RESEARCH

Home Grill Fires Tables

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NFPA Index #USS105

Table 1. Home Grill Fires by Power Source
2013-2017 Annual Averages

A. Structure Fires

Power Source	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
All gas-fueled	3,600	(81%)	90	(80%)	$84	(75%)
LP-Gas or other heavier than air gas	3,100	(70%)	80	(74%)	$67	(60%)
Natural gas or other lighter than air gas	400	(10%)	10	(7%)	$15	(14%)
Unclassified gas	100	(2%)	0	(0%)	$1	(1%)
All solid-fueled	600	(13%)	20	(17%)	$24	(21%)
Charcoal or coal	500	(12%)	10	(13%)	$22	(20%)
Wood or paper	0	(1%)	0	(1%)	$1	(1%)
Unclassified solid-fueled	0	(0%)	0	(2%)	$0	(0%)
Electric	200	(4%)	0	(2%)	$3	(3%)
Other known or unclassified power source	100	(1%)	0	(1%)	$2	(1%)
Total	4,500	(100%)	110	(100%)	$112	(100%)

Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 1. Home Grill Fires by Power Source
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Power Source	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
All gas-fueled	5,100	(89%)	50	(90%)	$10	(90%)
LP-Gas or other heavier than air gas	4,400	(78%)	50	(88%)	$9	(77%)
Natural gas or other lighter than air gas	500	(9%)	0	(2%)	$1	(13%)
Unclassified gas	100	(2%)	0	(0%)	$0	(0%)
All solid-fueled	500	(8%)	0	(7%)	$1	(7%)
Charcoal or coal	400	(7%)	0	(5%)	$1	(6%)
Wood or paper	100	(1%)	0	(2%)	$0	(0%)
Unclassified solid-fueled	0	(0%)	0	(0%)	$0	(0%)
Electric	100	(2%)	0	(3%)	$0	(1%)
Other known or unclassified power source	100	(2%)	0	(1%)	$0	(2%)
Total	5,700	(100%)	50	(100%)	$11	(100%)

C. Structure Fires and Outside or Unclassified Fires Combined

Power Source	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
All gas-fueled	8,700	(85%)	130	(83%)	$94	(76%)
LP-Gas or other heavier than air gas	7,500	(74%)	130	(78%)	$75	(61%)
Natural gas or other lighter than air gas	1,000	(9%)	10	(5%)	$17	(14%)
Unclassified gas	200	(2%)	0	(0%)	$2	(1%)
All solid-fueled	1,100	(10%)	20	(13%)	$25	(20%)
Charcoal or coal	900	(9%)	20	(11%)	$23	(19%)
Wood or paper	100	(1%)	0	(1%)	$1	(1%)
Unclassified solid-fueled	0	(0%)	0	(1%)	$0	(0%)
Electric	300	(3%)	0	(2%)	$3	(2%)
Other known or unclassified power source	100	(1%)	0	(1%)	$2	(1%)
Total	10,200	(100%)	160	(100%)	$123	(100%)

Note: Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 2. Home Fires Involving Grills, by Area of Origin
2013-2017 Annual Averages

A. Structure Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Exterior balcony or unenclosed porch	1,300	(28%)	30	(26%)	$48	(43%)
Non-confined	600	(14%)	30	(25%)	$48	(43%)
Confined	600	(14%)	0	(1%)	$0	(0%)
Courtyard, terrace, or patio	1,200	(28%)	30	(26%)	$18	(16%)
Non-confined	400	(9%)	20	(18%)	$18	(16%)
Confined	800	(19%)	10	(8%)	$0	(0%)
Unclassified outside area	700	(15%)	10	(10%)	$7	(7%)
Non-confined	100	(3%)	10	(7%)	$7	(7%)
Confined	500	(12%)	0	(3%)	$0	(0%)
Kitchen or cooking area	300	(7%)	10	(9%)	$3	(2%)
Non-confined	100	(2%)	10	(6%)	$3	(2%)
Confined	200	(5%)	0	(3%)	$0	(0%)
Exterior wall surface	200	(4%)	10	(5%)	$10	(9%)
Non-confined	200	(4%)	10	(5%)	$10	(9%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified area of origin	100	(3%)	0	(0%)	$0	(0%)
Non-confined	0	(0%)	0	(0%)	$0	(0%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Garage or vehicle storage area	100	(3%)	10	(5%)	$4	(4%)
Non-confined	100	(2%)	10	(5%)	$4	(4%)
Confined	100	(1%)	0	(0%)	$0	(0%)
Unclassifed function area	100	(2%)	0	(2%)	$5	(4%)
Non-confined	0	(1%)	0	(2%)	$5	(4%)
Confined	0	(1%)	30	(26%)	$48	(43%)
Other known area of origin	500	(10%)	20	(18%)	$16	(14%)
Non-confined	200	(5%)	10	(14%)	$16	(14%)
Confined	200	(5%)	0	(4%)	$0	(0%)
Total	4,500	(100%)	110	(100%)	$112	(100%)
Non-confined	1,800	(40%)	90	(82%)	$112	(100%)
Confined	2,700	(60%)	20	(18%)	$0	(0%)

* Does not include garage coded as separate property.
Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 2. Home Fires Involving Grills, by Area of Origin
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Courtyard, terrace, or patio	2,200	(39%)	20	(44%)	$4	(35%)
Unclassified outside area	1,400	(25%)	10	(19%)	$1	(10%)
Exterior balcony or unenclosed porch	800	(14%)	10	(16%)	$1	(7%)
Unclassified area of origin	300	(4%)	0	(3%)	$0	(2%)
Lawn, field, or open area	200	(4%)	0	(6%)	$0	(2%)
Kitchen or cooking area	200	(3%)	0	(3%)	$0	(5%)
Other known area of origin	700	(12%)	0	(9%)	$4	(38%)
Total	5,700	(100%)	50	(100%)	$11	(100%)

Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 3. Home Fires Involving Gas-Fueled Grills, by Area of Origin
2013-2017 Annual Averages

