County Profiles

2015 Fire Data Analysis

Statistics compiled by the Massachusetts
Fire Incident Reporting System (MFIRS)

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

2015 Fires in Massachusetts Counties

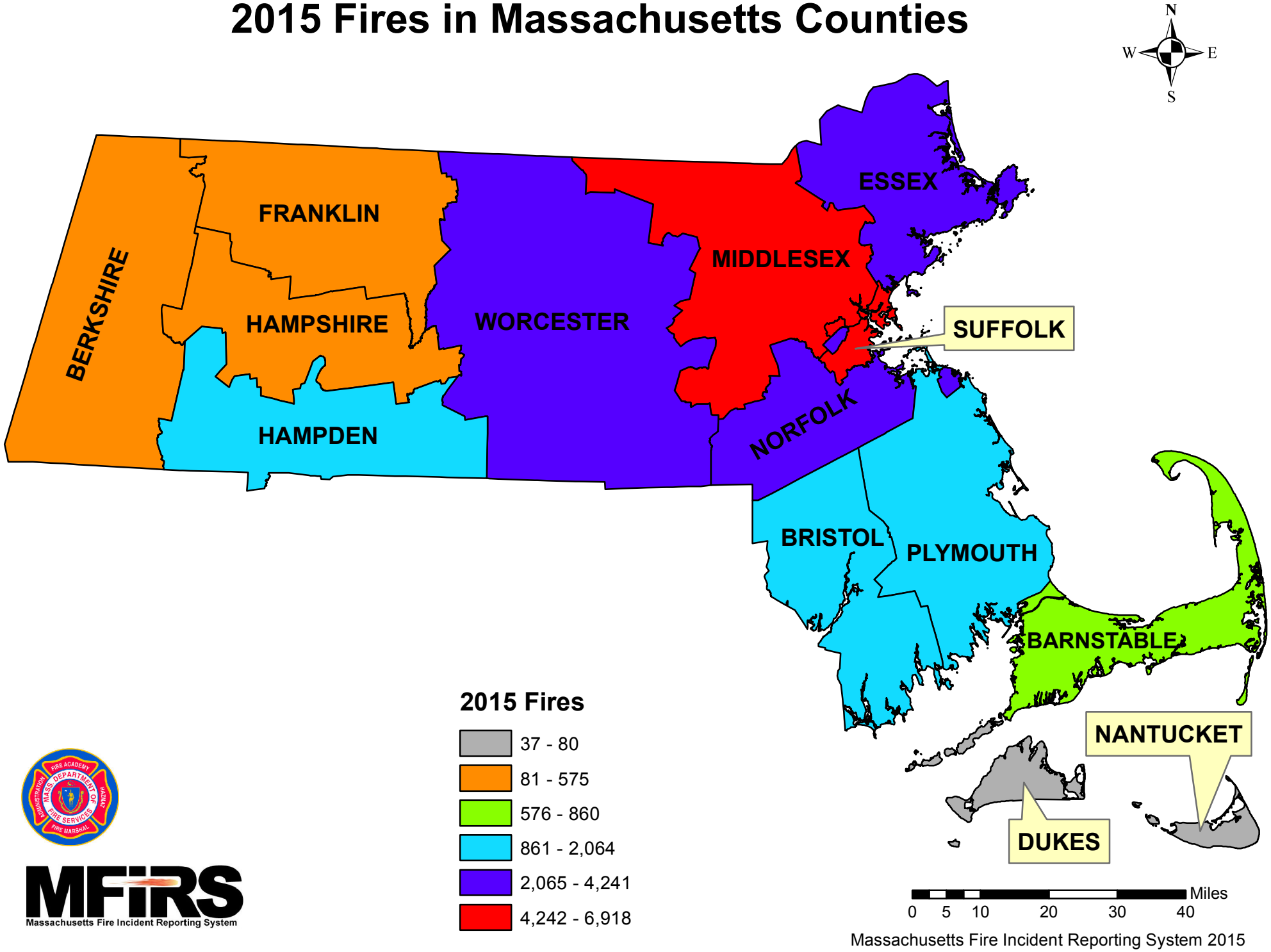


Table of Contents

2015 Fires by County

County	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Civilian Deaths	Civilian Injuries	Fire Service Deaths	Fire Service Injuries	Dollar Loss
Barnstable	860	336	100	424	1	18	0	11	$8,870,055
Berkshire	575	328	52	195	1	10	0	20	4,366,412
Bristol	2,014	858	264	892	6	32	0	20	19,983,475
Dukes	37	10	5	22	1	0	0	0	411,500
Essex	2,841	1,386	265	1,190	6	22	0	47	18,934,393
Franklin	296	151	30	115	0	2	0	3	3,799,610
Hampden	2,064	1,016	228	820	10	29	0	51	11,674,154
Hampshire	480	193	43	244	0	10	0	4	3,602,981
Middlesex	5,622	3,021	407	2,194	7	40	0	63	47,414,421
Nantucket	80	51	7	22	0	1	0	0	230,500
Norfolk	3,213	1,819	222	1,172	10	18	0	122	42,659,659
Plymouth	2,061	896	235	930	4	41	0	28	18,159,987
Suffolk	6,918	4,710	359	1,849	3	6	0	25	36,762,337
Worcester	4,241	2,208	374	1,659	13	64	0	71	41,359,471
Total	**31,302**	**16,983**	**2,591**	**11,728**	**62**	**293**	**0**	**465**	**$258,228,955**

2015 Arsons by County

County	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons	Civilian Deaths	Civilian Injuries	Fire Service Deaths	Fire Service Injuries	Dollar Loss
Barnstable	48	5	2	41	0	1	0	0	$137,410
Berkshire	28	9	6	13	0	2	0	2	70,700
Bristol	83	26	16	41	1	0	0	0	778,750
Dukes	1	0	1	0	0	0	0	0	0
Essex	85	19	15	51	1	0	0	1	1,262,284
Franklin	15	3	1	11	0	0	0	0	6,000
Hampden	103	28	15	60	0	2	0	1	1,257,210
Hampshire	30	4	1	25	0	0	0	0	382,505
Middlesex	66	20	9	37	2	3	0	2	606,391
Nantucket	0	0	0	0	0	0	0	0	0
Norfolk	59	8	5	46	0	0	0	0	184,224
Plymouth	38	14	3	21	0	0	0	3	691,357
Suffolk	120	25	10	85	0	0	0	0	244,750
Worcester	107	38	12	57	2	1	0	6	2,211,586
Total	**783**	**199**	**95**	**489**	**6**	**9**	**0**	**15**	**$7,833,167**

2015 Fires, Arsons and Deaths by County and by Population*

County	Population	Total Fires	Fires per 1,000 Pop.	Fire Deaths	Deaths per 1,000 Fires	Deaths per 10,000 Pop.	Total Arsons	Arsons per 1,000 Pop.
Barnstable	215,888	860	4.0	1	1.2	0.05	48	0.2
Berkshire	131,219	575	4.4	1	1.7	0.08	28	0.2
Bristol	548,285	2,014	3.7	6	3.0	0.11	83	0.2
Dukes	16,535	37	2.2	1	27.0	0.60	1	0.1
Essex	743,159	2,841	3.8	6	2.1	0.08	85	0.1
Franklin	71,372	296	4.1	0	0.0	0.00	15	0.2
Hampden	463,490	2,064	4.5	10	4.8	0.22	103	0.2
Hampshire	158,080	480	3.0	0	0.0	0.00	30	0.2
Middlesex	1,503,085	5,622	3.7	7	1.2	0.05	66	0.04
Nantucket	10,172	80	7.9	0	0.0	0.00	0	0.0
Norfolk	670,850	3,213	4.8	10	3.1	0.15	59	0.1
Plymouth	494,919	2,061	4.2	4	1.9	0.08	38	0.1
Suffolk	722,023	6,918	9.6	3	0.4	0.04	120	0.2
Worcester	798,552	4,241	5.3	13	3.1	0.16	107	0.1
Massachusetts	**6,547,629**	**31,302**	**4.8**	**62**	**2.0**	**0.09**	**783**	**0.1**

*Population statistics based on 2010 U.S. Census Bureau data.

2015 Non-Fire Responses by County and by Incident Type

County	Total Non-Fire Responses	Overpressure Rupt. & Explos. (No-fire)	Rescue EMS Incidents	Hazardous Conditions (No-fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX[1] & Natural Disaster	Special Incident Type
Barnstable	45,540	47	31,395	1,915	3,686	1,792	5,915	96	154
Berkshire	12,010	7	6,836	676	1,651	618	2,164	5	53
Bristol	66,908	75	44,746	2,673	4,276	3,941	10,680	39	478
Dukes	679	2	68	45	27	170	352	0	15
Essex	98,888	91	57,399	4,314	13,216	6,412	16,602	81	773
Franklin	6,622	18	3,839	521	812	583	701	12	136
Hampden	43,427	68	25,210	1,877	3,644	5,553	6,867	16	192
Hampshire	13,935	23	8,334	654	1,458	818	2,550	16	82
Middlesex	178,637	113	105,106	10,236	18,781	10,490	28,572	94	5,245
Nantucket	3,042	8	1,395	276	162	52	1,140	0	9
Norfolk	87,628	100	53,422	5,515	9,032	5,272	12,635	54	1,598
Plymouth	85,036	90	57,249	4,407	7,604	5,665	9,695	95	281
Suffolk	102,250	64	54,101	4,522	15,861	9,534	17,678	15	475
Worcester	94,496	119	62,498	4,145	7,817	6,181	12,550	48	1,138
Massachusetts	**839,148**	**825**	**512,138**	**41,776**	**88,027**	**57,081**	**128,101**	**571**	**10,629**

[1] WX is the abbreviation for Weather.

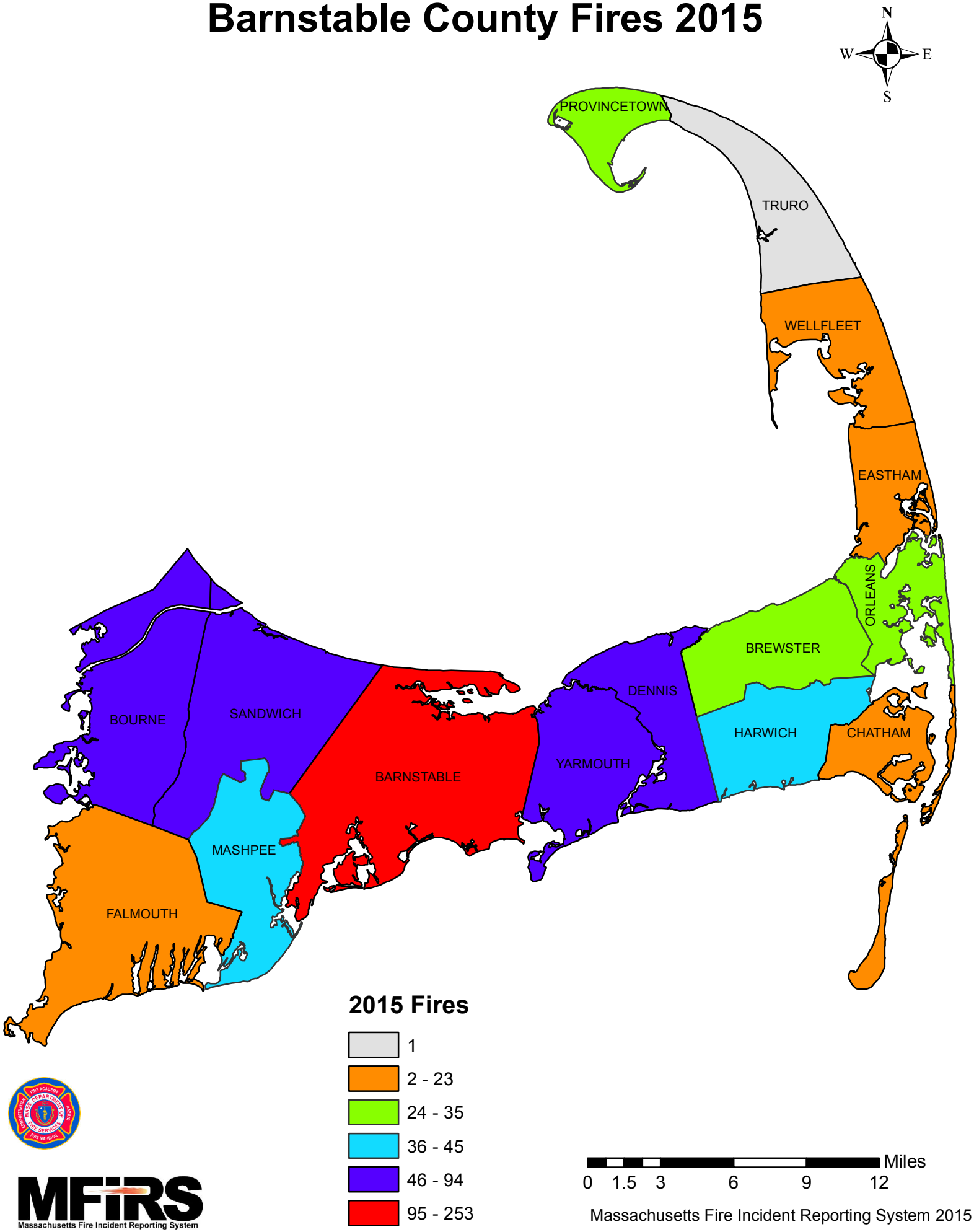
Barnstable County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Barnstable County Fires 2015



Barnstable County Fires in 2015

860 Total Fires — 336 Structures, 100 Vehicles & 424 Other Fires
Barnstable County ranked ninth out of the 14 Massachusetts counties in total reported fires. Barnstable County fire departments reported 860 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 336 structure fires, 100 motor vehicle fires, 261 brush, tree, or lawn fires, 71 outside rubbish fires, 49 special outside fires, two cultivated crop or vegetation fires, and 41 unclassified fires caused one civilian death, 18 civilian injuries, 11 fire service injuries and an estimated dollar loss of $8.9 million. Barnstable County's fires accounted for 3% of the 28,999 Massachusetts fires reported in 2015.

All 20 of Barnstable County's fire departments either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Structure Fires Down
The total number of reported fire incidents decreased by 42 from the 902 reported in 2014. Reported structure fires decreased by 77 from the 413 reported during the previous year. Motor vehicle fires increased by 18 from the 82 reported during 2014. Outside and other fires increased by 17 from the 407 reported the year before.

BARNSTABLE COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	914	413	110	391	56	8	1	47
2012	900	360	117	423	47	9	5	333
2013	805	395	90	320	48	8	0	40
2014	902	413	82	407	55	7	4	44
2015	860	336	100	424	48	5	2	41

Fire and Fire Death Rates
Barnstable County had 4.0 fires per 1,000 population. That figure ranks Barnstable County ninth in the state and below the state rate of 4.8 fires per 1,000 population. Barnstable County also had 0.05 fire deaths per 10,000 population, ranking it tied for ninth and below the state rate of 0.09 fire deaths per 10,000 population.

1 Fatal Fire in Barnstable County
In 2015, Barnstable County had one fatal fire kill one person.

- On January 12, 2015, at 10:11 p.m., the Chatham Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire originated on the first floor. The victim, a 74-year old man, was sleeping at the time of the fire. No one else was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from the blaze were estimated to be $420,000.

Eastham Had Barnstable County's Largest Loss Fire

In 2015 Barnstable County did not have any large loss fires over $1 million in estimated damages. Eastham had the fire with the most estimated damages, which was 9% of the county's total dollar loss.

- On March 8, 2015, at 7:70 a.m., the Eastham Fire Department responded to a fire in a single-family home. The byproducts of refinishing the floors earlier in the day spontaneously combusted and started the fire. One (1) firefighter was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not equipped with sprinklers. Damages were estimated to be $777,100.

STRUCTURE FIRES

Reported Structure Fires Up

The 336 structure fires caused one civilian death, 11 civilian injuries, 11 fire service injuries and an estimated dollar loss of $7.6 million. These incidents represented 39% of Barnstable County's reported fires in 2015. The total number of reported structure fires decreased by 77, or 19%, from the 413 reported in 2014. The average estimated dollar loss per structure fire was $22,519.

Arson Caused 1% of Structure Fires

The five structure arsons caused an estimated dollar loss of $106,300. Arson was indicated as the cause of 1% of the structure fires and 1% of Barnstable County's structure fire dollar loss. The five structure arsons accounted for 10% of the Barnstable County arson fires reported in 2015. The total number of reported structure arsons decreased by two from the seven reported in 2014.

40% of Structure Arsons Occurred in Residences

Forty percent (40%) of Barnstable County's five structure arsons occurred in residential occupancies, 20% happened in institutional facilities; 20% occurred in mercantile or business properties; and 20% occurred in an unclassified property.

BUILDING FIRES

There were 330 building fires of different types in Barnstable County in 2015. These 330 building fires accounted for 98.2% of all building fires in Barnstable County.

84% of Barnstable County Building Fires Occurred in People's Homes

Two hundred and seventy-five (275), or 84%, of Barnstable County's 330 building fires occurred in residential occupancies. Twenty-four (24) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 12 fires. Seven (7) fires also took place in storage properties. Hospitals, prisons, and other institutional buildings experienced four fires. Three (3) fires occurred in special properties. One (1) fire took place in an educational facility and another fire occurred at an industrial facility. One (1) fire took place in an unclassified property in Barnstable County in 2015.

RESIDENTIAL FIRES

Residential Building Fires Are Down

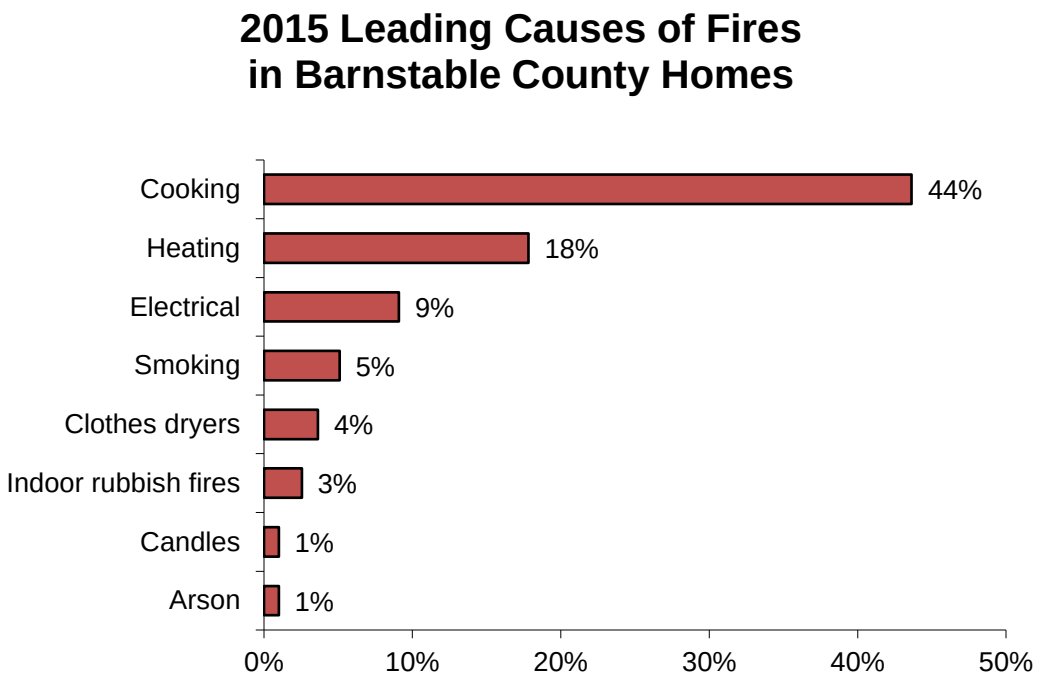
There were 275 reported residential building fires in Barnstable County in 2015. These 275 fires are an decrease of 60, or 18%, from the 335 residential building fires reported in 2014.

1- & 2-Family Homes Accounted for 74% of Residential Building Fires

The peak fixed property use for residential building fires were one- or two-family homes, accounting for 74% of the building fires in Barnstable County; 13% occurred in apartments; 4% happened in hotels or motels; 2% occurred in rooming houses; 1% occurred in residential board and care facilities; and 1% happened in dormitories. Five (5), or 2%, of the building fires in Barnstable County occurred in unclassified residential buildings.

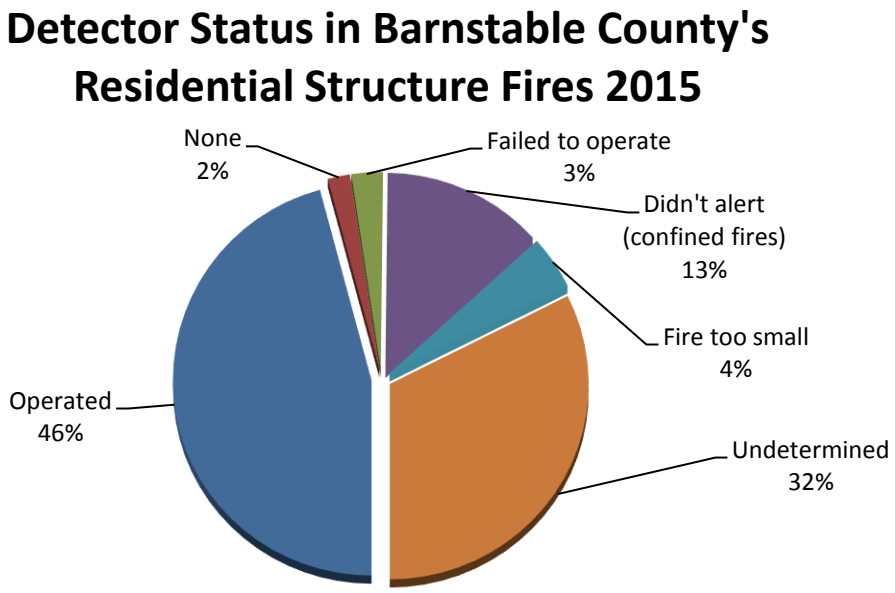
Unattended Cooking Leading Cause of Residential Fires

The leading cause of residential building fires in Barnstable County was unattended cooking and other unsafe cooking practices, accounting for 44% of the fires. Heating fires accounted for 18% of the fires in people's homes in 2015; 61% involved a chimney or flue and 45% involved a fuel burner or boiler. Electrical problems caused 9% of fires in residential buildings. Smoking caused 5% of these fires. Clothes dryers caused 4% of these fires. Indoor rubbish fires were responsible for 3%. Candles and arson each accounted for 1% of the fires in Barnstable County in 2015.



55% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
One hundred and fifty (150), or 55%, of all residential building fires were reported as confined to non-combustible containers in Barnstable County in 2015. Ninety-seven (97), or 35%, of all residential building fires reported in 2015 were cooking fires contained to a non-combustible container. Twenty-six (26) of the reported fires were confined to a chimney, accounting for 9% of residential building fires. Nineteen (19), or 7%, were fires confined to a fuel burner or boiler malfunction. Seven (7), or 3%, of these fires were rubbish fires contained to a non-combustible container.

Detectors Alerted Occupants in Only 46% of Fires
Smoke or heat detectors operated and alerted the occupants in 126, or 46%, of the residential building fires. In 13% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. In 2% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 4% of the residential fires. Smoke detector performance was undetermined in 89 incidents, or 32%, of Barnstable County's residential building fires.



4 of 7 Detectors Failed from Missing or Disconnected Batteries
Of the seven fires where smoke detectors were present but failed to operate, four, or 57%, failed because of missing or disconnected batteries. One (1), or 14%, failed because it was defective. It was undetermined in two cases, or 29%, why the detector failed.

---

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

VACANT BUILDINGS

5% of Building Fires Occurred in Vacant Buildings

Barnstable County reported 15 fires that occurred in buildings that were vacant, under construction or demolition. This represented 5% of the 330 building fires reported to MFIRS in 2015. Ten (10) one- or two-family homes, two hotels or motels, two restaurants, and one industrial facility were reported as vacant building fire incidents.

One (1), or 7%, of the vacant building fires in Barnstable County in 2015 was determined to be intentionally set. This fire occurred in a hotel.

JUVENILE-SET FIRES

20 Juvenile-set Fires

There were 20 reported juvenile-set fires in Barnstable County in 2015. There were 19 brush fires and one structure fire. These 19 fires accounted for $4,500 in estimated damages.

ARSONS

48 Total Arsons — 5 Structures, 2 Vehicle & 41 Other Arsons

Forty-eight (48), or 6%, of Barnstable County's 860 fires were considered intentionally set, or, for purposes of this analysis, arson. The five structure arsons, two motor vehicle arsons and 41 outside and other arsons caused one civilian injury and an estimated dollar loss of $137,410.

All Arson Down Slightly in 2015

The total number of reported arson fires decreased by seven, or 13%, from the 55 reported in 2014. Reported structure arsons decreased by two from the seven reported in 2014. Motor vehicle arsons decreased by two from four reported in 2014. Reported outside and other arsons decreased by three from the 44 reported in 2014.

ALL INCIDENTS

Rescue & EMS Calls Are 69% of All Reported Incidents

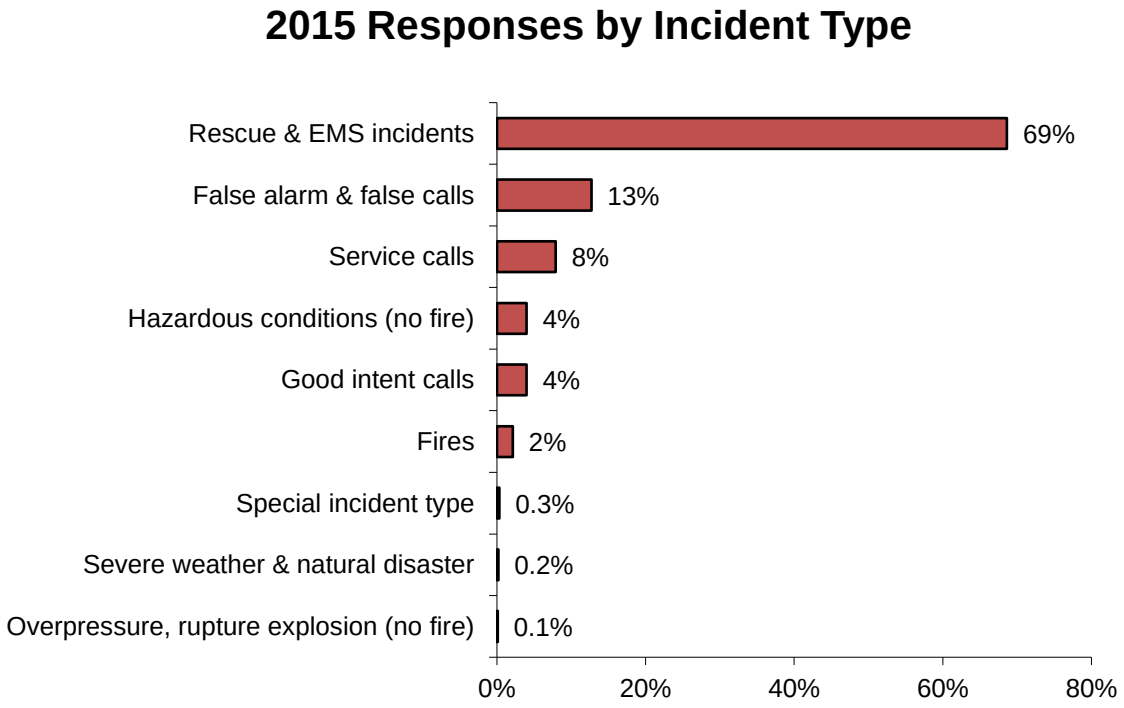
In 2015, Barnstable County fire departments reported 46,542 responses[3] to MFIRS. Of these 46,542 incidents, 45,540 non-fire calls were voluntarily reported.

Of these 45,540 non-fire calls, 31,935, or 69%, of all of the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 5,915 , or 13%, were reported false alarm or false calls; 3,686, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,915, or 4%, were reported hazardous condition calls with no fire; 1,792, or 4%, reported good

[3] These figures include responses in which Barnstable County fire departments gave mutual aid to other fire departments.

intent calls; 154, or 0.3%, were special incident type calls such as citizen complaints; 96, or 0.2%, were severe weather responses; and 47, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

One thousand and two (1,002), or 2%, of the total responses submitted by Barnstable County fire departments were fires.



Barnstable County Departments Gave Aid 1,582 Times
In 2015, Barnstable County fire departments reported coming to the aid of other fire departments 1,582 times. Of these 1,582 responses, 923, or 58%, were for rescue or EMS incidents; 245, or 15%, were for service calls such as cover assignments; 209, or 13%, were for good intent calls; 142, or 9%, were for fires; 27, or 2%, were for false alarms or false calls; 25, or 2%, were for hazardous conditions calls with no fire; 10, or 1%, were special incident types; and one, or 0.1%, was for an overpressure, rupture or explosion call with no ensuing fire.

Barnstable County Received Mutual Aid in 927 Incidents
In 2015, Barnstable County fire departments received aid from surrounding departments in 927 incidents. Of these 927 incidents, 720, or 78%, were rescue and emergency medical services calls; 106, or 11%, were for fires; 30, or 3%, were good intent calls; 29, or 3%, were false alarms or false calls; 28, or 3%, were hazardous conditions calls with no fire; 11, or 1%, were service calls; two, or 0.2%, were overpressure, rupture, explosion or overheat calls with no fire; three, and one, or 0.1%, was for a special incident type.

Barnstable County Population: 215,888

4.0 Fires/1,000 Population

Total Fires: 860 **$8,870,055**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	336	39%	$9,027,993
Vehicle Fires	100	12%	361,549
Other Fires	424	49%	76,685

1 Fatal Fire
1 Civilian Death
18 Civilian Injuries

1.16 Civilian Deaths/1,000 Fires
0.05 Civilian Deaths/10,000 Population
11 Fire Service Injuries

Building Fires: 330

Residential Structure Fires: 275

Residential Structure Fires Confined to Non-Combustible Containers: 150

Unconfined Residential Structure Fires: 125

1 Civilian Death 10 Civilian Injuries 8 Fire Service Injuries

Occupancy	Fires	%
1- & 2-Family homes	204	74%
Apartments	42	15%
Hotels or motels	13	5%
Rooming houses	6	2%
Dormitories	3	1%
Residential board & care	2	1%

Detector Status	Fires	%
Operated	126	46%
Didn't operate	7	3%
None	5	2%
Fire too small	12	4%
Didn't Alert (confined)	36	13%
Undetermined	89	32%

Area of Origin[4]	%
Kitchen	46%
Chimney or flue	9%
Heating room or area	7%
Bedroom	4%
Bathroom	3%

Heat Source	%	%Unconfined[5]
Heat from operating eq.	8%	18%
Radiated heat/oper. eq.	7%	14%
Arcing	5%	10%
Hot or smoldering object	3%	6%
Cigarette	2%	5%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Food, cooking materials	37%	Abandoned materials	4%	10%
Film, residue (creosote)	9%	Too close to combustibles	4%	10%
Flammable or comb. liquid	7%	Electrical failure, malfunct.	4%	8%
Structural member, framing	4%	Unspecified short-circuit arc	2%	4%
Exterior sidewall covering	4%	Equipment unattended	2%	4%
Rubbish, trash, waste	4%			

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
Cooking equipment	44%	Unintentional	27%	59%
None	25%	Failure of eq. or heat source	4%	10%
Chimney or flue	9%	Intentional	1%	2%
Boiler, furnace, cent. heat unit	8%	Act of nature	1%	2%
Clothes dryer	3%	Undetermined	4%	10%
		Cause Under Investigation	7%	16%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	36%
Didn't Alert Occupants	24%
Undetermined	40%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	62	41	10	11
February	38	22	10	6
March	44	35	4	5
April	66	22	5	39
May	143	28	14	101
June	97	25	14	58
July	99	32	6	61
August	90	27	9	54
September	93	37	7	49
October	48	26	11	11
November	44	20	4	20
December	36	21	6	9

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	144	42	14	88
Monday	111	42	8	61
Tuesday	92	43	16	33
Wednesday	127	52	25	50
Thursday	135	47	14	74
Friday	106	45	11	50
Saturday	145	65	12	68

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	29	15	5	9
04:01 - 08:00	79	31	10	38
08:01 - 12:00	154	67	22	65
12:01 - 16:00	256	71	41	144
16:01 - 20:00	226	94	13	119
20:01 - 24:00	116	58	9	49

Motor Vehicle Fires

Total: 100
Automobiles: 72 (72%)
2 (3%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 48 **Dollar loss: $137,410**

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	5	1%	10%	$106,300
Vehicle Arsons	2	2%	5%	20,000
Other Arsons	41	10%	85%	11,110

0.02 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.19 Other arsons/1,000 population

1 Civilian Injury

Peak Times of Day for:

Structure Arsons	#	%
20:01 - 00:00	5	56%
16:01 - 20:00	3	33%
12:01 - 16:00	1	11%

Vehicle Arsons	#	%
00:01 - 04:00	2	100%

Other Arsons	#	%
12:01 - 16:00	14	34%
16:01 - 20:00	11	27%
20:01 - 00:00	7	17%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	1	20%
Hotel/motel, commercial	1	20%
Household goods, sales, repairs	1	20%
Mental retardation/development disability facility	1	20%

Town of Barnstable Fire Districts **Population: 45,193**

Barnstable ***Est Pop. Protected: 3,164***

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
2011	26	10	5	11	0	0	0	0
2012	29	9	1	19	2	0	0	2
2013	24	6	6	12	2	0	0	2
2014	24	9	6	9	0	0	0	0
2015	18	5	5	8	1	0	1	0

Centerville - Osterville - Marston Mills ***Est Pop. Protected: 23,048***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	59	29	4	26	2	0	1	1
2012	60	33	8	19	2	1	1	0
2013	68	29	14	25	7	1	0	6
2014	60	36	2	22	4	1	0	3
2015	75	33	4	38	6	2	0	4

Cotuit ***Est Pop. Protected: 3,164***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3	3	0	0	0	0	0	0
2012	3	1	0	2	0	0	0	0
2013	1	0	1	0	0	0	0	0
2014[10]	10	3	0	7	2	0	0	2
2015	5	0	0	5	1	0	0	1

Hyannis ***Est Pop. Protected: 12,654***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	128	54	19	55	7	1	0	6
2012	125	47	14	64	5	3	1	1
2013	115	53	11	51	2	2	0	0
2014	152	72	11	69	4	1	0	3
2015	151	45	16	90	3	0	0	3

[10] Cotuit reported 10 fires after this 2014 database was closed. None of these were included in the analysis.

