



RESEARCH

Fire Service in the United States Trend Tables

March 2022

NFPA Research

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Number of Firefighters in the US, 1986-2019

Year	Total		Career		Volunteer	
	Numbers	Rate per 1,000 Population	Number	Rate per 1,000 Population	Number	Rate per 1,000 Population
1986	1,045,950	1.48	237,750	1.73	808,200	7.88
1987	1,060,000	2.57	243,200	1.73	816,800	8.05
1988	1,040,750	2.22	252,500	1.77	788,250	7.77
1989	1,020,700	3.05	250,600	1.75	770,100	7.45
1990	1,025,650	3.19	253,000	1.73	772,650	7.56
1991	1,033,600	6.22	261,800	1.73	771,800	7.61
1992	1,058,300	3.94	253,000	1.72	805,300	7.34
1993	1,055,050	4.09	259,650	1.73	795,400	7.25
1994	1,073,600	4.12	265,700	1.76	807,900	7.19
1995	1,098,850	4.18	260,850	1.70	838,000	7.42
1996	1,081,800	4.07	266,300	1.74	815,500	6.98
1997	1,079,050	4.03	275,700	1.73	803,350	7.12
1998	1,082,500	4.00	278,300	1.70	804,200	7.18
1999	1,065,150	3.90	279,900	1.69	785,250	6.93
2000	1,064,150	3.86	286,800	1.64	777,350	7.25
2001	1,078,300	3.85	293,600	1.70	784,700	7.04
2002	1,108,250	3.89	291,650	1.68	816,600	7.12
2003	1,096,900	3.77	296,850	1.67	800,050	7.05
2004	1,100,750	3.76	305,150	1.71	795,600	6.88
2005	1,136,650	3.82	313,300	1.68	823,650	7.30
2006	1,140,900	3.81	316,950	1.74	823,950	7.26
2007	1,148,000	3.81	323,350	1.74	825,450	7.29
2008	1,148,850	3.81	321,700	1.73	827,150	7.01
2009	1,148,100	3.81	335,950	1.72	812,150	7.27
2010	1,103,300	3.57	335,150	1.66	768,150	6.59
2011	1,100,450	3.54	344,050	1.69	756,400	6.37
2012	1,129,250	3.60	345,950	1.67	783,300	6.60
2013	1,140,750	3.60	354,600	1.67	786,150	6.68
2014	1,134,400	3.56	346,150	1.68	788,250	6.43
2015	1,160,450	3.36	345,600	1.54	814,850	6.71
2016	1,090,100	3.37	361,100	1.69	729,000	5.99
2017	1,056,200	3.24	373,600	1.80	682,600	5.80
2018	1,115,000	3.41	370,000	1.81	745,000	6.06
2019	1,080,800	3.29	358,00	1.74	722,800	5.89

Career firefighters include full-time uniform firefighter regardless of assignment (i.e., suppression, administrative, prevention/inspection, etc.). Career firefighters do not include career firefighters who work for the state or federal government or in private fire brigades. Volunteer firefighters include any active part-time (call or volunteer) firefighters.

Source: *US Fire Department Profile 2019*, Rita Fahy, Ben Evarts and Gary P. Stein, NFPA, December 2021.

Firefighter Deaths and Injuries by Year

Year	Firefighter Deaths	Firefighter Injuries
1977	157	112,540
1978	174	101,100
1979	126	95,780
1980	138	98,070
1981	136	103,340
1982	128	98,150
1983	114	103,150
1984	119	102,300
1985	128	100,900
1986	119	96,450
1987	132	102,600
1988	136	102,900
1989	118	100,700
1990	108	100,300
1991	108	103,300
1992	75	97,700
1993	80	101,500
1994	106	95,400
1995	98	94,500
1996	96	87,150
1997	99	85,400
1998	91	87,500
1999	113	88,500
2000	104	84,550
2001	443 ¹	82,250
2002	98	80,800
2003	107	78,750
2004	104	75,840
2005	87	80,100
2006	90	83,400
2007	106	80,100
2008	106	79,700
2009	82	78,150
2010	73	71,875

Firefighter Deaths and Injuries by Year (Continued)

Year	Firefighter Deaths	Firefighter Injuries
2011	62	70,090
2012	64	69,400
2013	98	65,880
2014	64	63,350
2015	68	68,085
2016	70	62,085
2017	60	58,835
2018	65	58,250
2019	48	60,825
2020	62 ²	64,875

¹This includes 340 firefighters at the World Trade Center on 09/11/01.

²There were an additional 78 deaths due to COVID.

Source: Rita F. Fahy and Jay T. Petrillo. *Firefighter Fatalities in the United States*. NFPA, October 2021 and previous reports in the series. Richard Campbell and Ben Evarts. *United States Firefighter Injuries*. NFPA, February 2022 and previous reports in the series.

