprinklers 3 7 7 7 16 16 12 14 27 12 11 14 28 16 21 16 8 Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 1,082 1,117 1,192 1,352 1	Recorded Total 467 491 658 650 665 567 612 588 612 430 636 375 502 565 562 548 586 552 510 House Sprinklers 3 7 7 7 16 16 12 14 27 12 11 14 28 16 21 16 8 Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1,008 1,082 1,117 1,192 1,352		Detector																	5	\subseteq		
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Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1,008 1,082 1,117 1,192 1,352 1	Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 1,082 1,117 1,192 1,352 1	Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1,008 1,082 1,117 1,192 1,352 1	Other Detector 107 271 396 829 831 796 799 774 815 737 985 747 817 957 1008 7,082 1,117 1,192 1,352				491	658							430			502	565	562	548	•			10
Detector	Detector	Detector	Detector	House																+ 20	16				
Not Recorded Total 3,604 2,769 3,278 2,539 2,534 2,312 2,375 2,320 2,382 1,763 2,067 1,499 1,588 1,727 1,857 1,608 1,391 1,383 959 1,701 1,001 1,001 1,000 1	Neceroted Total No. 1, 2, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	Ned recorded Total 3,614 2,769 3,275 2,538 2,534 2,312 2,375 2,320 2,382 1,763 2,067 1,499 1,583 1,727 1,057 1,688 1,391 1,385 959 1,391 1	Not recorded 1,3604 2,769 3,278 2,539 2,534 2,312 2,375 2,200 2,382 1,763 2,667 1,499 1,588 1,727 1,757 1,080 1,391 1,383 959 1,081 1,371 3,040 3,674 3,375 3,372 3,115 3,190 3,110 3,299 2,514 3,079 2,258 2,496 2,688 2,706 2,529 2,591 2,319 4,181 3,531 4,332 4,025 4,037 3,682 3,002 3,689 3,821 2,944 3,715 2,633 2,510 3,247 3,254 3,115 3,143 2,829		Detector																7,082	1,117	1,192	1,352	15
Total 3,714 3,040 3,674 3,375 3,372 3,115 3,190 3,110 3,209 2,514 3,079 2,258 2,416 2,588 2,685 2,706 2,529 2,591 2,319 4,181 3,531 4,332 4,025 4,037 3,682 3,802 3,698 3,821 2,944 3,715 2,633 2,918 3,263 3,247 3,254 3,115 3,143 2,829 (1,10)	Total 3,744 3,040 3,674 3,375 3,372 3,115 3,190 3,110 3,299 2,514 3,079 2,258 2,496 2,685 2,706 2,529 2,591 2,319 4,181 3,531 4,332 4,025 4,037 3,682 3,802 3,698 3,821 2,944 3,715 2,633 2,918 3,263 3,247 3,254 3,115 3,143 2,829 1	Total 3,714 3,040 3,674 3,375 3,372 3,115 3,190 3,110 3,299 2,514 3,075 2,258 2,496 2,898 2,855 2,706 2,529 2,391 2,319 4,181 3,531 4,332 4,025 4,037 3,682 3,002 3,608 3,821 2,944 3,715 2,633 3,247 3,254 3,115 3,143 2,829 4 3,145 2,143	Total 3,744 3,469 3,674 3,375 3,372 3,115 3,190 3,110 3,299 2,514 3,079 2,258 2,496 2,589 2,685 2,706 2,529 2,591 2,219 4,181 3,531 4,332 4,025 4,037 3,682 3,802 3,698 3,821 2,944 3,715 2,833 2,971 3,263 3,247 3,264 3,115 3,143 2,829		Not Recorded	3,604	2,769	3,278	2,539	2,534	2,312	2,375	2,320	2,382	1,763	2,067	1,499	1,588	1,727	1,657	1,608	1,391	1,383	959	3
4,181 3,531 4,332 4,029 4,031 3,682 3,698 3,621 2,944 3,715 2,533 2,518 3,263 3,241 3,254 3,115 3,143 2,523 1	4.101 3.531 4.322 4.323 3.002 3.002 3.000 3.02 2.944 3.115 2.533 2.911 3.234 3.115 3.143 2.029	4,101 3,531 4,322 4,025 4,031 3,002 3,002 3,000 3,021 2,944 3,115 3,253 3,241 3,254 3,115 3,143 2,029 1	and sold finder the official will be sold sold sold sold sold sold sold sold		Total	3,714	3,040	3,674	3,375	3,372	3,115	3,190	3,110	3,209	2,514	3,079	2,258	2,416	2,698						5
ader the Official Info	ased under the Official Info	aleased under the official line.	eleased under the Official Info			4,181	3,531	4,332	4,025	4,037	3,682	3,802	3,698	3,821	2,944	3,715	2,633	2,918	3,263	3,247	3,254	3,115	3,143	2,829	6
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OIA 2018-7476 - Injuries / fatalities in residential fires with sprinklers

Between 01 January 2000 and 30 November 2018

			2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	
Structure	Incident C	ount		2	5	6	5	6	17	11	10	13	25	9	11	15	25	13	17	21	13	224
fire with damage	Casualty	Fatality												1		1						2
	Count	Minor Injury							1				1		1			1			1	5
		Serious Injury				1	1	1	1				1		1	1	1	1				3
Structure	Incident C	ount	5	1		8	12	13	21	16	13	14	23	12	8	11	15	14	18	10	4	221
fire with no damage	Casualty Count	Minor Injury							1	1			1	1		1	1			1	1	8
		Serious Injury		1					1	1			1	1								6