West Barnstable ***Est Pop. Protected: 3,164***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	9	0	10	1	0	0	1
2012	31	8	6	17	2	1	0	1
2013	15	7	4	4	1	0	0	1
2014	10	4	1	5	0	0	0	0
2015	4	0	1	3	0	0	0	0

Bourne **Population: 19,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	68	29	9	30	4	0	0	4
2012	75	27	17	31	7	0	3	4
2013	27	20	3	4	0	0	0	0
2014	79	33	11	35	8	0	0	8
2015	77	19	20	38	7	0	1	6

Brewster **Population: 9,820**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	43	21	2	20	1	0	0	1
2012	28	14	4	10	2	1	0	1
2013	36	17	1	18	0	0	0	0
2014	31	9	3	19	3	0	1	2
2015	35	11	1	23	3	0	0	3

Chatham **Population: 6,125**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	23	12	3	8	1	0	0	1
2012	21	8	2	11	0	0	0	0
2013	21	7	1	13	3	1	0	2
2014	39	20	1	18	1	0	0	1
2015	21	11	2	8	0	0	0	0

Dennis **Population: 14,207**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	79	17	14	48	5	0	0	5
2012	74	14	6	54	9	0	0	9
2013	60	30	5	25	6	1	0	5
2014	74	24	3	47	13	1	0	12
2015	88	35	7	46	3	0	0	3

Eastham **Population: 4,956**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	26	13	3	10	4	0	0	4
2012	16	5	0	11	1	1	0	0
2013	29	16	3	10	0	0	0	0
2014	16	11	0	5	0	0	0	0
2015	16	10	2	4	1	0	0	1

Falmouth **Population: 31,531**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	74	29	17	28	10	2	0	8
2012	83	27	22	34	4	0	0	4
2013	65	35	9	21	5	2	0	3
2014	51	21	8	22	3	2	0	1
2015	9	8	0	1	1	1	0	0

Harwich **Population: 12,243**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	45	19	7	19	3	1	0	2
2012	54	21	6	27	1	1	0	0
2013	46	18	5	23	3	0	0	3
2014	49	21	8	20	2	1	0	1
2015	45	21	5	19	1	0	0	1

Joint Base Cape Cod (formerly: MA Military Reservation) **Population: 0**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	4	0	5	1	0	0	1
2012	6	1	3	2	0	0	0	0
2013	11	1	0	10	4	0	0	4
2014	8	2	0	6	1	0	0	1
2015	6	1	2	3	1	0	0	1

Mashpee **Population: 14,006**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	60	24	6	30	3	0	0	3
2012	34	17	4	13	2	0	0	2
2013	40	17	5	18	4	0	0	4
2014	53	33	4	16	2	0	0	2
2015	41	13	5	23	2	0	0	2

Orleans **Population: 5,890**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	35	8	2	25	5	0	0	5
2012	40	15	4	21	1	0	0	1
2013	18	6	2	10	1	0	0	1
2014	25	8	5	12	1	0	1	0
2015	29	9	1	19	2	0	0	2

Provincetown **Population: 2,942**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	21	15	1	5	0	0	0	0
2012	21	12	2	7	0	0	0	0
2013	28	21	2	5	0	0	0	0
2014	21	12	2	7	1	0	0	1
2015	32	21	2	9	0	0	0	0

Sandwich **Population: 20,675**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	102	76	11	15	2	1	0	1
2012	108	71	10	27	2	1	0	1
2013	118	80	10	28	3	0	0	3
2014	94	56	9	29	4	0	1	3
2015	90	40	14	36	4	1	0	3

Truro **Population: 2,003**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	2	1	1	0	0	0	0	0
2014	2	1	0	1	0	0	0	0
2015	1	0	0	1	0	0	0	0

Wellfleet **Population: 2,750**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	30	15	2	13	1	0	0	1
2012	25	10	4	11	1	0	0	1
2013	18	7	3	8	1	0	0	1
2014	19	6	1	12	0	0	0	0
2015	23	13	1	9	2	0	0	2

Yarmouth **Population: 23,793**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	62	22	4	36	9	3	0	6
2012	64	17	4	43	6	0	0	6
2013	46	19	3	24	2	0	0	2
2014	74	25	7	42	5	1	1	3
2015	94	41	12	41	10	1	0	9

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
01919	Barnstable	1,234	20	2	712	47	140	57	253	2	1
01036	Bourne	4,629	84	4	3,513	138	192	139	528	3	28
01041	Brewster	2,847	53	0	2,138	84	117	111	324	10	10
01055	Chatham	2,389	28	1	1,488	116	244	154	342	11	5
01921	Cotuit	594	5	1	302	22	98	36	123	2	5
01920	C.O.M.M.	4,087	83	8	2,846	144	277	104	593	8	24
01075	Dennis	4,962	109	8	3,393	248	479	185	527	0	13
01086	Eastham	1,708	29	1	1,280	60	93	72	171	2	0
01096	Falmouth	41	9	1	0	13	0	0	18	0	0
01126	Harwich	4,015	68	2	3,068	149	193	139	388	2	6
01922	Hyannis	1,351	152	6	53	228	192	97	617	1	5
01936	Joint Base Cape Cod	806	7	0	74	141	293	10	280	0	1
01172	Mashpee	3,602	52	1	2,473	123	336	142	468	4	3
01224	Orleans	1,883	40	0	1,405	70	117	41	201	6	3
01242	Provincetown	167	33	1	13	23	9	17	70	0	1
01261	Sandwich	3,876	91	0	2,707	134	390	163	349	5	37
01300	Truro	2	1	0	0	0	0	0	0	1	0
01318	Wellfleet	935	26	1	594	32	123	41	117	1	0
01923	West Barnstable	352	11	1	223	13	55	13	32	1	3
01351	Yarmouth	7,062	101	9	5,653	130	338	271	514	37	9
Total	**Barnstable County**	**46,542**	**1,002**	**47**	**31,935**	**1,915**	**3,686**	**1,792**	**5,915**	**96**	**154**

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

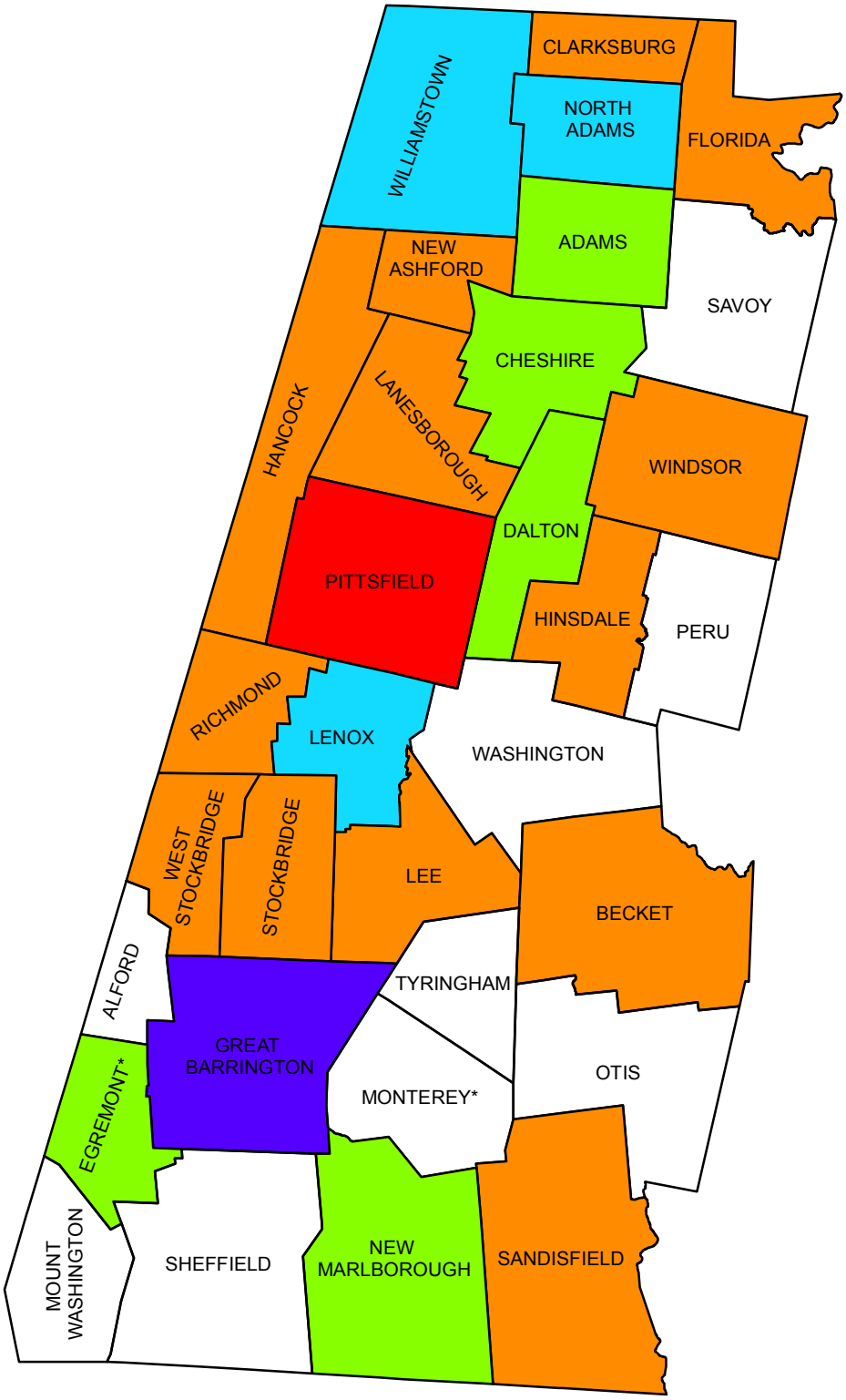
Berkshire County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Berkshire County Fires 2015



2015 Fires

- 0
- 1 - 10
- 11 - 25
- 26 - 50
- 51 - 90
- 91 - 239

*Non-reporting Department

Miles

0 1.5 3 6 9 12

MFIRS
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2015

Berkshire County Fires in 2015

575 Total Fires — 328 Structures, 52 Vehicles & 195 Outside and Other Fires
Berkshire County ranked tenth out of the fourteen Massachusetts counties in total reported fires. Berkshire County fire departments reported 328 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 328 structure fires, 52 motor vehicle fires, 103 brush, tree or lawn fires, 54 outside rubbish fires, 15 special outside fires, and 23 other fires caused one civilian death, 10 civilian injuries, 20 fire service injuries and an estimated dollar loss of $4.4 million. Berkshire County's fires accounted for 2% of the 31,302 Massachusetts fires reported in 2015.

Thirty (30) of Berkshire County's 31 fire departments either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

All Fires Up
The total number of reported fire incidents increased by 97 from the 478 reported in 2014. Reported structure fires increased by 32 from the 296 reported during the previous year. Motor vehicle fires increased by seven from the 45 reported in 2014. Outside and other fires increased by 58 from the 137 reported in 2014.

BERKSHIRE COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	551	340	47	164	26	11	3	12
2012	606	350	34	222	25	6	0	19
2013	481	294	39	148	13	6	0	7
2014	478	296	45	137	19	3	3	13
2015	575	328	52	195	28	9	6	13

Fire and Fire Death Rates
Berkshire County had 4.4 fires per 1,000 population. That figure ranks Berkshire County tied for tenth in the state and below the state rate of 4.8 fires per 1,000 population. Berkshire County also had 0.08 fire deaths per 10,000 populations ranking it tied for sixth among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

1 Person Killed in a Berkshire County Fire
In 2015 one person died in a fire in Berkshire County.

- On February 18, 2015, at 6:49 p.m., the Adams Fire Department was called to a fatal candle fire in a two-family home. The candle started a fire in the bedroom. The victim, an 88-year old woman, was overcome by the smoke generated by the fire as she attempted to escape. She was transported to a local hospital where she succumbed to her injuries. No one else was injured at this fire. Alarms were present and alerted

the occupants. The building was not sprinklered. Damages from the blaze were estimated to be $114,363.

Hinsdale Had Berkshire County's Largest Loss Fire

Berkshire County did not have any fires that reported a dollar loss over $1 million. Hinsdale reported the incident that had the greatest dollar loss in Berkshire County in 2015. This fire was responsible for 22% of the total county fire loss in 2015.

- On February 7, 2015, at 5:25 a.m., the Hinsdale Fire Department was called to a fire of undetermined cause in a single-family home. No one was injured at this fire. It was undetermined if alarms were present; and the building was not sprinklered. Damages from this fire were estimated to be $980,000.

STRUCTURE FIRES

Reported Structure Fires Up

The 328 structure fires caused one civilian death, nine civilian injuries, 18 fire service injuries and an estimated dollar loss of $3.8 million. These incidents represented 57% of Berkshire County's reported fires in 2015. The average estimated dollar loss per structure fire was $11,711. The total number of reported structure fires increased by 32, or 11%, from the 296 reported in 2014.

Arson Caused 3% of Structure Fires

The nine structure arsons caused two civilian injuries, two fire service injuries and an estimated dollar loss of $21,000. Arson was indicated as the cause of 3% of the structure fires and 1% of Berkshire County's structure fire dollar loss. The nine structure arsons accounted for 32% of the Berkshire County arson fires reported in 2015. The total number of reported structure arsons increased by six from the three reported in 2014.

78% of Structure Arsons Occurred in Residences

Seven (7), or 78% of Berkshire County's structure arsons occurred in residential occupancies in 2015. One (1), or 11%, occurred in an educational facility and another one, or 11%, happened in a special property.

BUILDING FIRES

There were 328 building fires of different types in Berkshire County in 2015. These 328 building fires accounted for all of structure fires in Berkshire County.

85% of Berkshire Building Fires Occurred in People's Homes

Two hundred and seventy-nine (279), or 85%, of Berkshire County's 328 building fires occurred in residential occupancies. Twelve (12) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 11 fires. Storage facilities also had 11 fires. Eight (8) fires occurred at educational facilities. Hospitals, prisons, and other institutional buildings experienced four fires. Special properties, such as outbuildings or sheds had three fires in Berkshire County in 2015.

RESIDENTIAL FIRES

Residential Building Fires Up

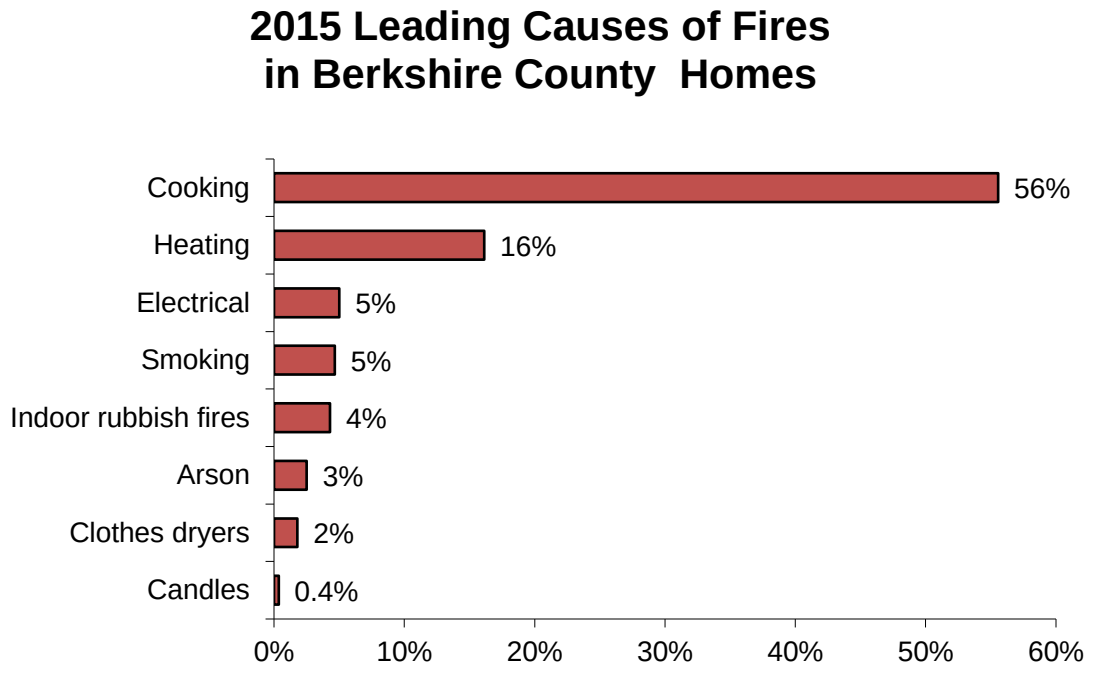
There were 279 reported residential building fires in Berkshire County in 2015. These 279 fires are an increase of 33, or 13%, from the 246 residential building fires reported in 2014.

1- & 2-Family Homes Accounted for 54% of Residential Building Fires

The peak fixed property uses for residential building fires were one- or two-family homes, accounting for 54% of the building fires in Berkshire County; 33% occurred in apartments; 4% occurred in hotels or motels; 3% happened in dormitories; 2% occurred in residential board and care facilities; and 1% happened in rooming houses. Eight (8), or 3%, of the building fires in Berkshire County occurred in unclassified residential buildings.

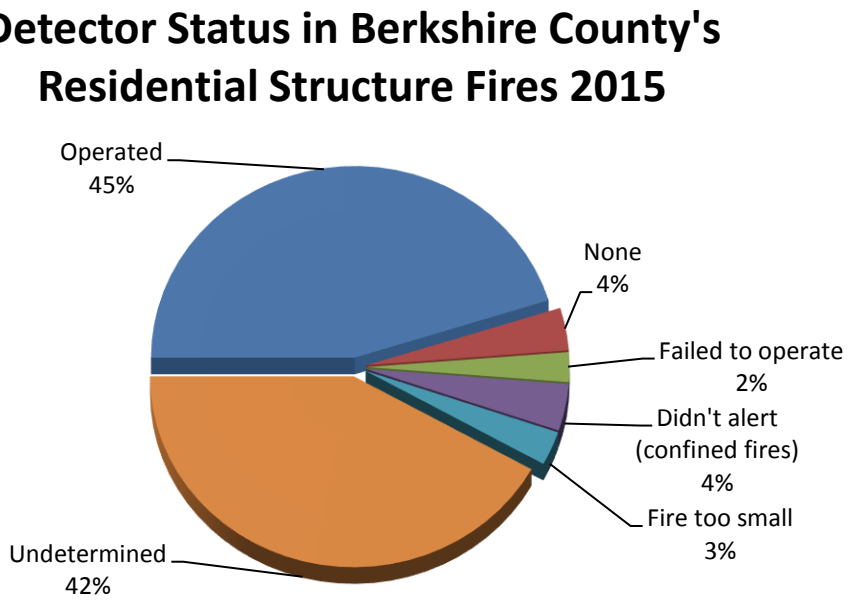
Unattended Cooking Causes Over 1/2 of Residential Fires

The leading cause of residential building fires in Berkshire County was unattended cooking and other unsafe cooking practices, accounting for 56% of the fires. Heating caused 16% of the residential building fires, of which 24, or 53%, were caused by chimney, fireplace or flue fires. Electrical fires and smoking each caused 5% of the fires. Indoor rubbish fires caused 4%. Arsons were each responsible for 3%; and clothes dryers started 2%. Candles caused 0.4% of Berkshire County's residential building fires in 2015.



68% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
One hundred and ninety (190), or 68%, of these fires were confined to a non-combustible container. One hundred and thirty-nine (139), or 50%, of all residential building fires reported in 2015 were cooking fires contained to a non-combustible container. Twenty-three (23) of the reported fires were confined to a chimney, accounting for 12% of residential building fires. Fires confined to a fuel burner or boiler malfunction accounted for 15, or 8% of these fires. Twelve (12), or 6%, of these fires were confined indoor rubbish fires.

Detectors Undetermined in 42% of Fires
Smoke or heat detectors operated and alerted the occupants in 126, or 45%, of the residential building fires. In 4% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 117 incidents, or 42%, of Berkshire County's residential building fires.



2 Failed from Missing Batteries
Of the seven fires where smoke detectors were present but failed to operate, two, or 29%, failed because the battery was either missing or disconnected. A lack of maintenance and

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.
[2] These represent confined fires where it was reported that the detector did not alert the occupants.

a power failure were each the reason why a detector failed in a residential fire in Berkshire County in 2015. In three fires it was undetermined why the detector failed.

VACANT BUILDINGS

4% of Building Fires Occurred in Vacant Buildings
Berkshire County reported 13 fires that occurred in buildings that were vacant, under construction or demolition. This represented 4% of the total 328 building fires reported to MFIRS in 2015. Six (6) of these occurred in storage facilities; five happened in residential properties; one happened in a public assembly property; and another occurred in a special property.

Two (2), or 15%, of the vacant building fires in Berkshire County in 2015 were determined to be intentionally set. One (1) was in a single-family residence, and the other was undetermined.

JUVENILE-SET FIRES

7 Juvenile-set Fires
There were seven reported juvenile-set fires in Berkshire County in 2015. There were two structure fires, one motor vehicle fire and four brush fires. These seven fires caused $25,500 in estimated damages.

ARSONS

28 Total Arsons — 9 Structure, 6 Vehicle & 13 Other Arsons
Twenty-eight (28), or 5%, of Berkshire County's 328 fires were intentionally set, or, for purposes of this analysis, arson. The nine structure arsons, six motor vehicle arsons and 13 outside and other arsons caused two civilian injuries, two fire service injuries and an estimated dollar loss of $70,700.

Structure & Motor Vehicle Arsons Up
The total number of reported arson fires increased by nine from the 19 reported in 2014. Reported structure arsons increased by six from the three reported in 2014. Motor vehicle arsons increased by three from three reported in 2014. Reported outside and other arsons remained the same with 13 reported in both 2014 and 2015.

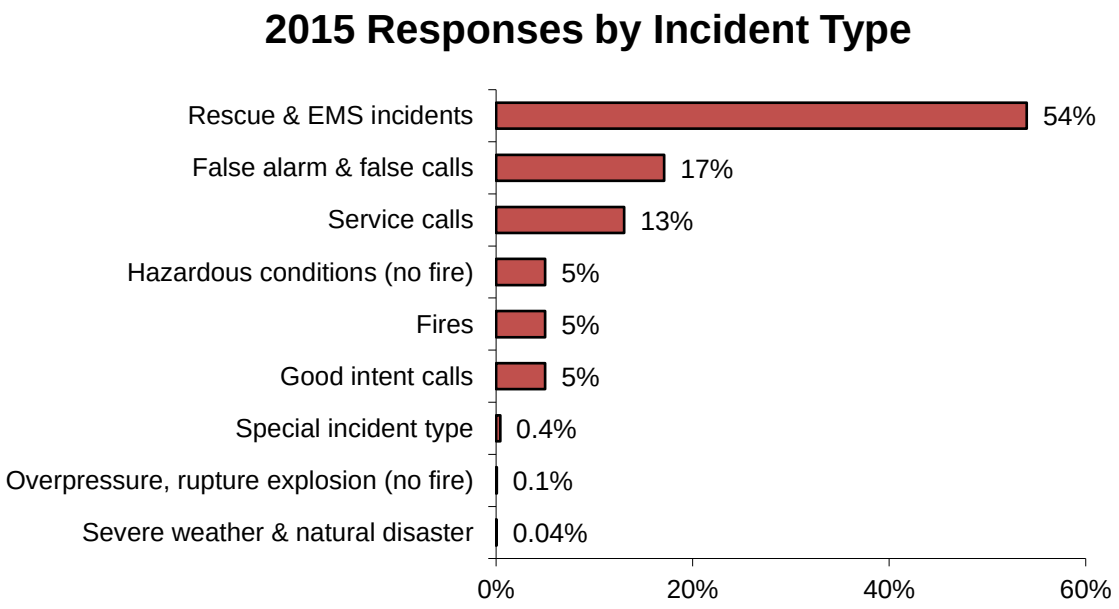
ALL INCIDENTS

Rescue & EMS Calls Are 54% of All Reported Responses
In 2015, Berkshire County fire departments reported 12,659 responses[3] to MFIRS. Of these 12,659 incidents, 12,010 non-fire incidents were voluntarily reported.

[3] These figures include responses in which Berkshire County fire departments gave mutual aid to other fire departments.

Of these 12,010 non-fire responses, 6,836 , or 54%, of all the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 2,164 , or 17%, were reported false alarm or false calls; 1,651, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 676, or 5%, were reported hazardous condition calls with no fire; 618, or 5%, were reported good intent calls; 53, or 0.4%, were special incident type calls such as citizen complaints; seven, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and five, or 0.04%, were severe weather responses.

Six hundred and forty-nine (649), or 5%, of the total responses submitted by Berkshire County fire departments were fires.



Berkshire County Departments Reported Giving Mutual Aid 256 Times
In 2015, Berkshire County fire departments reported coming to the aid of other fire departments 256 times. Of these 256 responses, 108, or 42%, were for rescue or EMS calls; 73, or 29%, were for fires; 41 or 16%, were for service calls such as cover assignments; 19, or 7%, were good intent calls; nine, or 4%, were for false alarms; five, or 2%, were for hazardous condition calls with no ensuing fire; and one, or 0.4%, was a severe weather or natural disaster call.

Berkshire County Received Mutual Aid in 707 Incidents
In 2015, Berkshire County fire departments reported receiving aid from surrounding departments in 707 incidents. Of these 707 incidents, 646, or 91%, were rescue and emergency medical services calls; 40, or 6%, were for fires; seven, or 1%, were false alarms or false calls; another seven, or 1%, were service calls; six, or 1%, were hazardous conditions calls with no fire; and one, or 0.1%, was a good intent call.

Berkshire County Population: 131,219

4.3 Fires/1,000 Population

Total Fires: 575 **$4,366,412**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	328	57%	$3,841,102
Vehicle Fires	52	9%	438,660
Other Fires	195	34%	86,650

1 Fatal Fire — 1.74 Civilian Deaths/1,000 Fires
1 Civilian Death — 0.08 Civilian Deaths/10,000 Population
10 Civilian Injuries — 20 Fire Service Injuries

Building Fires: 328

Residential Structure Fires: 279

Residential Structure Fires Confined to Non-Combustible Containers: 190

Unconfined Residential Structure Fires: 89

1 Civilian Deaths 9 Civilian Injuries 16 Fire Service Injuries

Occupancy	Fires	%
1- & 2-Family homes	152	54%
Apartments	92	33%
Hotels or motels	11	4%
Dormitories	7	3%
Residential board & care	5	2%
Rooming houses	4	1%

Detector Status	Fires	%
Operated	126	45%
Didn't operate	7	2%
None	10	4%
Fire too small	8	3%
Didn’t alert (confined)	11	4%
Undetermined	117	42%

Area of Origin[4]	%
Kitchen	57%
Chimney or flue	8%
Heating equipment room	6%
Bedroom	3%
Wall surface, exterior	3%
Living room	2%

Heat Source	%	%Unconfined[5]
Radiated heat from op. eq.	6%	19%
Heat from operating equip.	4%	12%
Arcing	3%	9%
Cigarette	3%	8%
Hot ember or ash	2%	7%
Hot or smoldering object	2%	6%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Food, cooking materials	52%	Too close to combustibles	3%	10%
Film, residue (creosote)	8%	Misuse of materials/products	3%	9%
Flammable, combustible liquid	5%	Abandoned materials	1%	4%
Rubbish, trash, waste	5%	Equipment unattended	1%	4%
Structural member, framing	3%	Failure to clean	1%	4%
Bedding	2%	Worn out	1%	2%

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
Cooking equipment	55%	Unintentional	22%	67%
None	16%	Failure of eq. or heat source	3%	9%
Chimney or flue	8%	Intentional	1%	4%
Boiler, furnace, cent. heat unit	6%	Act of Nature	1%	0.4%
Clothes dryer	1%	Undetermined	3%	8%
		Cause under investigation	2%	7%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	42%
Didn't alert occupants	6%
Undetermined	99%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	27	22	2	3
February	35	25	6	4
March	31	26	1	4
April	87	38	2	47
May	97	31	5	61
June	49	28	8	13
July	38	21	6	11
August	36	21	6	9
September	45	31	7	7
October	51	34	2	15
November	43	27	1	15
December	36	24	6	6

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	86	42	13	31
Monday	79	53	4	22
Tuesday	72	45	5	22
Wednesday	91	55	5	31
Thursday	74	42	9	23
Friday	74	36	6	32
Saturday	99	55	10	34

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	42	27	6	9
04:01 - 08:00	34	23	4	7
08:01 - 12:00	78	43	10	25
12:01 - 16:00	142	58	12	72
16:01 - 20:00	188	112	16	60
20:01 - 00:00	91	65	4	22

Motor Vehicle Fires

Total: 52
Automobiles: 42 (81%)
5, or (12%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 28 **Dollar loss: $70,700**

0.21 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	$ Loss
Structure Arsons	9	3%	32%	21,000
Vehicle Arsons	6	12%	21%	48,200
Other Arsons	13	7%	46%	1,500

0.07 Structure arsons/1,000 population
0.05 Vehicle arsons/1,000 population
0.10 Other arsons/1,000 population

2 Civilian Injuries 2 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%
16:01 - 20:00	4	44%
12:01 - 16:00	2	22%
20:01 - 00:00	1	33%

Vehicle Arsons	#	%
00:01 - 04:00	3	50%
04:01 - 08:00	1	17%
08:01 - 12:00	1	17%
12:01 - 16:00	1	17%

Other Arsons	#	%
00:01 – 04:00	4	31%
12:01 - 16:00	3	23%
16:01 - 20:00	2	15%
20:01 - 00:00	2	15%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	5	56%

Adams **Population: 8,405**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	16	1	2	0	0	0	0
2012	39	23	3	13	1	0	0	1
2013	31	21	1	9	1	1	0	0
2014	29	22	2	5	0	0	0	0
2015	20	11	7	2	1	0	0	1

Alford **Population: 494**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	0	1	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	2	2	0	0	0	0	0	0
2014	2	1	0	1	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Becket **Population: 1,779**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	3	3	0	0	0	0	0	0
2015	2	1	1	0	0	0	0	

Cheshire **Population: 3,235**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	10	6	0	4	0	0	0	0
2012	14	5	2	7	1	0	0	1
2013	9	6	2	1	0	0	0	0
2014	2	0	1	1	0	0	0	0
2015	14	9	2	3	1	1	0	0

Clarksburg **Population: 1,702**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011[10]	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	1	0	0	0	0	0	0
2013[11]	1	0	1	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	0	0	1	0	0	0	0

Dalton **Population: 6,756**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	15	1	0	1	1	0	0
2012	23	17	2	4	0	0	0	0
2013	13	7	1	5	0	0	0	0
2014	21	14	0	7	2	0	0	2
2015	18	8	4	6	6	3	2	1

Egremont **Population: 1,225**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	2	2	0	0	0	0	0	0
2015	15	7	2	6	0	0	0	0

Florida **Population: 752**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	2	0	0	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	4	3	0	1	0	0	0	0
2014	4	1	0	3	1	0	0	1
2015	2	1	1	0	0	0	0	0

[10] In 2011 Clarksburg reported 5 fire calls, all these were mutual aid calls to other fire departments.
[11] In 2014 Clarksburg reported 3 fire calls, all these were mutual aid calls to other fire departments.

Great Barrington **Population: 7,104**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	71	56	0	15	3	3	0	0
2012	92	72	0	20	1	1	0	0
2013	79	63	3	13	0	0	0	0
2014	82	68	6	8	0	0	0	0
2015	90	73	2	15	1	0	0	1

Hancock **Population: 717**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	3	3	0	0	0	0	0	0
2013	2	1	0	1	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	2	2	0	0	0	0	0	0

Hinsdale **Population: 2,032**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	2	0	0	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	3	3	0	0	0	0	0	0
2015	2	2	0	0	0	0	0	0

Lanesborough **Population: 3,091**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	2	2	2	1	0	1	0
2012	5	2	2	1	0	0	0	0
2013	3	0	0	3	0	0	0	0
2014	1	1	0	0	0	0	0	0
2015	10	6	2	2	0	0	0	0

Lee **Population: 5,943**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	1	0	0	0	0	0
2012	2	0	1	0	0	0	0	0
2013	3	3	0	0	0	0	0	0
2014	5	1	4	0	0	0	0	0
2015	4	3	0	1	0	0	0	0

Lenox **Population: 5,025**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	43	27	4	12	1	0	0	1
2012	38	27	0	11	1	1	0	0
2013	28	22	0	6	2	1	0	1
2014	31	23	3	5	0	0	0	0
2015	46	27	5	14	0	0	0	0

Monterey **Population: 961**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	3	1	1	1	1	0	0	1
2013	2	2	0	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Non-Reporting Community							

New Ashford **Population: 228**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	1	0	0	0	0	0	0

New Marlborough **Population: 1,509**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	14	9	0	5	0	0	0	0
2012	15	9	0	6	0	0	0	0
2013	9	5	0	4	0	0	0	0
2014	5	0	3	2	0	0	0	0
2015	14	4	2	8	0	0	0	0

North Adams **Population: 13,708**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	39	22	7	10	3	0	0	3
2012	42	20	4	18	2	0	0	2
2013	35	17	5	13	0	0	0	0
2014	47	19	6	22	6	1	1	4
2015	44	21	4	19	2	1	0	1

Otis **Population: 1,612**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Non-Reporting Community							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Peru **Population: 847**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011[12]	Fire Department in Good Standing, Certified No Reportable Fires							
2012	7	2	1	4	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	7	3	1	3	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

[12] In 2011, Peru reported 45 total calls. Four (4) of these calls were mutual aid fire calls.

Pittsfield **Population: 44,737**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	285	164	20	101	16	6	2	8
2012	281	142	14	125	16	3	0	13
2013	213	118	17	78	9	5	0	4
2014	180	103	15	62	7	2	1	4
2015	239	127	16	96	14	4	4	6

Richmond **Population: 1,475**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	7	3	1	3	0	0	0	0
2012	13	4	2	7	0	0	0	0
2013	5	3	2	0	0	0	0	0
2014	10	4	2	4	0	0	0	0
2015	7	4	0	3	0	0	0	0

Sandisfield **Population: 915**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	5	4	0	1	0	0	0	0
2012	6	2	0	4	1	0	0	1
2013	10	5	0	5	1	0	0	1
2014	3	3	0	0	0	0	0	0
2015	4	2	0	2	0	0	0	0

Savoy **Population: 692**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3	2	1	0	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	2	0	0	2	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Sheffield **Population: 3,257**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	2	0	0	2	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	3	2	0	1	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Stockbridge **Population: 1,947**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	1	0	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	2	2	0	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	2	2	0	0	0	0	0	0

Tyringham **Population: 327**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Washington[13] **Population: 7,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	0	0	0	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	1	0	0	0	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

[13] The Town of Washington has no fire department only a fire chief. Neighboring towns have automatic aid agreements for fire suppression. They did have 1 structure fire in town in 2012 and 2014.

West Stockbridge **Population: 1,306**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	5	1	3	1	0	0	0	0
2012	2	1	1	0	0	0	0	0
2013	5	1	2	2	0	0	0	0
2014	11	5	1	5	0	0	0	0
2015	8	2	2	4	0	0	0	0

Williamstown **Population: 7,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	15	7	4	4	1	1	0	0
2012	11	7	0	4	0	0	0	0
2013	23	13	5	5	1	0	0	1
2014	18	11	1	6	3	0	1	2
2015	27	14	2	11	2	0	0	2

Windsor **Population: 899**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	0	1	3	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	6	4	0	2	0	0	0	0
2015	3	1	0	2	1	0	0	1

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
03004	Adams	221	25	1	42	21	23	13	94	1	1
03006	Alford*	0	0	0	0	0	0	0	0	0	0
03022	Becket	3	3	0	0	0	0	0	0	0	0
03058	Cheshire	320	16	0	247	13	16	9	16	0	3
03063	Clarksburg	2	2	0	0	0	0	0	0	0	0
03070	Dalton	1,000	27	0	702	46	89	38	86	0	12
03090	Egremont	186	15	0	107	7	11	3	42	0	1
03098	Florida	51	6	0	32	1	6	6	0	0	0
03113	Great Barrington	595	100	1	167	43	53	24	204	2	1
03121	Hancock	2	2	0	0	0	0	0	0	0	0
03132	Hinsdale	2	2	0	0	0	0	0	0	0	0
03148	Lanesborough	335	10	1	240	8	12	13	44	1	6
03150	Lee	5	4	0	0	1	0	0	0	0	0
03152	Lenox	572	52	0	112	50	71	22	263	1	1
03193	Monterey**	0	0	0	0	0	0	0	0	0	0

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
03200	New Ashford	21	5	0	12	1	1	0	2	0	0
03203	New Marlborough	162	19	0	85	4	1	3	50	0	0
03209	North Adams	1,233	45	0	281	125	336	117	322	0	7
03225	Otis*	0	0	0	0	0	0	0	0	0	0
03233	Peru	17	3	0	13	1	0	0	0	0	0
03236	Pittsfield	7,191	239	4	4,514	281	994	319	821	0	19
03249	Richmond	122	13	0	30	26	11	8	33	0	1
03260	Sandisfield	155	5	0	102	18	10	2	18	0	0
03263	Savoy*	0	0	0	0	0	0	0	0	0	0
03267	Sheffield*	0	0	0	0	0	0	0	0	0	0
03283	Stockbridge	2	2	0	0	0	0	0	0	0	0
03302	Tyringham*	0	0	0	0	0	0	0	0	0	0
03313	Washington*	0	0	0	0	0	0	0	0	0	0
03326	West Stockbridge	126	14	0	80	5	3	3	21	0	0
03341	Williamstown	253	30	0	6	23	13	37	144	0	0
03345	Windsor	83	10	0	64	2	1	1	4	0	1
Total	**Berkshire County**	**12,659**	**649**	**7**	**6,836**	**676**	**1,651**	**618**	**2,164**	**5**	**53**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.