US Firefighter Fatalities

Year	Total	Career	Volunteer	Non-Municipal*
1977	157	70	82	5
1978	174	65	101	8
1979	126	58	58	10
1980	138	61	69	8
1981	136	58	65	13
1982	128	51	67	10
1983	114	54	52	8
1984	119	43	59	17
1985	128	55	66	7
1986	119	50	55	14
1987	132	49	68	15
1988	136	43	81	12
1989	118	43	65	10
1990	108	26	62	20
1991	108	36	66	6
1992	75	24	44	7
1993	80	22	55	3
1994	106	35	38	33
1995	98	30	59	9
1996	96	27	65	4
1997	99	31	59	9
1998	91	33	49	9
1999	113	38	71	4
2000	104	29	58	17
2001	443**	365**	66	12
2002	98	29	51	18
2003	107	27	58	22
2004	104	28	64	12
2005	87	25	54	8
2006	90	23	47	20
2007	106	43	55	8
2008	106	27	61	18
2009	82	31	41	10
2010	73	25	45	3
2011	62	22	35	5
2012	64	23	30	11
2013	98	26	41	31
2014	64	23	34	7
2015	68	24	32	12
2016	70	19	40	11
2017	60	20	32	8
2018	65	25	35	5
2019	48	20	25	3
2020	62***	23	27	12

*Non-municipal firefighters are those who are not employed by local, public fire departments. They can be full-time, paid firefighters, or not. They can include employees of forestry agencies, industrial fire brigades, the military, the Federal government, prison crews and impressed civilians.

**Includes 340 firefighters at the World Trade Center, September 11, 2001.

***There were an additional 78 deaths due to COVID.

Source: *Firefighter Fatalities in the United States*, Rita F. Fahy and Jay T. Petrillo, NFPA, October 2021 and previous reports in the series.

Firefighter Activities, Injuries and Fatalities

Year	On Scene at Fire Incidents			On Scene at Non-Fire Incidents		
	Calls	Firefighter Fatalities	Firefighter Injuries	Calls	Firefighter Fatalities	Firefighter Injuries
1981	2,893,500	75	67,510	7,701,000	8	9,600
1982	2,538,000	67	61,370	8,010,000	8	9,385
1983	2,326,500	61	61,740	8,606,500	12	11,105
1984	2,343,000	59	62,700	8,727,000	8	10,630
1985	2,371,000	63	61,255	9,517,000	9	12,500
1986	2,271,500	48	55,990	9,618,500	6	12,545
1987	2,330,000	54	57,755	9,907,500	12	13,940
1988	2,436,500	65	61,790	10,871,500	10	12,325
1989	2,115,000	59	58,250	11,294,500	6	12,580
1990	2,019,000	48	57,100	11,688,500	17	14,200
1991	2,041,500	53	55,830	12,515,000	8	15,065
1992	1,964,500	38	52,290	12,720,000	4	14,645
1993	1,952,500	35	52,885	13,366,000	8	16,675
1994	2,054,500	62	52,875	14,072,500	7	11,810
1995	1,965,500	42	50,640	14,426,000	12	13,500
1996	1,975,000	32	45,725	15,528,000	8	12,630
1997	1,795,000	41	40,920	16,162,500	12	14,880
1998	1,755,500	40	43,080	16,997,500	15	13,960
1999	1,823,000	57	45,550	17,844,000	10	13,565
2000	1,708,000	39	43,065	18,812,000	9	13,660
2001	1,734,500	378*	41,395	19,231,000	2	14,140
2002	1,687,500	46	37,860	19,616,000	10	15,095
2003	1,584,500	29	38,045	20,821,500	9	13,855
2004	1,550,500	30	36,880	21,066,000	9	13,150
2005	1,602,000	25	41,950	21,649,500	4	12,250
2006	1,642,500	37	44,210	22,827,500	6	13,090
2007	1,557,500	37	38,340	23,777,000	8	15,435
2008	1,451,500	29	36,595	23,801,000	11	15,745
2009	1,348,500	27	32,205	25,185,500	10	15,455
2010	1,331,500	22	32,675	26,873,500	5	13,355
2011	1,389,500	30	30,505	28,708,500	5	14,905
2012	1,375,000	21	31,490	30,479,000	4	13,820
2013	1,240,000	57	29,760	30,404,500	7	12,535
2014	1,298,000	22	27,015	30,346,500	9	14,595
2015	1,345,500	24	29,130	32,257,000	10	14,320

Firefighter Activities, Injuries and Fatalities (Continued)

Year	On Scene at Fire Incidents		On Scene at Non-Fire Incidents			
	Calls	Firefighter Fatalities	Firefighter Injuries	Calls	Firefighter Fatalities	Firefighter Injuries
2016	1,342,000	15	24,325	33,978,000	10	12,780
2017	1,319,500	17	24,495	33,364,000	11	12,240
2018	1,318,500	25	22,975	35,428,000	6	11,625
2019	1,291,500	13	23,825	35,980,500	9	14,150
2020	1,388,500	20	22,450	35,027,500	6	13,650

*This includes 340 firefighters at the World Trade Center, September 11, 2001.