A. Structure Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Courtyard, terrace, or patio	1,100	(30%)	20	(28%)	$16	(19%)
Non-confined	300	(8%)	20	(20%)	$16	(19%)
Confined	800	(22%)	10	(9%)	$0	(0%)
Exterior balcony or unenclosed porch	1,000	(27%)	20	(27%)	$33	(39%)
Non-confined	400	(11%)	20	(26%)	$33	(39%)
Confined	600	(16%)	0	(2%)	$0	(0%)
Unclassified outside area	600	(16%)	10	(10%)	$6	(7%)
Non-confined	100	(3%)	10	(8%)	$6	(7%)
Confined	500	(13%)	0	(2%)	$0	(0%)
Kitchen or cooking area	300	(7%)	10	(10%)	$2	(3%)
Non-confined	100	(2%)	10	(7%)	$2	(3%)
Confined	200	(5%)	0	(3%)	$0	(0%)
Exterior wall surface	100	(4%)	0	(3%)	$7	(8%)
Non-confined	100	(3%)	0	(3%)	$7	(8%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified area of origin	100	(4%)	0	(0%)	$1	(1%)
Non-confined	0	(0%)	0	(0%)	$0	(1%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Garage or vehicle storage area	100	(3%)	0	(4%)	$2	(3%)
Non-confined	100	(1%)	0	(4%)	$2	(3%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Lawn, field, or open area	100	(2%)	0	(2%)	$0	(0%)
Non-confined	0	(0%)	0	(0%)	$0	(0%)
Confined	100	(2%)	0	(2%)	$0	(0%)
Unclassifed function area	100	(2%)	0	(2%)	$5	(6%)
Non-confined	0	(1%)	0	(2%)	$5	(6%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Other known area of origin	300	(8%)	10	(13%)	$12	(15%)
Non-confined	100	(4%)	10	(11%)	$12	(15%)
Confined	100	(4%)	0	(2%)	$0	(0%)
Total	3,600	(100%)	90	(100%)	$84	(100%)
Non-confined	1,200	(33%)	70	(81%)	$83	(100%)
Confined	2,400	(67%)	20	(19%)	$1	(0%)

* Does not include garage coded as separate property.
Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 3. Home Fires Involving Gas-Fueled Grills, by Area of Origin
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Courtyard, terrace, or patio	2,000	(40%)	20	(48%)	$4	(37%)
Unclassified outside area	1,200	(24%)	10	(19%)	$0	(7%)
Exterior balcony or unenclosed porch	700	(14%)	10	(16%)	$1	(7%)
Unclassified area of origin	200	(4%)	0	(2%)	$0	(1%)
Lawn, field, or open area	200	(4%)	0	(4%)	$0	(1%)
Kitchen or cooking area	200	(3%)	0	(4%)	$1	(6%)
Unclassifed equipment or service area	100	(2%)	0	(0%)	$3	(28%)
Other known area of origin	400	(9%)	0	(7%)	$1	(12%)
Total	5,100	(100%)	50	(100%)	$10	(100%)

Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 4. Home Fires Involving Solid-Fueled Grills, by Area of Origin
2013-2017 Annual Averages

A. Structure Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Exterior balcony or unenclosed porch	200	(40%)	0	(27%)	$14	(57%)
Non-confined	200	(37%)	0	(27%)	$14	(57%)
Confined	0	(3%)	0	(0%)	$0	(0%)
Courtyard, terrace, or patio	100	(21%)	0	(14%)	$2	(10%)
Non-confined	100	(16%)	0	(5%)	$2	(10%)
Confined	0	(5%)	0	(8%)	$0	(0%)
Unclassified outside area	100	(10%)	0	(0%)	$1	(5%)
Non-confined	0	(5%)	0	(0%)	$1	(5%)
Confined	0	(5%)	0	(0%)	$0	(0%)
Exterior wall surface	0	(6%)	0	(16%)	$2	(8%)
Non-confined	0	(6%)	0	(16%)	$2	(8%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Garage or vehicle storage area*	0	(4%)	0	(11%)	$1	(4%)
Non-confined	0	(4%)	0	(11%)	$1	(4%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Exterior stairway or ramp	0	3%)	0	(0%)	$0	(1%)
Non-confined	0	(1%)	0	(0%)	$0	(1%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Kitchen or cooking area	0	(2%)	0	(0%)	$0	(1%)
Non-confined	0	(1%)	0	(0%)	$0	(1%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Other known area of origin	100	(14%)	10	(32%)	$3	(14%)
Non-confined	100	(10%)	10	(32%)	$3	(14%)
Confined	0	(4%)	0	(0%)	$0	(0%)
Total	600	(100%)	20	(100%)	$24	(100%)
Non-confined	500	(82%)	20	(92%)	$24	(100%)
Confined	100	(18%)	0	(8%)	$0	(0%)

Table 4. Home Fires Involving Solid-Fueled Grills, by Area of Origin
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Area of Origin	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Courtyard, terrace, or patio	200	(34%)	0	(15%)	$0	(42%)
Unclassified outside area	100	(30%)	0	(11%)	$0	(17%)
Exterior balcony or unenclosed porch	100	(13%)	0	(29%)	$0	(10%)
Lawn, field, or open area	0	(9%)	0	(32%)	$0	(24%)
Unclassified area of origin	0	(3%)	0	(13%)	$0	(0%)
Exterior stairway, ramp, or fire escape	0	(2%)	0	(0%)	$0	(2%)
Other known area	0	(10%)	0	(0%)	$0	(6%)
Total	500	(100%)	0	(100%)	$1	(100%)

Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 5. Home Fires Involving Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages

A. Structure Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Failure to clean	1,200	(27%)	0	(1%)	$1	(1%)
Non-confined	100	(2%)	0	(1%)	$1	(1%)
Confined	1,200	(26%)	0	(0%)	$0	(0%)
Heat source too close to combustibles	700	(16%)	20	(21%)	$37	(33%)
Non-confined	600	(13%)	20	(21%)	$37	(33%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Equipment unattended	700	(16%)	20	(17%)	$26	(23%)
Non-confined	300	(8%)	20	(15%)	$26	(23%)
Confined	400	(8%)	0	(2%)	$0	(0%)
Leak or break	400	(9%)	20	(16%)	$13	(11%)
Non-confined	200	(4%)	10	(10%)	$13	(11%)
Confined	200	(5%)	10	(5%)	$0	(0%)
Outside or open fire for warming or cooking	300	(6%)	10	(10%)	$12	(11%)
Non-confined	200	(4%)	10	(8%)	$12	(11%)
Confined	100	(3%)	0	(2%)	$0	(0%)
Unclassified mechanical failure or malfunction	200	(6%)	10	(6%)	$1	(1%
Non-confined	100	(2%)	0	(5%)	$1	(1%
Confined	100	(4%	0	(2%)	$0	(0%
Equipment not being operated properly	200	(4%)	10	(6%)	$2	(2%)
Non-confined	100	(1%)	10	(6%)	$2	(2%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Abandoned or discarded material or product	200	(4%)	0	(0%)	$4	(4%)
Non-confined	100	(2%)	0	(0%)	$4	(4%)
Confined	100	(1%)	0	(0%)	$0	(0%)
Unclassified misuse of material or product	200	(4%)	10	(8%)	$2	(2%)
Non-confined	100	(1%)	10	(6%)	$2	(2%)
Confined	100	(2%)	0	(2%)	$0	(0%)
Accidentally turned on, not turned off	100	(2%)	0	(3%)	$8	(7%)
Non-confined	100	(1%)	0	(3%)	$8	(7%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified factor contributed to ignition	100	(2%)	0	(1%)	$1	(1%)
Non-confined	0	(1%)	0	(1%)	$1	(1%)
Confined	100	(1%)	0	(0%)	$0	(0%)
Unclassified operational deficiency	100	(2%)	0	(3%)	$1	(1%)
Non-confined	0	(1%)	0	(1%)	$1	(1%)
Confined	0	(1%)	0	(2%)	$0	(0%)

Table 5. Home Fires Involving Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages (Continued)

A. Structure Fires (Continued)

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Other known fires	500	(11%)	20	(18%)	$19	(17%)
Non-confined	300	(6%)	20	(15%)	$19	(17%)
Confined	200	(5%)	0	(4%)	$0	(0%)
Total fires	4,500	(100%)	110	(100%)	$112	(100%)
Non-confined	1,800	(40%)	90	(82%)	$112	(100%)
Confined	2,700	(60%)	20	(18%)	$0	(0%)
Total factors	4,800	(108%)	120	(109%)	$127	(114%)
Non-confined	2,000	(45%)	110	(91%)	$127	(114%)
Confined	2,800	(63%)	20	(18%)	$0	(0%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error.

Source: Data from NFIRS Version 5.0 and NFPA survey.

B. Outside or Unclassified Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Failure to clean	1,300	(23%)	0	(7%)	$1	(8%)
Leak or break	1,200	(20%)	10	(26%)	$3	(26%)
Equipment unattended	600	(10%)	0	(6%)	$1	(11%)
Heat source too close to combustibles	500	(8%)	0	(3%)	$2	(17%)
Unclassified mechanical failure or malfunction	400	(7%)	10	(11%)	$1	(5%)
Outside/open fire for warming or cooking	300	(6%)	0	(2%)	$1	(7%)
Unclassified misuse of material or product	200	(3%)	0	(7%)	$0	(1%)
Equipment not being operated properly	200	(3%)	0	(7%)	$0	(1%)
Worn out	200	(3%)	0	(5%)	$0	(2%)
Unclassified factor contributed to ignition	100	(3%)	0	(2%)	$0	(4%)
Unclassified operational deficiency	100	(2%)	0	(1%)	$0	(1%)
Abandoned or discarded material or product	100	(2%)	0	(0%)	$0	(1%)
Unintentionally turned on or not turned off	100	(2%)	0	(3%)	$1	(7%)
Flammable liquid or gas spilled	100	(2%)	0	(1%)	$1	(5%)
Improper startup	100	(2%)	0	(6%)	$1	(5%)

Table 5. Home Fires Involving Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires (Continued)

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Other known factor	500	(9%)	10	(20%)	$1	(10%)
Total fires	5,700	(100%)	50	(100%)	$11	(100%)
Total factors	6,000	(105%)	60	(109%)	$12	(111%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 6. Home Fires Involving Gas-Fueled Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages

A. Structure Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Failure to clean	1,200	(32%)	0	(1%)	$1	(1%)
Non-confined	100	(2%)	0	(1%)	$1	(1%)
Confined	1,100	(30%)	0	(0%)	$0	(0%)
Equipment unattended	500	(15%)	10	(14%)	$17	(20%)
Non-confined	200	(6%)	10	(12%)	$17	(20%)
Confined	300	(9%)	0	(2%)	$0	(0%)
Heat source too close to combustibles	500	(14%)	20	(22%)	$28	(34%)
Non-confined	400	(10%)	20	(22%)	$28	(34%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Leak or break	400	(11%)	20	(20%)	$13	(15%)
Non-confined	200	(4%)	10	(13%)	$13	(15%)
Confined	200	(6%)	10	(7%)	$0	(0%)
Unclassified mechanical failure or malfunction	200	(6%)	10	(8%)	$1	(2%)
Non-confined	100	(2%)	0	(6%)	$1	(2%)
Confined	200	(4%	0	(2%)	$0	(0%)
Outside/open fire for warming or cooking	200	(5%)	10	(9%)	$8	(9%)
Non-confined	100	(2%)	10	(7%)	$7	(9%)
Confined	100	(3%)	0	(2%)	$0	(0%)
Equipment not being operated properly	100	(4%)	0	(6%)	$0	(1%)
Non-confined	0	(1%)	0	(6%)	$0	(0%)
Confined	100	(3%)	0	(0%)	$0	(0%)
Unclassified misuse of material or product	100	(3%)	0	(3%)	$2	(2%)
Non-confined	0	(1%)	0	(3%)	$2	(2%)
Confined	100	(2%)	0	(0%)	$0	(0%)
Abandoned or discarded material or product	100	(2%)	0	(0%)	$3	(3%)
Non-confined	0	(1%)	0	(0%)	$3	(3%)
Confined	100	(1%)	0	(0%)	$0	(0%)
Unintentionally turned on or not turned off	100	(2%)	0	(4%)	$7	(9%)
Non-confined	100	(2%)	0	(4%)	$7	(9%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified operational deficiency	100	(2%)	0	(4%)	$1	(1%)
Non-confined	0	(0%)	0	(1%)	$1	(1%)
Confined	0	(1%)	0	(2%)	$0	(0%)