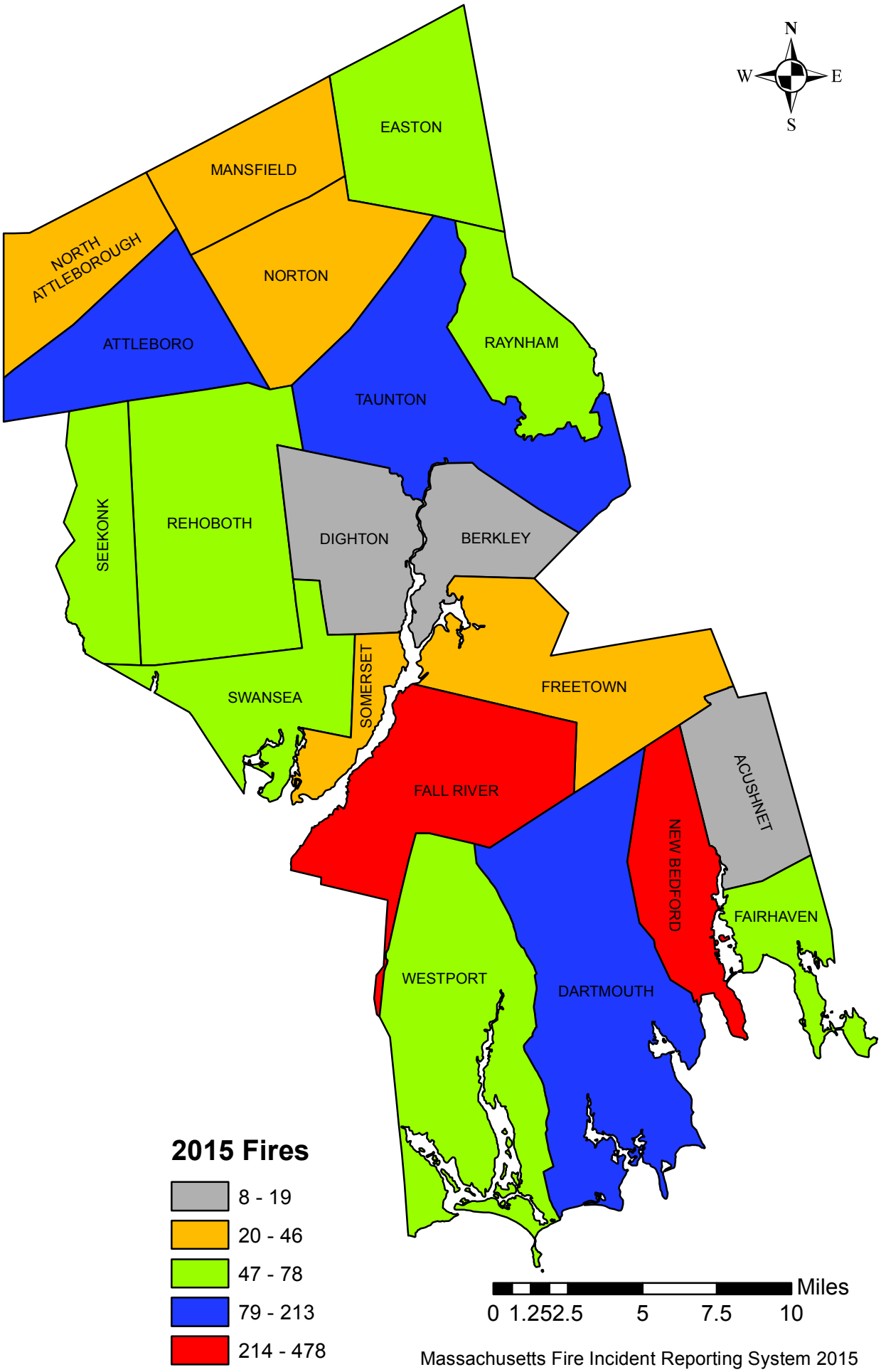
Bristol County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Bristol County Fires 2015



MFIRS
Massachusetts Fire Incident Reporting System

Bristol County Fires in 2015

2,014 Total Fires — 858 Structures, 264 Vehicles & 892 Other Fires
Bristol County ranked eighth out of the fourteen Massachusetts counties in total reported fires. The county reported 2,014 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 858 structure fires, 264 motor vehicle fires, 533 brush, tree or lawn fires, 215 outside rubbish fires, 55 special outside fires, six cultivated vegetation or crop fires, and 83 other fires caused six civilian deaths, 32 civilian injuries, 20 fire service injuries and an estimated dollar loss of $20 million. Bristol County's fires accounted for 6% of the 31,302 Massachusetts fires reported in 2015.

All 22, or 100%, of the fire departments in Bristol County reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS).

All Fires Up Slightly
The total number of reported fire incidents increased by 36 from the 1,978 reported in 2014. Reported structure fires increased by nine from the 849 reported during the previous year. The total number of reported motor vehicle fires increased by two from the 262 incidents reported during 2014. Reported outside and other fires increased by 25 from the 867 reported the year before.

BRISTOL COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1,878	827	316	735	95	29	14	52
2012	2,198	866	279	1,053	97	29	10	58
2013	2,006	899	270	837	90	31	4	55
2014	1,978	849	262	867	86	32	11	43
2015	2,014	858	264	892	83	26	16	41

Fire and Fire Death Rates
Bristol County had 3.7 fires per 1,000 population. That figure ranks Bristol County tied for eleventh in the state and below the state rate of 4.8 fires per 1,000 population. Bristol County also had 0.11 fire deaths per 10,000 populations ranking it fifth among Massachusetts counties and above the state rate of 0.09 fire deaths per 10,000 population.

5 Fires Kill 6 People in Bristol County
In 2015, five fires in Bristol County killed six people.

- On February 23, 2015, at 12:13 p.m., the Fall River Fire Department was called to a fatal cooking fire in a 12-unit apartment building. The victim, a 63-year old man, was most likely cooking when his clothing ignited. No one else was injured at this fire. Alarms were present and alerted the other occupants of the building. The building was not sprinklered. Damages from this fire were estimated to be $25,000.

- On March 19, 2015, at 3:39 a.m., the Taunton Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on the first floor. The victim, a 64-year old man, was in the area of origin when the fire began and was trying to escape when he was overcome by the heat and smoke. No one else was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were estimated to be $210,000.

- On April 23, 2015, at 11:12 p.m., the Swansea Fire Department was called to a fatal motor vehicle crash with ensuing fire on Interstate 195 westbound. Two (2) of the three occupants of the vehicle, a 22-year old woman and a 19-year old man, were trapped in the vehicle and died in the fire. A third occupant was transported to a Rhode Island hospital with severe injuries. Damages from this fire were not estimated.

- On November 18, 2015, at 8:10 a.m., the Dighton Fire Department was dispatched to a fatal motor vehicle fire in a vacant lot near a new housing development. The victim, a 47-year old man, parked her car and ignited it in an apparent suicide attempt. It is believed that she exited the vehicle and succumbed to her injuries outside of the vehicle where police found her body.

- On December 19, 2015, at 10:55 p.m., the Westport Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on the first floor. The victim, a 4-year old boy, was in his bedroom at the time of the fire. His mother and sister were both injured and transported to a Rhode Island hospital for further treatment. It was undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were estimated to be $150,000.

Seekonk Has Bristol County's Largest Loss Fire

In 2015 Bristol County had two incidents with an estimated dollar loss over $1 million. These two incidents' dollar loss was responsible for 14% of the county's total 2015 dollar loss.

- On March 1, 2015, at 6:41 p.m., the Seekonk Fire Department responded to a heating fire in a strip mall. An electric heater ignited cardboard boxes that were too close to the heater. No one was injured at this fire. No alarms were present. The building did not have sprinklers. Damages were estimated to be $1.85 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 858 structure fires caused three civilian deaths, 23 civilian injuries, 19 fire service injuries and an estimated dollar loss of $18.3 million. These incidents represented 43% of Bristol County's reported fires in 2015. The average estimated dollar loss per structure fire was $21,235. The total number of reported structure fires increased by nine, or 1%, from the 849 reported in 2014.

Structure Arsons Down

The 26 structure arsons caused an estimated dollar loss of $681,300. Arson was indicated as the cause of 3% of the structure fires and 4% of Bristol County's structure fire dollar loss. The 26 structure arsons accounted for 31% of the Bristol County arson fires reported in 2015. The total number of reported structure arsons decreased by six from the 32 reported in 2014.

62% of Structure Arsons Occurred in Residences

Sixty-two percent (62%) of Bristol County's 26 structure arsons occurred in residential occupancies. Public assembly properties, educational facilities, storage facilities and special properties each accounted for 8%. Mercantile or business properties and institutional facilities each accounted for 6% of these fires.

BUILDING FIRES

There were 848 building fires of different types in Bristol County in 2015. These 848 building fires accounted for 98.8% of all building fires in Bristol County.

81% of Bristol Building Fires Occurred in People's Homes

Six hundred and eighty-nine (689), or 81%, of Bristol County's 848 building fires occurred in residential occupancies. Forty-one (41) fires took place in storage properties. Mercantile and business properties had 35 fires. Twenty-seven (27) fires took place in public assembly properties, including restaurants and churches. Manufacturing and processing facilities experienced 19 fires. Educational facilities had 18 fires. Hospitals, prisons, and other institutional buildings experienced 11 fires. Special properties had seven fires. There was one building fire where the property use was undetermined or not reported.

RESIDENTIAL FIRES

Residential Building Fires Down

There were 689 reported residential building fires in Bristol County in 2015. These 689 fires are a decrease of 24, or 3%, from the 713 residential building fires reported in 2014.

Apartments Accounted for Almost 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 48% of the building fires in Bristol County; 47% occurred in 1- & 2-family homes; 2% occurred in residential board and care facilities; 1% each happened in rooming houses, dormitories and hotels or motels. Nine (9), or 1%, of the residential building fires in Bristol County occurred in unclassified residential buildings.

Unsafe Cooking Leading Cause of Residential Fires

The leading cause of residential building fires in Bristol County was unattended cooking and other unsafe cooking practices, accounting for 51% of these fires. The second leading cause of residential building fires was heating equipment, accounting for 12%. Smoking caused 8% and electrical problems caused 7% and of the fires in people's homes. Indoor

rubbish fires were responsible for 6% of these fires. Arson caused 2%. Candles and clothes dryers each accounted for 1%. Juvenile-set fires accounted for less than 1% of Bristol County's residential building fires in 2015.

62% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Four hundred and twenty-eight (428), or 62%, of all residential building fires were reported as confined to non-combustible containers in 2015. Three hundred and seventeen (317), or 46%, of all residential building fires reported in 2015 were cooking fires contained to a non-combustible container. Thirty-six (36) of the reported fires were confined to a chimney, accounting for 5% of residential building fires. Thirty-six (31), or 4%, were fires confined to a fuel burner or boiler malfunction. Forty-three (43), or 6%, of these fires were rubbish fires. One (1), or less than 1% of residential fires in Bristol County in 2015 was a commercial compactor fire.

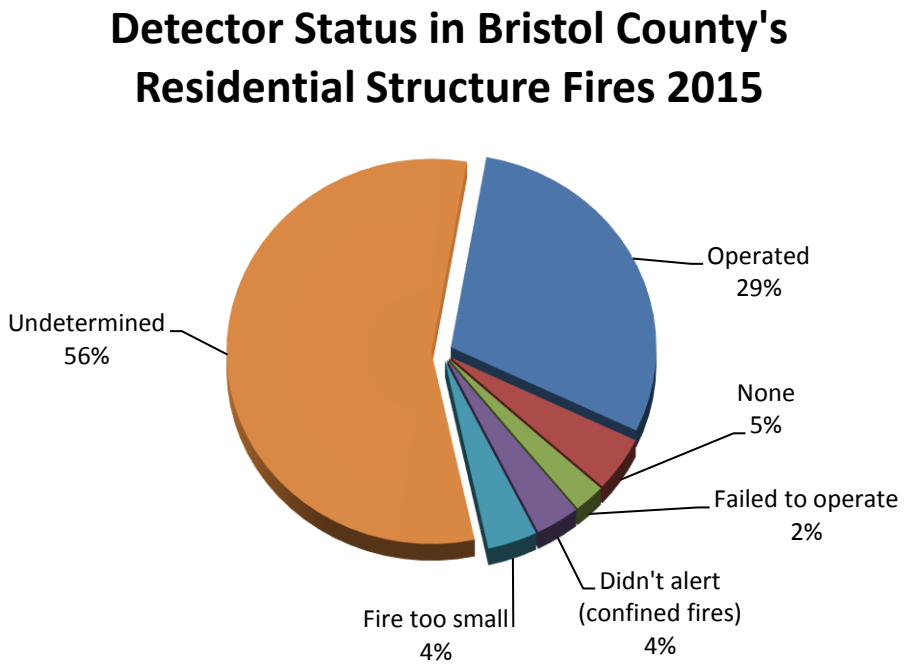
Detectors Alerted Occupants in Only 29% of Fires
Smoke or heat detectors operated and alerted the occupants in 202, or 29%, of the residential building fires. In 4% of these fires[2], the detectors did not alert the occupants.

---

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

Detectors were present but did not operate in 2% of these incidents. In 5% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 4% of the residential fires. Smoke detector performance was undetermined in 387 incidents, or 56%, of Bristol County's residential building fires.



Over 1/4 of Failed Detectors Had Missing or Dead Batteries
Of the 17 fires where smoke detectors were present but failed to operate, four, or 24%, failed because the batteries were either missing or disconnected and one, or 6%, failed because of dead batteries. Three (3), or 18%, failed from a power failure, shutoff or disconnect. Improper installation or placement caused two, or 12% of the detectors that failed to operate. It was undetermined or unclassified in seven cases, or 41%, why the detectors failed to operate.

VACANT BUILDINGS

3% of Building Fires Occurred in Vacant Buildings
Bristol County reported 23 fires that occurred in buildings that were vacant, under construction or demolition. This represented 3% of the total 848 building fires reported to MFIRS in 2015. Ten (10) vacant building fires occurred in storage facilities. Eight (8) fires occurred in vacant residential properties. Three (3) of these fires occurred in educational facilities. A public assembly property and a manufacturing or processing facility each had one of these fire incidents in Bristol County in 2015.

Six (6), or 26%, of the vacant building fires in Bristol County in 2015 were determined to be intentionally set. Two (2) occurred in elementary schools, and two occurred in one- or

two-family homes. An outbuilding or shed and a warehouse each had a vacant arson in 2015.

JUVENILE-SET FIRES

61 Juvenile-set Fires

There were 61 reported juvenile-set fires in Bristol County in 2015. The four structure fires and 57 brush fires caused $135,502 in estimated damages.

ARSONS

83 Total Arsons — 26 Structures, 16 Vehicles & 41 Other Arsons

Bristol County fire departments reported that 83, or 4%, of Bristol County's 2,014 fires were considered intentionally set, or, for purposes of this analysis, arson. The 26 structure arsons, 16 motor vehicle arsons and 41 outside and other arsons caused one civilian death and an estimated dollar loss of $778,750.

MV Arsons Up Slightly

The total number of reported arson fires decreased by three from the 86 reported in 2014. Structure arsons decreased by six from 32 in 2014. Motor vehicle arsons increased by five from the 11 reported last year. Outside and other arsons dropped by two from the 43 reported in 2014.

ALL INCIDENTS

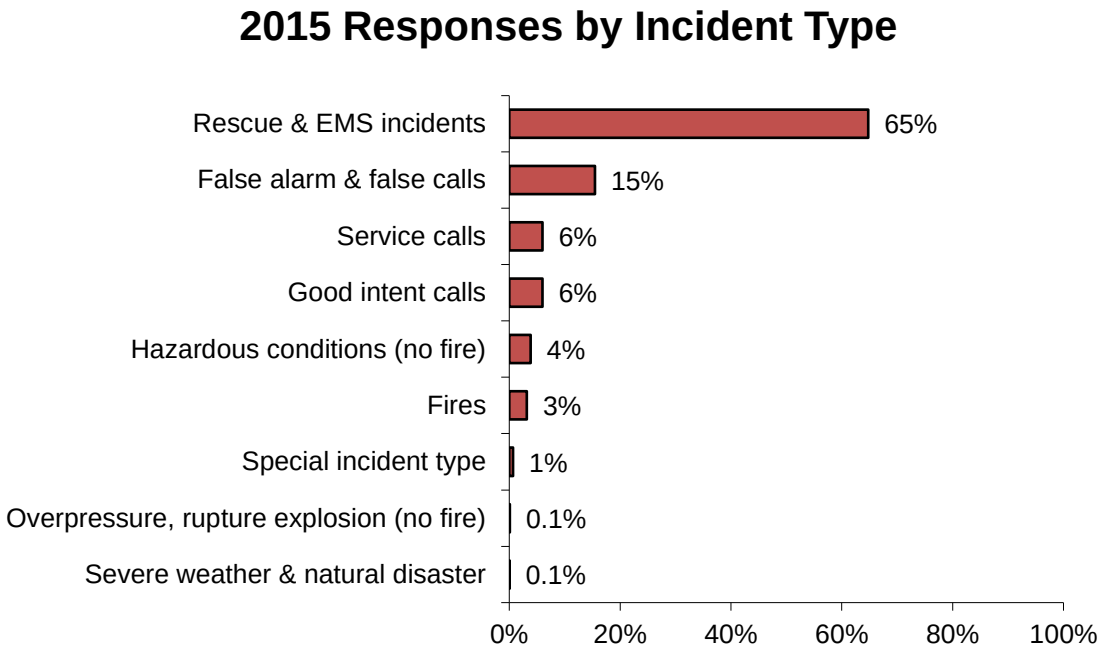
Rescue & EMS Calls Are 65% of All Reported Responses

In 2015, fire departments in Bristol County reported 69,077 responses[3] to MFIRS. Of these 69,067 incidents, 66,908 non-fire calls were voluntarily reported.

Of these 66,908 non-fire calls, 44,746, or 65%, of all the reported responses were reported rescue and emergency medical services (EMS) calls; 10,680, or 15%, were reported false alarm or false calls; 4,276, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 3,941, or 6%, were reported good intent calls; 2,673, or 4%, were reported hazardous condition calls with no fire; 478, or 1%, were special incident type calls such as citizen complaints; 75, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 39, or 0.1%, were severe weather responses.

Two thousand one hundred and eighty-nine (2,189), or 3%, of the total responses submitted by Bristol County fire departments were fires.

[3] These figures include responses in which Bristol County fire departments gave mutual aid to other fire departments.



Bristol County Fire Departments Gave Mutual Aid 1,742 Times
In 2015, Bristol County fire departments reported coming to the aid of other fire departments 1,742 times. Of these 1,742 responses, 1,255, or 72%, were for rescue or EMS calls; 263, or 15%, were for good intent calls; 138, or 8%, were for service calls such as cover assignments; 69, or 4%, were for fires; eight, or less than 1%, were for false alarms or false calls; four, or less than 1%, were for hazardous conditions calls with no fire; three, or less than 1%, were special incident types; and two, or less than 1%, were for severe weather or natural disaster calls.

Bristol County Received Mutual Aid in 971 Incidents
In 2015, Bristol County fire departments reported receiving aid from surrounding departments in 971 incidents. Of these 971 incidents, 810, or 83%, were rescue and emergency medical services calls; 85, or 9%, were for fires; 27, or 3%, were false alarms or false calls; 21, or 2%, were good intent calls; 13, or 1%, of the mutual aid received calls, were service calls; 10, or 1%, were hazardous conditions calls with no fire; three, or less than 1%, were for severe weather calls; one, or less than 1%, was an overpressure, rupture, explosion or overheat call with no fire; and one, or less than 1% was for a special incident.

Bristol County Population: 548,285

3.7 Fires/1,000 Population

Total Fires: 2,014 **$19,983,475**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	858	43%	$18,219,619
Vehicle Fires	264	13%	1,493,072
Other Fires	892	44%	270,784

5 Fatal Fires
6 Civilian Deaths
32 Civilian Injuries

2.98 Civilian Deaths/1,000 Fires
0.11 Civilian Deaths/10,000 Population
20 Fire Service Injuries

Building Fires: 848

Residential Structure Fires: 689

Residential Structure Fires Confined to Non-Combustible Containers: 428

Unconfined Residential Structure Fires: 261

3 Civilian Deaths 22 Civilian Injuries 16 Fire Service Injuries

Occupancy	Fires	%
Apartments	329	48%
1- & 2-Family homes	324	47%
Residential board & care	11	2%
Rooming houses	6	1%
Hotels or motels	5	1%
Dormitories	5	1%

Detector Status	Fires	%
Operated	202	29%
Didn't operate	17	2%
None	32	5%
Fire too small	27	4%
Didn’t alert (confined)	24	4%
Undetermined	387	56%

Area of Origin[4]	%
Kitchen	54%
Heating room or area	5%
Chimney or flue	5%
Exterior balcony, unencl. porch	4%
Living room	2%
Bedroom	2%

Heat Source	%	%Unconfined[5]
Cigarettes	5%	12%
Rad., cond. heat from op eq.	4%	11%
Arcing	4%	11%
Heat from operating eq..	3%	8%
Hot ember or ash	2%	5%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	**%**	**Factor Contrib. to Ignit.**	**%**	**%Unconfined**[7]
Food, cooking materials	49%	Abandoned materials	3%	8%
Rubbish, trash, waste	7%	Too close to combustibles	3%	7%
Film or residue (creosote)	5%	Electrical failure, malfunc.	1%	4%
Flammable or combust. liquid	4%	Misuse of mater. or product	1%	3%
Exterior sidewall covering	4%	Unspec. short-circuit arc	1%	2%
Electrical wire, cable insulation	4%			

Equipment[8]	**%**	**Cause of Ignition**	**%**	**%Unconfined**[9]
Cooking equipment	50%	Unintentional	24%	62%
None	22%	Failure of eq. or heat source	3%	8%
Chimney or flue	5%	Intentional	1%	4%
Boiler, furnace, cent. heat unit	5%	Cause under investigation	3%	9%
Electrical wiring, other	2%	Undetermined	4%	12%
Fan	1%	Act of Nature	0.4%	1 %

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	20%
Didn't Alert Occupants	6%
Undetermined	74%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9]These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	163	112	29	22
February	107	71	22	14
March	109	77	20	12
April	209	71	22	116
May	372	78	24	270
June	165	51	24	90
July	180	73	25	82
August	201	73	26	102
September	171	66	21	84
October	111	53	19	39
November	125	72	18	35
December	101	61	14	26

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	317	123	39	155
Monday	319	139	37	143
Tuesday	244	114	34	96
Wednesday	276	107	38	131
Thursday	260	117	32	11
Friday	295	117	52	126
Saturday	303	141	32	130

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	140	65	32	43
04:01 - 08:00	141	63	23	55
08:01 - 12:00	306	145	47	114
12:01 - 16:00	554	202	51	301
16:01 - 20:00	594	251	64	279
20:01 - 24:00	279	132	47	100

Motor Vehicle Fires

Total: 264
Automobiles: 217 (81%)
14, or 7%, of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 83 **Dollar loss: $778,750**

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	26	3%	31%	$681,300
Vehicle Arsons	16	6%	19%	92,400
Other Arsons	41	5%	49%	5,050

0.05 Structure arsons/1,000 population
0.03 Vehicle arsons/1,000 population
0.07 Other arsons/1,000 population

1 Civilian Fire Death

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
20:01 - 00:00	6	23%	00:01 - 04:00	9	36%
00:01 - 04:00	5	19%	20:01 - 00:00	3	27%
12:01 - 16:00	5	19%	04:01 - 08:00	2	13%
16:01 - 20:00	5	19%	08:01 - 12:00	2	13%

Other Arsons	#	%
16:01 - 20:00	14	34%
12:01 - 16:00	10	24%
20:01 - 00:00	10	24%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	9	35%
1- and 2-Family homes	6	23%
Elementary school	2	8%

Acushnet **Population: 10,303**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	10	3	5	1	0	0	1
2012	19	10	1	8	2	1	0	1
2013	23	13	4	6	1	0	0	1
2014	11	7	1	3	1	1	0	0
2015	19	12	2	5	1	0	0	1

Attleboro **Population: 43,593**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	101	35	15	50	5	1	0	4
2012	128	41	22	65	5	2	0	3
2013	135	51	23	61	3	2	1	0
2014	114	45	19	50	1	1	0	0
2015	145	46	22	77	0	0	0	0

Berkley **Population: 6,411**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	7	4	8	0	0	0	0
2012	15	10	3	2	0	0	0	0
2013	18	9	2	7	0	0	0	0
2014	10	5	4	1	0	0	0	0
2015	13	7	1	5	0	0	0	0

Dartmouth Fire Districts[10] **Population: 34,032**

Dartmouth District # 1 *Est. Pop. Protected: 13,272*

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	24	13	2	9	3	0	0	3
2012	40	18	2	20	4	2	0	2
2013	27	12	1	14	0	0	0	0
2014	31	17	5	9	0	0	0	0
2015	23	12	2	9	1	1	0	0

[10] The estimated population protected statistics were determined by multiplying the 2010 census figure by the percentage of the 2000 census figure determined by the then Town Clerk.

Dartmouth District #2 *Est. Pop. Protected: 2,723*

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	3	1	0	0	0	0	0
2012	10	3	0	7	0	0	0	0
2013	7	0	1	6	0	0	0	0
2014[11]	Fire Department in Good Standing							
2015	1	0	1	0	0	0	0	0

Dartmouth District #3 *Est. Pop. Protected: 18,037*

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	59	22	12	25	4	2	0	2
2012	97	24	12	61	3	1	0	2
2013	102	35	16	51	2	2	0	0
2014	77	19	17	41	2	0	1	1
2015	87	19	17	51	6	0	0	6

Dighton **Population: 7,086**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	6	3	9	1	0	0	1
2012	14	4	5	5	0	0	0	0
2013	18	11	0	7	3	0	0	3
2014	15	8	3	4	0	0	0	0
2015	8	1	3	4	1	0	1	0

Easton **Population: 23,112**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	20	14	4	2	0	0	0	0
2012	9	6	3	0	0	0	0	0
2013	10	5	4	1	0	0	0	0
2014	21	16	2	3	0	0	0	0
2015	78	31	1	46	4	1	0	3

[11] In 2014, Dartmouth District #2 reported 8 calls.

Fairhaven **Population: 15,873**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	62	30	13	19	3	3	0	0
2012	53	21	8	24	2	0	0	2
2013	34	16	7	11	0	0	0	0
2014	55	22	8	25	4	0	0	4
2015	54	23	8	23	1	0	0	1

Fall River **Population: 88,857**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	500	274	71	155	16	4	4	8
2012	519	282	34	203	18	8	1	9
2013	453	255	48	150	22	15	1	6
2014	414	232	45	137	19	12	1	6
2015	472	301	42	129	8	6	2	0

Freetown **Population: 8,870**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	57	27	12	18	7	3	1	3
2012	64	27	10	27	6	2	1	3
2013	55	21	12	22	1	0	0	1
2014	44	20	11	13	2	2	0	0
2015	44	15	10	19	0	0	0	0

Mansfield **Population: 23,184**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	47	22	8	17	2	1	1	0
2012	61	11	13	37	2	0	0	2
2013	62	14	14	34	1	0	0	1
2014	51	11	11	29	2	0	0	2
2015	44	13	4	27	2	1	0	1

New Bedford **Population: 95,072**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	327	136	64	127	20	7	6	7
2012	434	194	64	176	15	6	5	4
2013	393	216	50	127	12	6	2	4
2014	456	227	50	179	19	8	7	4
2015	478	213	63	202	24	9	11	4

North Attleboro **Population: 28,712**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	73	36	12	25	3	1	0	2
2012	68	22	17	29	1	1	0	0
2013	49	21	10	18	0	0	0	0
2014	42	16	6	20	1	1	0	0
2015	46	19	6	21	0	0	0	0

Norton **Population: 19,031**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	45	20	6	19	1	1	0	0
2012	64	18	8	38	3	1	0	2
2013	34	9	6	19	1	0	0	1
2014	49	40	6	33	3	0	1	2
2015	37	18	1	18	0	0	0	0

Raynham **Population: 13,383**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	49	15	9	25	0	0	0	0
2012	72	34	8	30	0	0	0	0
2013	58	22	10	26	0	0	0	0
2014	61	13	15	33	0	0	0	0
2015	63	19	17	27	2	0	1	1

Rehoboth **Population: 11,608**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	33	21	4	8	0	0	0	0
2012	46	24	3	19	2	0	0	2
2013	31	17	6	8	0	0	0	0
2014	28	16	6	6	0	0	0	0
2015	61	21	11	29	20	4	0	16

Seekonk **Population: 13,722**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	89	23	22	44	9	2	0	7
2012	63	27	8	28	4	1	1	2
2013	59	27	9	23	0	0	0	0
2014	59	10	5	44	0	0	0	0
2015	61	11	11	39	1	1	0	0

Somerset **Population: 18,165**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	38	11	12	15	1	0	0	1
2012	26	5	4	17	0	0	0	0
2013	43	22	5	16	0	0	0	0
2014	41	14	3	24	0	0	0	0
2015	35	16	8	11	0	0	0	0

Swansea **Population: 15,865**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	87	41	8	38	1	1	0	0
2012	89	45	7	37	3	1	0	2
2013	89	42	9	38	4	1	0	3
2014	86	38	15	33	0	0	0	0
2015	78	37	18	23	0	0	0	0

Taunton **Population: 55,874**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	151	39	19	93	16	3	2	11
2012	230	32	30	168	21	1	2	18
2013	240	63	24	153	36	5	0	31
2014	240	77	26	137	24	7	1	16
2015	213	90	20	103	16	6	2	8

Westport **Population: 15,532**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	57	21	12	24	2	0	0	2
2012	77	15	16	46	7	2	0	5
2013	66	18	9	39	4	0	0	4
2014	71	25	4	42	8	0	0	8
2015	60	15	13	32	0	0	0	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
05003	Acushnet	454	20	0	191	84	76	12	66	0	5
05016	Attleboro	6,822	155	8	4,796	202	385	442	819	1	14
05027	Berkley	450	16	0	339	9	15	29	42	0	0
05972	Dartmouth #1	358	24	2	28	58	40	27	178	1	0
05973	Dartmouth #2	8	1	0	1	0	3	1	2	0	0
05974	Dartmouth #3	822	91	3	186	60	103	105	268	5	1
05076	Dighton	212	11	1	59	20	12	32	76	1	0
05088	Easton	3,343	82	5	2,242	185	371	108	329	4	17
05094	Fairhaven	3,375	57	4	2,613	165	152	99	276	1	8
05095	Fall River	6,476	473	3	2,415	444	317	498	2,273	3	50
05102	Freetown	1,346	45	10	928	18	119	143	77	3	3
05167	Mansfield	3,368	44	1	2,195	130	270	210	476	1	41
05201	New Bedford	15,878	478	12	11,312	358	551	982	2,169	3	13
05211	North Attleboro	3,475	52	3	2,342	120	355	111	488	1	3
05218	Norton	2,924	41	0	1,807	136	293	34	441	0	172
05245	Raynham	2,363	72	6	1,570	82	110	111	379	9	24

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
05247	Rehoboth	508	63	3	170	50	42	36	143	0	1
05265	Seekonk	3,044	61	0	2,022	75	140	276	467	1	2
05273	Somerset	3,219	42	0	2,602	74	178	172	137	0	14
05292	Swansea	466	85	3	17	85	64	46	166	0	0
05293	Taunton	9,670	214	7	6,806	275	605	412	1,246	4	101
05334	Westport	516	62	4	105	43	75	55	162	1	9
	Bristol County	**69,097**	**2,189**	**75**	**44,746**	**2,673**	**4,276**	**3,941**	**10,680**	**39**	**478**

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

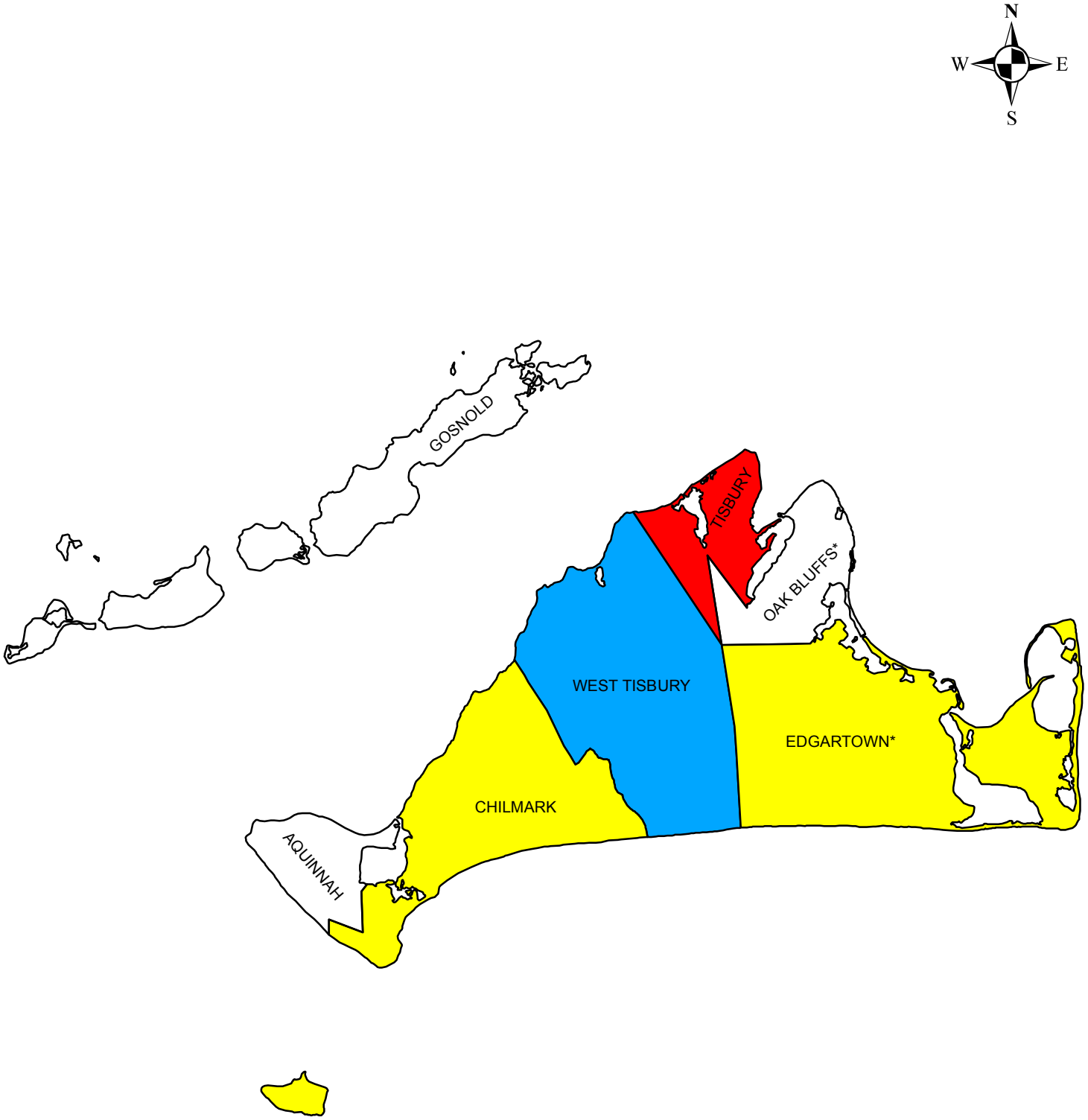
Dukes County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Dukes County Fires 2015



2015 Fires

- 0
- 1
- 2 - 14
- 15 - 21

0 1 2 4 6 8 Miles

Massachusetts Fire Incident Reporting System 2015

MFIRS
Massachusetts Fire Incident Reporting System

Dukes County Fires in 2015

37 Total Fires — 10 Structures, 5 Vehicles Fires & 22 Outside &Other Fires
Dukes County ranked last out of the fourteen Massachusetts counties in total fires. Dukes County fire departments reported 37 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The reported 10 structure fires, five motor vehicle fire, 13 outside rubbish fires, and seven unclassified fires caused one civilian death and an estimated dollar loss of $411,500. Dukes County's fires accounted for 0.1% of the 31,302 Massachusetts fires reported in 2015.