Numbers of calls and firefighter injuries are estimates from NFPA's National Fire Experience Survey. Numbers of firefighter deaths are taken from the annual NFPA tracking of all firefighter deaths.

Source: *Firefighter Fatalities in the United States*, Rita F. Fahy and Jay T. Petrillo, NFPA, October 2021 and previous reports in the series.

Firefighter Fatalities by Type of Duty

Year	Total	Firefighting Fireground	Responding Returning	On Scene at Non- Fire Calls	Training	Other On-Duty
1977	157	78 (49.7%)	41 (26.1%)	14 (8.9%)	10 (6.4%)	14 (8.9%)
1978	174	84 (48.3%)	48 (27.6%)	20 (11.5%)	5 (2.9%)	17 (9.8%)
1979	126	83 (65.9%)	21 (16.7%)	9 (7.1%)	3 (2.4%)	10 (7.9%)
1980	138	74 (53.6%)	37 (26.8%)	9 (6.5%)	4 (2.9%)	14 (10.1%)
1981	136	75 (55.1%)	35 (25.7%)	8 (5.9%)	7 (5.1%)	11 (8.1%)
1982	128	67 (52.3%)	40 (31.3%)	8 (6.3%)	6 (4.7%)	7 (5.5%)
1983	114	61 (53.5%)	26 (22.8%)	12 (10.5%)	4 (3.5%)	11 (9.6%)
1984	119	59 (49.6%)	37 (31.1%)	8 (6.7%)	3 (2.5%)	12 (10.1%)
1985	128	63 (49.2%)	33 (25.8%)	9 (7.0%)	6 (4.7%)	17 (13.3%)
1986	119	48 (40.3%)	42 (35.3%)	6 (5.0%)	6 (5.0%)	17 (14.3%)
1987	132	54 (40.9%)	37 (28.0%)	12 (9.1%)	17 (12.9%)	12 (9.1%)
1988	136	65 (47.8%)	39 (28.7%)	10 (7.4%)	11 (8.1%)	11 (8.1%)
1989	118	59 (50.0%)	29 (24.6%)	6 (5.1%)	12 (10.2%)	12 (10.2%)
1990	108	48 (44.4%)	24 (22.2%)	17 (15.7%)	8 (7.4%)	11 (10.2%)
1991	108	53 (49.1%)	26 (24.1%)	8 (7.4%)	14 (13.0%)	7 (6.5%)
1992	75	38 (50.7%)	21 (28.0%)	4 (5.3%)	5 (8.0%)	7 (8.0%)
1993	80	35 (43.8%)	21 (26.3%)	8 (10.0%)	7 (8.8%)	9 (11.3%)
1994	106	62 (58.5%)	19 (17.9%)	7 (6.6%)	7 (6.6%)	11 (10.4%)
1995	98	42 (42.9%)	32 (32.7%)	12 (12.2%)	4 (4.1%)	8 (8.2%)
1996	96	32 (33.3%)	32 (33.3%)	8 (8.3%)	8 (8.3%)	16 (16.7%)
1997	99	41 (41.4%)	27 (27.3%)	12 (12.1%)	7 (7.1%)	12 (12.1%)
1998	91	40 (44.0%)	17 (18.7%)	15 (16.5%)	11 (12.1%)	8 (8.8%)
1999	113	57 (50.4%)	32 (28.3%)	10 (8.9%)	4 (3.5%)	10 (8.9%)
2000	104	39 (37.5%)	24 (23.1%)	9 (8.7%)	14 (13.5%)	18 (17.3%)
2001*	443	38* (36.9%)	26 (25.2%)	2 (1.9%)	12 (11.7%)	25 (24.3%)
2002	98	46 (46.9%)	19 (19.4%)	10 (12.2%)	11 (11.2%)	12 (12.2%)
2003	107	29 (27.1%)	38 (35.5%)	9 (8.4%)	12 (11.2%)	19 (17.8%)
2004	104	30 (28.8%)	36 (34.6%)	9 (8.7%)	12 (11.5%)	17 (16.3%)
2005	87	25 (28.7%)	26 (29.9%)	4 (4.6%)	11 (12.6%)	21 (24.1%)
2006	90	37 (41.1%)	19 (21.1%)	6 (6.7%)	8 (8.9%)	20 (22.2%)
2007	106	37 (34.9%)	31 (29.2%)	8 (7.5%)	13 (12.3%)	17 (16.0%)
2008	106	29 (27.4%)	40 (37.7%)	11 (10.4%)	8 (7.5%)	18 (17.0%)
2009	82	27 (32.9%)	20 (24.4%)	10 (12.2%)	11 (13.4%)	14 (17.1%)

