

National Fire Incident Reporting System: 2002 to 2006 Data for One and Two Family Homes in Connecticut

Number of One and Two Family Homes in the State: 1,035,514

	Average Number of Fires per Year	Square Footage Affected per Year	Civilian Deaths per Year	Civilian Injuries per Year	Total Damage per Year (in \$2006)	Deaths per 1,000 Fires	Injuries per 1,000 Fires	Damage per Fire	Damage per Square Foot
Unconfined Fires in Homes with Sprinklers:									
Sprinkler Operated and was Effective	0.7	NA	0.0	0.0	\$659	0.0	0	\$1,014	NA
Sprinkler Operated, but was Not Effective	0.0	0	0.0	0.0	\$0	NA	NA	NA	NA
Fire Too Small to Activate Sprinkler	0.0	0	0.0	0.0	\$0	NA	NA	NA	NA
Sprinkler Failed to Operate	0.2	182	0.0	0.0	\$0	0.0	0	\$0	\$0.00
Sprinkler Operation Unknown	0.5	1,869	0.0	0.0	\$0	0.0	0	\$0	\$0.00
Total in Homes with Sprinklers	1.4	2,846	0.0	0.0	\$659	0.0	0	\$464	\$0.23
Unconfined Fires in Homes with Smoke Detectors but without Sprinklers:									
Subsection of Most Cases Where the Detector Worked									
Detector Powered by Battery Only	148	338,524	1.9	14.0	\$3,942,080	13.1	94	\$26,569	\$11.64
Detector Hardwired Only	19	53,936	0.5	0.2	\$446,021	24.2	11	\$23,134	\$8.27
Hardwire With Battery	1	1,408	0.0	0.0	\$11,909	0.0	0	\$12,152	\$8.46
Other Type of Power	136	370,091	0.0	10.9	\$4,519,980	0.0	80	\$33,118	\$12.21
Subtotal of Most Where Detector Worked	305	763,959	2.4	25.1	\$8,919,989	7.9	82	\$29,236	\$11.68
Detector Worked but Was Ignored	9	18,895	0.3	0.5	\$219,003	33.6	57	\$23,883	\$11.59
Detector Worked, Failed to Alert	11	26,702	0.2	1.0	\$344,729	20.5	89	\$31,113	\$12.91
Fire Too Small to Activate Detector	82	201,175	0.4	0.9	\$447,498	5.4	12	\$5,445	\$2.22
Detector Failed to Operate	88	197,932	1.2	10.2	\$2,505,066	13.6	117	\$28,600	\$12.66
Detector Operation Unknown	82	210,318	0.7	5.4	\$3,559,773	8.5	66	\$43,673	\$16.93
Total in Homes with Detectors but No Sprinklers	577	1,418,982	5.3	43.2	\$15,996,059	9.1	75	\$27,740	\$11.27
Unconfined Fires in Homes with No Detectors or Sprinklers	205	431,045	4.6	12.9	\$4,042,858	22.2	63	\$19,729	\$9.38
Unconfined Fires with Detector/Sprinkler Presence Unknown	395	685,479	4.3	15.5	\$8,019,634	10.9	39	\$20,308	\$11.70
Total Unconfined Fires	1,178	2,538,352	14.1	71.6	\$28,059,209	12.0	61	\$23,822	\$11.05
Per 1,000 Existing One & Two Family Units	1.14		0.0136	0.069	\$27,097				
Confined Fires in Homes	2,007	N/A	0.0	14.1	\$145,903	0.0	7	\$73	N/A
<i>For Comparison: Unconfined Fires per 1,000 Existing One & Two Family Units in the U.S.</i>	<i>1.08</i>		<i>0.0105</i>	<i>0.044</i>	<i>\$24,206</i>				

Total square footage is based on size of the main floor multiplied by the number of floors above ground. Dwellings with total square footage greater than 10,000 square feet are excluded from the calculations, under the assumption that they represent unrealistic outliers. Square footage calculations are not shown for confined fires, due to a high frequency of missing values for these observations. Total damage includes damage to both property and contents, but excludes outliers where property damage is more than \$10 million. "Unconfined Fires in Homes with Sprinklers" includes wet pipe, dry pipe, and other sprinkler systems; but not other types of suppression systems such as dry chemical. "Unconfined Fires in Homes with Smoke Detectors but Without Sprinklers" include homes with smoke detectors, combination heat and smoke detectors, or more than one type of fire detector. "Unconfined Fires with Detector/Sprinkler Presence Unknown" is a residual category. Most of the cases captured under this heading are homes where the presence of either sprinklers or detectors was listed as undetermined, but the category also includes relatively small numbers of homes with unusual types of fire detection and suppression systems.

Source: NAHB tabulation of data from the U.S. Fire Administration, National Fire Data Center.

Number of homes is the average number reported over the years 2002-2006 in the American Community Survey (U.S. Census Bureau).

Numbers each year are inflated to account for the self-reported share of fires missed by the NFIRS, ranging from a high of 35% in 2002 to a low of 6% in 2005 and 2006.

Damage numbers are adjusted for inflation using the annual Consumer Price Index for all items (U.S. Bureau of Labor Statistics)