Six (6) out of the seven of the fire departments in Dukes County reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS). One (1) department certified that they had no reportable fires in 2015.

All Fires Up
The total number of reported fire incidents increased by 14 from the 22 reported in 2014. Reported structure fires remained the same with 10 reported in 2014 as well as 2015. Motor vehicle fires increased by four from the one reported the previous year. Outside and other fires increased by 11 from the 11 reported in 2014.

DUKES COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	27	18	1	8	2	1	0	1
2012	39	17	6	16	2	0	1	1
2013	42	15	7	20	1	0	0	1
2014	22	10	1	11	1	0	0	1
2015	37	10	5	22	1	0	0	1

Fire and Fire Death Rates
Dukes County had 2.2 fires per 1,000 population. That figure ranks Dukes County last in the state and below the state rate of 4.8 fires per 1,000 population. Dukes County also had 0.60 fire deaths per 10,000 population ranking it first among Massachusetts counties and well above the state rate of 0.09 fire deaths per 10,000 population.

1 Dukes County Resident Killed in 1 Fire
In 2015 there was one fatal fire in Dukes County with one fire death.

- On March 18, 2015, at 9:17 p.m., the Edgartown Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by a cigarette on the 3-season porch. The victim, a 32-year old man, was taking a shower at the time of the fire. Other occupants said that he came out in a towel and then went back to his room to get some clothes. By the time he came back out his exits were blocked by the fire and he was overcome by the heat and smoke. It was undetermined if alarms were present. There were no sprinklers. Damages from this fire were estimated to be $216,000.

Edgartown Had Dukes County Largest Loss Fire

The largest loss fire in Dukes County in 2015 was also the only fatal fire in Dukes County. This fire occurred on March 18, 2015 and caused estimated damages of $216,000. This one fire accounted for over half, 52%, of Dukes County total estimated damages.

STRUCTURE FIRES

Reported Structure Fires 45% of All Reported Fires

There were 10 reported structure fires in Dukes County in 2015. These incidents represented 27% of Dukes County's reported fires in 2015 and 74% of the county's reported dollar loss. The total number of reported structure fires remained the same with 10 reported in both 2014 and 2015.

0 Reported Structure Arson in 2015

There was no reported structure arson in Dukes County in 2015

BUILDING FIRES

There were 10 building fires of different types in Dukes County in 2015. These 10 building fires accounted for all of the structure fires in Dukes County.

90% of Dukes Building Fires Occurred in People's Homes

Nine (9), or 90%, of Dukes County's 10 building fires occurred in residential occupancies. One (1) fire occurred in a storage facility.

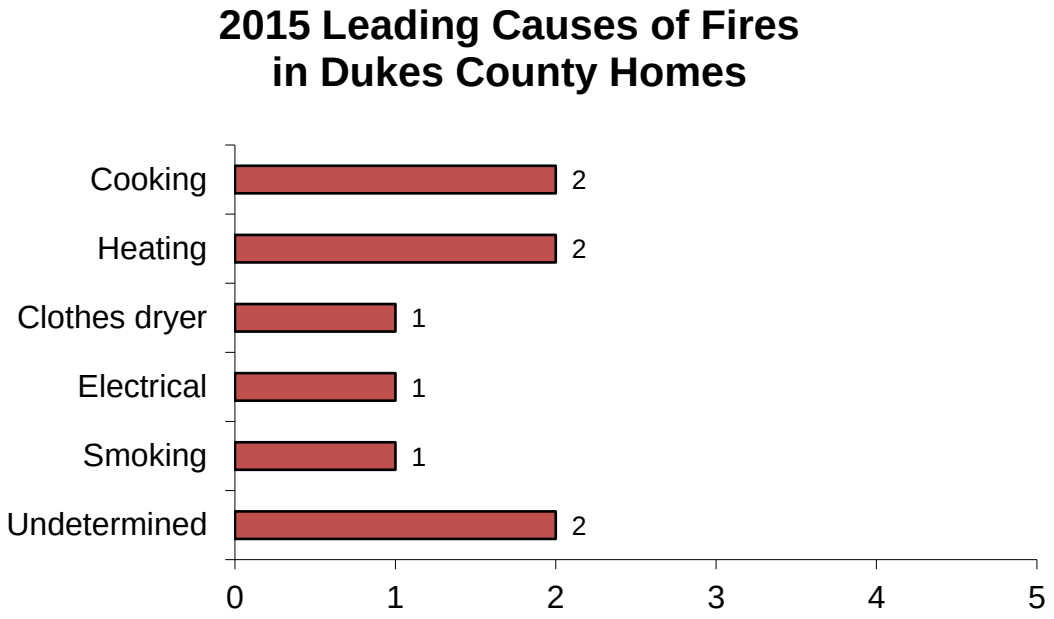
RESIDENTIAL FIRES

9 Residential Building Fires

There were nine reported residential building fires in Dukes County in 2015. These nine fires are an increase of one, or 13%, from the eight residential building fires reported in 2014. They caused one civilian death and $299,500 in estimated damages.

Cooking & Heating Were the Leading Cause of Residential Fires

Cooking fires and fires caused by heating equipment were tied as the leading cause of residential building fires in Dukes County in 2015. Two (2), or 22%, of these fires were chimney fires; and two, or 22% were cooking fires. A clothes dryer fire, an electrical problem with a ceiling fan and smoking were each the cause of one, or 11%, of the fires in Dukes County in 2015. The causes of the other two residential fires were undetermined.



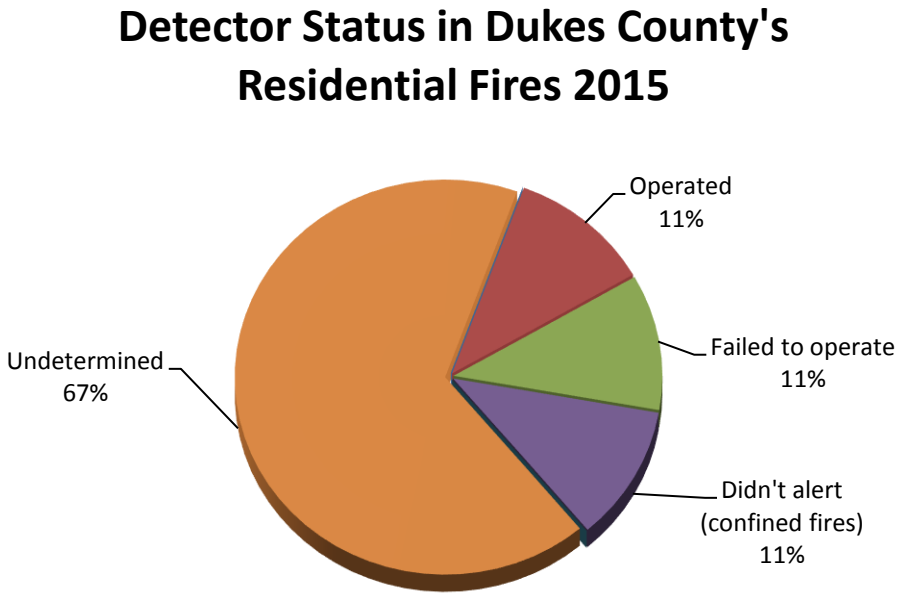
4 Residential Building Fires Were Confined to Non-Combustible Containers[1]
Four (4), or 44%, of the reported fires in Dukes County were confined to a non-combustible container. Two (2), or 22%, of these fires were confined to a chimney or flue and another two, or 22%, were confined cooking fires.

Detectors Operated in 11% of Fires
Smoke or heat detectors operated and alerted the occupants in one, or 11%, of the residential building fires. In one, or 11%, of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in one, or 11%, of these fires. There were no reported fires where there were no smoke detectors present. There were no reported fires where the fire was too small to activate the detector. Smoke detector performance was undetermined in six incidents, or 67%, of Dukes County's residential building fires.

The reason the one detector failed to operate was unclassified.

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.



VACANT BUILDINGS

0 Vacant Building Fires
There were no reported fires in vacant buildings in Dukes County in 2015.

JUVENILE-SET FIRES

No Juvenile-set Fires
There were no reported juvenile-set fires in Dukes County in 2015.

ARSONS

1 Outside Arson
There was one reported arson in Dukes County in 2015. The one unclassified fire was the same number of reported arsons in Dukes County in 2014.

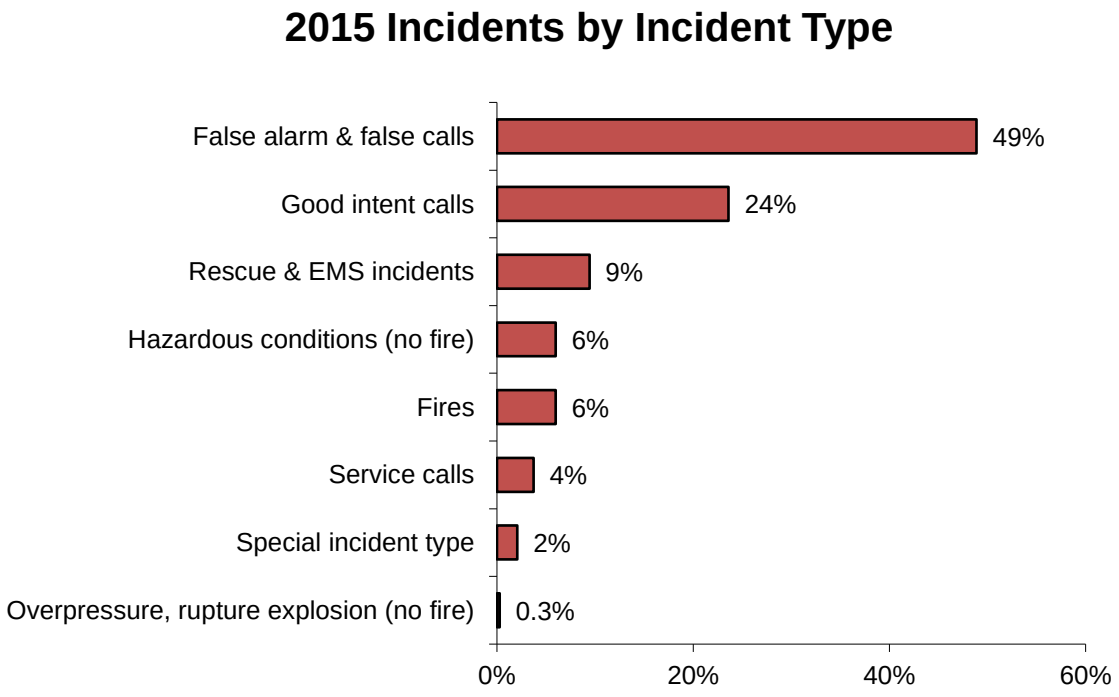
ALL INCIDENTS

False Alarms Are Almost 1/2 of All Reported Responses
In 2015, Dukes County fire departments reported 720 responses[3] to MFIRS. Of these 720 incidents, 679 non-fire calls were voluntarily reported. The vast majority of these calls came from two departments, Tisbury and West Tisbury.

[3] These figures include responses in which Dukes County fire departments gave mutual aid to other fire departments.

Of these 679 non-fire calls, 352, or 49%, were reported false alarm or false calls; 170, or 24%, were reported good intent calls; 68, or 9%, of all of the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 45, or 6%, were reported hazardous condition calls with no fire; 27, or 4%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 15, or 2%, were special incident types; and two, or less than 1%, were overpressure, rupture explosions with no ensuing fire calls.

Forty-one (41), or 6%, of the total incidents submitted by Dukes County fire departments were fires.



Dukes County Fire Departments Gave Mutual Aid 8 Times
In 2015, Dukes County fire departments reported coming to the aid of other fire departments eight times. Of these responses, four, or 50%, were for fires; two, or 25%, were service calls; one, or 13%, was a good intent call; and one, or 13%, was for a rescue or EMS incident.

Dukes County Fire Departments Received Mutual Aid in 6 Incidents
In 2015, Dukes County fire departments reported receiving aid from surrounding departments in six incidents. Three (3), or 50%, of these incidents were for fires; one, or 17%, was for a rescue or EMS call; one, or 17%, was a good intent call; one, or 4%, was for a service call; and one, or 17%, was a hazardous condition call without any fire.

Dukes County Population: 16,535

2.2 Fires/1,000 Population

Total Fires:	**37**		**$411,500**
Situation	**Fires**	**% of Fires**	**Dollar Loss**
Structure Fires	10	27%	$305,500
Vehicle Fires	5	14%	160,000
Other Fires	22	59%	10

1 Fatal Fire — 27.0 Civilian Deaths/1,000 Fires
1 Civilian Death — 0.60 Civilian Deaths/10,000 Population
0 Civilian Injuries — 0 Fire Service Injuries

Building Fires: 10

Residential Structure Fires: 9

Residential Structure Fires Confined to Non-Combustible Containers: 4

Unconfined Residential Structure Fires: 5

1 Civilian Death

Occupancy	**Fires**	**%**
1- & 2-Family homes	8	89%
Hotels or motels	1	11%

Detector Status	**Fires**	**%**
Operated	1	11%
Didn't operate	1	11%
None	0	0%
Fire too small	0	0%
Didn’t alert (confined)	1	11%
Undetermined	6	67%

Area of Origin[4]	**%**
Chimney or flue	22%
Kitchen	22%
Bathroom	11%
Bed room	11%
Courtyard, patio, terrace	11%
Exterior stairway	11%
Function room	11%

Heat Source	**%**	**%Unconfined**[5]
Radiated, con. heat op. eq.	22%	40%
Cigarette	11%	20%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Film, residue (creosote)	22%	Improper contain or storage	11%	20%
Cooking materials	22%	Failure to clean	11%	20%
Chips, including wood chips	11%	High wind	11%	20%
Upholstered sofa, chair	11%			
Structural member, framing	11%			

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
None	33%	Unintentional	33%	60%
Chimney or flue	22%	Failure of eq. or heat source	0%	0%
Kitchen & cooking equipment	22%	Undetermined	11%	20%
Clothes dryers	11%	Cause under investigation	11%	20%
Fan	11%			

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	25%
Didn't alert occupants	25%
Undetermined	50%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined Fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	2	1	0	1
February	4	1	0	3
March	1	1	0	0
April	4	1	0	3
May	12	1	0	11
June	1	1	0	0
July	4	1	1	2
August	4	1	3	0
September	1	0	0	1
October	2	1	1	0
November	1	1	0	0
December	1	0	0	1

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	8	2	0	6
Monday	4	0	0	4
Tuesday	4	2	2	0
Wednesday	6	2	1	3
Thursday	6	2	1	3
Friday	1	0	0	1
Saturday	8	2	1	5

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	2	0	1	1
04:01 - 08:00	1	0	0	1
08:01 - 12:00	1	0	0	1
12:01 - 16:00	12	3	2	7
16:01 - 20:00	13	3	2	8
20:01 - 00:00	8	4	0	4

Motor Vehicle Fires

Total: 5
Automobiles: 3 (60%)
0 (0%) of the automobile fires were incendiary in 2015.

Arson Fires

Total Arsons: 1 **Dollar loss: $0**

0.12 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	0	0%	0%	$0
Vehicle Arsons	0	0%	0%	0
Other Arsons	1	5%	100%	0

0.00 Structure arsons/1,000 population
0.00 Vehicle arsons/1,000 population
0.06 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%

Other Arsons	#	%
16:01 – 20:00	1	100%

Peak Fixed Property Uses for Structure Arsons # %

Aquinnah **Population: 311**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	0	0	1	0	0	0	0
2013	2	1	0	1	0	0	0	0
2014	1	0	0	1	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Chilmark **Population: 866**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	0	1	0	0	0	0
2012	1	0	1	0	0	0	0	0
2013	8	2	2	4	0	0	0	0
2014	1	0	0	1	0	0	0	0
2015	1	0	1	0	0	0	0	0

Edgartown **Population: 4,067**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	2	1	1	0	0	0	0	0
2014	2	1	0	1	0	0	0	0
2015	1	1	0	0	0	0	0	0

Gosnold (Cuttyhunk) **Population: 75**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Oak Bluffs **Population: 4,067**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	7	5	0	2	1	0	0	1
2013	6	3	0	3	0	0	0	0
2014	3	2	0	1	0	0	0	0
2015	Non-Reporting Community							

Tisbury **Population: 3,959**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	12	1	6	1	1	0	0
2012	29	11	5	13	1	0	1	0
2013	15	7	4	4	0	0	0	0
2014	10	7	0	3	0	0	0	0
2015	21	9	3	9	0	0	0	0

West Tisbury **Population: 2,740**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	6	1	0	5	1	0	0	1
2014	5	0	1	4	1	0	0	1
2015	14	0	1	13	1	0	0	1

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
07104	Aquinnah*	9	0	0	0	0	1	3	5	0	0
07062	Chilmark	1	1	0	0	0	0	0	0	0	0
07089	Edgartown	1	1	0	0	0	0	0	0	0	0
07109	Gosnold*	0	0	0	0	0	0	0	0	0	0
07221	Oak Bluffs**	0	0	0	0	0	0	0	0	0	0
07296	Tisbury	386	21	1	49	35	20	44	212	0	4
07327	West Tisbury	323	18	1	19	10	6	123	135	0	11
Total	**Dukes County**	**720**	**41**	**2**	**68**	**45**	**27**	**170**	**352**	**0**	**15**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

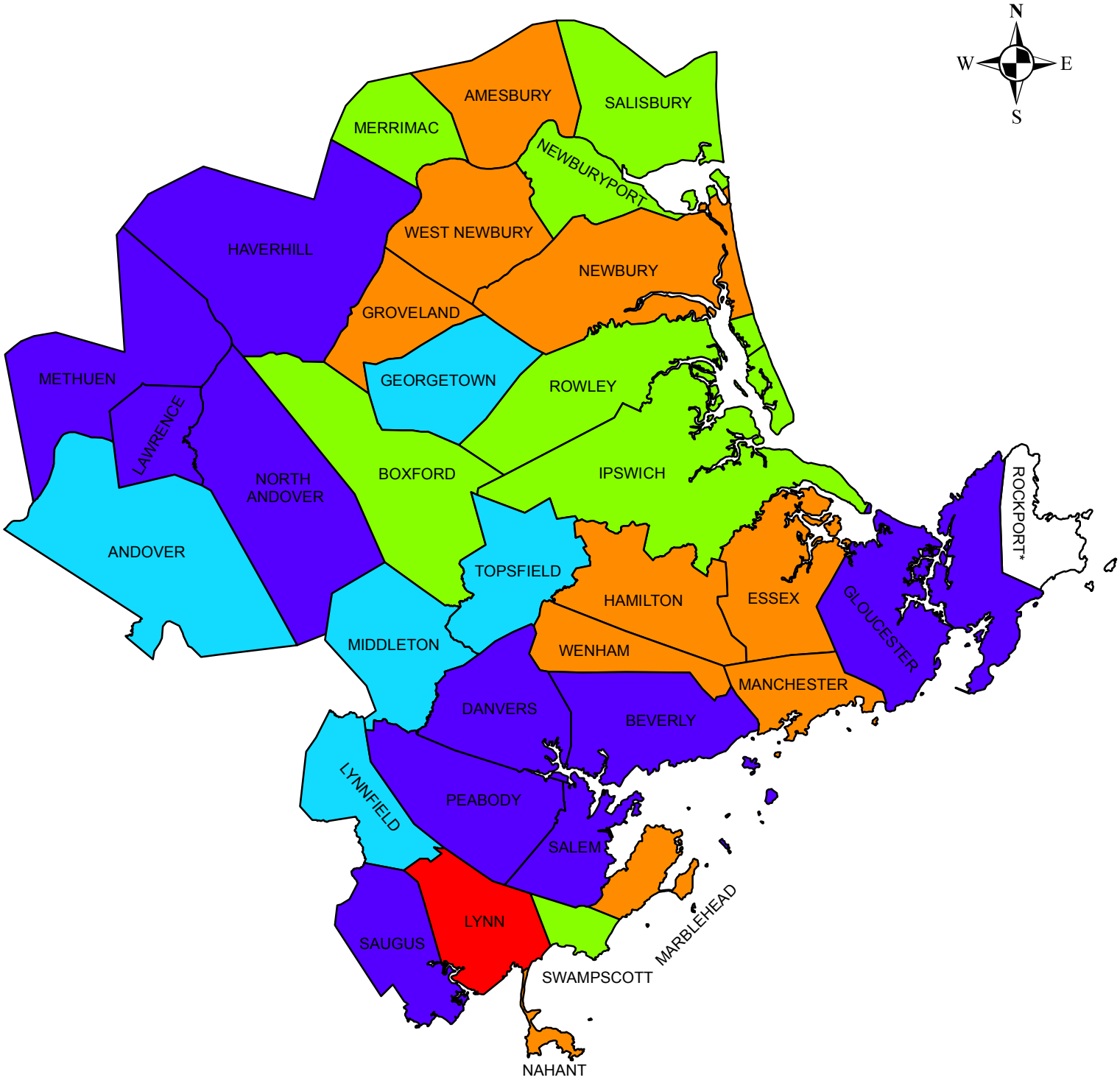
Essex County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Essex County Fires 2015



2015 Fires

- 0
- 1 - 22
- 23 - 42
- 43 - 93
- 94 - 294
- 295 - 524

*Non-reporting Department

Miles
0 1.25 2.5 5 7.5 10

Massachusetts Fire Incident Reporting System 2015

MFIRS
Massachusetts Fire Incident Reporting System

Essex County Fires in 2015

2,841 Total Fires — 1,386 Structures, 265 Vehicles & 1,190 Other Fires
Essex County ranked fifth out of the fourteen Massachusetts counties in total reported fires. The county reported 2,841 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 1,386 structure fires, 265 motor vehicle fires, 714 brush, tree or lawn fires, 276 outside rubbish fires, 88 special outside fires, 10 cultivated crop or vegetation fires, and 102 other fires caused six civilian deaths, 22 civilian injuries, 47 fire service injuries and an estimated dollar loss of $18.9 million. Essex County's fires accounted for 9% of the 31,302 Massachusetts fires reported in 2015.

Thirty-three (33), or 97.1%, of the 34 fire departments in Essex County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Structure Fires Down
The total number of reported fire incidents decreased by 17 incidents from the 2,858 that were reported in 2014. Reported structure fires decreased by 253 from the 1,639 reported during the previous year. The total number of motor vehicle fires increased by 21 from the 244 incidents reported during 2014. Reported outside and other fires increased by 215 from the 975 reported the year before.

ESSEX COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3,008	1,884	291	833	108	23	18	67
2012	3,002	1,579	235	1,188	104	23	11	70
2013	2,952	1,512	268	1,172	111	21	10	80
2014	2,858	1,639	244	975	80	13	7	60
2015	2,841	1,386	265	1,190	85	19	15	51

Fire and Fire Death Rates
Essex County had 3.8 fires per 1,000 population. That figure ranks Essex County tenth in the state and below the state rate of 4.8 fires per 1,000 population. Essex County had 0.08 fire deaths per 10,000 population making it tied for sixth among Massachusetts counties and below the state rate of 0.09 deaths per 10,000 population.

6 People Died in 3 Essex County Fires
In 2015 there were three fatal fires in Essex County that killed six people.[1]

- On March 24, 2015, at 9:11 p.m., the Marblehead Fire Department was called to a fatal cooking fire in an 8-unit apartment building. The victim, a 65-year old man, was

[1] There was also one civilian death from an explosion (with no ensuing fire). On 11/1/14 a 49-year old Salem man was killed when the Improvised Explosive Device (IED) he was building exploded and killed him.

most likely escaping when he was overcome by the heat and smoke. He was found by firefighters and transported to a local hospital where he succumbed to his injuries No one else was injured at this fire. Alarms were present and alerted the other occupants of the building. The building was not sprinklered. Damages from this fire were estimated to be $150,000.

- On July 16, 2015, at 8:47 a.m., the Lawrence Fire Department was called to a fatal outside fire in a backyard. The victim, an 82-year old man, was found lying in the grass with severe burns across his body in a suicide attempt with a bucket of burning liquid nearby. The victim was a suspect in a 2013 fatal arson fire in Lawrence in which he was also burned.

- On December 4, 2015, at 12:46 a.m., the Lynn Fire Department was called to a fatal fire in a 3-unit apartment building of undetermined cause. All four victims were family members. A 48-year old woman, her two daughters, aged 36 and 20 and their 28-year old brother. Three (3) other civilians and 2 firefighters were also injured at this fire. It was undetermined if alarms were present and if the building had sprinklers. Damages from the blaze were not estimated.

Gloucester Had Largest Loss Fire in 2015
In 2015, Essex County did not have any fires that were considered large loss, or greater than $1 million in estimated damages. The largest loss fire was in Gloucester.

- On July 1, 2015, at 10:47 a.m., the Gloucester Fire Department was dispatched to a fire at a warehouse caused by a lightning strike. There were no injuries at this fire. It was undetermined if alarms were present. The building did not have sprinklers. Damages from this fire were estimated to be $800,000.

STRUCTURE FIRES

Reported Structure Fires Down
The 1,386 structure fires caused five civilian deaths, 20 civilian injuries, 41 fire service injuries and an estimated dollar loss of $17 million. These incidents represented 49% of Essex County's reported fires in 2015. The average estimated dollar loss per structure fire was $12,272. The total number of reported structure fires decreased by 253, or 15%, from the 1,639 reported in 2014.

Arson Caused 1% of Structure Fires
The 19 structure arsons caused one fire service injury and an estimated dollar loss of $1.2 million. Arson was indicated as the cause of 1% of the structure fires and 7% of Essex County's structure fire dollar loss. The 19 structure arsons accounted for 22% of the Essex County arson fires reported in 2015. The number of reported structure arsons increased by six from the 13 reported in 2014.

Almost 2/3 of Structure Arsons Occurred in Residences
Sixty-eight percent (68%) of Essex County's 19 structure arsons occurred in residential occupancies. Twenty-one percent (21%) took place in mercantile or business properties, and 11% occurred in educational facilities.

BUILDING FIRES

There were 1,372 building fires of different types in Essex County in 2015. These 1,372 building fires accounted for 98.9% of all structure fires in Essex County.

86% of Essex Building Fires Occurred in People's Homes

One thousand one hundred and seventy-three (1,173), or 86%, of Essex County's 1,372 building fires occurred in residential occupancies. Mercantile and business properties had 65 fires. Forty-nine (49) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 23 fires. Nineteen (19) fires took place in storage properties. Thirteen (13) building fires took place in educational properties. Eleven (11) fires took place in manufacturing and processing facilities. Ten (10) building fires in Essex County occurred in special properties such as outbuildings, bus stop shelters and toll booths. Four (4) fires happened in industrial facilities, and five fires occurred in unclassified properties in Essex County in 2015.

RESIDENTIAL FIRES

Residential Building Fires Down in 2015

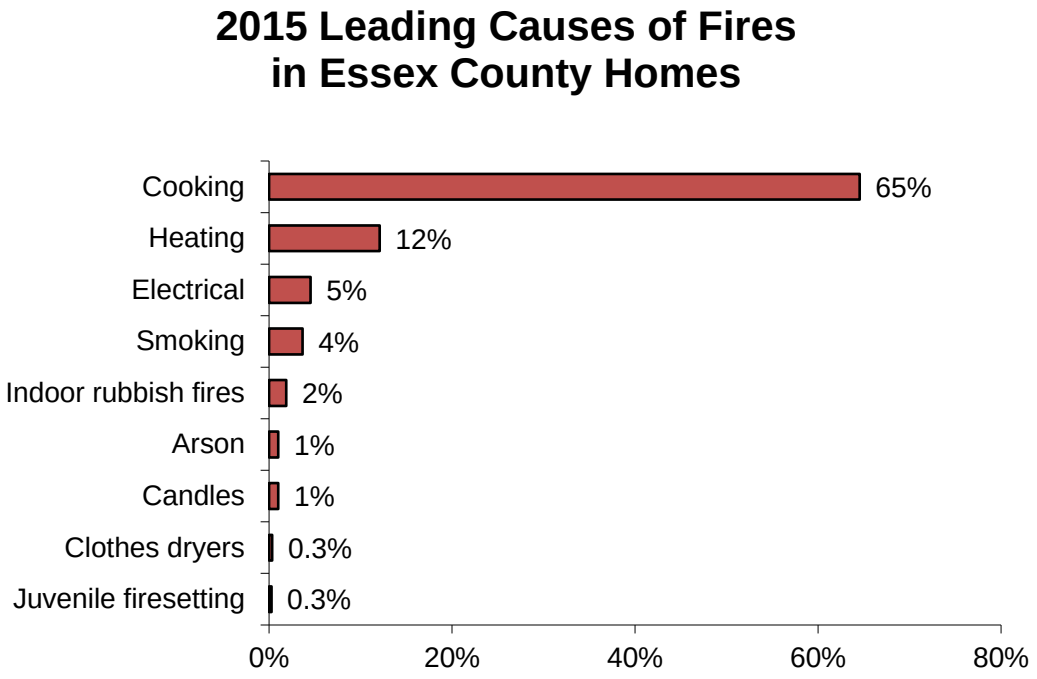
There were 1,173 reported residential building fires in Essex County in 2015. These 1,173 fires are a decrease of 232, or 17%, from the 1,405 residential building fires reported in 2014.

Apartments Accounted for 48% of Residential Building Fires

The peak fixed property uses for residential building fires were apartments accounting for almost half, or 48%, of the building fires in Essex County; 44% occurred in 1- and 2-family homes; 4% happened in rooming houses; 1% took place in residential board and care facilities, 1% occurred in dormitories; and 0.3% happened in hotels or motels. Twenty-three (23), or 2% of the residential building fires in Essex County occurred in unclassified residential buildings.

Cooking Leading Cause of Residential Fires

The leading cause of residential building fires in Essex County was unattended cooking and other unsafe cooking practices, accounting for 65% of these fires. Heating was the second leading cause, accounting for 12% of these fires. Electrical problems caused 5%. Smoking caused 4% and indoor rubbish fires caused 2% of these fires. Arsons and candles each caused 1% of these fires; and Clothes dryers and juvenile-set fires each caused less than 1% of the fires in people's homes in Essex County in 2015.



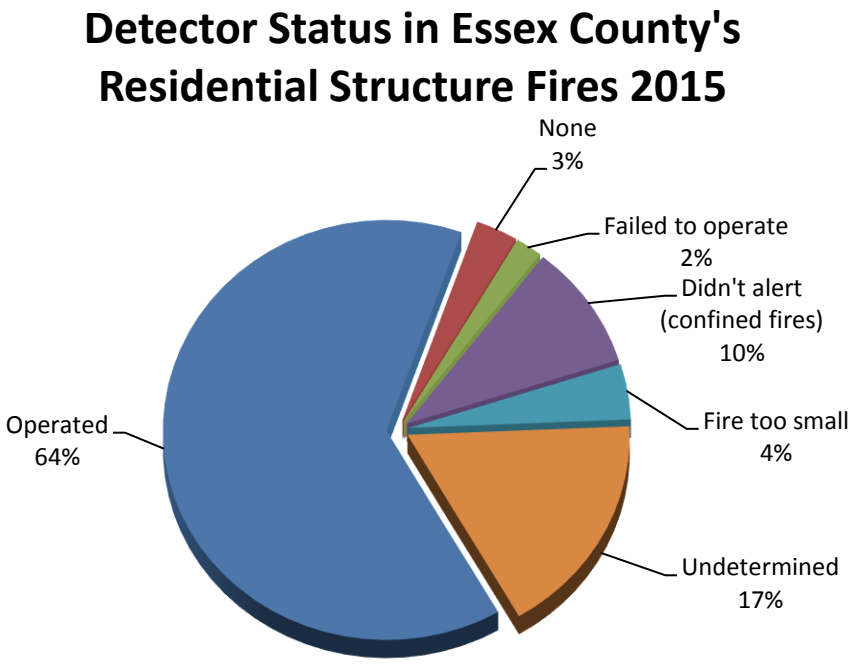
74% of Residential Building Fires Are Confined to Non-Combustible Containers[2]
Eight hundred and seventy-one (871), or 74%, of all residential building fires were reported as confined to non-combustible containers in 2015. Seven hundred and sixteen (716), or 61%, of all residential building fires reported in 2015 were cooking fires contained to a non-combustible container. Seventy-two (72), or 6%, were fires confined to a fuel burner or boiler malfunction. Sixty (60) of the reported fires were confined to a chimney, accounting for 5% of residential building fires. Twenty-one (21), or 2%, of these fires were rubbish fires contained to a non-combustible container. There was one reported incinerator overload or malfunction and one confined commercial compactor fire, each accounting for less than 1% of Essex County's residential fires in 2015.

Detectors Operated in 64% of Fires
Smoke or heat detectors operated and alerted the occupants in 748, or 64%, of the residential building fires. In 10% of these fires[3], the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 4% of the residential fires. Smoke detector performance was undetermined in 203 incidents, or 17%, of Essex County's residential building fires.

---

[2] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[3] These represent confined fires where it was reported that the detector did not alert the occupants.



6 Failed Detectors Had Missing or Dead Batteries
Of the 23 fires where smoke detectors were present but failed to operate, three, or 13%, failed because the batteries were either missing or disconnected. Another three, or 13%, did not operate because of dead batteries. Four (4), or 17%, failed because of power failures, shutoffs or disconnects. Two (2) detectors, or 9%, failed from a lack of maintenance. One (1) detector, or 4%, failed because it was defective. It was undetermined or unclassified in 13 cases, or 43%, why the detectors failed to operate.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings
Essex County reported 32 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 1,372 building fires reported to MFIRS in 2015. Twenty-one (21) fires occurred in vacant residential properties. Public assembly facilities had four vacant building fires. Storage facilities accounted for three vacant building fire incidents. Mercantile and business properties had two of these fires. Manufacturing or processing facilities and industrial facilities each had one vacant building fire incident in Essex County in 2015.