Firefighter Fatalities by Type of Duty (Continued)

Year	Total	Firefighting Fireground	Responding Returning	On Scene at Non- Fire Calls	Training	Other On-Duty
2010	73	22 (30.1%)	18 (24.7%)	5 (6.8%)	11 (15.1%)	17 (23.3%)
2011	62	30 (48.4%)	10 (16.1%)	5 (8.1%)	7 (11.3%)	10 (16.1%)
2012	64	21 (33.0%)	19 (30.0%)	4 (6.0%)	8 (13.0%)	12 (19.0%)
2013	98	57 (58.2%)	17 (17.3%)	7 (7.1%)	7 (7.1%)	10 (10.2%)
2014	64	22 (34.4%)	11 (17.2%)	9 (14.1%)	8 (12.5%)	14 (21.9%)
2015	68	24 (35.3%)	11 (16.2%)	10 (14.7%)	9 (13.2%)	14 (20.6%)
2016	70	15 (21.4%)	17 (24.3%)	10 (14.3%)	10 (14.3%)	18 (25.7%)
2017	60	17 (28.3%)	9 (15.0%)	11 (18.3%)	10 (16.7%)	13 (21.7%)
2018	65	25 (38.5%)	10 (15.4%)	6 (9.2%)	11 (16.9%)	13 (20.0%)
2019	48	13 (27.1%)	9 (18.8%)	9 (18.8%)	5 (10.4%)	12 (25.0%)
2020	62	20 (32.3%)	18 (29.0%)	6 (9.7%)	6 (9.7%)	12 (19.4%)

These figures are based on NFPA's annual tracking of all firefighter deaths. Some figures have been updated since the publication of the reports for those years.

*Percentage breakdowns do not include the 340 fireground deaths at the World Trade Center, September 11, 2001.

Source: *Firefighter Fatalities in the United States*, Rita F. Fahy and Jay T. Petrillo, NFPA, October 2021 and previous reports in the series.

Firefighter Fatalities by Cause and Nature of Injury 2020

Cause of Injury	Fatalities	Percentage
Overexertion/stress/medical	34	54.8%
Crashes	14	22.6%
Structural collapse	4	6.5%
Lost inside	2	3.2%
Fatal assault	2	3.2%
Caught underwater	1	1.6%
Overdose	1	1.6%
Fell	1	1.6%
Rapid fire progress/explosion	1	1.6%
Struck by vehicles	1	1.6%
Extreme weather	1	1.6%
Total	62	100.0%

Nature of Injury	Fatalities	Percentage
Sudden cardiac death	29	46.8%
Internal trauma/crushing	15	24.2%
Asphyxia*	5	8.1%
Drowning	3	4.8%
Stroke	3	4.8%
gunshot	2	3.2%
Burns	2	3.2%
Suicide	1	1.6%
Crushing	1	1.6%
Overdose	1	1.6%
Total	62	100.0%

Source: *Firefighter Fatalities in the United States*, Rita F. Fahy and Jay T. Petrillo, NFPA, October 2021 and previous reports in the series.