Table 6. Home Fires Involving Gas-Fueled Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages (Continued)

A. Structure Fires (Continued)

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Other known factor contributing to ignition	400	(11%)	20	(18%)	$17	(21%)
Non-confined	300	(7%)	20	(18%)	$17	(21%)
Confined	100	(4%)	0	(0%)	$0	(0%)
Total fires	3,600	(100%)	90	(100%)	$84	(100%)
Non-confined	1,200	(33%)	70	(81%)	$83	(100%)
Confined	2,400	(67%)	20	(19%)	$0	(0%)
Total factors	3,900	(106%)	90	(109%)	$97	(116%)
Non-confined	1,500	(38%)	70	(93%)	$96	(116%)
Confined	2,400	(67%)	10	(16%)	$0	(0%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 6. Home Fires Involving Gas-Fueled Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Failure to clean	1,300	(26%)	0	(8%)	$1	(7%)
Leak or break	1,200	(23%)	10	(30%)	$3	(32%)
Equipment unattended	500	(9%)	0	(7%)	$1	(13%)
Unclassified mechanical failure or malfunction	400	(8%)	10	(11%)	$1	(6%)
Heat source too close to combustibles	300	(6%)	0	(4%)	$1	(11%)
Outside or open fire for warming or cooking	200	(5%)	0	(2%)	$1	(5%)
Worn out	100	(3%)	0	(5%)	$0	(2%)
Equipment not being operated properly	100	(3%)	0	(7%)	$0	(1%)
Unclassified misuse of material or product	100	(3%)	0	(8%)	$0	(1%)
Unclassified factor contributed to ignition	100	(2%)	0	(1%)	$0	(2%)
Unclassified operational deficiency	100	(2%)	0	(1%)	$0	(1%)
Unintentionally turned on or not turned off	100	(2%)	0	(4%)	$1	(7%)
Flammable liquid or gas spilled	100	(2%)	0	(1%)	$1	(7%)
Improper startup	100	(2%)	0	(6%)	$0	(1%)
Other known factor contributing to ignition	500	(9%)	10	(11%)	$1	(10%)
Total fires	5,100	(100%)	50	(100%)	$10	(100%)
Total factors	5,300	(105%)	50	(107%)	$11	(106%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 7. Home Fires Involving Solid-Fueled Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages

A. Structure Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Heat source too close to combustibles	200	(30%)	0	(23%)	$6	(26%)
Non-confined	200	(29%)	0	(23%)	$6	(26%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Equipment unattended	100	(24%)	0	(23%)	$8	(32%)
Non-confined	100	(20%)	0	(23%)	$8	(32%)
Confined	0	(3%)	0	(0%)	$0	(0%)
Abandoned or discarded material or product	100	(12%)	0	(0%)	$2	(8%)
Non-confined	100	(11%)	0	(0%)	$2	(8%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Outside/open fire for warming or cooking	100	(12%)	0	(15%)	$4	(17%)
Non-confined	100	(11%)	0	(15%)	$4	(17%)
Confined	0	(1%)	0	(0%)	$0	(0%)
Other known factor	200	(36%)	0	(102%)	10	(55%)
Non-confined	100	(24%)	0	(102%)	10	(47%)
Confined	100	(12%)	0	(0%)	0	(8%)
Total fires	600	(100%)	20	(100%)	$24	(100%)
Non-confined	500	(82%)	20	(100%)	$24	(100%)
Confined	100	(18%)	0	(0%)	$0	(0%)
Total factors	700	(114%)	20	(115%)	$27	(114%)
Non-confined	600	(95%)	20	(107%)	$27	(114%)
Confined	100	(18%)	0	(8%)	$0	(0%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 7. Home Fires Involving Solid-Fueled Grills, by Factor Contributing to Ignition
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Factor Contributing to Ignition	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Heat source too close to combustibles	100	(27%)	0	(0%)	$0	(61%)
Equipment unattended	100	(21%)	0	(0%)	$0	(9%)
Outside or open fire for warming or cooking	100	(12%)	0	(0%)	$0	(17%)
Other known factor contributing to ignition	200	(51%)	0	(100%)	$0	(58%)
Total fires	500	(100%)	0	(100%)	$1	(100%)
Total factors	500	(111%)	0	(116%)	$1	(147%)

Note: Multiple entries are allowed, resulting in more factor entries than fires. Home cooking fires involving cooking equipment and factor contributing to ignition listed as unknown, unreported, none, or blank have also been allocated proportionally. Totals may not equal sums because of rounding error. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 8. Home Fires Involving Grills, by Item First Ignited
2013-2017 Annual Averages

A. Structure Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Cooking materials, including food	1,900	(42%)	10	(14%)	$9	(8%)
Non-confined	200	(5%)	10	(9%)	$9	(8%)
Confined	1,700	(38%)	10	(5%)	$0	(0%)
Flammable or combustible liquids or gases, piping or filter	800	(18%)	40	(37%)	$16	(15%)
Non-confined	300	(6%)	30	(30%)	$16	(15%)
Confined	500	(12%)	10	(8%)	$0	(0%)
Exterior wall covering or finish	500	(10%)	30	(24%)	$52	(46%)
Non-confined	500	(10%)	30	(24%)	$52	(46%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Structural member or framing	200	(5%)	10	(5%)	$11	(9%)
Non-confined	200	(5%)	10	(5%)	$11	(9%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified item first ignited	200	(4%)	10	(5%)	$3	(3%)
Non-confined	100	(1%)	0	(1%)	$3	(3%)
Confined	100	(3%)	0	(4%)	$0	(0%)
Unclassified structural component or finish	100	(3%)	0	(1%)	$4	(3%)
Non-confined	100	(3%)	0	(1%)	$4	(3%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Appliance housing or casing	100	(3%)	0	(0%)	$1	(1%)
Non-confined	0	(1%)	0	(0%)	$1	(1%)
Confined	100	(2%)	0	(0%)	$0	(0%)
Exterior trim, including doors	100	(2%)	0	(2%)	$2	(2%)
Non-confined	100	(2%)	0	(2%)	$2	(2%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Other known item first ignited	500	(12%)	10	(12%)	$14	(13%)
Non-confined	300	(7%)	10	(10%)	$14	(12%)
Confined	200	(5%)	0	(1%)	$0	(0%)
Total	4,500	(100%)	110	(100%)	$112	(100%)
Non-confined	1,800	(40%)	90	(82%)	$112	(100%)
Confined	2,700	(60%)	20	(18%)	$0	(0%)