Five (5) of the vacant building fires in Essex County in 2015 were determined to be intentionally set. Two (2) were in apartments, one in a single-family home, one in a rooming house; and one in an unclassified residence.

JUVENILE-SET FIRES

9 Juvenile-set Fires

There were nine reported juvenile-set fires in Essex County in 2015. The six structure fires and three brush fires caused $715,100 in estimated damages.

ARSONS

85 Total Arsons — 19 Structures, 15 Vehicles & 51 Other Arsons

Eighty-five (85), or 3%, of Essex County's 2,841 fires were considered intentionally set, or, for purposes of this analysis, arson. The 19 structure arsons, 15 motor vehicle arsons and 51 outside and other arsons caused one civilian death[4], one fire service injury and an estimated dollar loss of $1.3 million.

All Arsons Up

The total number of reported arson fires increased by five from the 80 reported in 2014. Reported structure arsons increased by six from the 31 reported in 2014. Motor vehicle arsons increased by eight from the seven reported in 2014. Outside and other arsons decreased by nine from 60 reported the year before.

ALL INCIDENTS

Rescue & EMS Calls Are 56% of All Reported Responses

In 2015, fire departments in Essex County reported 101,889 responses[5] to MFIRS. Of these 101,889 incidents, 98,880 non-fire calls were voluntarily reported.

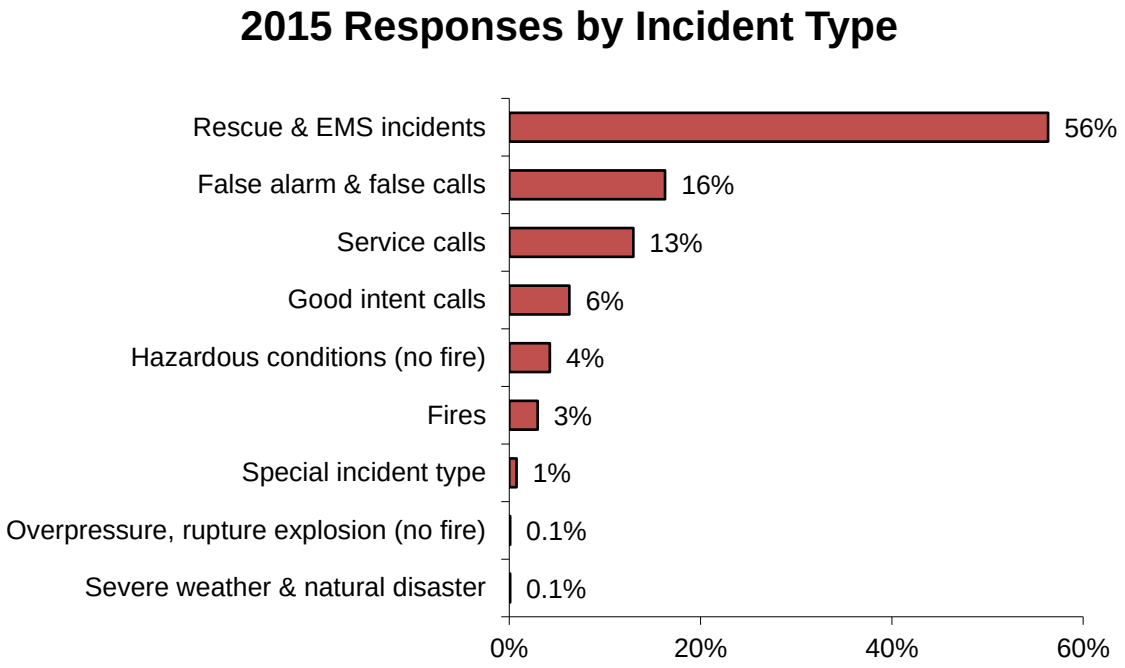
Of these 98,880 non-fire calls, 57,398, or 56%, of all the reported responses in 2015 were reported rescue and emergency medical services (EMS) calls; 16,602, or 16%, were reported false alarm or false calls; 13,216, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 6,412, or 6%, were reported good intent calls; 4,314, or 4%, were reported hazardous condition calls with no fire; 766, or 1%, were special incident type calls such as citizen complaints; 91, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 81, or 0.1%, were severe weather responses.

Three thousand and nine (3,009), or 3%, of the total incidents submitted by Essex County fire departments were fires.

---

[4] This death was a suicide.

[5] These figures include responses in which Essex County fire departments gave mutual aid to other fire departments.



Essex County Fire Departments Reported Giving Mutual Aid 1,166 Times
In 2015, Essex County fire departments reported coming to the aid of other fire departments 1,166 times. Of these 1,166 responses, 449, or 39%, were for service calls such as cover assignments; 318, or 27%, were for rescue or EMS calls; 185, or 16%, were for good intent calls; 109, or 9%, were for fires; 83, or 7%, were for false alarms or false calls; 15, or 1%, were for hazardous conditions calls with no fire; five, or 0.4%, were special incident types; and two, or 0.2%, was for overpressure, rupture explosion with no fire calls.

Essex County Received Mutual Aid in 905 Incidents
In 2015, Essex County fire departments reported receiving aid from surrounding departments in 905 incidents. Of these 905 incidents, 571, or 63%, were rescue and emergency medical services calls; 143, or 16%, were for fires; 99, or 11%, were false alarms or false calls; 33, or 4%, were hazardous conditions calls with no fire; 31, or 3%, were good intent calls; 25, or 3%, were service calls; and three, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Essex County Population: 743,159

3.8 Fires/1,000 Population

Total Fires: 2,841 **$18,934,393**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	1,386	49%	$17,008,626
Vehicle Fires	265	9%	1,715,784
Other Fires	1,190	42%	209,983

3 Fatal Fires
6 Civilian Deaths
22 Civilian Injuries

2.11 Civilian Deaths/1,000 Fires
0.08 Civilian Deaths/10,000 Population
47 Fire Service Injuries

Building Fires: 1,372

Residential Structure Fires: 1,173

Residential Structure Fires Confined to Non-Combustible Containers: 871

Unconfined Residential Structure Fires: 302

5 Civilian Deaths 16 Civilian Injuries 33 Fire Service Injuries

Occupancy	Fires	%
Apartments	566	48%
1- & 2-Family homes	516	44%
Rooming houses	45	4%
Residential board & care	11	1%
Dormitories	9	1%
Hotels/motels	3	0.3%

Detector Status	Fires	%
Operated	748	64%
Didn't operate	23	2%
None	36	3%
Fire too small	50	4%
Didn’t alert (confined)	113	10%
Undetermined	203	17%

Area of Origin[6]	%
Kitchen	67%
Heating equipment room	6%
Chimney or flue	5%
Bedroom	2%
Bathroom	2%
Exterior balcony/unencl. porch	1%

Heat Source	%	%Unconfined[7]
Arcing	3%	11%
Heat from operating equip.	3%	11%
Hot or smoldering obj., other	2%	9%
Cigarette	2%	8%
Rad./cond. Heat from op. eq.	1%	6%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[8]	%
Food, cooking materials	63%
Flammable/comb. liquid	6%
Film, residue (creosote)	5%
Electrical wire, cable insulation	3%
Rubbish, trash, waste	3%
Exterior sidewall covering	2%

Factor Contrib. to Ignit.	%	%Unconfined[9]
Abandoned materials	3%	10%
Too close to combustibles	2%	8%
Electrical failure, malfunc.	1%	5%
Misuse of materials or prod.	1%	4%
Failure to clean	1%	3%
Unspecified short-circuit arc	1%	2%

Equipment[10]	
Kitchen & cooking equipment	63%
None	17%
Boiler, furnace, cent. heat. unit	6%
Chimney, flue	5%
Stove, heating	1%
Fan	0.3%

Cause of Ignition	%	%Unconfined[11]
Unintentional	16%	60%
Failure of eq. or heat source	2%	10%
Intentional	1%	4%
Undetermined	2%	9%
Cause under investigation	4%	16%
Act of Nature	0.2%	1%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	71%
Didn't alert occupants	13%
Undetermined	16%

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[10] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[11] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	195	153	18	24
February	173	133	30	10
March	168	128	20	20
April	264	108	24	134
May	596	145	27	424
June	190	85	23	82
July	217	81	30	106
August	240	108	25	107
September	255	110	24	121
October	190	121	14	55
November	196	112	16	68
December	157	104	14	39

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	440	221	36	183
Monday	420	196	44	180
Tuesday	333	163	39	131
Wednesday	422	200	42	180
Thursday	448	214	50	184
Friday	392	195	29	168
Saturday	386	197	25	164

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	178	86	28	64
04:01 - 08:00	208	105	23	80
08:01 - 12:00	450	242	43	165
12:01 - 16:00	801	333	58	410
16:01 - 20:00	825	421	71	333
20:01 - 00:00	379	199	42	138

Motor Vehicle Fires

Total: 265
Automobiles: 223 (84%)
12, or (5%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 85 **Dollar loss: $1,262,284**

0.11 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	19	1%	22%	$1,194,900
Vehicle Arsons	15	6%	18%	64,250
Other Arsons	51	4%	60%	3,134

0.03 Structure arsons/1,000 population
0.02 Vehicle arsons/1,000 population
0.07 Other arsons/1,000 population

1 Civilian Death 1 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%
00:01 - 04:00	7	37%
04:01 - 08:00	3	16%
12:01 - 16:00	3	16%

Vehicle Arsons	#	%
00:01 - 04:00	8	53%
04:01 - 08:00	2	13%
12:00 - 16:00	2	13%
20:00 - 00:00	2	13%

Other Arsons	#	%
20:01 - 00:00	20	39%
12:01 - 16:00	14	27%
16:01 - 20:00	12	24%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	7	37%
Apartment buildings	3	16%
High/junior high/middle school	2	11%
Rooming house	2	11%
Service station, gas station	2	11%

Amesbury **Population: 16,283**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	55	26	12	17	1	0	0	1
2012	64	35	6	23	0	0	0	0
2013	41	24	2	15	1	0	0	1
2014	74	43	8	23	1	0	0	1
2015	15	12	1	2	0	0	0	0

Andover **Population: 33,201**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	109	54	17	38	4	0	0	4
2012	92	40	14	38	5	0	0	5
2013	65	35	13	17	1	0	0	1
2014	51	17	12	22	1	0	0	1
2015	74	25	18	31	2	0	0	2

Beverly **Population: 39,502**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	105	64	8	33	7	2	2	3
2012	98	40	7	51	3	1	1	1
2013	105	35	8	62	3	1	0	2
2014	93	35	3	55	6	2	0	4
2015	127	57	8	62	2	0	0	2

Boxford **Population: 7,965**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	30	19	6	5	0	0	0	0
2012	30	12	5	13	0	0	0	0
2013	34	10	6	18	0	0	0	0
2014	21	9	8	4	0	0	0	0
2015	30	7	2	21	3	0	0	3

Danvers **Population: 26,493**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	93	43	15	35	2	0	0	2
2012	130	34	19	77	11	0	0	11
2013	103	15	8	80	5	0	0	5
2014	69	18	11	40	5	1	1	3
2015	122	33	11	78	1	1	0	0

Essex **Population: 3,504**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	17	11	1	5	0	0	0	0
2012	13	9	0	4	1	0	0	1
2013	10	1	3	6	0	0	0	0
2014	15	9	1	5	0	0	0	0
2015	17	7	2	8	1	0	0	1

Georgetown **Population: 8,183**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	55	50	4	1	0	0	0	0
2012	58	45	6	7	0	0	0	0
2013	43	35	1	7	0	0	0	0
2014	48	42	3	3	0	0	0	0
2015	53	42	3	8	1	1	0	0

Gloucester **Population: 28,789**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	111	56	10	45	2	0	0	2
2012	134	72	7	55	5	0	0	5
2013	123	62	6	55	6	1	0	5
2014	113	64	4	45	5	1	0	4
2015	117	58	11	48	2	1	0	1

Groveland **Population: 6,459**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	1	0	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	2	0	1	1	0	0	0	0
2014	15	6	0	9	2	0	0	2
2015	22	8	1	13	2	0	0	2

Hamilton **Population: 7,764**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	51	41	0	10	0	0	0	0
2012	36	24	1	11	2	0	0	2
2013	24	15	0	9	3	0	0	3
2014	27	21	0	6	3	1	0	2
2015	19	9	1	9	0	0	0	0

Haverhill **Population: 60,879**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	279	169	16	94	32	1	0	31
2012	263	94	24	145	4	0	0	4
2013	265	93	25	147	19	3	0	16
2014	245	140	28	77	2	1	0	1
2015	249	97	16	136	8	2	0	6

Ipswich **Population: 13,175**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	4	3	11	1	0	0	1
2012	21	4	2	15	1	0	0	1
2013	34	15	3	16	3	1	1	1
2014	23	8	5	10	0	0	0	0
2015	29	9	8	12	3	0	2	1

Lawrence **Population: 76,377**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	251	127	53	71	31	15	13	3
2012	294	134	34	126	37	18	7	12
2013	273	98	44	131	21	8	5	8
2014	300	171	30	99	10	3	4	3
2015	294	131	41	122	33	10	11	12

Lynn **Population: 90,329**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	540	428	14	98	6	0	0	6
2012	436	331	13	92	2	0	0	2
2013	483	366	25	92	0	0	0	0
2014	487	374	28	85	1	1	0	0
2015	524	379	30	115	0	0	0	0

Lynnfield **Population: 11,596**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	105	83	7	15	1	0	0	1
2012	87	60	4	23	4	0	0	4
2013	95	78	3	14	3	0	0	3
2014	76	55	4	17	3	0	0	3
2015	62	33	4	25	0	0	0	0

Manchester-By-The-Sea **Population: 5,136**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	25	14	2	9	1	0	1	0
2012	28	20	2	6	1	0	0	1
2013	14	11	2	1	1	0	0	1
2014	18	10	2	6	1	0	0	1
2015	20	12	0	8	0	0	0	0

Marblehead **Population: 19,808**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	27	19	1	7	1	1	0	0
2012	39	15	5	19	2	1	0	1
2013	45	18	3	24	1	0	0	1
2014	34	18	2	14	2	0	0	2
2015	22	10	1	11	2	0	0	2

Merrimac **Population: 6,338**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	41	21	5	15	3	0	0	3
2012	42	21	1	20	2	0	0	5
2013	48	17	6	25	9	0	0	9
2014	39	20	4	15	6	0	0	6
2015	39	16	6	17	8	0	0	8

Methuen **Population: 47,255**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	133	61	27	45	2	1	0	1
2012	141	60	23	58	2	0	1	1
2013	123	47	23	53	11	3	2	6
2014	114	38	15	61	6	0	0	6
2015	135	41	21	73	8	2	2	4

Middleton **Population: 8,987**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	157	139	5	13	0	0	0	0
2012	146	125	6	15	1	1	0	0
2013	92	82	1	9	1	0	0	1
2014	119	97	5	17	1	0	0	1
2015	54	22	6	26	1	0	0	1

Nahant **Population: 3,410**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	12	6	0	6	0	0	0	0
2012	16	13	0	3	1	0	0	1
2013	12	7	1	4	2	0	0	2
2014	15	2	0	13	1	0	0	1
2015	14	8	2	4	0	0	0	0

Newbury **Population: 6,666**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	14	9	2	3	1	1	0	0
2012	51	26	3	22	4	0	0	4
2013	63	39	8	16	1	0	0	1
2014	25	10	1	14	6	0	0	6
2015	18	6	3	9	3	0	0	3

Newburyport **Population: 17,416**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	21	15	5	1	0	0	0	0
2012	23	17	3	3	1	1	0	0
2013	12	7	0	5	0	0	0	0
2014	14	7	4	3	0	0	0	0
2015	26	16	8	2	0	0	0	0

North Andover **Population: 28,352**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	158	118	11	29	2	0	0	2
2012	9	8	0	1	0	0	0	0
2013	98	67	11	20	1	0	0	1
2014	97	65	12	20	4	0	0	4
2015	125	81	11	33	3	1	0	2

Peabody **Population: 51,251**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	154	69	17	68	1	0	1	0
2012	180	63	10	107	2	0	0	2
2013	153	65	18	70	1	0	0	1
2014	179	67	12	20	4	0	0	4
2015	150	60	17	73	0	0	0	0

Rockport **Population: 6,952**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	15	7	1	7	0	0	0	0
2012	18	7	1	10	0	0	0	0
2013	4	2	0	2	0	0	0	0
2014	18	10	1	7	0	0	0	0
2015	Non-Reporting Community							

Rowley **Population: 5,856**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	44	33	6	5	0	0	0	0
2012	34	27	2	5	0	0	0	0
2013	30	22	1	7	0	0	0	0
2014	23	16	2	5	0	0	0	0
2015	41	27	5	9	0	0	0	0

Salem **Population: 41,340**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	128	51	14	63	3	1	1	1
2012	181	80	17	84	3	1	1	1
2013	185	67	12	106	5	2	2	1
2014	161	70	11	80	0	0	0	0
2015	198	60	12	123	1	0	0	1

Salisbury **Population: 8,283**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	1	2	1	0	0	0	0
2012	14	5	2	7	0	0	0	0
2013	50	11	6	33	6	0	0	6
2014	32	4	5	23	2	0	0	2
2015	42	8	6	28	0	0	0	0

Saugus **Population: 26,628**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	114	49	12	53	5	1	0	4
2012	156	43	10	103	2	0	0	2
2013	154	51	18	85	3	2	0	1
2014	145	61	10	74	2	1	1	0
2015	116	47	10	59	1	1	0	0

Swampscott **Population: 13,787**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	36	14	7	15	0	0	0	0
2012	44	18	2	24	3	0	0	3
2013	45	23	5	17	0	0	0	0
2014	32	20	2	10	0	0	0	0
2015	28	15	1	12	1	0	0	1

Topsfield **Population: 6,085**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	66	58	1	7	0	0	0	0
2012	95	79	4	12	3	0	1	2
2013	94	77	1	16	4	0	0	4
2014	106	90	1	15	3	0	0	3
2015	93	68	5	20	0	0	0	0

Wenham **Population: 4,875**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	12	10	0	2	0	0	0	0
2012	11	6	2	3	0	0	0	0
2013	14	8	2	4	0	0	0	0
2014	13	9	0	4	1	0	0	1
2015	11	4	2	5	0	0	0	0

West Newbury **Population: 4,235**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	10	9	1	0	0	0	0	0
2012	12	6	1	5	0	0	0	0
2013	16	9	2	5	0	0	0	0
2014	13	9	1	3	3	0	1	2
2015	11	6	1	4	0	0	0	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
09007	Amesbury	670	17	0	382	40	100	52	77	0	2
09009	Andover	2,849	74	3	1,094	208	316	92	695	2	365
09030	Beverly	4,564	127	11	2,407	267	307	338	1,087	5	15
09038	Boxford	755	32	1	379	29	58	28	223	4	1
09071	Danvers	7,567	122	2	3,138	186	2,877	263	909	7	63
09092	Essex	225	21	0	49	48	29	20	56	0	2
09105	Georgetown	1,209	53	3	422	41	535	63	92	0	0
09107	Gloucester	5,072	118	2	3,379	151	519	269	611	2	21
09116	Groveland	529	32	1	311	21	42	47	74	0	1
09119	Hamilton	424	20	0	50	72	80	30	169	1	2
09128	Haverhill	6,924	252	2	4,133	253	729	453	1,093	1	8
09144	Ipswich	1,610	30	1	887	116	141	124	310	0	1
09149	Lawrence	6,547	303	15	3,413	255	465	358	1,702	1	35
09163	Lynn	13,406	530	4	8,239	429	1,341	894	1,945	1	23
09164	Lynnfield	1,433	63	1	911	81	110	75	188	3	1

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
09166	Manchester	992	23	3	478	76	127	57	222	0	6
09168	Marblehead	2,645	25	2	1,160	138	438	386	483	3	10
09180	Merrimac	884	48	0	572	35	79	66	77	4	3
09181	Methuen	7,846	137	1	5,511	302	712	278	883	0	22
09184	Middleton	1,867	59	3	875	52	272	122	473	2	9
09196	Nahant	661	16	2	302	27	176	37	90	2	9
09205	Newbury	773	22	0	288	45	241	41	117	5	14
09206	Newburyport	26	26	0	0	0	0	0	0	0	0
09210	North Andover	4,205	125	3	2,794	150	384	173	535	3	38
09229	Peabody	9,107	150	13	5,926	341	433	835	1,394	7	8
09252	Rockport**	0	0	0	0	0	0	0	0	0	0
09254	Rowley	694	50	1	350	24	57	115	96	0	1
09258	Salem	7,151	200	6	3,923	435	587	378	1,609	11	2
09259	Salisbury	1,533	49	0	1,037	81	120	84	159	1	2
09262	Saugus	4,633	123	5	2,804	177	350	486	582	3	103

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
09291	Swampscott	1,884	33	4	1,026	133	232	134	318	1	3
09298	Topsfield	2,025	94	1	530	58	1,159	45	138	0	0
09320	Wenham	683	12	1	377	24	104	25	134	3	3
09324	West Newbury	503	23	0	251	19	96	44	61	9	0
	Essex County	**101,889**	**3,009**	**91**	**57,398**	**4,314**	**13,216**	**6,412**	**16,602**	**81**	**773**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

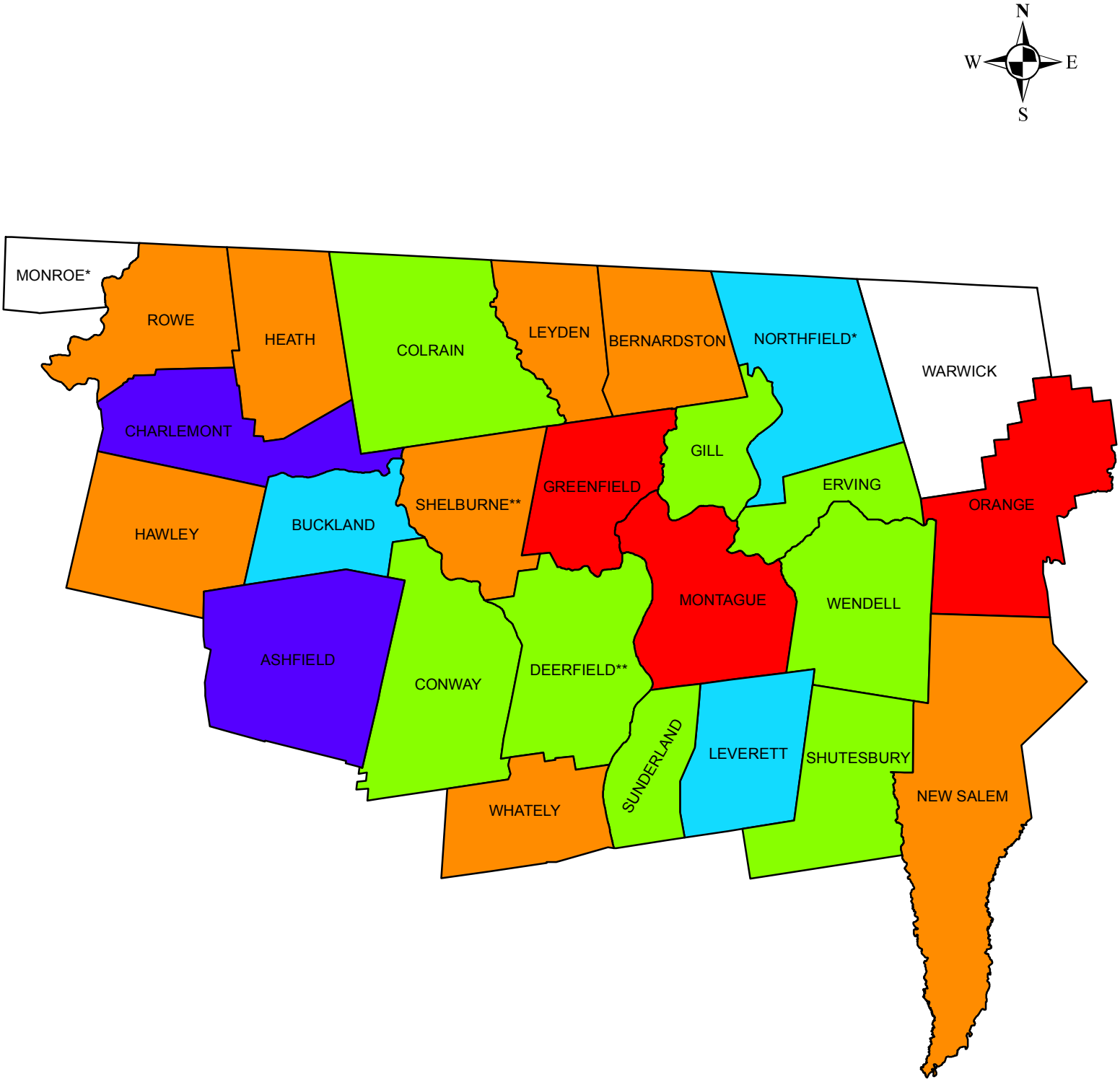
Franklin County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Franklin County Fires 2015



2015 Fires

- 0
- 1 - 5
- 6 - 10
- 11 - 15
- 16 - 25
- 26 - 50

*Non-reporting Department

**South Deerfield and Shelburne Falls did report fires in their jurisdiction.

Miles

0 1 2 4 6 8

MFIRS
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2015

Franklin County Fires in 2015

296 Total Fires — 151 Structures, 30 Motor Vehicles & 115 Outside or Other Fires
Franklin County ranked twelfth out of the fourteen Massachusetts counties in total fires. Franklin County fire departments reported 296 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 151 structure fires, 30 motor vehicle fires, 71 brush, tree or lawn fires, 16 outside rubbish fires, 14 special outside fires, one cultivated vegetation and crop fire; and 13 unclassified fires caused two civilian injuries, three fire service injuries and an estimated dollar loss of $3.8 million. Franklin County's fires accounted for 1% of the 31,302 Massachusetts fires reported in 2014.

Twenty-six (26) of the 29, or 89.7%, fire departments in Franklin County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2014.

All Fires Up
The total number of reported fire incidents increased by 34, or 13%, from the 262 reported in 2014. Reported structure fires increased by 37 from the 114 reported during the previous year. Motor vehicle fires increased by six from the 24 reported in 2014. Outside and other fires decreased by nine from the 124 reported the year before.

FRANKLIN COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	235	140	29	66	13	4	2	7
2012	285	129	29	127	18	6	1	11
2013	328	160	34	134	20	1	0	19
2014	262	114	24	124	18	3	0	15
2015	296	151	30	115	15	3	1	11

Fire and Fire Death Rates
Franklin County had 4.1 fires per 1,000 population. That figure ranks Franklin County tied for eighth in the state and below the state rate of 4.8 fires per 1,000 population. Franklin County had 0.0 fire deaths per 10,000 population ranking it tied for twelfth among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

No Civilian Fire Deaths in Franklin County
There were no civilian fire deaths in Franklin County in 2015

Conway Has Franklin County's Largest Loss Fire
Franklin County did not report any fires with an estimated loss greater than $1 million. Conway had the county's largest loss fire, representing 20% of the county's total fire loss.

- On February 1, 2015, at 3:28 p.m., the Conway Fire Department was called to a fire of undetermined cause in a storage building on a farm. No one was injured at this fire. There were no alarms present. There were no sprinklers. Damages from this fire were estimated to be $750,000.

STRUCTURE FIRES

Reported Structure Fires Up

The 151 structure fires caused two civilian injuries, two fire service injuries, and an estimated dollar loss of $3.7 million. These incidents represented 51% of Franklin County's reported fires in 2015. The average estimated dollar loss per structure fire was $24,717. The total number of reported structure fires increased by 37, or 32%, from the 124 reported in 2014.

Arson Caused 2% of Structure Fires

The three structure arsons caused an estimated dollar loss of $6,000. Arson was indicated as the cause of 2% of the structure fires and less than less than 1% of Franklin County's structure fire dollar loss. The three structure arsons accounted for 20% of the Franklin County arson fires reported in 2015. The total number of reported structure arsons remained the same with three reported in 2014 and 2015.

2 Structure Arsons Occurred in Residences

Two (2) of Franklin County's structure arsons in 2015 occurred in residential properties. The other arson occurred in a livestock or poultry storage facility.

BUILDING FIRES

There were 150 building fires of different types in Franklin County in 2015. These 150 building fires accounted for all but one, or 99.3% of the structure fires in Franklin County.

84% of Franklin Building Fires Occurred in People's Homes

One hundred and twenty-five (125), or 84%, of Franklin County's 150 building fires occurred in residential occupancies. Storage facilities had seven fires. Special properties had six fires. Mercantile or business properties and manufacturing facilities each had three fires. Two (2) fires occurred in each public assembly properties and educational facilities and manufacturing facilities had one fire.

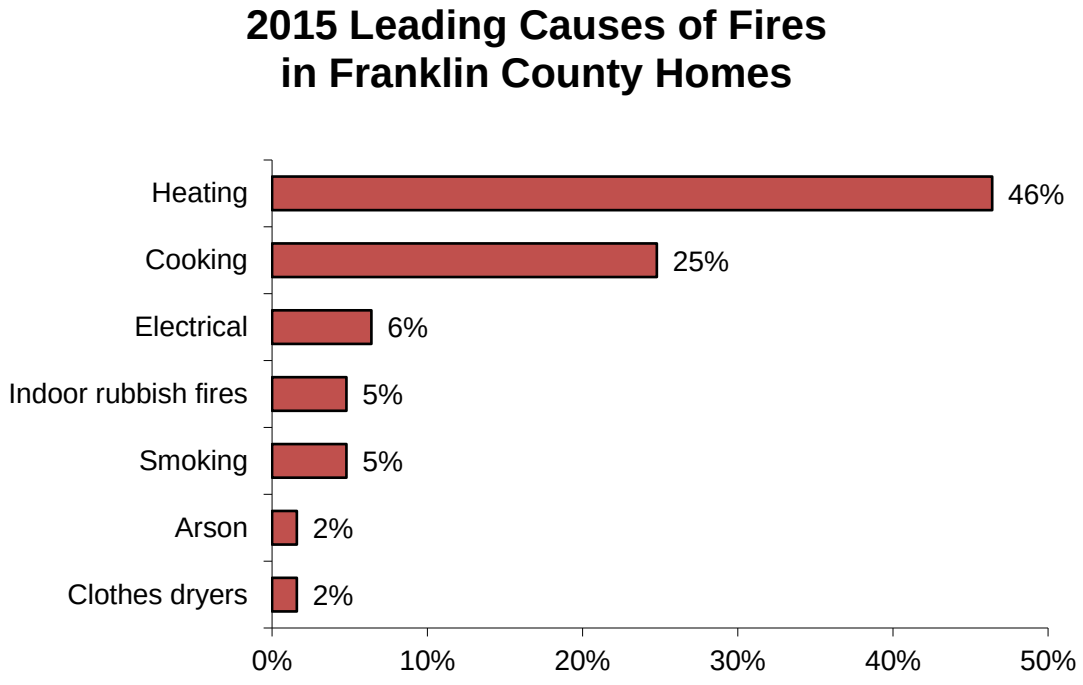
RESIDENTIAL FIRES

Residential Building Fires Up

There were 125 reported residential building fires in Franklin County in 2015. These 125 fires are an increase of 27, or 28%, from the 98 residential building fires reported in 2014.

1- & 2-Family Homes Accounted for Over 3/4 of Residential Building Fires
The peak fixed property uses for residential building fires were one- & two-family homes, accounting for 77% of the building fires in Franklin County; 21% occurred in apartments; 1% each in hotels or motels and residential board and care facilities; and 1% happened in unclassified residential properties.

Heating Leading Cause of Residential Fires
Heating was the leading cause of residential fires in Franklin County in 2015. Forty-six percent (46%) of the residential fires were caused by heating. Eighty-four percent (84%) of these heating fires involved chimneys. Franklin County was the only county where cooking was not the leading cause of residential fires in 2015. Unattended cooking and other unsafe cooking practices accounted for 25% of the fires in people's homes. Electrical fires accounted for 6% of the residential building fires. Indoor rubbish fires and smoking fires each caused 5% of these fires. Arson and clothes dryer fires each caused 2% of the fires in people's homes in Franklin County in 2015.



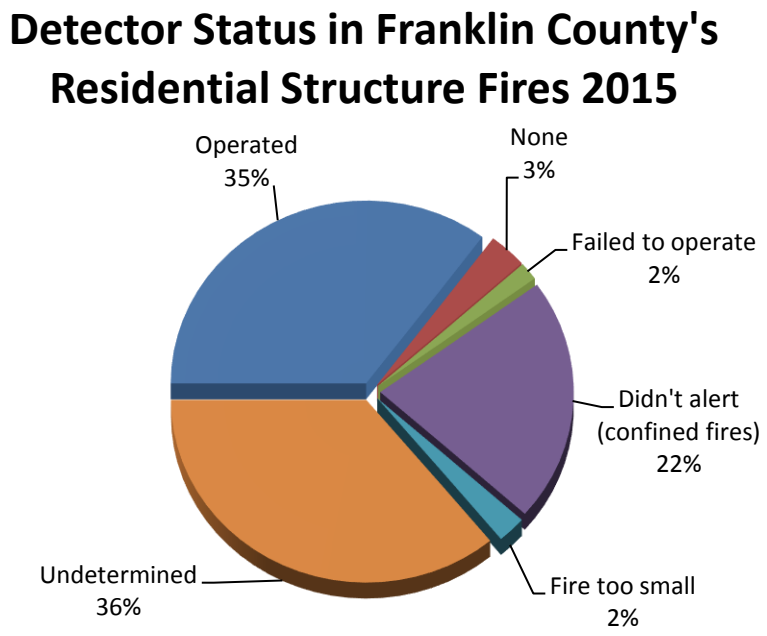
73% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Ninety-one (91), or 73%, of these fires were confined to a non-combustible container. Forty-five (45), or 36%, of all residential building fires reported in 2015 were fires

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

confined to a chimney or flue. Twenty-nine (29) of the reported fires were cooking fires contained to a non-combustible container accounting for 36% of residential building fires. Eleven (11), or 9%, were fires confined to a fuel burner or boiler malfunction. Six (6), or 5%, of these fires were indoor rubbish fires contained to a non-combustible container in Franklin County in 2015.

Detector Operation Undetermined in 36% of Fires

Smoke or heat detectors operated and alerted the occupants in 44, or 35%, of the residential building fires. In 22% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these fires. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 2% of the residential fires. Smoke detector performance was undetermined in 45 incidents, or 36%, of Franklin County's residential building fires.



VACANT BUILDINGS

1% of Building Fires Occurred in Vacant Buildings

Franklin County reported two fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 150 building fires reported to MFIRS in 2015. One (1) fire occurred at a vacant residence; and one occurred at a storage facility.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

One (1) of the vacant building fires in Franklin County in 2015 was determined to be intentionally set; this occurred at a livestock, poultry storage facility.

JUVENILE-SET FIRES

7 Juvenile-set Fires

There were seven reported juvenile-set fires in Franklin County in 2015. Four (4) were brush fires, two were special outside fires and another was an unclassified fire.

ARSONS

15 Total Arsons — 3 Structure, 1 MV & 11 Other Arsons

Fifteen (15), or 5%, of Franklin County's 296 fires were intentionally set, or, for purposes of this analysis, arson. The three structure arsons, one motor vehicle arson and 11 outside and other arsons caused an estimated dollar loss of $6,000.

All Arson Down

The number of arsons decreased by three, or 17%, from the 18 reported in 2014. Structure arsons remained the same with three reported in 2014 and 2015. Motor vehicle arsons increased by one from none reported in 2014. Outside and other arsons decreased by four from the 15 reported in 2014.