* Includes smoke inhalation and mechanical/positional asphyxia

Firefighter Fireground Injuries by Nature of Injury

Year	Total	Strain, sprain	Wound, cut, dislocation, fracture	Smoke, gas inhalation or respiratory, Distress, eye irritation(other)	Burns and smoke inhalation	Fire or chemical burns	Heart attack, stroke	Thermal stress	Other
1981	67,510	16,530	20,455	17,800	N/A	7,545	300	N/A	4,880
1982	61,370	14,955	16,450	17,035	N/A	5,990	315	N/A	6,625
1983	61,740	15,415	17,470	6,495	N/A	6,470	370	N/A	5,520
1984	62,700	16,870	16,295	14,310	N/A	6,640	430	3,990	4,165
1985	61,255	16,545	15,435	14,205	N/A	6,215	230	4,520	4,105
1986	55,990	15,455	15,200	12,075	N/A	6,270	360	3,260	3,370
1987	57,755	16,565	14,770	12,945	N/A	5,770	240	4,260	3,205
1988	61,790	20,695	14,205	11,225	N/A	6,475	260	4,955	3,975
1989	58,250	22,360	13,625	11,245	N/A	4,815	255	3,040	2,910
1990	57,100	20,885	13,120	11,120	N/A	5,180	235	3,505	3,055
1991	55,830	19,655	11,285	11,170	N/A	4,960	325	4,630	3,805
1992	52,290	19,020	11,920	10,140	N/A	5,105	335	2,775	2,995
1993	52,885	18,810	11,910	8,685	N/A	5,990	295	3,430	3,765
1994	52,875	18,855	12,275	9,290	N/A	5,470	330	3,160	3,495
1995	50,640	19,280	11,680	8,840	N/A	4,890	345	2,935	2,670
1996	45,725	17,455	9,865	8,135	N/A	4,360	300	2,720	2,890
1997	40,920	15,590	9,710	6,085	N/A	3,755	205	2,840	2,735
1998	43,080	18,735	9,010	5,960	N/A	4,040	300	2,760	2,275
1999	45,550	17,925	9,880	7,050	N/A	4,060	395	3,570	2,670
2000	43,065	19,500	8,695	5,945	N/A	3,850	250	2,175	2,650
2001	41,395	16,410	10,355	3,925	1,190	3,255	310	2,315	3,635
2002	37,860	15,735	9,200	2,790	975	3,205	345	2,415	3,195
2003	38,045	16,830	9,195	2,890	980	2,765	235	2,145	3,005
2004	36,880	17,890	7,370	2,915	585	2,860	290	1,875	3,095
2005	41,950	18,620	8,570	3,390	750	2,930	315	2,480	4,895
2006	44,210	20,655	8,705	3,755	575	3,070	350	2,280	4,820
2007	38,340	17,280	8,195	2,710	695	2,650	395	2,410	4,005
2008	36,595	17,855	6,685	2,865	540	2,270	245	2,075	4,060
2009	32,205	15,525	5,005	2,435	445	2,280	375	1,865	4,275

Firefighter Fireground Injuries by Nature of Injury (Continued)

Year	Total	Strain, sprain	Wound, cut, dislocation, fracture	Smoke, gas inhalation or respiratory, Distress, eye irritation(other)	Burns and smoke inhalation	Fire or chemical burns	Heart attack, stroke	Thermal stress	Other
2010	32,675	17,250	5,505	1,660	555	1,940	175	2,350	3,240
2011	30,505	15,460	4,435	2,025	605	1,905	255	2,115	2,970
2012	31,490	17,375	4,470	1,890	270	1,820	265	1,825	3,575
2013	29,760	16,470	4,940	1,900	135	1,530	220	1,385	3,180
2014	27,015	14,210	4,465	2,190	420	1,390	210	1,250	2,880
2015	29,130	15,345	4,665	1,900	410	1,515	145	2,000	3,150
2016	24,325	11,125	4,050	2,200	625	1,425	225	1,750	2,925
2017	24,495	11,670	4,140	2,150	1,290	980	120	1,300	2,845
2018	22,975	8,725	3,175	3,475	1,150	1,175	300	2,200	2,775
2019	23,825	9,725	3,800	3,075	1,100	1,125	200	2,225	2,575
2020	22,450	8,975	3,350	3,000	450	1,050	250	1,825	3,550

Prior to 1981, somewhat different categories were used. Wound, cut also includes bleeding, bruises. Dislocations and fractures can be provided separately from wounds and cuts. From 2001 onward, the category eye irritation was dropped and the category burns and smoke inhalation was added.

Source: *Firefighter Injuries in the United States*, Richard Campbell and Ben Evarts, NFPA.