Note: Sums may not equal totals due to rounding errors. Unknowns have been allocated proportionally.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 8. Home Fires Involving Grills, by Item First Ignited
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Flammable or combustible liquids or gases, piping or filter	2,200	(39%)	40	(77%)	$5	(47%)
Cooking materials, including food	1,800	(32%)	0	(9%)	$4	(34%)
Unclassified item first ignited	700	(12%)	0	(5%)	$1	(7%)
Appliance housing or casing	200	(4%)	0	(3%)	$0	(3%)
Light vegetation, including grass	200	(3%)	0	(0%)	$0	(1%)
Unclassified organic materials	100	(2%)	0	(0%)	$0	(2%)
Other known item first ignited	500	(9%)	0	(5%)	$1	(7%)
Total	5,700	(100%)	50	(100%)	$11	(100%)

Note: Sums may not equal totals due to rounding errors. Unknowns have been allocated proportionally. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 9. Home Fires Involving Gas-Fueled Grills, by Item First Ignited
2013-2017 Annual Averages

A. Structure Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Cooking materials, including food	1,700	(46%)	10	(13%)	$7	(8%)
Non-confined	200	(5%)	10	(7%)	$6	(8%)
Confined	1,500	(41%)	0	(5%)	$0	(0%)
Flammable or combustible liquids or gases, piping or filter	800	(22%)	30	(40%)	$16	(19%)
Non-confined	300	(7%)	30	(33%)	$16	(19%)
Confined	500	(15%)	10	(7%)	$0	(0%)
Exterior wall covering or finish	300	(9%)	20	(24%)	$39	(47%)
Non-confined	300	(9%)	20	(24%)	$39	(47%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified item first ignited	200	(5%)	0	(5%)	$2	(2%)
Non-confined	0	(1%)	0	(0%)	$2	(2%)
Confined	100	(3%)	0	(5%)	$0	(0%)
Structural member or framing	100	(3%)	0	(6%)	$6	(7%)
Non-confined	100	(3%)	0	(6%)	$6	(7%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Appliance housing or casing	100	(3%)	0	(0%)	$1	(1%)
Non-confined	0	(1%)	0	(0%)	$1	(1%)
Confined	100	(2%)	0	(0%)	$0	(0%)
Other known item first ignited	400	(12%)	10	(13%)	$13	(16%)
Non-confined	300	(7%)	10	(12%)	$13	(16%)
Confined	200	(5%)	0	(2%)	$0	(0%)
Total	3,600	(100%)	90	(100%)	$84	(100%)
Non-confined	1,200	(33%)	70	(81%)	$83	(100%)
Confined	2,400	(67%)	20	(19%)	$0	(0%)

Note: Sums may not equal totals due to rounding errors. Unknowns have been allocated proportionally. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 9. Home Fires Involving Gas-Fueled Grills, by Item First Ignited
2013-2017 Annual Averages (Continued)

B. Outside or Unclassified Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Flammable or combustible liquids or gases, piping or filter	2,200	(43%)	40	(77%)	$5	(51%)
Cooking materials, including food	1,700	(33%)	0	(9%)	$3	(34%)
Unclassified item first ignited	600	(11%)	0	(6%)	$0	(4%)
Appliance housing or casing	200	(4%)	0	(4%)	$0	(3%)
Other known item first ignited	500	(9%)	0	(4%)	$1	(8%)
Total	5,100	(100%)	50	(100%)	$10	(100%)

Note: Sums may not equal totals due to rounding errors. Unknowns have been allocated proportionally. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 10. Home Fires Involving Solid-Fueled Grills, by Item First Ignited
2013-2017 Annual Averages

A. Structure Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Exterior wall covering or finish	100	(20%)	10	(36%)	$11	(46%)
Non-confined	100	(20%)	10	(36%)	$11	(46%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Cooking materials, including food	100	(16%)	0	(12%)	$1	(6%)
Non-confined	0	(6%)	0	(12%)	$1	(6%)
Confined	100	(11%)	0	(0%)	$0	(0%)
Structural member or framing	100	(16%)	0	(6%)	$5	(20%)
Non-confined	100	(16%)	0	(6%)	$5	(20%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Unclassified structural component or finish	100	(10%)	0	(0%)	$2	(6%)
Non-confined	100	(10%)	0	(0%)	$2	(6%)
Confined	0	(0%)	0	(0%)	$0	(0%)
Other known item first ignited	200	(38%)	10	(46%)	$5	(22%)
Non-confined	200	(31%)	10	(38%)	$5	(22%)
Confined	0	(7%)	0	(8%)	$0	(0%)
Total	600	(100%)	20	(100%)	$24	(100%)
Non-confined	500	(82%)	20	(92%)	$24	(100%)
Confined	100	(18%)	0	(8%)	$0	(0%)

B. Outside or Unclassified Fires

Item First Ignited	Fires		Civilian Injuries		Direct Property Damage (in Millions)	
Cooking materials, including food	100	(22%)	0	(15%)	$0	(23%)
Light vegetation, including grass	100	(22%)	0	(0%)	$0	(16%)
Unclassified item first ignited	100	(17%)	0	(0%)	$0	(44%)
Other known item first ignited	200	(39%)	0	(85%)	$0	(17%)
Total	500	(100%)	0	(100%)	$1	(100%)

Note: Sums may not equal totals due to rounding errors. Unknowns have been allocated proportionally. Entries of zero may represent numbers that round to zero.

Source: Data from NFIRS Version 5.0 and NFPA survey.