ALL INCIDENTS

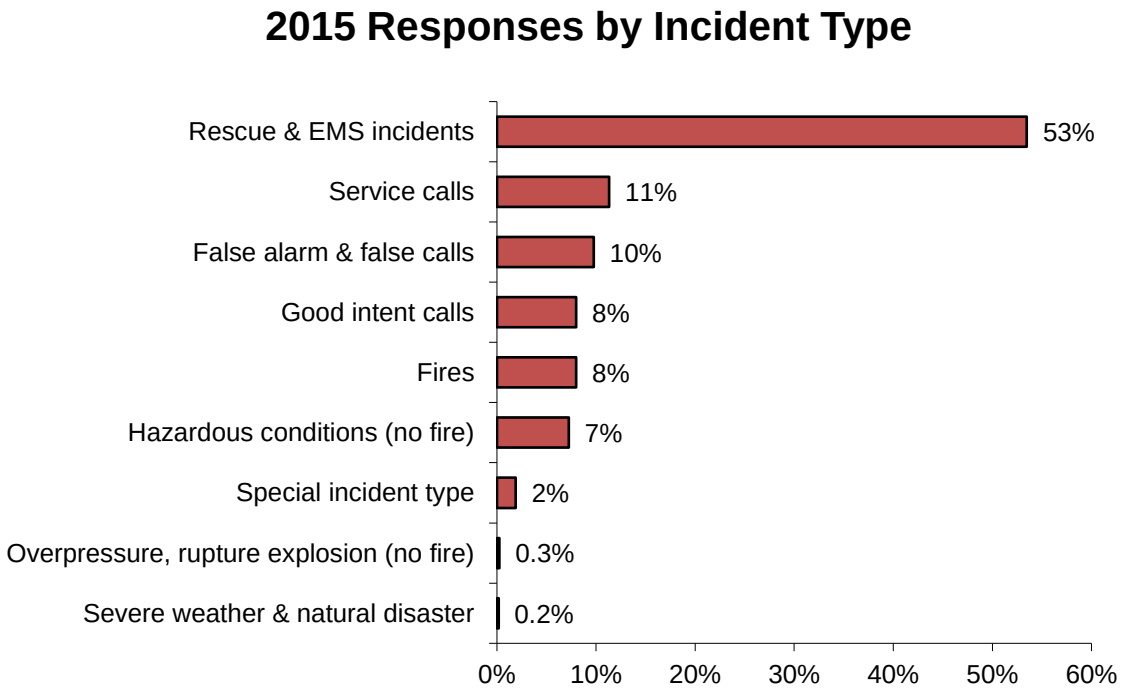
Rescue & EMS Calls Are 52% of All Reported Responses

In 2015, Franklin County fire departments reported 7,179 responses[3] to MFIRS. Of these 7,179 incidents, 6,622 non-fire calls were voluntarily reported.

Of these 6,622 non-fire calls, 3,839, or 53%, of all of the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 812, or 11%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 701, or 10%, were reported false alarm or false calls; 583, or 8%, were reported good intent calls; 521, or 7%, were reported hazardous condition calls with no fire; 136, or 2%, were special incident type calls such as citizen complaints; 18, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 12, or 0.2%, were severe weather responses.

Five hundred and fifty-seven (557), or 8%, of the total incidents submitted by Franklin County fire departments were fires.

[3] These figures include responses in which Franklin County fire departments gave mutual aid to other fire departments.



Franklin County Fire Departments Gave Mutual Aid 628 Times
In 2015, Franklin County fire departments reported coming to the aid of other fire departments 628 times. Of these 628 responses, 250, or 40%, were for fires; 247, or 39%, were for rescue or EMS calls; 77, or 12%, were for service calls such as cover assignments; 38, or 6%, were for good intent calls; 10, or 2%, were for hazardous conditions calls with no fire; four, or 1%, were for false alarms or false calls; one, or 0.2%, was for a severe weather or natural disaster call; and one, or 0.2%, was an overpressure, rupture or explosion with no ensuing fire call.

Franklin County Received Mutual Aid in 373 Incidents
In 2015, Franklin County fire departments reported receiving aid from surrounding departments in 373 incidents. Of these 373 incidents, 261, or 70%, were rescue and emergency medical services calls; 78, or 21%, were for fires; 16, or 4%, were hazardous conditions calls with no fire; seven, or 2%, were good intent calls; six, or 2%, were service calls; four, or 1%, were false alarm or false calls; and one, or 0.3%, was an overpressure, rupture or explosion with no ensuing fire call.

Franklin County Population: 71,372

4.2 Fires/1,000 Population

Total Fires: 296 **$3,799,610**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	151	51%	$3,732,210
Vehicle Fires	30	10%	46,400
Other Fires	115	39%	21,000

0 Fatal Fires 0.00 Civilian Deaths/1,000 Fires
0 Civilian Deaths 0.00 Civilian Deaths/10,000 Population
2 Civilian Injuries 3 Fire Service Injuries

Building Fires: 150

Residential Structure Fires: 125

Residential Structure Fires Confined to Non-Combustible Containers: 91

Unconfined Residential Structure Fires: 34

2 Civilian Injuries 2 Fire Service Injuries

Occupancy	Fires	%
1- & 2-Family homes	96	77%
Apartments	26	21%
Hotels/motels	1	1%
Residential board & care	1	1%
Residential, other	1	1%

Detector Status	Fires	%
Operated	44	35%
Didn't operate	2	2%
None	4	3%
Fire too small	3	2%
Didn’t Alert (confined)	27	22%
Undetermined	45	36%

Area of Origin[4]	%
Chimney or flue	36%
Kitchen	26%
Heating room or area	9%
Substructure area, crawlspace	4%
Bedroom	3%
Ext. balcony, unenclosed porch	3%

Heat Source	%	%Unconfined[5]
Arcing	4%	15%
Cigarette	3%	12%
Radiated heat from oper. eq.	3%	12%
Hot ember or ash	2%	6%
Hot or smoldering object	2%	6%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	**%**	**Factor Contrib. to Ignit.**	**%**	**%Unconfined**[7]
Film, residue (creosote)	36%	Failure to clean	3%	12%
Cooking materials	24%	Abandoned, discarded mat.	2%	9%
Flamm. or combustible liquid	9%	Mechanical failure, malfunc.	2%	9%
Rubbish, trash, waste	5%	Backfire	2%	9%
Electrical wire, cable insulation	3%	Equipment unattended	2%	9%

Equipment[8]	**%**	**Cause of Ignition**	**%**	**%Unconfined**[9]
Chimney or flue	36%	Unintentional	11%	41%
Cooking equipment	24%	Failure of eq. or heat source	7%	26%
None	17%	Intentional	0%	0%
Boiler, furnace, cent. heat. unit	9%	Act of nature	0%	0%
		Cause under investigation	4%	15%
		Undetermined	4%	15%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	31%
Didn't alert occupants	30%
Undetermined	40%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	19	16	1	2
February	30	23	2	5
March	26	19	3	4
April	64	18	2	44
May	30	12	4	14
June	19	7	5	7
July	12	6	3	3
August	16	4	6	6
September	16	5	1	10
October	14	11	1	2
November	26	13	1	12
December	24	17	1	6

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	56	22	4	30
Monday	43	21	6	16
Tuesday	37	21	2	14
Wednesday	42	28	2	12
Thursday	35	19	3	13
Friday	34	16	6	12
Saturday	49	24	7	18

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	25	13	6	6
04:01 - 08:00	2	10	4	8
08:01 - 12:00	56	28	6	22
12:01 - 16:00	89	37	10	42
16:01 - 20:00	69	35	2	32
20:01 - 00:00	35	28	2	5

Motor Vehicle Fires

Total: 30
Automobiles: 25 (83%)
0, or 0%, of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 15 **Dollar loss: $6,000**

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	3	2%	20%	$6,000
Vehicle Arsons	1	3%	7%	0
Other Arsons	11	10%	73%	0

0.04 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.15 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%
00:01 - 04:00	1	33%
12:01 - 16:00	1	33%
20:01 - 00:00	1	33%

Vehicle Arsons	#	%
12:01 - 16:00	1	100%

Other Arsons	#	%
12:01 - 16:00	5	45%
16:01 - 20:00	4	36%
04:01 - 08:00	1	9%
08:01 - 12:00	1	9%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family homes	2	67%
Livestock, poultry storage	1	33%

Ashfield **Population: 1,737**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	1	0	0	0	0	0
2012	14	1	1	12	0	0	0	0
2013	10	3	2	5	1	0	0	1
2014	17	8	1	8	0	0	0	0
2015	12	5	4	3	0	0	0	0

Bernardston **Population: 2,129**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	2	5	2	1	0	0	1
2012	13	6	0	7	1	0	0	1
2013	21	9	3	9	3	0	0	3
2014	4	1	0	3	0	0	0	0
2015	5	2	0	3	0	0	0	0

Buckland **Population: 1,902**

Buckland Fire District ***Est. Pop. Protected: 951***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	2	1	0	1	0	0	0	0
2013	7	4	0	3	0	0	0	0
2014	6	3	0	3	2	0	0	2
2015	11	2	0	9	1	0	0	1

Charlemont **Population: 1,266**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	8	6	0	2	0	0	0	0
2014	3	0	1	2	0	0	0	0
2015	16	7	1	8	0	0	0	0

Colrain **Population: 1,671**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	7	3	1	3	0	0	0	0
2012	26	12	3	11	0	0	0	0
2013	6	2	0	4	0	0	0	0
2014	12	7	0	5	0	0	0	0
2015	10	4	0	6	2	0	0	2

Conway **Population: 1,897**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	1	2	1	0	0	0	0
2012	7	4	0	3	1	1	0	0
2013	10	8	2	0	0	0	0	0
2014	5	4	0	1	0	0	0	0
2015	6	6	0	0	0	0	0	0

DEERFIELD FIRE DISTRICTS **Population: 5,125**

Deerfield ***Est. Pop. Protected: 2,819***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	7	2	1	4	0	0	0	0
2013	5	2	1	2	0	0	0	0
2014	Non-Reporting Community							
2015	Non-Reporting Community							

South Deerfield ***Est. Pop. Protected: 2,306***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	12	5	3	4	0	0	0	0
2012	6	2	1	3	0	0	0	0
2013	20	2	4	14	5	0	0	5
2014	18	4	3	11	1	0	0	1
2015	10	4	0	6	2	0	0	2

Erving **Population: 1,800**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	2	0	0	0	0	0	0
2012	2	1	0	1	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	4	0	0	4	0	0	0	0
2015	6	2	0	4	0	0	0	0

Gill **Population: 1,500**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	5	4	0	1	1	1	0	0
2012	15	2	2	11	1	0	0	1
2013	7	3	0	4	1	0	0	1
2014	12	1	4	7	1	0	0	1
2015	9	2	0	7	1	0	0	1

Greenfield **Population: 18,745**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	56	29	5	22	2	0	1	4
2012	88	44	10	34	4	1	0	3
2013	70	41	5	24	4	0	0	4
2014	57	30	3	24	5	1	0	4
2015	44	23	5	16	2	1	0	1

Hawley **Population: 337**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	1	1	0	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	1	0	0	0	0	0	0

Heath **Population: 706**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	3	0	1	0	0	0	0
2012	4	1	1	2	1	0	1	0
2013	5	4	0	1	1	0	0	1
2014	7	4	0	3	0	0	0	0
2015	5	4	0	1	0	0	0	0

Leverett **Population: 1,851**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	2	0	0	0	0	0	0
2012	5	4	0	1	0	0	0	0
2013	3	3	0	0	0	0	0	0
2014	2	1	1	0	0	0	0	0
2015	12	9	1	2	1	1	0	0

Leyden **Population: 711**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	5	5	0	0	0	0	0	0
2012	5	2	1	2	0	0	0	0
2013	3	2	0	1	0	0	0	0
2014	3	2	0	1	0	0	0	0
2015	5	2	0	3	1	0	0	1

Monroe **Population: 121**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Non-Reporting Community							
2015	Non-Reporting Community							

MONTAGUE FIRE DISTRICTS

Population: 8,437

Montague Center ***Est. Pop. Protected: 2,109***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	8	2	6	0	0	0	0
2012	6	3	1	2	1	0	0	1
2013	15	7	3	5	0	0	0	0
2014	17	4	0	13	2	0	0	2
2015	9	8	0	1	2	1	0	1

Turners Falls ***Est. Pop. Protected: 6,328***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	30	2	10	4	3	0	1
2012	28	21	1	6	5	4	0	1
2013	40	19	4	17	2	0	0	2
2014	19	9	1	9	4	1	0	3
2015	38	22	3	13	1	0	0	1

New Salem **Population: 990**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	7	7	0	0	0	0	0	0
2012	6	1	0	5	1	0	0	1
2013	4	1	0	3	1	0	0	1
2014	8	3	1	4	1	0	0	1
2015	1	0	0	1	0	0	0	0

Northfield **Population: 3,032**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	21	8	1	12	1	0	0	1
2014	8	4	1	3	0	0	0	0
2015	15	6	2	7	2	0	1	1

Orange **Population: 7,839**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	33	22	4	7	1	0	0	1
2012	9	5	1	3	1	0	0	1
2013	Non-Reporting Community							
2014	37	15	3	19	1	0	0	1
2015	50	19	9	22	0	0	0	0

Rowe **Population: 393**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	4	3	1	0	0	0	0	0
2013	5	3	0	2	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	0	1	0	0	0	0	0

SHELBURNE FIRE DISTRICTS **Population: 1,893**

Shelburne Center ***Est. Pop. Protected: 965***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	1	2	3	0	0	0	0
2012	4	1	2	1	0	0	0	0
2013	14	7	3	4	1	1	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Non-Reporting Community							

Shelburne Falls ***Est. Pop. Protected: 1,879***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	3	0	1	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	6	3	1	2	0	0	0	0
2014	5	1	1	3	0	0	0	0
2015	4	2	1	1	0	0	0	0

Shutesbury **Population: 1,771**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	2	0	0	0	0	0	0
2012	5	5	0	0	0	0	0	0
2013	4	1	2	1	0	0	0	0
2014	7	7	0	0	0	0	0	0
2015	7	6	1	0	0	0	0	0

Sunderland **Population: 3,684**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	6	0	3	0	0	0	0
2012	10	2	2	6	1	0	0	1
2013	1	1	0	0	0	0	0	0
2014	4	3	1	0	0	0	0	0
2015	10	8	1	1	0	0	0	0

Warwick **Population: 780**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	0	1	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	1	1	0	0	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Wendell **Population: 848**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	1	0	1	0	1	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	1	1	0	0	0	0	0	0
2014	2	1	0	1	0	0	0	0
2015	8	6	1	1	0	0	0	0

Whately **Population: 1,496**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3	1	1	1	0	0	0	0
2012	8	0	1	7	1	0	0	1
2013	5	1	1	3	0	0	0	0
2014	4	1	3	0	0	0	0	0
2015	3	2	0	1	0	0	0	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
11013	Ashfield	174	22	1	115	12	12	4	6	2	0
11029	Bernardston	144	26	1	85	8	13	4	7	0	0
11047	Buckland	63	15	1	10	14	6	7	10	0	0
11053	Charlemont	87	22	0	26	8	13	1	15	1	1
11066	Colrain	200	28	0	113	24	24	5	4	1	1
11068	Conway	63	15	0	4	29	5	6	4	0	0
11975	Deerfield**	0	0	0	0	0	0	0	0	0	0
11091	Erving	97	20	0	56	2	3	0	16	0	0
11106	Gill	114	21	0	16	11	22	9	31	3	1
11114	Greenfield	2,001	69	6	1,178	188	127	167	262	0	4
11129	Hawley	11	1	0	6	2	0	2	0	0	0
11130	Heath	72	13	0	39	7	4	2	5	1	1
11154	Leverett	96	18	0	56	11	1	2	8	0	0
11156	Leyden	18	6	0	1	2	4	3	2	0	0
11190	Monroe**	0	0	0	0	0	0	0	0	0	0
11192	Montague Ctr.	167	17	0	8	14	10	110	8	0	0

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that want to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
11204	New Salem	57	9	0	31	4	7	5	0	0	1
11217	Northfield	151	23	0	11	20	43	7	45	2	0
11223	Orange	2,085	62	2	1,342	41	354	74	89	2	119
11253	Rowe	12	1	0	10	0	0	0	1	0	0
11990	Shelburne Ctr.**	0	0	0	0	0	0	0	0	0	0
11989	Shelburne Falls	87	13	4	5	11	8	16	30	0	0
11272	Shutesbury	47	21	1	17	1	2	2	3	0	0
11976	South Deerfield	101	23	0	11	16	8	13	30	0	0
11289	Sunderland	80	20	0	11	15	7	3	24	0	0
11984	Turners Falls	1,169	68	2	654	74	132	137	95	0	7
11312	Warwick*	0	0	0	0	0	0	0	0	0	0
11319	Wendell	53	10	0	28	4	7	2	2	0	0
11337	Whately	30	14	0	6	3	0	2	4	0	1
Total	**Franklin County**	**7,306**	**429**	**22**	**3,828**	**679**	**888**	**511**	**752**	**88**	**109**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that want to send all of their responses to do so.

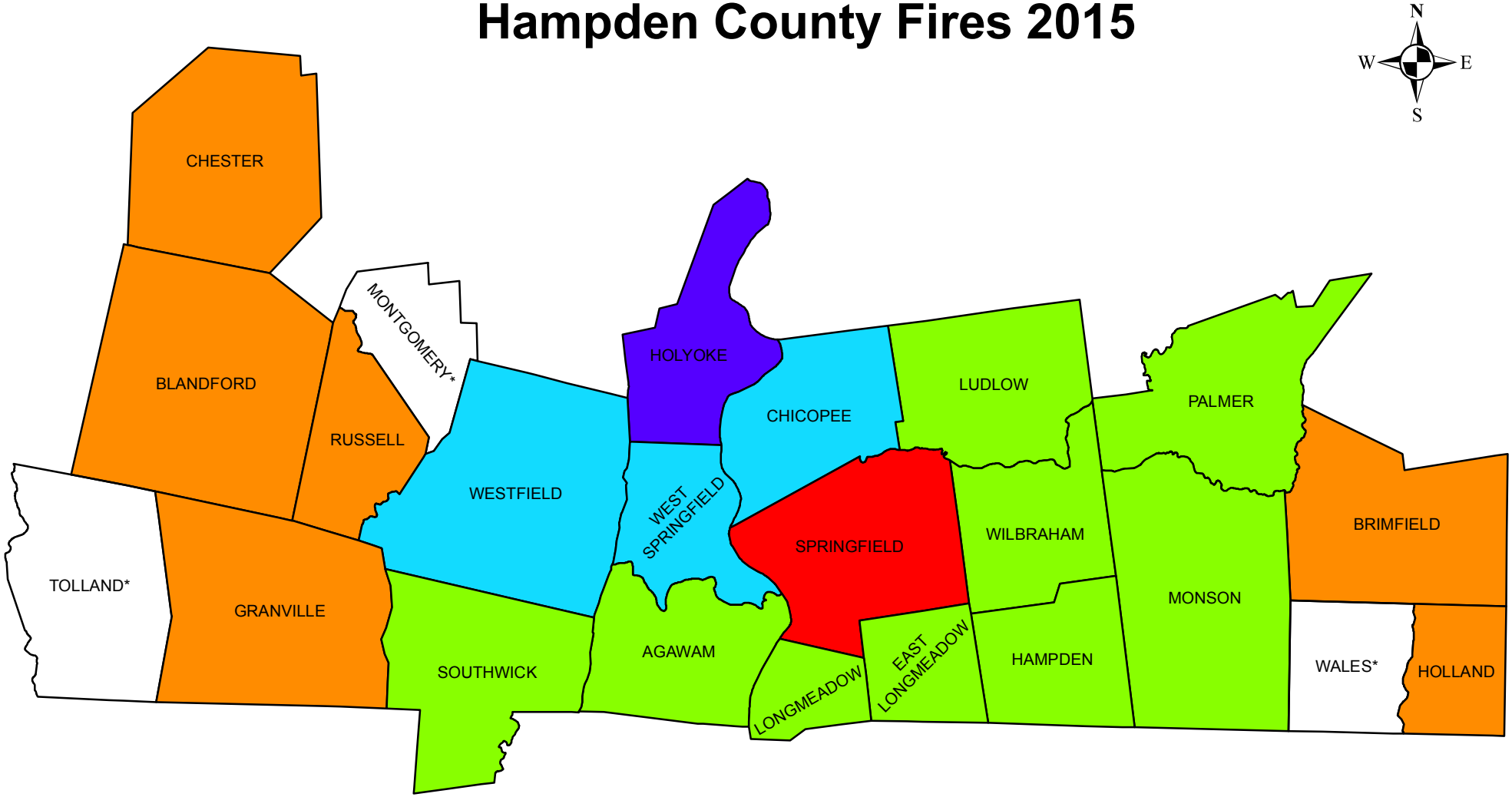
Hampden County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Hampden County Fires 2015



2015 Fires

- 0
- 1 - 15
- 16 - 80
- 81 - 200
- 201 - 362
- 363 - 724

*Non-reporting Department

0 1.25 2.5 5 7.5 10 Miles

Massachusetts Fire Incident Reporting System 2015

MFIRS
Massachusetts Fire Incident Reporting System

Hampden County Fires in 2015

2,064 Total Fires — 1,016 Structures, 228 Vehicles & 820 Other Fires
Hampden County ranked sixth out of the fourteen Massachusetts counties in total reported fires. Hampden County fire departments reported 2,064 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 1,016 structure fires, 228 motor vehicle fires, 413 brush, tree or lawn fires, 254 outside rubbish fires, 65 special outside fires, three cultivated vegetation or crop fires, and 85 other fires caused 10 civilian fire deaths, 29 civilian injuries, 51 fire service injuries and an estimated dollar loss of $11.7 million. Hampden County's 2,064 fires accounted for 7% of the 31,302 fire incidents reported to MFIRS in 2015.

Twenty-two (22), or 88%, of the 25 of the fire departments in Hampden County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Structure Fires Down
The total number of reported fire incidents increased by 85 from the 1,979 reported in 2014. Reported structure fires decreased by 72 from the 1,088 reported during the previous year. Motor vehicle fires increased by 2 from the 226 reported during 2014. Outside and other fires increased by 155 from the 665 reported the year before.

HAMPDEN COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2,094	1,215	293	586	50	9	12	29
2012	2,188	1,104	220	864	91	34	22	35
2013	2,057	1,088	240	729	60	13	19	28
2014	1,979	1,088	226	665	55	17	6	32
2015	2,064	1,016	228	820	103	28	15	60

Fire and Fire Death Rates
Hampden County had 4.5 fires per 1,000 population. That figure ranks Hampden County fifth in the state and just below the state rate of 4.8 fires per 1,000 population. Hampden County also had 0.22 fire deaths per 10,000 population ranking it second among Massachusetts counties and above the state rate of 0.09 fire deaths per 10,000 population.

10 People Died in 9 Hampden County Fires
In 2015, Hampden County had nine fatal fires that killed 10 people.

- On February 9, 2015, at 3:38 p.m., the Palmer Fire Department was dispatched to a fatal candle fire in a 20-unit apartment building. A candle started the fire in the living room. The victim, a 53-year old woman, discovered the fire in her apartment, went to a neighbor's apartment to tell her to call 911, and then went back into her apartment. No one else was injured at this fire. Alarms were present and alerted the occupants of

the building. The building did not have any sprinklers Damages from this fire were estimated to be $700,000.

- On February 26, 2015, at 4:59 a.m., the Springfield Fire Department was dispatched to a fire in a single-family home (trailer) of undetermined cause. The fire began in a first floor bathroom. The victim, a 53-year old man, was in the area of fire origin. He was transported to a local hospital where he succumbed to his injuries. No one else was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from this fire were estimated to be $24,000.

- On March 29, 2015, at 11:21 a.m., the Agawam Fire Department was called to a fatal fire in a residential lot. The victim, an 80-year old man, was working with a cutting torch and ignited his clothing. A neighbor tried to help the victim and was burned also.

- On July 8, 2015, at 12:27 a.m., the Springfield Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on the first floor exterior balcony. The victim, a 34-year old man, was in the area of origin when the fire began and was believed to be somehow involved with starting the fire. Two (2) firefighters were injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were estimated to be $95,000.

- On July 22, 2015, at 1:16 a.m., the Westfield Fire Department was called to a fatal smoking fire in a single-family home. The fire was caused by a cigarette lighter on a living room sofa. The victim, a 64-year old man, was sleeping in the living room. He was transported to a local hospital and later succumbed to his injuries. No one else was injured at this fire. Alarms were present but it was undetermined if they operated. There were no sprinklers. Damages from this fire were estimated to be $270,000.

- On August 28, 2015, at 9:37 p.m., the Springfield Fire Department was dispatched to a fatal candle fire in a four-unit apartment building. A candle started the fire in the living room. The victim was a 40-year old woman. Her two sisters were also injured at this fire but managed to escape with minor injuries. It was undetermined if alarms were present. The building did not have any sprinklers Damages from this fire were estimated to be $38,000.

- On October 18, 2015, at 7:43 a.m., the Chicopee Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by a cigarette lighter in a basement family room. The victims were a 60-year old man and his 87-year old mother. There were no other injuries at this fire. Alarms were in the building and operated, but the home did not have any sprinklers. Damages from this fire were estimated to be $160,000.

- On November 17, 2015, at 5:21 p.m., the Springfield Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by smoking materials on an exterior porch. The victim, a 57-year old woman, was sleeping at the time of

the fire. One (1) firefighter was injured at this fire. Alarms were present but it was undetermined if they operated. The building did not have sprinklers. Damages from this fire were estimated to be $77,000.

- On December 23, 2015, at 7:16 p.m., the Westfield Fire Department responded to a fatal heating fire at a single-family home. A portable space heater too close to combustibles in a first floor bedroom started the fire. The victim, a 48-year old physically disabled man, was overcome while he was trying to escape the fire. No one else was injured at this fire. There were no fire alarms and the building did not have any sprinklers. Damages from this fire were estimated to be $125,000.

Palmer Had Largest Loss Fire in Hampden County
There were no reported large loss fires in Hampden County in 2015. Palmer had the largest loss fire, the fatal fire that occurred on February 9, 2015 had a $700,000 estimated dollar loss. Springfield had the second largest loss fire in 2015.

- On January 1, 2015, at 2:51 a.m., the Springfield Fire Department was dispatched to an arson in a storage facility. No one was injured at this fire. Damages from this fire were estimated to be $600,000.

STRUCTURE FIRES

Reported Structure Fires Down
The 1,016 structure fires caused nine civilian deaths, 25 civilian injuries, 40 fire service injuries and an estimated dollar loss of $10.1 million. These incidents represented 49% of Hampden County's reported fires in 2015. The average estimated dollar loss per structure fire was $9,948. The total number of reported structure fires decreased by 72, or 7%, from the 1,088 reported in 2014.

Arson Caused 3% of Structure Fires
The 28 structure arsons caused two civilian injuries and an estimated dollar loss of $1.2 million. Arson was indicated as the cause of 3% of the structure fires and 12% of Hampden County's structure fire dollar loss. The 28 structure arsons accounted for 27% of the Hampden County arson fires reported in 2015. The total number of reported structure arsons increased by 11, or 65%, from the 17 reported in 2014.

71% of Structure Arsons Occurred in Residences
Seventy-one percent (71%) of Hampden County's 28 structure arsons occurred in residential occupancies. Fourteen percent (14%) occurred in storage facilities; 7% occurred in special properties; and 4% each in educational facilities and manufacturing or processing facilities.

BUILDING FIRES

There were 1,004 building fires of different types in Hampden County in 2015. These 1,004 building fires accounted for 98.8% of all structure fires in Hampden County.

84% of Hampden Building Fires Occurred in People's Homes

Eight hundred and forty-one (841), or 84%, of Hampden County's 1,004 building fires occurred in residential occupancies. Mercantile and business properties experienced 30 fires. Hospitals, prisons, and other institutional buildings also experienced 29 fires. Twenty-eight (28) fires took place in public assembly properties, including restaurants and churches. Twenty-three (23) fires took place in storage properties. Special properties had 19 fires. Sixteen (16) fires took place in manufacturing and processing facilities. Twelve (12) building fires took place on educational properties. Three (3) fires occurred in an industrial, utility, defense, agricultural or mining facility in Hampden County in 2015. The property use of three building fires was not reported.

RESIDENTIAL FIRES

Residential Building Fires Down

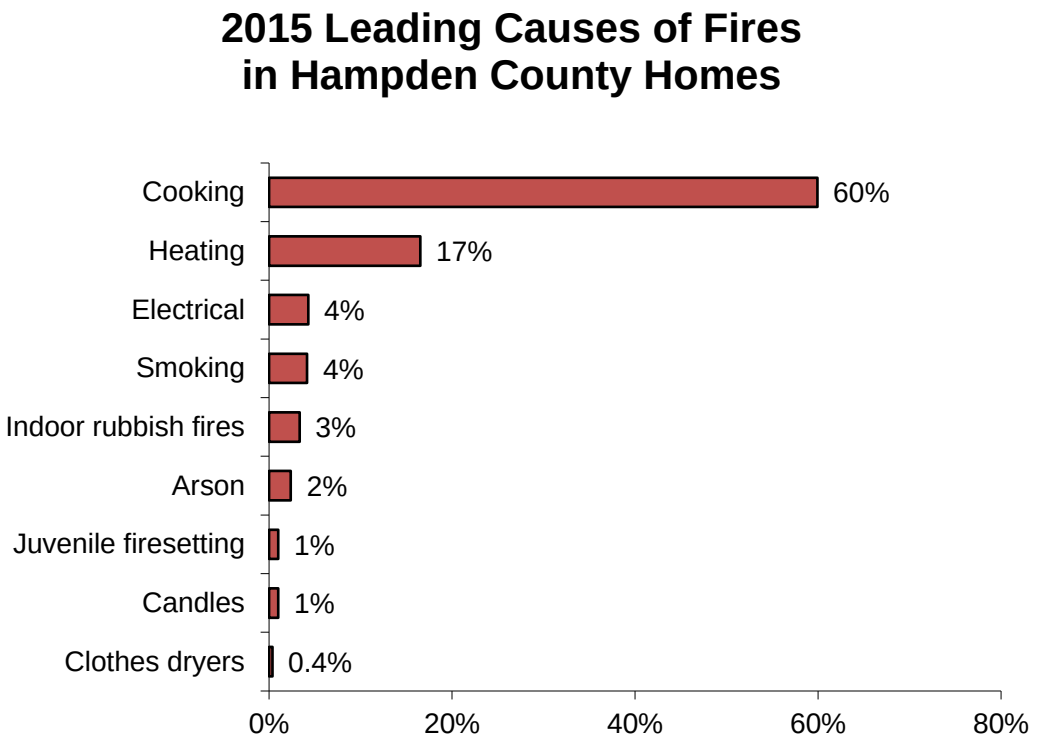
There were 841 reported residential building fires in Hampden County in 2015. These 841 fires are a decrease of 97, or less than 10%, from the 938 residential building fires reported in 2014.

Apartments Accounted for Almost 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for almost half, or 48%, of the building fires in Hampden County; 46% occurred in 1- & 2-family homes; 2% happened in dormitories; 1% happened in residential board and care facilities; 1% happened in hotels or motels; and 1% occurred in rooming houses;. Eleven (11), or 1%, of the residential building fires in Hampden County occurred in unclassified residential buildings.

Cooking Causes 60% of Residential Fires

The leading cause of residential building fires in Hampden County was unattended cooking and other unsafe cooking practices, accounting for 60% of these fires. Heating was the second leading cause of fires in people's homes, accounting for 17% of these fires. Electrical problems and smoking each caused 4%. Indoor rubbish fires started 3% of these fires. Arson caused 2% and juvenile-set fires and candles each caused 1% of these fires. Clothes dryers caused less than 1% of residential fires in Hampden County in 2015.



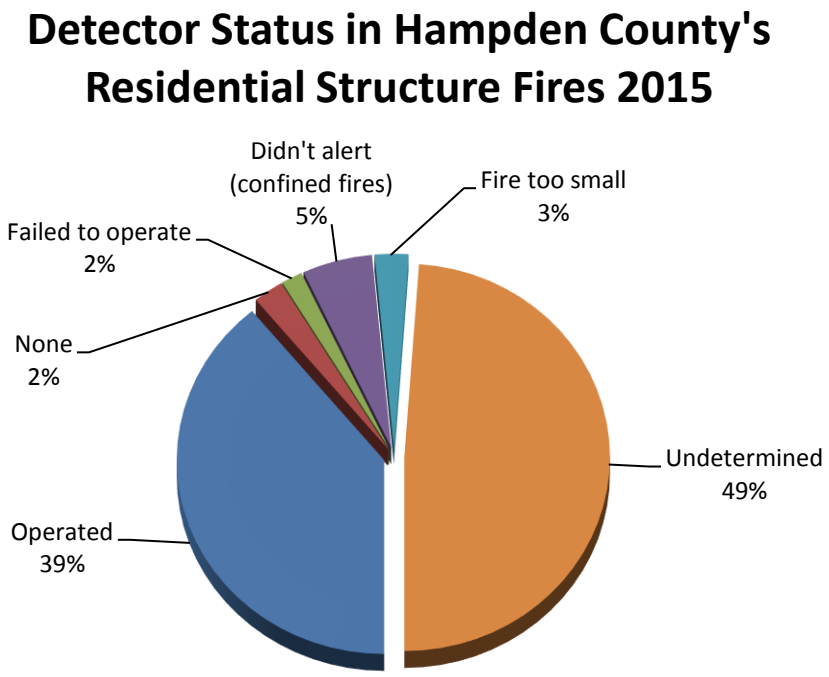
74% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Six hundred and twenty-one (621), or 74% of all residential building fires, were reported as confined to non-combustible containers in 2015. Four hundred and sixty-eight (468) of the reported fires were cooking fires contained to a non-combustible container, accounting for 56% of residential building fires. Sixty-eight (68), or 8%, were fires confined to a fuel burner or boiler malfunction. Fifty-seven (57), or 7%, of all residential building fires reported in 2015 were fires confined to a chimney. Twenty-eight (28), or 5%, of these fires were contained rubbish fires. One (1), or less than 1%, of confined fires, was a confined commercial compactor fire.

Detectors Alerted Occupants in 39% of Fires
Smoke or heat detectors operated and alerted the occupants in 328, or 39%, of the residential building fires. In 5% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 2% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 411 incidents, or 49%, of Hampden County's residential building fires.

---

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.



4 of Failed Detectors Had Missing or Disconnected Batteries
Of the 14 fires where smoke detectors were present but failed to operate, four, or 29%, failed because the batteries were either missing or disconnected. In one fire, or 7%, the detector failed because of a lack of maintenance. Nine (9), or 64%, of the detectors failed for unclassified or undetermined reasons.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings
Hampden County reported 23 fires that occurred in buildings that were vacant, under construction or demolition. This represents 2% of the total 1,004 building fires reported to MFIRS in 2015. Sixteen (16) fires occurred in vacant residential properties. Two (2) fires in storage facilities were reported as vacant building fires. Educational facilities, institutional facilities, mercantile and business properties, industrial facilities, and manufacturing or processing facilities each accounted for one vacant building fire.

Five (5), or 22%, of the vacant building fires in Hampden County in 2015 were determined to be intentionally set.

JUVENILE-SET FIRES

17 Juvenile-set Fires

There were 17 reported juvenile-set fires in Hampden County in 2015. There were three structure fires, 13 brush fires and one unclassified fire. These 17 fires caused $2,600 in estimated damages.