Firefighter Injuries by Type of Duty

Year	Total	Firefighting, fireground		Responding, returning		On scene at non-fire calls		Training		Other on-duty	
1981	103,340	67,510	(65.3%)	4,945	(4.8%)	9,600	(9.3%)	7,090	(6.9%)	14,195	(13.7%)
1982	98,150	61,370	(62.5%)	5,320	(5.4%)	9,385	(9.6%)	6,125	(6.2%)	15,950	(16.3%)
1983	103,150	61,740	(59.9%)	5,865	(5.7%)	11,105	(10.8%)	6,755	(6.5%)	17,685	(17.1%)
1984	102,300	62,700	(61.3%)	5,845	(5.7%)	10,630	(10.4%)	6,840	(6.7%)	16,285	(15.9%)
1985	100,900	61,255	(60.7%)	5,280	(5.2%)	12,500	(12.4%)	6,050	(6.0%)	15,815	(15.7%)
1986	96,450	55,990	(58.1%)	4,665	(4.8%)	12,545	(13.0%)	6,395	(6.6%)	16,855	(17.5%)
1987	102,600	57,755	(56.3%)	5,075	(4.9%)	13,940	(13.6%)	6,075	(5.9%)	19,755	(19.3%)
1988	102,900	61,790	(60.0%)	5,080	(4.9%)	12,325	(12.0%)	5,840	(5.7%)	17,865	(17.4%)
1989	100,700	58,250	(57.8%)	6,000	(6.0%)	12,580	(12.5%)	6,010	(6.0%)	17,860	(17.7%)
1990	100,300	57,100	(56.9%)	6,115	(6.1%)	14,200	(14.2%)	6,630	(6.6%)	16,255	(16.2%)
1991	103,300	55,830	(54.0%)	5,355	(5.2%)	15,065	(14.6%)	6,600	(6.4%)	20,450	(19.8%)
1992	97,700	52,290	(53.5%)	5,580	(5.7%)	14,645	(15.0%)	7,045	(7.2%)	18,140	(18.6%)
1993	101,500	52,885	(52.1%)	5,595	(5.5%)	16,675	(16.4%)	6,545	(6.5%)	19,800	(19.5%)
1994	95,400	52,875	(55.4%)	5,930	(6.2%)	11,810	(12.4%)	6,780	(7.1%)	18,005	(18.9%)
1995	94,500	50,640	(53.6%)	5,230	(5.5%)	13,500	(14.3%)	7,275	(7.7%)	17,855	(18.9%)
1996	87,150	45,725	(52.5%)	6,315	(7.2%)	12,630	(14.5%)	6,200	(7.1%)	16,280	(18.7%)
1997	85,400	40,920	(47.9%)	5,410	(6.3%)	14,880	(17.4%)	6,510	(7.6%)	17,680	(20.7%)
1998	87,500	43,080	(49.2%)	7,070	(8.1%)	13,960	(16.0%)	7,055	(8.1%)	16,335	(18.7%)
1999	88,500	45,550	(51.5%)	5,890	(6.7%)	13,565	(15.5%)	7,705	(8.7%)	15,790	(17.8%)
2000	84,500	43,065	(51.0%)	4,700	(5.6%)	13,660	(16.2%)	7,400	(8.8%)	15,725	(18.6%)
2001	82,250	41,395	(50.3%)	4,640	(5.6%)	14,140	(17.2%)	6,915	(8.4%)	15,160	(18.4%)
2002	80,800	37,860	(46.9%)	5,805	(7.2%)	15,095	(18.7%)	7,600	(9.4%)	14,440	(17.9%)
2003	78,750	38,045	(48.3%)	5,200	(6.6%)	13,855	(17.6%)	7,100	(9.0%)	14,550	(18.5%)
2004	75,840	36,880	(48.6%)	4,840	(6.4%)	13,150	(17.3%)	6,720	(8.9%)	14,250	(18.8%)
2005	80,100	41,950	(52.4%)	5,455	(6.8%)	12,250	(15.3%)	7,120	(8.9%)	13,325	(16.6%)
2006	83,400	44,210	(53.0%)	4,745	(5.7%)	13,090	(15.7%)	7,665	(9.2%)	13,690	(16.4%)
2007	80,100	38,340	(47.9%)	4,925	(6.1%)	15,435	(19.3%)	7,735	(9.7%)	13,665	(17.1%)
2008	79,700	36,595	(46.0%)	4,965	(6.2%)	15,745	(19.8%)	8,145	(10.2%)	14,250	(17.9%)
2009	78,150	32,205	(41.2%)	4,965	(6.4%)	15,455	(19.8%)	7,935	(10.2%)	17,590	(22.5%)
2010	71,875	32,675	(45.4%)	4,380	(6.1%)	13,355	(18.6%)	7,275	(10.1%)	14,190	(19.7%)

Firefighter Injuries by Type of Duty (Continued)

Year	Total	Firefighting, fireground		Responding, returning		On scene at non-fire calls		Training		Other on-duty	
2011	70,090	30,505	(43.5%)	3,870	(5.6%)	14,905	(21.5%)	7,515	(10.8%)	13,295	(19.2%)
2012	69,400	31,490	(45.4%)	4,190	(6.0%)	12,760	(18.4%)	7,140	(10.3%)	13,820	(19.9%)
2013	65,880	29,760	(45.2%)	4,015	(6.0%)	12,535	(19.0%)	7,770	(11.79%)	11,800	(17.9%)
2014	63,350	27,015	(42.5%)	4,165	(6.6%)	14,595	(23.0%)	6,880	(10.7%)	10,695	(16.9%)
2015	68,085	29,130	(42.7%)	3,800	(5.5%)	14,320	(21.0%)	7,560	(11.1%)	13,275	(19.4%)
2016	62,085	24,325	(39.2%)	5,200	(8.4%)	12,780	(13.7%)	8,480	(13.7%)	11,300	(18.2%)
2017	58,835	24,495	(41.6%)	4,555	(7.7%)	12,240	(20.8%)	8,380	(14.2%)	9,165	(15.6%)
2018	58,250	22,975	(39.4%)	4,150	(7.1%)	11,625	(20.0%)	8,175	(14.0%)	11,325	(19.4%)
2019	60,825	23,825	(39.2%)	4,100	(6.7%)	14,150	(23.3%)	8,175	(13.4%)	10,575	(17.4%)
2020	64,875	22,450	(34.6%)	4,975	(7.7%)	13,650	(21.0%)	7,550	(11.6%)	16,250	(25.0%)

Prior to 1981, the categories were somewhat different.