Table 11. Home Fires Involving Grills, by Year

A. Structure Fires

Year	Fires		Civilian Injuries		Direct Property Damage (in Millions) As Reported		In 2017 Dollars
1980	2,400		90		$9		$26
1981	2,500		100		$9		$23
1982	2,200		80		$12		$29
1983	1,900		120		$15		$36
1984	2,300		70		$15		$34
1985	2,500		80		$16		$35
1986	2,500		90		$17		$37
1987	2,400		70		$18		$38
1988	2,700		130		$19		$38
1989	2,300		60		$37		$71
1990	2,500		120		$20		$36
1991	2,200		110		$24		$42
1992	2,400		100		$36		$61
1993	2,200		80		$41		$67
1994	2,200		90		$22		$35
1995	2,100		70		$21		$33
1996	2,000		110		$30		$45
1997	2,100		80		$29		$43
1998	1,900		90		$44		$64
1999	3,600	(2,900)	0	(0)	$81	($81)	$119
2000	2,300	(1,500)	110	(110)	$61	($61)	$86
2001	2,300	(1,400)	50	(50)	$40	($40)	$55
2002	2,900	(1,600)	90	(90)	$55	($55)	$76
2003	2,200	(1,100)	90	(70)	$92	($92)	$123
2004	2,700	(1,200)	110	(110)	$47	($47)	$61
2005	3,000	(1,300)	80	(60)	$136	($136)	$171
2006	3,400	(1,400)	90	(60)	$48	($48)	$58
2007	3,200	(1,500)	90	(70)	$43	($42)	$51
2008	3,500	(1,700)	100	(70)	$90	($90)	$103
2009	3,800	(1,300)	100	(80)	$71	($71)	$81
2010	4,000	(1,400)	150	(120)	$128	($128)	$144
2011	4,500	(1,700)	70	(70)	$160	($160)	$175
2012	4,000	(2,000)	120	(90)	$147	($146)	$157
2013	3,500	(1,500)	120	(100)	$76	($76)	$80
2014	3,600	(1,500)	90	(70)	$80	($80)	$83
2015	5,200	(1,900)	110	(110)	$186	($186)	$192
2016	5,400	(2,100)	120	(90)	$102	($102)	$104
2017	5,100	(2,000)	90	(70)	$118	($118)	$118

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. Fires are rounded to the nearest hundred, civilian injuries are expressed to the nearest ten and direct property damage is rounded to the nearest million dollars. Figures reflect a proportional share of home fires with equipment involved in ignition unknown or reported as cooking or kitchen equipment of undetermined or unclassified type. Fires reported as "no equipment" but lacking a confirming specific heat source (codes 40-99) are also treated as unknown equipment and allocated. Because of their small numbers, annual estimates of fire deaths involving this equipment are unreliable and not shown. During 2011-2015, grills were involved in an estimated average of 10 civilian fire deaths per year in home structure fires. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution.* Inflation adjustment to 2017 dollars is done using the consumer price index.

Source: NFIRS and NFPA survey.

Table 11. Home Fires Involving Grills, by Year (Continued)

B. Outdoor and Unclassified Fires

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	2,900	30	$0	$0
1981	3,200	10	$0	$0
1982	2,800	40	$0	$0
1983	2,900	30	$0	$0
1984	3,200	30	$0	$0
1985	3,600	20	$0	$0
1986	4,600	30	$0	$0
1987	5,800	30	$0	$0
1988	6,800	30	$0	$0
1989	6,800	30	$1	$2
1990	7,300	20	$0	$0
1991	7,700	40	$0	$0
1992	7,200	40	$1	$2
1993	7,900	20	$0	$0
1994	7,600	30	$0	$0
1995	8,400	50	$1	$2
1996	8,600	30	$0	$0
1997	10,400	40	$0	$0
1998	8,500	40	$1	$1
1999	5,600	90	$0	$1
2000	4,000	20	$0	$1
2001	5,400	70	$0	$0
2002	6,400	30	$1	$1
2003	4,800	20	$0	$1
2004	4,600	20	$0	$0
2005	5,000	30	$0	$1
2006	5,900	60	$1	$1
2007	5,600	20	$7	$8
2008	4,200	30	$1	$1
2009	4,700	30	$3	$3
2010	4,500	40	$2	$2
2011	4,700	50	$1	$1
2012	5,900	60	$2	$2
2013	5,100	50	$2	$2
2014	5,500	60	$2	$2
2015	6,400	50	$29	$30
2016	6,600	40	$8	$8
2017	4,900	60	$21	$21

Note: National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution*. Figures reflect a proportional share of home fires with equipment involved in ignition unknown or reported as cooking or kitchen equipment of undetermined or unclassified type. Fires reported as "no equipment" but lacking a confirming specific heat source (codes (40-99) are also treated as unknown equipment and allocated. Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 11. Home Fires Involving Grills, by Year
(Continued)

C. Structure Fires and Outdoor and Unclassified Fires Combined

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	5,300	120	$9	$26
1981	5,700	110	$12	$31
1982	5,000	120	$15	$37
1983	4,900	150	$15	$36
1984	5,500	110	$16	$36
1985	6,100	110	$18	$40
1986	7,100	120	$18	$39
1987	8,100	110	$19	$40
1988	9,500	150	$37	$74
1989	9,100	100	$21	$40
1990	9,900	140	$25	$45
1991	10,000	150	$36	$63
1992	9,600	140	$42	$71
1993	10,100	100	$23	$38
1994	9,800	120	$21	$34
1995	10,500	130	$31	$48
1996	10,600	150	$30	$45
1997	12,500	110	$45	$66
1998	10,500	140	$54	$79
1999	9,100	90	$81	$120
2000	6,200	130	$61	$87
2001	7,700	120	$40	$55
2002	9,400	110	$56	$77
2003	7,000	110	$92	$123
2004	7,300	130	$47	$61
2005	8,000	100	$137	$172
2006	9,200	160	$49	$59
2007	8,800	110	$50	$59
2008	7,700	130	$91	$104
2009	8,500	120	$74	$84
2010	8,500	190	$130	$147
2011	9,200	120	$161	$176
2012	9,900	170	$148	$159
2013	8,600	170	$78	$82
2014	9,100	150	$82	$84
2015	11,600	170	$215	$223
2016	12,000	160	$110	$113
2017	10,000	150	$139	$139

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution*. Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 12. Home Fires Involving Gas-Fueled Grills, by Year