ARSONS

103 Total Arsons — 28 Structures, 15 Vehicles & 60 Other Arsons

One hundred and three (103), or 5%, of Hampden County's 2,064 fires were considered intentionally set, or, for purposes of this analysis, arson. The 28 structure arsons, 15 motor vehicle arsons and 60 outside and other arsons caused one civilian death, two civilian injuries, one fire service injury and an estimated dollar loss of $631,181.

All Arson Up

The total number of reported arson fires increased by 48 from the 55 reported in 2014. Structure arsons increased by 11 from the 17 reported in 2014. Motor vehicle arsons increased by nine from the six reported in 2014. Outside and other fires increased by 28 from the 32 reported the year before.

ALL INCIDENTS

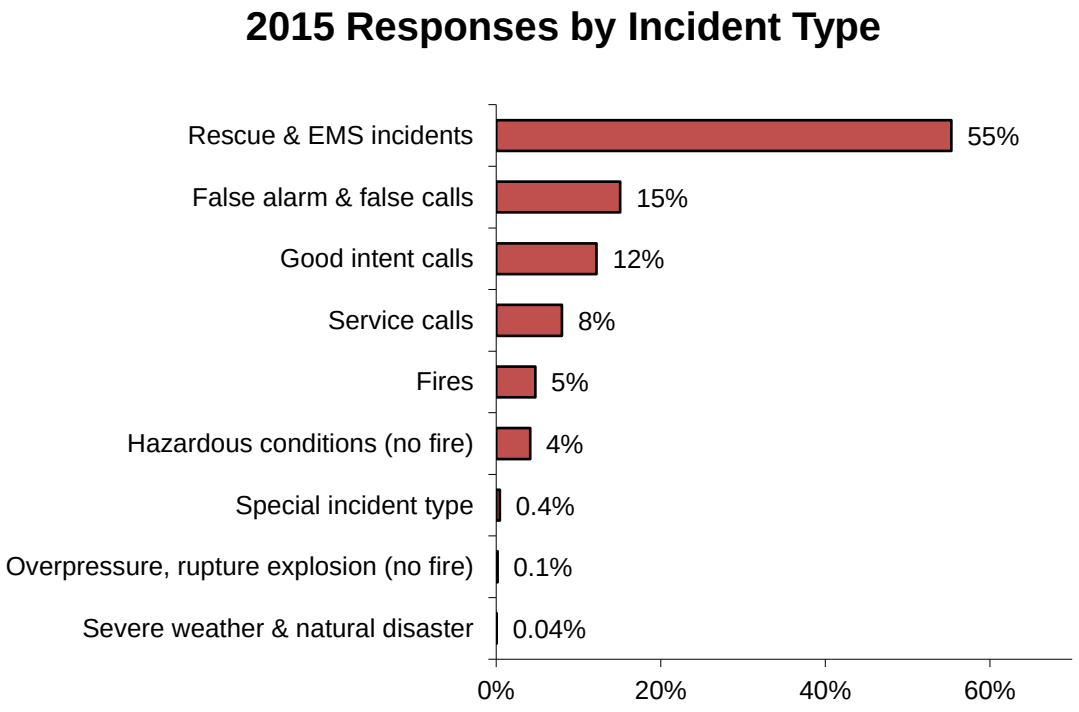
Rescue & EMS Calls Are 55% of All Reported Responses

In 2015, fire departments in Hampden County reported 45,589 responses[3] to MFIRS. Of these 45,589 incidents, 43,427 non-fire calls were voluntarily reported.

Of these 43,427 non-fire calls, 25,210, or 55% of all reported responses in 2015, were reported rescue and emergency medical services (EMS) calls; 6,867, or 15%, were reported false alarm or false calls; 5,553, or 12%, were reported good intent calls; 3,644, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,877, or 4%, were reported hazardous condition calls with no fire; 192, or 0.4%, were special incident type calls such as citizen complaints; 68, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 16, or 0.04%, were severe weather responses.

Two thousand one hundred and sixty-two (2,162), or 5%, of the total responses submitted by Hampden County fire departments were fires.

[3] These figures include responses in which Hampden County fire departments gave mutual aid to other fire departments.



Hampden County Fire Departments Gave Mutual Aid 383 Times
In 2015, Hampden County fire departments reported coming to the aid of other fire departments 383 times. Of these 383 responses, 132, or 34%, were for rescue or EMS calls; 98, or 26%, were for service calls such as cover assignments; 86, or 22%, were for fires; 32, or 8%, were for good intent calls; 22, or 6%, were for false alarms or false calls; 12, or 3%, were for hazardous conditions calls with no fire; and one, or less than 1%, was an overpressure, rupture or explosion with no ensuing fire call.

Hampden County Received Mutual Aid in 389 Incidents
In 2015, Hampden County fire departments reported receiving aid from surrounding departments in 389 incidents. Of these 389 incidents, 278, or 71%, were rescue and emergency medical services calls; 68, or 17%, were for fires; 14, or 4%, were good intent calls; 12, or 3%, were false alarms or false calls; nine, or 2%, were hazardous conditions calls with no fire; seven, or 2%, were service calls; and one, or less than 1% was a severe weather or natural disaster call.

Hampden County Population: 463,490

4.5 Fires/1,000 Population

Total Fires: 2,064 **$11,674,154**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	1,016	49%	$10,106,949
Vehicle Fires	228	11%	1,233,138
Other Fires	820	40%	334,067

9 Fatal Fires
10 Civilian Deaths
29 Civilian Injuries

4.84 Civilian Deaths/1,000 Fires
0.22 Civilian Deaths/10,000 Population
51 Fire Service Injuries

Building Fires: 1,004

Residential Structure Fires: 841

Residential Structure Fires Confined to Non-Combustible Containers: 621

Unconfined Residential Structure Fires: 220

9 Civilian Deaths 25 Civilian Injuries 33 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	400	48%	Operated	328	39%
1- & 2-Family homes	386	46%	Didn't operate	14	2%
Dormitories	17	2%	None	20	2%
Residential board & care	11	1%	Fire too small	22	3%
Hotels or motels	8	1%	Didn’t alert (confined)	46	5%
Rooming houses	8	1%	Undetermined	411	49%

Area of Origin[4]	%	Heat Source	%	%Unconfined[5]
Kitchen	63%	Rad., cond. heat/oper. eq.	3%	11%
Heating room or area	8%	Heat from operating equip.	2%	9%
Chimney, flue	4%	Arcing	2%	8%
Bedroom	2%	Cigarette	2%	7%
Exterior balcony/unencl. porch	2%	Hot or smoldering object	1%	5%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Food, cooking materials	58%	Equipment unattended	7%	26%
Flammable or combust. liquid	8%	Abandoned materials	4%	14%
Film, residue (creosote)	7%	Misuse of mat./prod. other	3%	10%
Rubbish, trash, waste	4%	Too close to combustibles	3%	10%
Structural member, framing	2%	Failure to clean	2%	7%
Exterior sidewall covering	2%	Mechanical failure/malfunc.	1%	5%

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
Cooking equipment	59%	Unintentional	12%	55%
None	17%	Failure of eq./heat source	3%	12%
Boiler, furnace, cent. heat unit	8%	Intentional	1%	5%
Chimney or flue	7%	Act of Nature	0.3%	1%
Stove, heating	1%	Undetermined	2%	10%
		Cause under investigation	3%	15%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	39%
Didn't alert occupants	7%
Undetermined	53%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	150	116	21	13
February	127	89	26	12
March	123	99	11	13
April	256	97	20	139
May	349	86	20	243
June	171	86	21	64
July	169	86	27	56
August	154	66	20	68
September	172	86	16	70
October	136	74	16	46
November	178	78	22	78
December	79	53	8	18

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	312	147	26	139
Monday	289	151	28	110
Tuesday	258	135	32	91
Wednesday	298	146	39	113
Thursday	292	135	39	118
Friday	295	153	39	103
Saturday	320	149	25	146

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 – 04:00	136	71	22	43
04:01 – 08:00	120	64	18	38
08:01 – 12:00	321	178	46	97
12:01 – 16:00	554	244	51	259
16:01 – 20:00	561	287	46	228
20:01 – 00:00	372	172	45	155

Motor Vehicle Fires
Total: 228
Automobiles: 173 (76%)
14, or (8%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 103 **Dollar loss: $1,257,210**

0.22 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	28	3%	27%	$1,199,010
Vehicle Arsons	15	7%	15%	57,700
Other Arsons	60	7%	58%	500

0.06 Structure arsons/1,000 population
0.03 Vehicle arsons/1,000 population
0.13 Other arsons/1,000 population

1 Civilian Death 2 Civilian Injuries 1 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%
00:01 - 04:00	8	29%
20:01 - 00:00	8	29%
16:01 - 20:00	4	14%

Vehicle Arsons	#	%
20:01 - 00:00	6	40%
08:01 - 12:00	4	27%
00:01 - 04:00	3	20%

Other Arsons	#	%
12:01 - 16:00	25	42%
20:01 - 00:00	14	23%
16:00 - 20:00	9	15%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartment buildings	13	46%
1- and 2-Family homes	7	25%

Agawam **Population: 28,438**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	73	33	18	22	2	0	1	1
2012	63	33	2	28	1	0	1	0
2013	60	30	10	20	1	0	1	0
2014	87	38	12	31	1	1	0	0
2015	80	34	8	38	1	0	0	1

Blandford **Population: 1,233**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	0	2	2	0	0	0	0
2012	8	0	2	6	1	0	0	1
2013	12	1	1	10	8	0	0	8
2014	2	1	0	1	0	0	0	0
2015	7	3	3	1	0	0	0	0

Brimfield **Population: 3,609**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	15	7	2	6	0	0	0	0
2012	5	1	1	3	0	0	0	0
2013	16	10	3	3	0	0	0	0
2014	15	6	0	9	1	0	0	1
2015	13	2	4	7	1	1	0	0

Chester **Population: 1,337**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	0	1	0	0	0	0
2012	4	3	0	1	0	0	0	0
2013	6	2	0	4	0	0	0	0
2014	3	2	0	1	0	0	0	0
2015	13	5	0	8	4	0	0	4

Chicopee **Population: 55,298**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	252	120	44	88	11	2	2	7
2012	228	104	24	100	8	2	3	3
2013	206	116	28	62	4	3	1	0
2014	164	95	17	52	2	0	0	2
2015	197	85	19	93	3	0	0	3

East Longmeadow **Population: 15,720**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	38	24	1	13	0	0	0	0
2012	31	11	2	18	2	0	1	1
2013	39	21	2	16	0	0	0	0
2014	51	25	3	23	7	2	0	5
2015	57	24	6	27	3	0	1	2

Granville **Population: 1,566**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	7	1	1	0	0	0	0
2012	8	3	0	5	0	0	0	0
2013	14	5	3	6	0	0	0	0
2014	6	3	0	3	0	0	0	0
2015	13	3	4	6	1	0	0	1

Hampden **Population: 5,139**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	25	23	0	2	0	0	0	0
2012	28	24	1	3	0	0	0	0
2013	34	22	3	9	4	0	0	4
2014	36	27	0	9	0	0	0	0
2015	40	24	3	13	0	0	0	0

Holland **Population: 2,481**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	4	2	3	0	0	0	0
2012	6	3	2	1	0	0	0	0
2013	7	7	0	0	0	0	0	0
2014	4	2	1	1	0	0	0	0
2015	15	6	3	6	1	0	0	1

Holyoke **Population: 39,880**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	200	106	38	56	11	3	2	6
2012	201	105	25	71	11	3	0	8
2013	272	128	23	121	6	2	0	4
2014	324	181	29	114	11	5	0	6
2015	362	222	33	107	42	12	2	28

Longmeadow **Population: 15,784**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	18	4	20	4	0	0	4
2012	34	13	3	18	1	1	0	0
2013	32	16	6	10	1	0	0	1
2014	35	15	6	14	1	0	0	1
2015	36	18	7	11	2	0	0	2

Ludlow **Population: 21,103**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	68	43	10	15	3	0	1	2
2012	77	43	6	28	7	3	1	3
2013	64	32	12	20	3	1	0	2
2014	45	18	12	15	2	0	1	1
2015	53	24	4	25	2	0	1	1

Monson **Population: 8,560**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	63	21	6	36	1	0	0	1
2012	65	14	5	46	0	0	0	0
2013	51	18	1	32	3	0	0	3
2014	34	15	2	17	5	0	0	5
2015	40	14	5	21	7	1	0	6

Montgomery **Population: 838**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	Non-Reporting Community							
2015	Non-Reporting Community							

Town of Palmer Fire Districts **Population: 12,140**

Bondsville ***Est. Pop. Protected: 2,792***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	3	0	3	0	0	0	0
2012	5	3	1	1	0	0	0	0
2013	5	3	0	2	0	0	0	0
2014	Non-Reporting Community							
2015	7	5	0	2	1	0	0	1

Palmer District # 1 ***Est. Pop. Protected: 5,584***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	37	26	6	5	1	0	0	1
2012	53	22	4	27	6	2	1	3
2013	33	20	7	6	1	0	0	1
2014	36	19	7	10	2	1	0	1
2015	40	19	16	5	1	1	0	0

Three Rivers ***Est. Pop. Protected: 3,763***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	2	1	1	0	0	0	0
2012	8	1	0	7	0	0	0	0
2013	3	1	2	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	15	5	0	10	0	0	0	0

Russell **Population: 1,775**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	8	6	0	2	0	0	0	0
2012	9	2	2	5	0	0	0	0
2013	10	2	1	7	0	0	0	0
2014	8	3	1	4	0	0	0	0
2015	2	0	1	1	1	0	0	1

Southwick **Population: 9,502**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	35	18	5	12	4	0	1	3
2012	49	18	8	23	3	1	1	1
2013	34	13	2	19	0	0	0	0
2014	32	17	2	13	2	0	0	2
2015	40	17	3	20	11	5	0	6

Springfield **Population: 153,060**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	961	635	105	221	9	4	3	2
2012	1,004	548	98	358	19	9	2	8
2013	838	464	96	277	21	5	13	3
2014	779	439	87	253	18	6	5	7
2015	723	356	74	293	23	8	11	4

Tolland **Population: 485**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	0	1	0	0	0	0
2012	1	0	0	1	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Non-Reporting Community							

Wales **Population: 1,838**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Non-Reporting Community							

West Springfield **Population: 28,391**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	74	24	23	27	2	0	1	1
2012	104	47	16	41	2	1	0	1
2013	118	61	21	36	4	0	3	1
2014	124	67	20	37	1	0	0	1
2015	129	60	14	55	2	1	0	1

Westfield **Population: 41,094**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	125	69	20	36	1	0	0	1
2012	144	82	16	46	3	1	0	2
2013	161	94	16	51	2	1	1	0
2014	141	89	17	35	2	2	0	0
2015	139	72	20	47	0	0	0	0

Wilbraham **Population: 14,219**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	41	23	5	13	1	0	1	0
2012	51	22	2	27	3	1	0	2
2013	41	21	3	17	2	1	0	1
2014	39	19	7	13	0	0	0	0
2015	54	22	1	31	0	0	0	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
13005	Agawam	2,219	81	0	1,338	70	324	120	247	0	39
13033	Blandford	102	7	0	71	8	3	1	12	0	0
13987	Bondsville	80	16	0	5	8	11	8	31	1	0
13043	Brimfield	334	33	1	223	11	10	33	23	0	0
13059	Chester	57	16	1	33	1	1	3	1	0	1
13061	Chicopee	6,038	199	5	3,308	175	863	632	778	1	77
13085	East Longmeadow	576	57	0	25	76	76	45	290	2	5
13112	Granville	186	18	0	120	17	17	6	8	0	0
13120	Hampden	116	43	0	13	8	3	13	35	1	0
13135	Holland	159	19	0	111	5	14	2	7	1	0
13137	Holyoke	5,311	364	7	2,964	164	252	537	1,010	0	13
13159	Longmeadow	2,315	37	4	1,490	114	229	131	306	2	2

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
13161	Ludlow	907	60	4	349	74	121	102	192	0	5
13191	Monson	235	44	0	44	53	28	22	41	1	2
13194	Montgomery**	0	0	0	0	0	0	0	0	0	0
13986	Palmer #1	350	41	1	17	62	85	47	94	0	3
13256	Russell	76	9	0	48	5	8	0	6	0	0
13279	Southwick	223	44	0	37	21	17	20	81	2	1
13281	Springfield	14,348	726	41	6,703	676	701	3,083	2,387	1	30
13988	Three Rivers	118	20	1	7	10	27	16	35	2	0
13297	Tolland**	0	0	0	0	0	0	0	0	0	0
13306	Wales**	0	0	0	0	0	0	0	0	0	0
13325	West Springfield	6,873	129	1	5,606	158	308	214	446	1	10
13329	Westfield	2,770	141	1	1,168	100	375	401	579	1	4
13339	Wilbraham	2,196	58	1	1,530	61	171	117	258	0	0
	Hampden County	**45,589**	**2,162**	**68**	**25,210**	**1,877**	**3,644**	**5,553**	**6,867**	**16**	**192**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

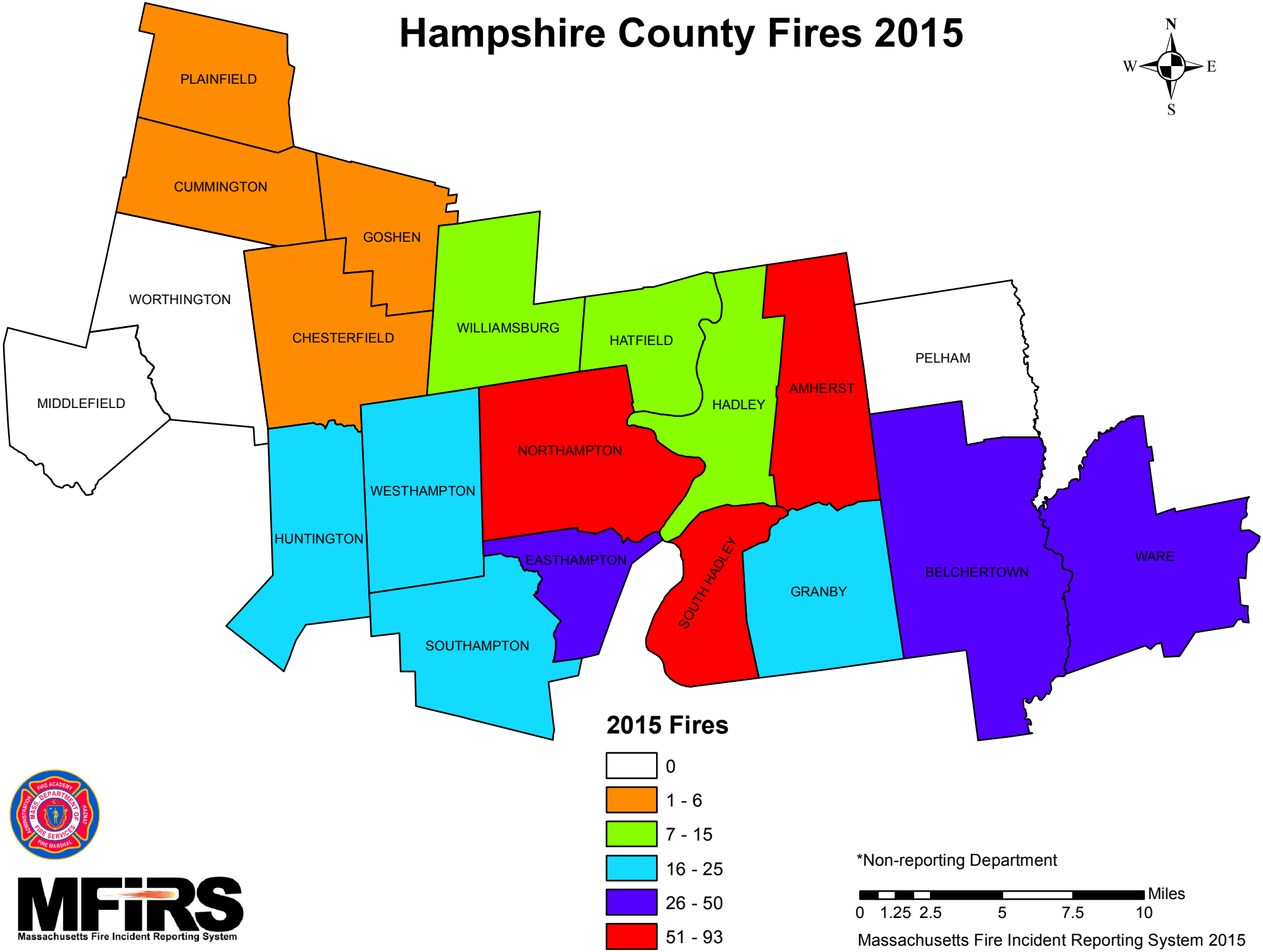
Hampshire County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Hampshire County Fires 2015



MFIRS
Massachusetts Fire Incident Reporting System

Hampshire County Fires in 2015

480 Total Fires — 193 Structures, 43 Vehicles & 244 Other Fires
Hampshire County ranked eleventh out of the fourteen Massachusetts counties in total reported fires. Hampshire County fire departments reported 480 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 193 structure fires, 43 motor vehicle fires, 119 brush, tree or lawn fires, 65 outside rubbish fires, 21 special outside fires, one cultivated vegetation or crop fire, and 38 other fires caused 10 civilian injuries, four fire service injuries and an estimated dollar loss of $3.6 million. Hampshire County's 480 total reported fires accounted for 2% of the 31,302 fires reported to MFIRS in 2015.

All 21 fire departments in Hampshire County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Structure Fires Down
The total number of reported fire incidents increased by 65 from the 415 reported in 2014. Reported structure fires decreased by 17 from the 210 reported during the previous year. Motor vehicle fires increased by nine from 34 the year before. The number of outside and other fires increased by 73 from 171 in 2014.

HAMPSHIRE COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	452	218	40	194	28	0	0	28
2012	544	209	46	289	43	4	0	39
2013	512	244	42	226	33	5	0	28
2014	415	210	34	171	30	2	0	28
2015	480	193	43	244	30	4	1	25

Fire and Fire Death Rates
Hampshire County had 3.0 fires per 1,000 population. That figure ranks Hampshire County thirteenth in the state and below the state rate of 4.8 fires per 1,000 population. Hampshire County also had zero fire deaths per 10,000 population, ranking it tied for twelfth among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

Hampshire County Has 0 Fire Deaths in 2015
There were no reported fire deaths in Hampshire County in 2015.

Northampton Has County's Largest Loss Fire
There was one reported fire in Hampshire County with a dollar loss greater than $1 million in 2015. This one fire was responsible for 28% of the county's total dollar loss in 2015.

- On June 14, 2015, at 8:03 p.m., the Northampton Fire Department was dispatched to a fire in a single-family home that was caused by old newspapers soaked in linseed oil from a staining project. The newspapers had been placed in the trash inside the garage and spontaneously combusted. One (1) civilian and two firefighters were injured at this fire. Alarms were present and alerted the occupants. The building was not sprinklered. Damages from this fire were estimated to be $1 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 193 structure fires caused seven civilian injuries, two fire service injuries and an estimated dollar loss of $3.4 million. These incidents represent 40% of Hampshire County's reported fires in 2015. The average estimated dollar loss per structure fire was $17,600. The total number of reported structure fires decreased by 17, or 8%, from the 210 reported in 2014.

4 Structure Arsons

Four (4) structure arsons caused an estimated dollar loss of $330,500. Arson was indicated as the cause of 2% of the structure fires and 10% of Hampshire County's structure fire dollar loss. The four structure arsons accounted for 13% of the Hampshire County arson fires reported in 2015. The total number of reported structure arsons increased by two, or 100%, from two reported in 2014.

BUILDING FIRES

There were 193 building fires of different types in Hampshire County in 2015. These 193 building fires accounted for all structure fires in Hampshire County.

84% of Hampshire Building Fires Occurred in People's Homes

One hundred and sixty-three (163), or 84%, of Hampshire County's 193 building fires occurred in residential occupancies. Ten (10) fires took place in public assembly properties, including restaurants and churches. Storage facilities experienced five fires. Five (5) fires occurred in educational facilities. Mercantile and business properties also had five fires. Special properties had three fires. Manufacturing and processing facilities had one fire. An industrial facility also had one fire in Hampshire County in 2015.

RESIDENTIAL FIRES

Residential Building Fires Down

There were 163 reported residential building fires in Hampshire County in 2015. Residential fires decreased by 17 from the 180 reported in 2014.

1- & 2-Family Homes Accounted for 58% of Residential Building Fires

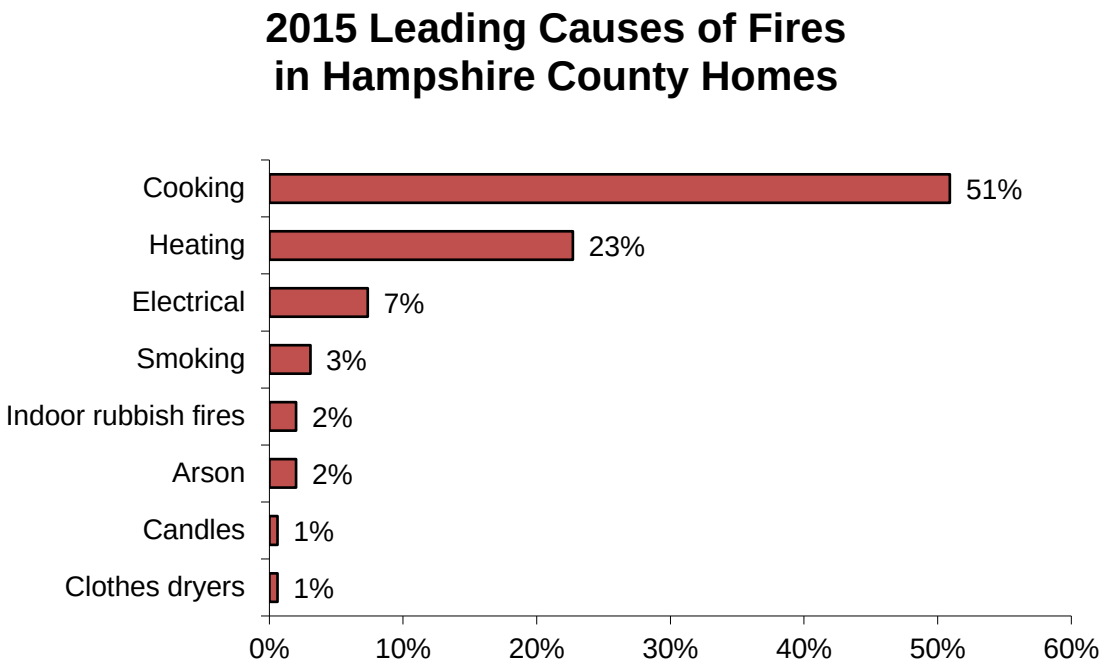
The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 58% of the residential building fires in Hampshire County; 28% occurred in apartments; 11% occurred in dormitories. One percent (1%) each happened in rooming

houses, residential board and care facilities and hotels or motels. One percent (1%) of the residential building fires in Hampshire County also occurred in unclassified residential buildings.

Although much of Hampshire County is rural, the county is home to several colleges and the main campus of the University of Massachusetts. Eighteen (18), or 11%, of Hampshire County's residential fires occurred in dormitories. Dormitory fires make up smaller percentages of the other counties' fires.

Cooking Causes Over 1/2 of Residential Fires

Unattended cooking and other unsafe cooking practices was the leading cause of the 163 residential building fires in Hampshire County, accounting for 51% of these fires. Heating equipment fires accounted for 23% of home fires. Electrical problems caused 7% of the residential fires. Smoking fires were responsible for 3% of these fires. Indoor rubbish fires and arson each caused 2%. Candles and clothes dryers accounted for 1% of the residential fires in Hampshire County in 2015.



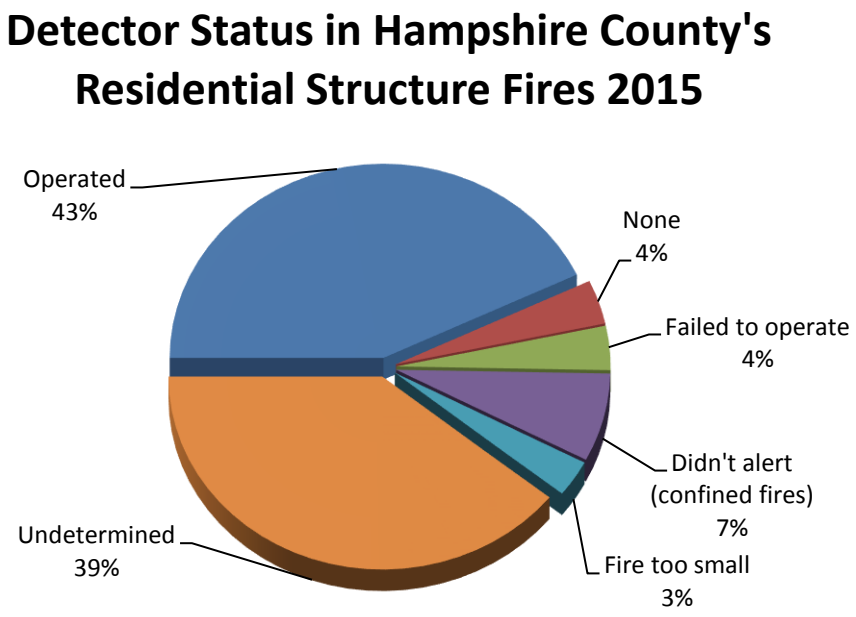
69% of Residential Building Fires Are Confined to Non-Combustible Containers[1]

One hundred and twelve (112), or 69%, of all residential building fires were reported as confined to non-combustible containers in 2015. Seventy-five (75) of the reported fires were cooking fires contained to a non-combustible container, accounting for 46% of

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

residential building fires. Twenty-seven (27), or 17%, of all residential building fires reported in 2015 were fires confined to a chimney. Six (6), or 4%, were fires confined to a fuel burner or boiler malfunction. Four (4), or 2%, of these fires were indoor rubbish fires contained to a non-combustible container in Hampshire County in 2015.

Detectors Operated in Only 43% of Fires
Smoke or heat detectors operated and alerted the occupants in 70, or 43%, of the residential building fires. In 7% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 4% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 64 incidents, or 39%, of Hampshire County's residential building fires.



2 Detectors Failed From Missing Batteries
Six detectors were reported to have failed in Hampshire County residential fires in 2015. Two (2) detectors failed because the battery was missing. It was undetermined why four of the detectors failed.

VACANT BUILDINGS

3 Building Fires Occurred in Vacant Buildings
Hampshire County reported three fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the 193 building fires reported to

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

MFIRS in 2015. Two (2) of these vacant building fires occurred each in residential properties and one happened in a special property.

None of the vacant building fires in Hampshire County in 2015 were determined to be intentionally set.

JUVENILE-SET FIRES

6 Juvenile-set Fires

There were six reported juvenile-set fires in Hampshire County in 2015. There were four brush fires, one special outside fire and one unclassified fire. These six fires did not cause any damages.

ARSONS

30 Total Arsons — 4 Structures, 1 Motor Vehicle & 25 Other Arsons

Thirty (30), or 6%, of Hampshire County's 480 fires were intentionally set, or, for purposes of this analysis, arson. The four structure arsons, one motor vehicle arson, 12 brush arsons, six outside rubbish arsons, one special outside arson, and six unclassified arsons caused an estimated dollar loss of $382,205.

All Arsons Remains the Same

The total number of reported arson fires remained the same with 30 reported in both 2014 and 2015. Structure arsons increased by two from two reported the previous year. Motor vehicle arsons increased by one from none in 2014. Reported outside and other arsons decreased by three from the 28 reported in both 2014.

ALL INCIDENTS

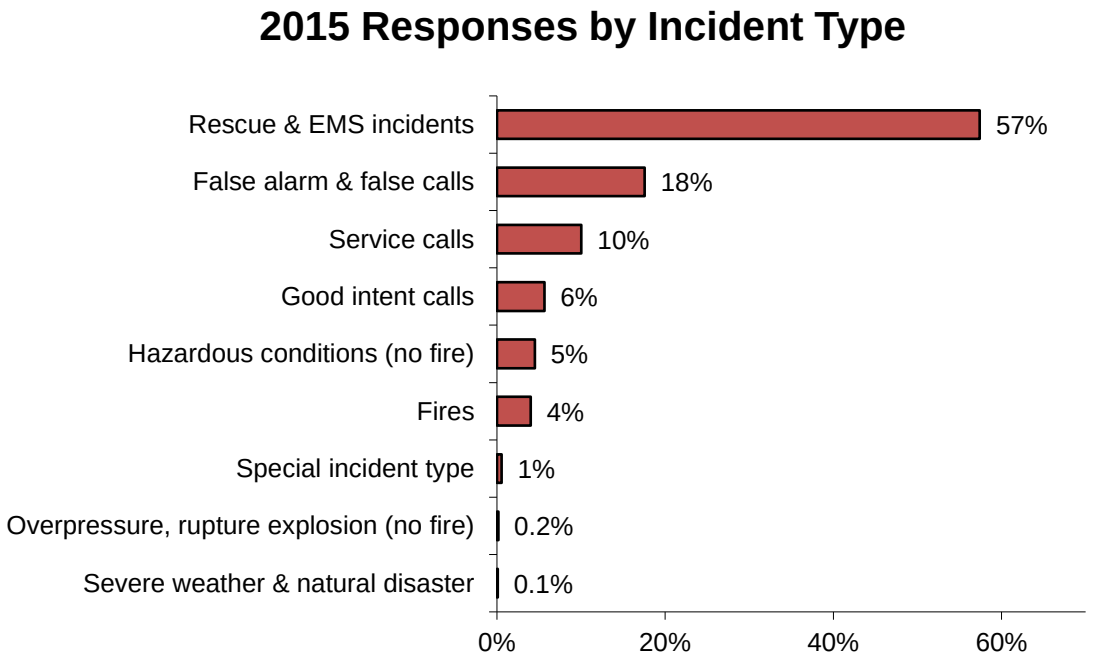
Rescue & EMS Calls Are 57% of All Reported Responses

In 2015, Hampshire County fire departments reported 14,519 responses[3] to MFIRS. Of these 14,519 incidents, 13,935 non-fire calls were voluntarily reported.

Of these 13,935 non-fire calls, 8,334, or 57%, of all the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 2,550, or 18%, were reported false alarm or false calls; 1,458, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 818, or 6%, were reported good intent calls; 654, or 5%, were reported hazardous condition calls with no fire; 82, or 1%, were special incident type calls such as citizen complaints; 23, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 16, or 0.1%, were severe weather responses.

[3] These figures include responses in which Hampshire County fire departments gave mutual aid to other fire departments.

Five hundred and eighty-four (584), or 3%, of the total responses submitted by Hampshire County fire departments were fires.



Hampshire County Fire Departments Gave Mutual Aid 411 Times
In 2015, Hampshire County fire departments reported coming to the aid of other fire departments 411 times. Of these 411 responses, 210, or 51%, were for rescue or EMS calls; 99, or 24%, were for fires; 52, or 13%, were for good intent calls; 27, or 7%, were for service calls such as cover assignments; 10, or 2%, were hazardous conditions calls with no fire; eight, or 2%, were for false alarms or false calls; and five calls, or 1%, were for special incident types.

Hampshire County Received Mutual Aid in 142 Incidents
In 2015, Hampshire County fire departments received aid from surrounding departments in 131 incidents. Of these 142 incidents, 69, or 49%, were rescue and emergency medical services calls; 51, or 36%, were for fires; six were good intent calls accounting for 4%; six, or 4%, were service calls; four, or 3%, were hazardous conditions calls with no fire; four, or 3%, were false alarm or false calls; one, or 1%, was a reported overpressure, rupture, explosion or overheat call with no fire; and one, or 1%, was a severe weather or natural disaster call in Hampshire County in 2015.