Source: *Firefighter Injuries in the United States*, Richard Campbell and Ben Evarts, NFPA.

Number of US Fire Departments

Year	Total	All Career	Mostly Career	Mostly Volunteer	All Volunteer
1986	29,840	1,999	1,044	3,640	23,157
1987	29,741	1,683	1,335	3,635	23,088
1988	30,245	1,729	1,405	3,908	23,203
1989	30,315	1,799	1,303	3,878	23,335
1990	30,391	1,949	1,338	4,000	23,104
1991	30,587	2,017	1,257	4,162	23,151
1992	30,562	1,843	1,217	4,377	23,125
1993	30,528	1,646	1,342	4,378	23,162
1994	30,495	1,778	1,448	4,400	22,869
1995	31,197	1,831	1,660	4,581	23,125
1996	31,503	1,872	1,380	4,863	23,388
1997	30,665	1,979	1,490	4,808	22,388
1998	31,114	2,028	1,602	4,848	22,636
1999	30,436	1,752	1,639	4,651	22,394
2000	30,339	2,178	1,667	4,523	21,971
2001	30,020	1,928	1,539	4,671	21,882
2002	30,310	2,044	1,480	4,886	21,900
2003	30,542	2,018	1,582	5,271	21,671
2004	30,400	1,917	1,242	4,084	23,157
2005	30,300	2,087	1,766	4,902	21,575
2006	30,635	2,321	1,731	5,134	21,449
2007	30,185	2,263	1,765	4,989	21,168
2008	30,170	2,315	1,790	4,830	21,235
2009	30,165	2,457	1,752	5,099	20,857
2010	30,125	2,495	1,860	5,290	20,480
2011	30,145	2,550	1,865	5,530	20,200
2012	30,100	2,610	1,995	5,445	20,050
2013	30,052	2,477	1,971	5,797	19,807
2014	29,980	2,440	2,045	5,580	19,915
2015	29,727	2,651	1,893	5,421	19,762
2016	29,710	2,775	2,048	5,451	19,436
2017	29,819	2,785	2,316	5,405	19,313
2018	29,705	3,009	2,368	5,206	19,122
2019	29,537	2,789	2,533	5,148	19,067

A fire department is a public or private organization that provides fire prevention, fire suppression and associated emergency and non-emergency services to a jurisdiction such as a county, municipality, or organized fire district.

Source: *US Fire Department Profile 2019*, Rita Fahy, Ben Evarts and Gary P. Stein, NFPA, December 2021.

Number of Fire Stations, Pumpers, Other Suppression Vehicles and Aerial Apparatus

Year	US Fire Stations	Pumpers >1,000 gpm	Other Suppression Vehicles*	Aerial Apparatus
1995-1997	48,850	68,300	---	6,450
1996-1998	51,000	69,150	---	6,450
1997-1999	52,100	69,000	---	6,300
1998-2000	49,200	68,200	---	6,400
1999-2001	51,500	68,000	---	6,500
2000-2002	50,900	67,950	---	6,300
2001-2003	51,650	68,950	---	6,500
2002-2004	51,450	67,800	---	6,500
2003-2005	52,950	68,950	---	6,600
2004-2006	53,200	69,300	---	6,700
2005-2007	51,900	68,050	74,350	6,750
2006-2008	52,400	68,200	75,300	6,725
2007-2009	52,050	68,400	74,250	6,750
2008-2010	51,300	66,800	72,800	6,800
2009-2011	55,400	67,000	73,800	6,900
2010-2012	51,650	66,900	74,000	6,900
2011-2013	51,150	69,150	76,300	7,000
2012-2014	58,150	70,550	81,000	7,200
2013-2015	58,750	71,800	79,050	7,300
2015-2017	51,000	66,400	71,900	7,200
2016-2018	57,500	72,100	80,900	7,400
2017-2019	57,000	71,800	80,600	7,500

* Other suppression vehicles include apparatus with pumps less than 1,000 gpm, hose wagons, brush fire vehicles, tankers, etc.

Source: *US Fire Department Profile 2019*, Rita Fahy, Ben Evarts and Gary P. Stein, NFPA, December 2021.