A. Structure Fires

Year	Fires		Civilian Injuries		Direct Property Damage (in Millions) As Reported		In 2017 Dollars
1980	600		40		$2		$6
1981	900		70		$3		$8
1982	700		20		$2		$5
1983	600		50		$6		$14
1984	800		40		$5		$11
1985	1,000		50		$7		$15
1986	1,000		50		$6		$13
1987	1,100		40		$7		$15
1988	1,300		80		$21		$42
1989	1,300		40		$9		$17
1990	1,400		70		$15		$27
1991	1,300		100		$19		$33
1992	1,400		80		$31		$52
1993	1,300		60		$15		$25
1994	1,300		60		$11		$18
1995	1,200		40		$11		$17
1996	1,200		70		$15		$23
1997	1,300		60		$24		$35
1998	1,200		40		$32		$47
1999	1,300	(600)	0	(0)	$1	($1)	$1
2000	1,400	(500)	110	(110)	$26	($26)	$37
2001	1,400	(700)	0	(0)	$17	($17)	$24
2002	1,700	(900)	50	(50)	$28	($27)	$38
2003	1,500	(600)	80	(60)	$76	($76)	$101
2004	1,900	(700)	80	(80)	$20	($20)	$26
2005	2,400	(800)	60	(40)	$119	($119)	$150
2006	2,400	(800)	60	(20)	$21	($21)	$26
2007	2,400	(900)	40	(30)	$26	($25)	$30
2008	2,800	(1,100)	70	(50)	$59	($59)	$68
2009	3,100	(900)	70	(40)	$41	($41)	$47
2010	3,200	(900)	90	(60)	$96	($95)	$107
2011	3,600	(1,200)	50	(50)	$83	($83)	$91
2012	3,200	(1,300)	100	(70)	$124	($123)	$132
2013	2,800	(1,100)	100	(80)	$60	($59)	$63
2014	2,900	(1,000)	70	(50)	$55	($55)	$57
2015	4,300	(1,300)	90	(90)	$139	($139)	$144
2016	4,500	(1,500)	110	(80)	$77	($77)	$79
2017	4,100	(1,300)	60	(50)	$90	($90)	$90

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution.* Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 12. Home Fires Involving Gas-Fueled Grills, by Year
(Continued)

B. Outside or Unclassified Fires

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	2,100	0	$0	$0
1981	2,400	10	$0	$0
1982	1,800	40	$0	$0
1983	2,100	20	$0	$0
1984	2,100	20	$0	$0
1985	2,700	10	$0	$0
1986	3,300	30	$0	$0
1987	4,300	20	$0	$0
1988	5,300	20	$0	$0
1989	5,200	20	$1	$2
1990	5,600	10	$0	$0
1991	6,000	30	$0	$0
1992	5,500	30	$1	$2
1993	6,000	10	$0	$0
1994	5,700	20	$0	$0
1995	6,300	50	$1	$2
1996	6,700	20	$0	$0
1997	8,400	40	$0	$0
1998	6,700	40	$1	$1
1999	3,800	40	$0	$0
2000	3,200	20	$0	$1
2001	4,800	60	$0	$0
2002	5,600	30	$1	$1
2003	4,100	20	$0	$0
2004	3,900	10	$0	$0
2005	4,200	10	$0	$1
2006	5,200	40	$1	$1
2007	4,600	10	$5	$6
2008	3,600	30	$1	$1
2009	4,200	30	$2	$2
2010	4,100	40	$2	$2
2011	4,100	40	$1	$1
2012	4,800	60	$1	$1
2013	4,300	40	$2	$2
2014	4,500	50	$1	$1
2015	5,500	50	$26	$27
2016	6,000	40	$8	$8
2017	4,300	50	$20	$20

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution*. Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 12. Home Fires Involving Gas-Fueled Grills, by Year
(Continued)

C. Structure Fires and Outside or Unclassified Fires Combined

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	2,600	60	$2	$6
1981	3,300	70	$3	$8
1982	2,500	60	$2	$5
1983	2,700	70	$6	$14
1984	2,900	60	$5	$11
1985	3,600	60	$7	$15
1986	4,300	80	$6	$13
1987	5,400	60	$7	$15
1988	6,600	90	$21	$42
1989	6,400	60	$10	$19
1990	7,000	80	$15	$27
1991	7,300	130	$19	$33
1992	6,900	110	$32	$54
1993	7,400	80	$15	$25
1994	7,000	80	$11	$18
1995	7,500	80	$12	$19
1996	7,900	90	$15	$23
1997	9,700	100	$24	$35
1998	7,900	80	$33	$48
1999	5,100	40	$1	$1
2000	4,600	130	$26	$26
2001	6,200	60	$17	$17
2002	7,300	80	$28	$28
2003	5,500	100	$76	$76
2004	5,900	90	$20	$20
2005	6,500	70	$120	$120
2006	7,600	90	$22	$22
2007	7,000	60	$31	$31
2008	6,400	100	$60	$60
2009	7,300	90	$43	$43
2010	7,300	130	$98	$98
2011	7,700	90	$85	$85
2012	7,900	150	$125	$125
2013	7,100	140	$61	$61
2014	7,300	120	$56	$56
2015	9,800	140	$164	$164
2016	10,400	150	$85	$85
2017	8,400	110	$110	$110

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution*. Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 13. Home Fires Involving Solid-Fueled Grills, by Year