Fire Department Calls by Type of Incident by Year

Year	Total	Fires	Medical Aid or Rescue	False Alarms	Mutual Aid	Hazardous Material Responses	Other Hazardous Responses	All Other Responses
1980	10,819,000	2,988,000	5,045,000	896,500	274,000	1,615,500*	n/a	n/a
1981	10,594,500	2,893,500	5,019,000	788,000	349,500	1,544,500*	n/a	n/a
1982	10,548,000	2,538,000	5,258,000	853,500	346,500	1,552,000*	n/a	n/a
1983	10,933,000	2,326,500	5,660,000	979,500	353,000	1,614,000*	n/a	n/a
1984	11,070,000	2,343,000	5,735,000	972,000	413,500	1,606,000*	n/a	n/a
1985	11,888,000	2,371,000	6,467,000	936,500	389,500	1,724,000*	n/a	n/a
1986	11,890,000	2,271,500	6,437,500	992,500	441,000	171,500	318,000	1,258,000
1987	12,237,500	2,330,000	6,405,000	1,238,500	428,000	193,000	315,000	1,328,000
1988	13,308,000	2,436,500	7,169,500	1,404,500	490,500	204,000	333,000	1,270,000
1989	13,409,500	2,115,000	7,337,000	1,467,000	500,000	207,000	381,500	1,402,000
1990	13,707,500	2,019,000	7,650,000	1,476,000	486,500	210,000	423,000	1,443,000
1991	14,556,500	2,041,500	8,176,000	1,578,500	494,000	221,000	428,500	1,617,000
1992	14,684,500	1,964,500	8,263,000	1,598,000	514,000	220,500	400,000	1,724,500
1993	15,318,500	1,952,500	8,743,500	1,646,500	542,000	245,000	432,500	1,756,500
1994	16,127,000	2,054,500	9,189,000	1,666,000	586,500	250,000	432,500	1,948,500
1995	16,391,500	1,965,500	9,381,000	1,672,500	615,500	254,500	469,500	2,033,000
1996	17,503,000	1,975,000	9,841,500	1,816,500	688,000	285,000	536,500	2,360,500
1997	17,957,500	1,795,000	10,483,000	1,814,500	705,500	271,500	498,500	2,389,500
1998	18,753,000	1,755,500	10,936,000	1,956,000	707,500	301,000	559,000	2,538,000
1999	19,667,000	1,823,000	11,484,000	2,039,000	824,000	297,500	560,000	2,639,500
2000	20,520,000	1,708,000	12,251,000	2,126,500	864,000	319,000	543,500	2,708,000
2001	20,965,500	1,734,500	12,331,000	2,157,500	838,500	381,500	605,000	2,917,500
2002	21,303,500	1,687,500	12,903,000	2,116,000	888,500	361,000	603,500	2,744,000
2003	22,406,000	1,584,500	13,631,500	2,189,500	987,000	349,500	660,500	3,003,500
2004	22,616,500	1,550,500	14,100,000	2,106,000	984,000	354,000	671,000	2,851,000
2005	23,251,500	1,602,000	14,373,500	2,134,000	1,091,000	375,000	667,000	3,009,000
2006	24,470,000	1,642,500	15,062,500	2,119,500	1,159,500	388,500	659,000	3,438,500
2007	25,334,500	1,557,500	15,784,000	2,208,500	1,109,500	395,500	686,500	3,593,000
2008	25,252,500	1,451,500	15,767,500	2,241,500	1,214,500	394,500	697,500	3,485,500
2009	26,534,500	1,348,500	17,104,000	2,177,000	1,296,000	397,000	625,500	3,586,500
2010	28,205,000	1,331,500	18,522,000	2,187,000	1,189,500	402,000	660,000	3,913,000
2011	30,098,000	1,389,500	19,803,000	2,383,000	1,252,000	379,000	720,000	4,171,500
2012	31,854,000	1,375,000	21,705,500	2,238,000	1,326,500	360,000	694,000	4,155,000
2013	31,644,500	1,240,000	21,372,000	2,343,000	1,298,000	366,500	678,000	4,347,000
2014	31,644,500	1,298,000	20,178,000	2,488,000	1,446,500	405,000	615,000	5,214,000
2015	33,602,500	1,345,500	21,500,000	2,533,500	1,492,500	442,000	643,000	5,646,000
2016	35,320,000	1,342,000	22,750,500	2,622,000	1,515,000	425,000	684,500	5,981,000
2017	34,683,500	1,319,500	22,341,000	2,547,000	1,353,000	423,500	693,000	6,006,000
2018	36,746,500	1,318,500	23,551,500	2,889,000	1,512,500	426,000	706,500	6,342,500
2019	37,272,000	1,291,500	24,481,000	2,893,000	1,487,000	439,500	744,000	5,936,000
2020	36,416,000	1,388,500	23,812,000	2,760,000	1,390,000	422,000	705,000	5,938,500

* Includes hazardous materials, other hazardous conditions, and other.

Hazardous material responses include spills, leaks, etc.

Other hazardous responses include arcing wires, bomb removal, etc.

These estimates are based on data reported to the NFPA by fire departments that responded to the 1980–2020 fire experience survey.

Source: *Fire Loss in the United States During 2020* and previous reports in the series.