A. Structure Fires

Year	Fires		Civilian Injuries		Direct Property Damage (in Millions) As Reported		In 2017 Dollars
1980	1,500		40		$4		$12
1981	1,300		20		$7		$18
1982	1,100		50		$6		$15
1983	900		50		$8		$19
1984	1,100		20		$10		$23
1985	1,100		20		$5		$11
1986	1,100		30		$9		$19
1987	900		10		$6		$13
1988	1,000		30		$13		$26
1989	700		20		$9		$17
1990	800		20		$6		$11
1991	600		10		$12		$21
1992	600		0		$7		$12
1993	500		0		$3		$5
1994	600		30		$7		$11
1995	500		0		$14		$22
1996	400		40		$4		$6
1997	400		10		$5		$7
1998	300		10		$5		$7
1999	1,200	(1,200)	0	(0)	$11	($11)	$17
2000	700	(700)	0	(0)	$5	($5)	$7
2001	700	(600)	50	(50)	$15	($15)	$21
2002	600	(500)	0	(0)	$28	($27)	$38
2003	400	(400)	30	(10)	$13	($13)	$17
2004	500	(400)	30	(30)	$20	($19)	$25
2005	500	(400)	40	(20)	$17	($17)	$22
2006	600	(500)	70	(40)	$27	($26)	$32
2007	500	(500)	50	(40)	$17	($17)	$20
2008	500	(500)	40	(10)	$29	($29)	$33
2009	400	(400)	50	(30)	$28	($28)	$32
2010	500	(500)	90	(60)	$31	($31)	$35
2011	500	(400)	20	(20)	$71	($70)	$77
2012	700	(600)	40	(10)	$21	($21)	$23
2013	600	(400)	30	(20)	$15	($15)	$16
2014	500	(500)	40	(20)	$20	($20)	$21
2015	600	(500)	10	(10)	$44	($44)	$46
2016	600	(600)	40	(10)	$20	($20)	$20
2017	600	(500)	30	(20)	$20	($19)	$20

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution.* Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 13. Home Fires Involving Solid-Fueled Grills, by Year (Continued)

B. Outside or Unclassified Fires

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	500	10	$0	$0
1981	400	10	$0	$0
1982	500	0	$0	$0
1983	400	0	$0	$0
1984	500	0	$0	$0
1985	400	0	$0	$0
1986	400	0	$0	$0
1987	400	0	$0	$0
1988	500	0	$0	$0
1989	300	0	$0	$0
1990	500	0	$0	$0
1991	400	0	$0	$0
1992	400	0	$0	$0
1993	400	0	$0	$0
1994	400	0	$0	$0
1995	400	0	$0	$0
1996	400	0	$0	$0
1997	500	0	$0	$0
1998	400	0	$0	$0
1999	200	0	$0	$0
2000	100	0	$0	$0
2001	500	0	$0	$0
2002	800	0	$0	$0
2003	600	0	$0	$0
2004	600	10	$0	$0
2005	800	10	$0	$0
2006	600	20	$0	$0
2007	900	0	$1	$1
2008	500	10	$0	$0
2009	400	0	$0	$0
2010	400	10	$0	$0
2011	400	10	$0	$0
2012	900	0	$1	$1
2013	500	0	$0	$0
2014	800	0	$0	$0
2015	700	0	$3	$3
2016	300	0	$0	$0
2017	500	10	$0	$0

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution.* Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 13. Home Fires Involving Solid-Fueled Grills, by Year
(Continued)

C. Structure Fires and Outside or Unclassified Fires Combined

Year	Fires	Civilian Injuries	Direct Property Damage (in Millions) As Reported	In 2017 Dollars
1980	2,000	50	$4	$12
1981	1,600	20	$7	$18
1982	1,600	50	$6	$15
1983	1,300	50	$8	$19
1984	1,600	20	$10	$23
1985	1,600	20	$5	$11
1986	1,400	30	$9	$19
1987	1,200	10	$6	$13
1988	1,500	30	$13	$26
1989	1,000	30	$9	$17
1990	1,300	30	$6	$11
1991	1,000	20	$12	$21
1992	1,000	0	$7	$12
1993	900	0	$3	$5
1994	1,100	30	$7	$11
1995	1,000	0	$14	$22
1996	800	40	$4	$6
1997	900	10	$5	$7
1998	700	10	$5	$7
1999	1,400	0	$11	$17
2000	800	0	$5	$7
2001	1,200	50	$15	$21
2002	1,400	0	$28	$38
2003	1,000	30	$13	$17
2004	1,000	40	$20	$25
2005	1,200	50	$17	$22
2006	1,200	90	$27	$32
2007	1,500	60	$18	$20
2008	1,100	50	$29	$33
2009	800	50	$28	$32
2010	900	90	$31	$35
2011	800	30	$71	$77
2012	1,600	40	$22	$23
2013	1,100	40	$15	$16
2014	1,400	50	$20	$21
2015	1,300	10	$47	$46

Note: Numbers in parentheses exclude confined fires. Confined fires are fires reported as confined to a cooking vessel and involving cooking equipment; they are analyzed separately. National estimates are projections. Casualty and loss projections can be heavily influenced by the inclusion or exclusion of one unusually serious fire. *Because of low participation in NFIRS Version 5.0 during 1999-2001, estimates for those years are highly uncertain and must be used with caution*. Inflation adjustment to 2017 dollars is done using the consumer price index. Unknowns have been allocated proportionally.

Source: NFIRS and NFPA survey.

Table 14.
Grill-Related Injuries at Hospital Emergency Departments
2013-2017 Annual Averages

Type of Injury	Estimate
All grill injuries	19,000
Thermal burns	9,300
Contact burns	5,200
Contact burns to children inder 5	1,900
Fire or flame burns	4,100

All statistics are based on National Electronic Injury Surveillance System (NEISS) data obtained from the US Consumer Product Safety Commission (CPSC) website, cpsc.gov, most recently accessed in April 2019.

Table 15.
Usage Data from the Hearth, Patio & Barbecue Association's (HPBA's) 2017 Consumer Survey

Usage fact	Share or percentage
Type of grill owned	
Gas	64%
Charcoal	44%
Electric	9%
US households with grill or smoker	**Seven in ten**
Peak grilling days/weekends	
July 4	73%
Memorial Day	60%
Labor Day	58%
Father's Day	45%
Mother's Day	34%
Super Bowl	23%
Easter	19%
Thanksgiving	14%
Christmas or Chanukah	10%
New Year's Eve/Day	9%

Source: Hearth, Patio & Barbecue Association, "2017 State of the Barbecue Industry: HPBA's Consumer Survey Reveals Grilling and Barbecuing Is a Growing, Year-Round Lifestyle." Accessed at https://www.hpba.org/Resources/PressRoom/ID/516/2017-State-of-the-Barbecue-Industry-HPBAs-Consumer-Survey-Reveals-Grilling-and-Barbecuing-Is-a-Growing-Year-Round-Lifestyle April 24, 2019.