Hampshire County Population: 158,080

3.0 Fires/1,000 Population

Total Fires: 480 **$3,602,981**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	193	40%	$3,396,893
Vehicle Fires	43	9%	118,650
Other Fires	244	51%	87,438

0 Fatal Fire — 0.00 Civilian Deaths/1,000 Fires
0 Civilian Death — 0.00 Civilian Deaths/10,000 Population
10 Civilian Injuries — 4 Fire Service Injuries

Building Fires: 193

Residential Structure Fires: 163

Residential Structure Fires Confined to Non-Combustible Containers: 112

Unconfined Residential Structure Fires: 51

7 Civilian Injuries — 2 Fire Service Injuries

Occupancy	Fires	%
1- & 2-Family homes	94	58%
Apartments	45	28%
Dormitories	18	11%
Rooming houses	2	1%
Residential board & care	2	1%
Hotel or motel	1	1%

Detector Status	Fires	%
Operated	70	43%
Didn't operate	6	4%
None	6	4%
Fire too small	5	4%
Didn’t alert (confined)	12	7%
Undetermined	64	39%

Area of Origin[4]	%
Kitchen	53%
Chimney or flue	17%
Heating room or area	4%
Bedroom	3%
Living room	2%
Bathroom	2%
Substructure area, crawl space	2%

Heat Source	%	%Unconfined[5]
Arcing	5%	16%
Radiated, con. Heat op. eq.	4%	12%
Heat from operating eq.	3%	10%
Hot embers or ash	2%	10%
Cigarette	1%	4%
Lightning	1%	4%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Food, cooking materials	49%	Failure to clean	4%	14%
Film, residue (creosote)	17%	Abandoned materials	4%	12%
Flamm. or combustible liquid	4%	Equipment unattended	3%	10%
Rubbish, trash, waste	3%	Misuse of mater. or prod.	2%	8%
Electrical wire, cable insulation	2%	Too close to combustibles	2%	6%
Exterior sidewall covering	2%	Failure to clean	2%	6%

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
Cooking equipment	50%	Unintentional	16%	51%
None	18%	Failure of eq. or heat source	6%	18%
Chimney or flue	17%	Intentional	2%	6%
Boiler, furnace, cent. heat unit	4%	Cause under investigation	3%	10%
		Undetermined	4%	12%
		Act of nature	1%	4%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	42%
Didn't alert occupants	11%
Undetermined	47%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined Fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	39	29	3	7
February	40	28	2	10
March	31	20	4	7
April	78	24	3	51
May	95	12	3	80
June	25	9	2	14
July	28	9	5	14
August	26	6	4	16
September	31	9	5	17
October	32	16	6	10
November	29	16	3	10
December	26	15	3	8

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	75	25	6	44
Monday	73	33	7	33
Tuesday	52	24	3	25
Wednesday	71	27	7	37
Thursday	75	32	7	36
Friday	62	21	8	33
Saturday	72	31	5	36

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	34	14	1	19
04:01 - 08:00	26	13	2	11
08:01 - 12:00	79	33	9	37
12:01 - 16:00	130	36	17	77
16:01 - 20:00	129	60	9	60
20:01 - 00:00	82	37	5	40

Motor Vehicle Fires

Total: 43
Automobiles: 31 (72%)
1, or (3%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 30 **Dollar loss: $382,505**

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	4	2%	13%	$330,500
Vehicle Arsons	1	2%	3%	16,000
Other Arsons	25	10%	83%	36,005

0.03 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.16 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%
08:01 - 12:00	2	50%
00:01 - 04:00	1	25%
12:01 - 16:00	1	25%

Vehicle Arsons	#	%
04:01 – 08:00	1	100%

Other Arsons	#	%
20:01 - 00:00	6	24%
08:01 - 12:00	5	20%
12:01 - 16:00	5	20%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family home	3	75%
High/junior high/middle school	1	25%

Amherst **Population: 37,819**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	85	31	3	51	12	0	0	12
2012	107	39	7	61	17	2	0	14
2013	99	42	6	51	9	3	0	6
2014	80	44	9	27	5	1	0	4
2015	93	26	5	62	8	0	0	8

Belchertown **Population: 14,649**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	45	26	3	16	0	0	0	0
2012	51	22	6	23	0	0	0	0
2013	59	28	6	25	2	0	0	2
2014	37	14	2	21	8	0	0	8
2015	34	14	2	18	0	0	0	0

Chesterfield **Population: 1,222**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	5	1	1	3	0	0	0	0
2013	7	4	1	2	0	0	0	0
2014	7	3	0	4	2	0	0	2
2015	4	2	0	2	1	0	0	1

Cummington **Population: 872**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	1	1	0	0	0	0	0	0
2013	2	2	0	0	0	0	0	0
2014	1	0	0	1	0	0	0	0
2015	1	1	0	0	0	0	0	0

Easthampton **Population: 16,053**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	43	28	5	10	2	0	0	2
2012	34	18	4	12	0	0	0	0
2013	55	31	5	19	0	0	0	0
2014	43	27	4	12	0	0	0	0
2015	44	27	3	14	1	0	0	1

Goshen **Population: 1,054**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	2	0	4	0	0	0	0
2012	6	4	0	2	0	0	0	0
2013	4	4	0	0	0	0	0	0
2014	4	4	0	0	0	0	0	0
2015	6	4	0	2	0	0	0	0

Granby **Population: 6,240**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	24	10	3	11	1	0	0	1
2012	24	15	3	6	1	0	0	1
2013	31	12	1	18	4	0	0	4
2014	25	11	4	10	1	0	0	1
2015	24	12	3	9	0	0	0	0

Hadley **Population: 5,250**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	10	3	6	1	0	0	0	0
2012	10	3	2	5	0	0	0	0
2013	4	3	0	1	0	0	0	0
2014	Non-reporting Department							
2015	11	6	3	2	0	0	0	0

Hatfield **Population: 3,279**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	1	1	2	0	0	0	0
2012	12	3	3	6	0	0	0	0
2013	5	1	2	2	0	0	0	0
2014	9	3	0	6	1	0	0	1
2015	11	4	2	5	1	0	0	1

Huntington **Population: 2,180**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	3	2	11	5	0	0	5
2012	20	4	2	14	5	0	0	5
2013	11	1	0	10	6	0	0	6
2014	6	2	1	3	0	0	0	0
2015	25	5	1	19	0	0	0	0

Middlefield **Population: 521**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Northampton **Population: 28,549**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	75	24	13	38	0	0	0	0
2012	77	21	6	50	1	0	0	1
2013	81	36	9	36	1	1	0	0
2014	67	24	7	36	0	0	0	0
2015	67	21	10	36	6	4	0	2

Pelham **Population: 1,321**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	1	0	1	0	0	0	0	0
2013	3	2	1	0	0	0	0	0
2014	2	2	0	0	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Plainfield **Population: 648**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	0	1	0	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	2	2	0	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	2	2	0	0	0	0	0	0

SOUTH HADLEY FIRE DISTRICTS **Population: 17,514**

South Hadley District # 1 ***Est. Pop. Protected: 11,734***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	24	12	0	12	3	0	0	3
2012	49	16	3	30	1	1	0	0
2013	34	19	2	13	2	0	0	2
2014	31	18	3	10	1	1	0	0
2015	56	23	4	29	3	0	0	3

South Hadley District # 2 ***Est. Pop. Protected: 5,780***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	55	51	0	4	0	0	0	0
2012	39	33	2	4	2	0	0	2
2013	39	33	2	4	1	1	0	0
2014	35	34	0	1	0	0	0	0
2015	30	21	1	8	1	0	0	1

Southampton **Population: 5,792**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	7	5	1	1	0	0	0	0
2012	15	3	2	10	1	0	0	1
2013	6	0	3	3	1	0	0	1
2014	5	1	0	4	0	0	0	0
2015	2	1	1	0	0	0	0	0

Ware **Population: 9,872**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	45	15	0	30	6	0	0	6
2012	70	17	3	50	6	0	0	6
2013	53	18	2	33	7	0	0	7
2014	36	7	3	26	11	0	0	11
2015	43	14	4	25	8	0	0	8

Westhampton **Population: 1,607**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	2	2	2	0	0	0	0
2012	17	7	1	9	3	0	0	3
2013	5	2	0	3	0	0	0	0
2014	6	3	0	3	1	0	0	1
2015	16	7	0	9	0	0	0	0

Williamsburg **Population: 2,482**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3	2	0	1	0	0	0	0
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	10	3	2	5	0	0	0	0
2014	9	5	1	3	0	0	0	0
2015	15	4	4	7	0	0	0	0

Worthington **Population: 1,156**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	1	0	0	0	0	0	0
2013	1	1	0	0	0	0	0	0
2014	3	2	0	1	0	0	0	0
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
15008	Amherst	1,493	100	3	300	85	80	122	799	0	4
15024	Belchertown	320	41	0	8	72	46	13	139	0	1
15060	Chesterfield	67	13	0	31	8	2	9	3	0	1
15069	Cummington	1	1	0	0	0	0	0	0	0	0
15087	Easthampton	2,751	55	1	2,183	62	107	109	212	2	20
15108	Goshen	107	13	0	63	2	8	8	10	3	
15111	Granby	202	28	2	9	31	42	23	64	0	3
15117	Hadley	11	11	0	0	0	0	0	0	0	0
15127	Hatfield	110	12	1	13	20	10	9	41	3	1
15143	Huntington	283	37	0	186	20	10	10	17	0	3
15183	Middlefield*	0	0	0	0	0	0	0	0	0	0
15214	Northampton	7,215	75	12	4,877	193	811	352	866	2	27
15230	Pelham*	0	0	0	0	0	0	0	0	0	0
15237	Plainfield	2	2	0	0	0	0	0	0	0	0
15978	South Hadley #1	459	63	3	12	60	89	52	172	0	8
15979	South Hadley #2	660	43	0	313	14	162	41	87	0	0

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
15276	Southampton	43	2	0	35	4	1	0	1	0	0
15309	Ware	274	49	1	3	50	36	52	72	0	11
15331	Westhampton	214	24	0	111	15	35	9	19	0	1
15340	Williamsburg	307	15	0	190	18	19	9	48	6	2
15349	Worthington*	0	0	0	0	0	0	0	0	0	0
Total	**Hampshire County**	**14,519**	**584**	**23**	**8,334**	**654**	**1,458**	**818**	**2,550**	**16**	**82**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

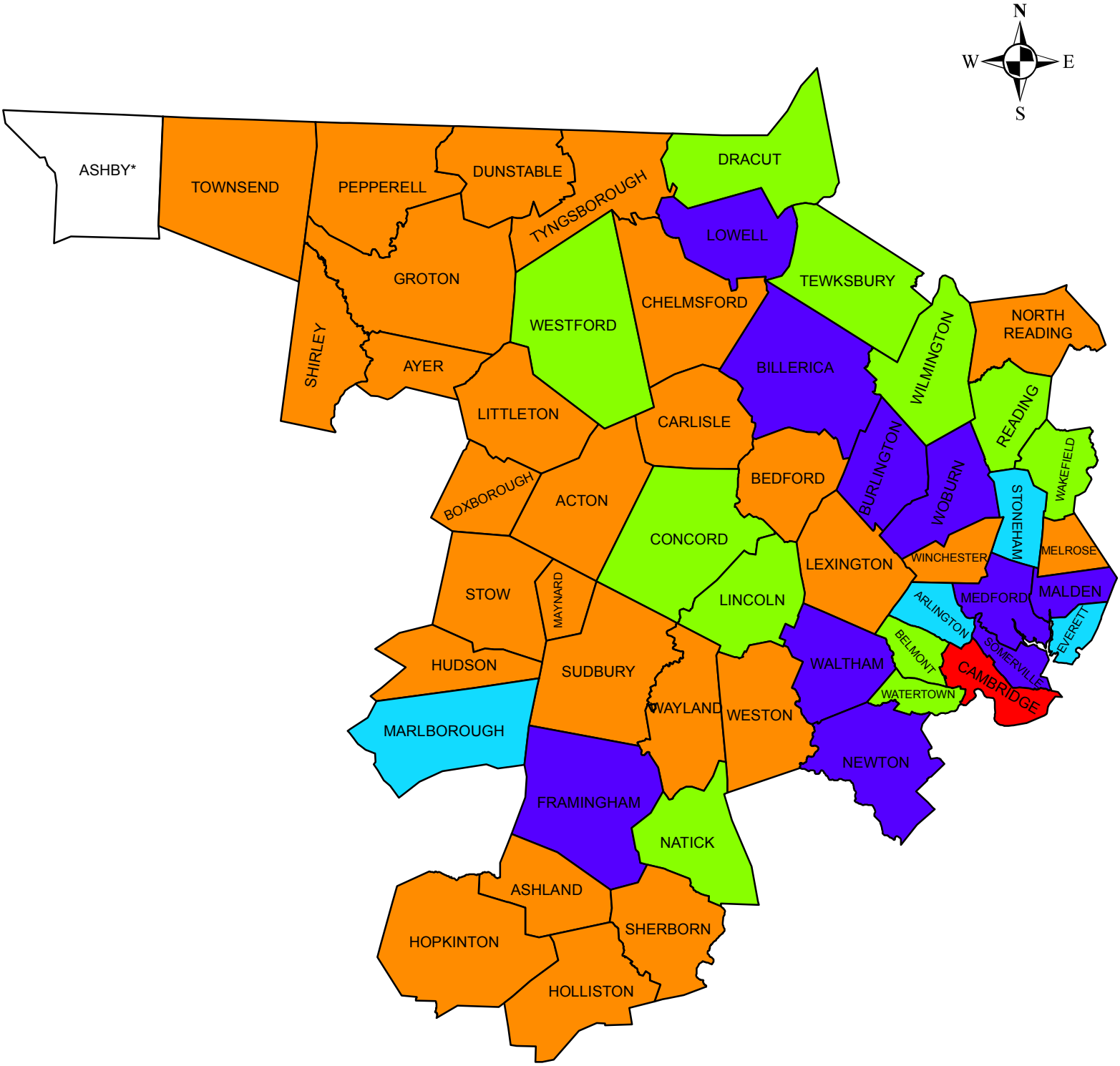
Middlesex County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Middlesex County Fires 2015



2015 Fires

- 0
- 1 - 50
- 51 - 100
- 101 - 150
- 151 - 632
- 633 - 932

*Non-reporting Department

0 1.252.5 5 7.5 10 Miles

MFIRS
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2015

Middlesex County Fires in 2015

5,622 Total Fires — 3,021 Structures, 407 Vehicles & 2,194 Other Fires
Middlesex County ranked second out of the fourteen Massachusetts counties in total reported fires. Middlesex County fire departments reported 5,622 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 3,021 structure fires, 407 motor vehicle fires, 1,391 brush fires, 458 outside rubbish fires, 171 special outside fires, eight cultivated vegetation or crop fires, and 166 unclassified fires caused seven civilian deaths, 40 civilian injuries, 63 fire service injuries and an estimated dollar loss of $47.4 million. Middlesex County's fires accounted for 18% of the 31,302 Massachusetts fires reported in 2015.

All 55, or 100%, of the fire departments in Middlesex County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Outside & Other Fires Up
The total number of reported fire incidents increased by 761 from the 4,861 reported in 2014. Reported structure fires decreased by 95 from 3,116 in the previous year. Motor vehicle fires decreased by three from the 410 reported during 2014. Reported outside and other fires increased by 859 from 1,335 the year before.

MIDDLESEX COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4,864	3,243	512	1,109	114	33	20	61
2012	5,184	3,202	411	1,571	136	35	14	87
2013	5,054	3,000	429	1,625	109	33	11	65
2014	4,861	3,116	410	1,335	72	28	9	35
2015	5,622	3,021	407	2,194	66	20	9	37

Fire and Fire Death Rates
Middlesex County had 3.7 fires per 1,000 population. That figure ranks Middlesex County tied for eleventh in the state and below the state rate of 4.8 fires per 1,000 population. Middlesex County also had 0.05 fire deaths per 10,000 population ranking it tied for ninth among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

5 Fatal Fires Killed 7 Middlesex County Residents
In 2015, five fatal fires killed seven people in Middlesex County.

- On February 16, 2015, at 2:03 a.m., the Waltham Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire originated in the second floor bedroom. The victims were a 75-year old woman, and her 49-year old son. The woman was asleep at the time of the fire but it is believed that her son was

trying to escape when he was overcome. One (1) firefighter was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from the blaze were estimated to be $95,000.

- On May 5 2015, at 4:00 a.m., the Arlington Fire Department was called to a fatal smoking fire in a 60-unit apartment building. The fire was started by an abandoned cigarette in the mulch that was adjacent to the building. The victim was a 47-year old man who was found in his apartment. One (1) firefighter was injured at this fire. Battery powered smoke alarms were present and operated. There were no sprinklers. Damages from this fire were estimated to be $6.7 million.

- On May 13, 2015, at 3:26 p.m., the Dracut Fire Department responded to a fatal arson fire in a shed. The victim, a 58-year old man was found on the front lawn with partial thickness burns to over 80% of his body surface area. No one else was injured at this fire. It is believed that the victim set the shed on fire in an attempt at self-immolation. The estimated dollar loss was $6,000.

- On June 23, 2015, at 5:16 a.m., the Chelmsford Fire Department was called to a fatal outside fire in a backyard. The victim, a 17-year old man, was found with life-threatening burns across his body in a suicide attempt. He was transported to a hospital in Boston where he succumbed to his injuries.

- On September 27, 2015, at 12:19 a.m., the Lowell Fire Department was called to a fatal motor vehicle crash with ensuing fire. The car crashed into a utility pole and ignited. Downed power lines delayed both attempted rescues and extinguishing the fire. Neither the driver nor his passengers were able to escape the car. The victims, a 20-year old man and a 21-year old woman died at the scene. Damages were estimated to be $5,500.

Largest Loss Fire in 2015

In 2015, Middlesex County fire departments reported six fires with a reported dollar loss of $1 million or greater. The combined dollar loss of these six fires totaled $18.6 million, or 39%, of the county's total dollar loss. The largest loss fire in Middlesex County was the fatal fire in Arlington on May 5, 2015 (see above). The next largest loss fire was in Cambridge on May 30, 2015.

- On May 30, 2015, at 1:54 p.m., the Cambridge Fire Department was called to a smoking fire at a high school that was under construction. The fire started on the roof. No one was injured at this fire. There were no detectors present. The building did have sprinklers but the fire was in an area not protected by them. Damages from this fire were estimated to be $6.5 million.

STRUCTURE FIRES

Reported Structure Fires Decrease

The 3,021 structure fires caused four civilian deaths, 38 civilian injuries, 56 fire service injuries and an estimated dollar loss of $41.4 million. These incidents represented 54% of Middlesex County's reported fires in 2015. The average estimated dollar loss per structure fire was $13,719. The total number of reported structure fires decreased by 95, or 3%, from the 3,116 reported in 2014.

Arson Caused of 1% of Structure Fires

The 20 structure arsons caused one civilian death, three civilian injuries, two fire service injuries and an estimated dollar loss of $509,363. Arson was indicated as the cause of 1% of the structure fires and 1% of Middlesex County's structure fire dollar loss. The 20 structure arsons accounted for 30% of the Middlesex County arson fires reported in 2015. The total number of reported structure arsons decreased by eight, or 29%, from 28 in 2014.

70% of Structure Arsons Occurred in Residences

Seventy percent (70%) of Middlesex County's 20 structure arsons occurred in residential occupancies. Mercantile and business facilities, educational facilities and storage facilities each accounted for 10% of the structure arsons in Middlesex County in 2015.

BUILDING FIRES

There were 3,007 building fires of different types in Middlesex County in 2015. These 3,007 building fires accounted for 99.5% of all structure fires in Middlesex County.

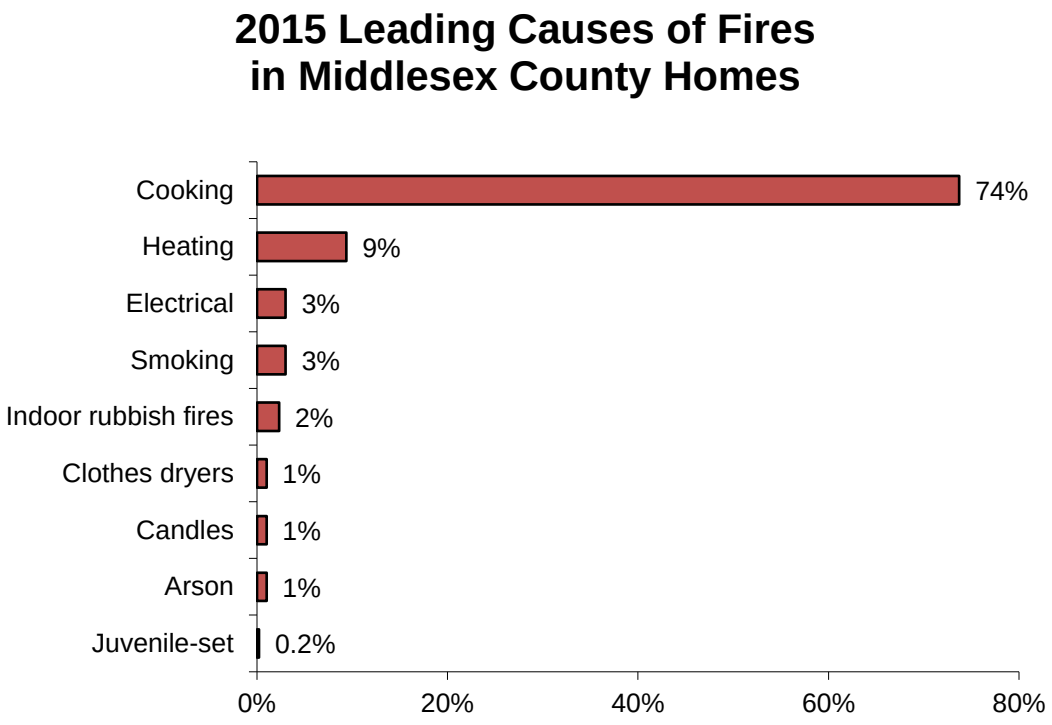
83% of Middlesex Building Fires Occurred in People's Homes

Two thousand five hundred and seven (2,507), or 87%, of Middlesex County's 3,007 building fires occurred in residential occupancies. One hundred and thirty-one (131) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 108 fires. Hospitals, prisons, and other institutional buildings experienced 97 fires. Fifty (50) building fires took place in educational facilities. Forty-two (42) building fires in Middlesex County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Thirty-five (35) fires took place in storage properties. Eighteen (18) fires in Middlesex County in 2015 took place in industrial, utility, defense, agricultural or mining facilities. Thirteen (13) fires occurred in manufacturing and processing facilities. The *Property Use* field was coded as 'Other' or was not reported for six fires.

RESIDENTIAL FIRES

Residential Building Fires Are Down
There were 2,507 reported residential building fires in Middlesex County in 2015. These 2,507 fires are a decrease of 27, or 1%, from the 2,534 residential building fires reported in 2014.

Unsafe Cooking Causes Almost 3/4 of All Residential Fires
The leading cause of residential building fires in Middlesex County was unattended cooking and other unsafe cooking practices, accounting for 74% of these fires. Heating caused 9% of fires in people's homes. Electrical problems and smoking each caused 3%. Indoor rubbish fires accounted for 2% of these fires. Candles, clothes dryers, and arsons each caused 1%; and juvenile-set fires caused less than 1% of the residential fires in Middlesex County in 2015.



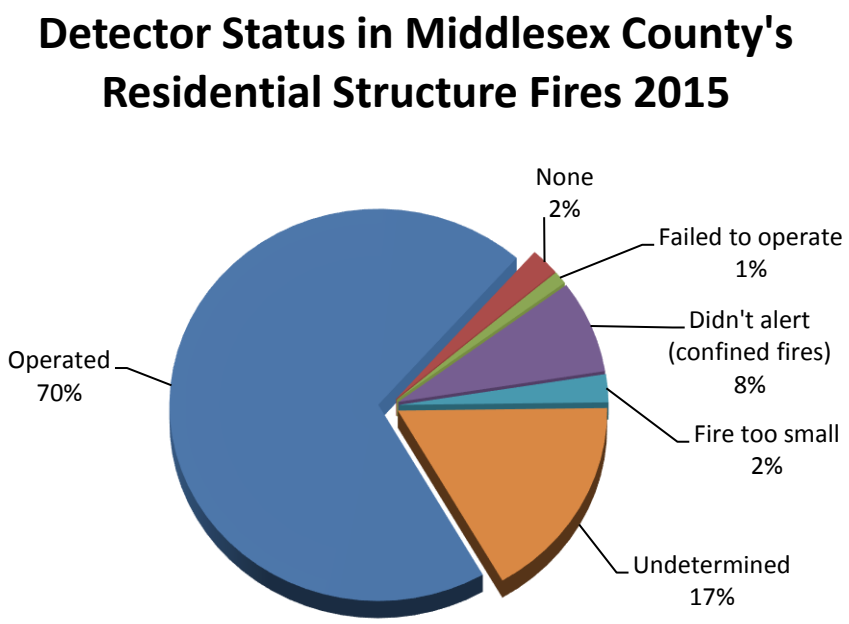
82% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Two thousand forty-eight (2,048), or 86%, of all residential building fires were reported as confined to non-combustible containers in 2015. One thousand seven hundred and ninety-six (1,796) of the reported fires were cooking fires contained to a non-combustible

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

container accounting for 72% of residential building fires. One hundred and thirty-five (135), or 5%, were fires confined to a fuel burner or boiler malfunction. Sixty-two (62), or 2%, of all residential building fires reported in 2015 were fires confined to a chimney. Fifty-three (53), or 2%, of these fires were rubbish fires contained to a non-combustible container. Two (2) commercial compactor fires accounted for less than 1% of the residential fires in Middlesex County in 2015.

Alarms Alerted Occupants in 70% of Fires

Smoke or heat alarms operated and alerted the occupants in 1,751, or 70%, of the residential building fires. In 8% of these fires[2], the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In 2% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 2% of the residential fires. Smoke alarm performance was undetermined in 423 incidents, or 17%, of Middlesex County's residential building fires.



22% of Failed Alarms Had Missing or Dead Batteries

Of the 27 fires where smoke alarms were present but failed to operate, three, or 11%, failed because the batteries were either missing or disconnected. In three, or 11%, of these cases the batteries were dead. Another three, or 11%, failed because of a lack of maintenance. It was undetermined or unclassified in 18 cases, or 67%, why the alarms failed to operate.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

VACANT BUILDINGS

1% of Building Fires Occurred in Vacant Buildings

Middlesex County reported 36 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 3,106 building fires reported to MFIRS in 2015. Nineteen (19) fires occurred in vacant residential properties. Mercantile and business properties had six of these fires. Four (4) vacant building fires occurred in storage facilities and three in institutional facilties. Special properties had two vacant building fires. Public assembly facilities and educational facilities each had one vacant fire incident in Middlesex County in 2015.

Three (3), or 8%, of the vacant building fires in Middlesex County in 2015 were determined to be intentionally set. One occurred in a department store, another in a general retail store and the third occurred in a livestock or poultry storage facility.

JUVENILE-SET FIRES

63 Juvenile-set Fires

There were 63 reported juvenile-set fires in Middlesex County in 2015. The five structure fires and 56 brush fires, one outside mailbox fire, and unclassified fire caused an estimated $4,462 in damages.

ARSONS

66 Total Arsons — 20 Structures, 9 Vehicles & 37 Other Arsons

Sixty-six (66), or 1%, of Middlesex County's 5,622 fires were considered intentionally set, or, for purposes of this analysis, arson. The 20 structure arsons, nine motor vehicle arsons and 37 outside and other arsons caused two civilian deaths, three civilian injuries, two fire service injuries and an estimated dollar loss of $606,391.

Structure Arson Down

The total number of reported arson fires decreased by six from the 72 reported in 2014. Reported structure arsons decreased by eight from the 28 reported in the previous year. Motor vehicle arsons remained the same with nine reported in both 2014 and 2015. Reported outside and other arsons increased by two from 35 the year before.

ALL INCIDENTS

Rescue & EMS Calls Are 57% of All Reported Responses

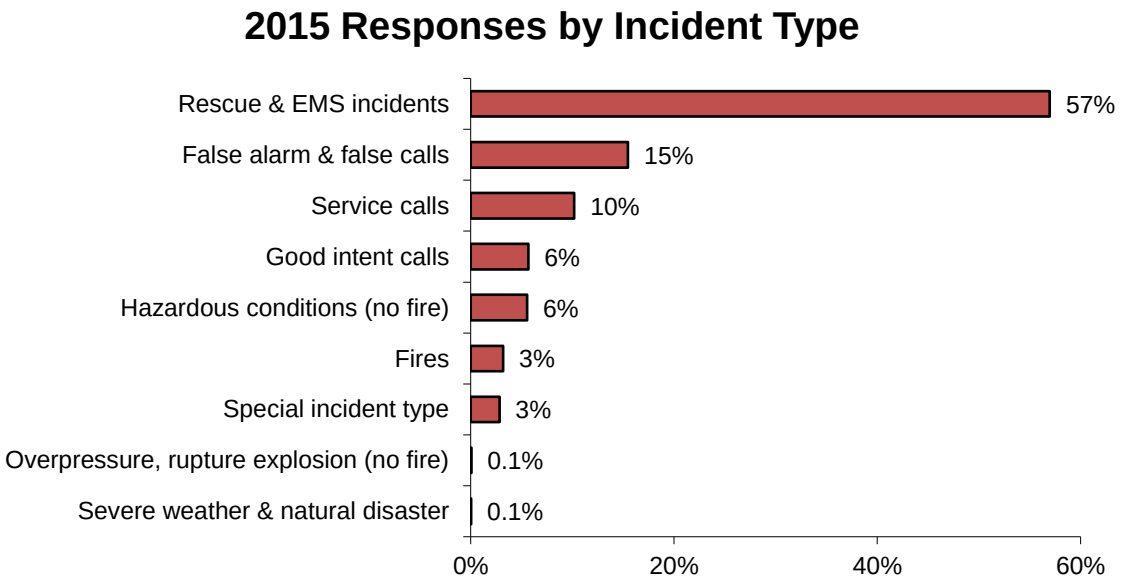
In 2015, fire departments in Middlesex County reported 184,535 responses[3] to MFIRS. This is a 4% increase from the 177,792 responses reported in 2014. Of these 184,535 incidents, 178,637 non-fire calls were voluntarily reported.

---

[3] These figures include incidents in which Middlesex County fire departments gave mutual aid to other fire departments.

Of these 178,637 non-fire calls, 105,106, or 57%, of all the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 28,572, or 15%, were reported false alarm or false calls; 18,781, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 10,490, or 6%, were reported good intent calls; 10,236 , or 6%, were reported hazardous condition calls with no fire; 5,245 , or 3%, were special incident type calls such as citizen complaints; 113, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 94, or 0.1%, were severe weather responses.

Five thousand eight hundred and ninety-eight (5,898), or 3%, of the total responses submitted by Middlesex County fire departments were fires.



Middlesex County Fire Departments Gave Mutual Aid 3,102 Times
In 2015, Middlesex County fire departments reported coming to the aid of other fire departments 3,102 times. Of these 3,102 responses, 1,411, or 45%, were for rescue or EMS calls; 709, or 23%, were for service calls such as cover assignments; 577, or 19%, were for good intent calls; 234, or 8%, were for fires; 94, or 3%, were for false alarms or false calls; 55, or 2%, were for hazardous conditions calls with no fire; and 22, or 1%, were special incident types.

Middlesex County Received Mutual Aid in 1,545 Incidents
In 2015, Middlesex County fire departments reported receiving aid from surrounding departments in 1,545 incidents. Of these 1,545 incidents, 1,082, or 70%, were rescue and emergency medical services calls; 213, or 14%, were for fires; 127, or 8%, were false alarms or false calls; 41, or 3%, were hazardous conditions calls with no fire; 40, or 3%, were good intent calls; 40, or 3%, were service calls; one, or less than 1%, were for a reported overpressure, rupture, explosion or overheat calls with no fire; and one, or less than 1%, was a special incident type.

Middlesex County Population: 1,503,085

3.7 Fires/1,000 Population

Total Fires: 5,622 **$47,414,421**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	3,021	54%	$41,446,289
Vehicle Fires	407	7%	4,687,239
Other Fires	2,194	39%	1,280,893

5 Fatal Fires 1.25 Civilian Deaths/1,000 Fires
7 Civilian Deaths 0.05 Civilian Deaths/10,000 Population
40 Civilian Injuries 63 Fire Service Injuries

Building Fires: 3,007

Residential Building Fires: 2,507

Residential Building Fires Confined to Non-Combustible Containers: 2,048

Unconfined Residential Building Fires: 459

3 Civilian Deaths 34 Civilian Injuries 50 Fire Service Injuries

Occupancy	Fires	%
Apartments	1,187	47%
1- & 2-Family homes	870	35%
Dormitories	175	6%
Rooming houses	66	3%
Hotels or motels	38	1%
Residential board & care	37	1%

Detector Status	Fires	%
Operated	1,751	70%
Didn't operate	27	1%
None	56	2%
Fire too small	58	2%
Didn't alert (confined)	192	8%
Undetermined	423	17%

Area of Origin[4]	%
Kitchen	75%
Heating equipment room	6%
Chimney or flue	2%
Bedroom	2%
Exterior balcony/unencl. porch	1%

Heat Source	%	%Unconfined[5]
Heat from operating eq.	3%	14%
Cigarette	2%	11%
Arcing	2%	10%
Radiated heat/oper. eq.	1%	8%
Hot or smoldering obj. other	1%	5%
Hot ember or ash	1%	4%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%	Factor Contrib. to Ignit.	%	%Unconfined[7]
Food, cooking materials	73%	Abandoned materials	2%	11%
Flammable, combustible liquid	5%	Too close to combustibles	2%	9%
Rubbish, trash, waste	3%	Elec. failure or malfunction	1%	6%
Film, residue (creosote)	2%	Misuse of material or prod.	1%	5%
Structural member, framing	1%	Equipment unattended	1%	4%
Electrical wire, cable insulation	1%	Failure to clean	0.4%	2%

Equipment[8]	%	Cause of Ignition	%	%Unconfined[9]
Cooking equipment	73%	Unintentional	12%	64%
None	10%	Failure of eq. or heat source	2%	11%
Boiler, furnace, cent. heat unit	5%	Intentional	1%	3%
Chimney or flue	2%	Act of nature	0.3%	2%
Stove, heating	1%	Undetermined	1%	8%
Clothes dryer	1%	Cause under investigation	2%	10%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	75%
Didn't alert occupants	9%
Undetermined	16%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	415	327	40	48
February	372	304	47	21
March	368	293	37	38
April	557	264	31	262
May	1,198	289	41	868
June	380	237	28	115
July	391	191	31	169
August	431	180	30	221
September	440	200	33	207
October	398	269	31	98
November	426	288	27	111
December	246	179	31	36

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	853	479	44	330
Monday	861	447	75	339
Tuesday	670	394	70	206
Wednesday	762	381	47	334
Thursday	790	416	62	312
Friday	782	418	52	312
Saturday	904	486	57	361

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	297	184	28	85
04:01 - 08:00	349	158	37	154
08:01 - 12:00	949	542	88	319
12:01 - 16:00	1,532	644	106	782
16:01 - 20:00	1,684	972	104	608
20:01 - 00:00	811	521	44	246

Motor Vehicle Fires

Total: 407
Automobiles: 318 (78%)
8, or (3%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 66 **Dollar loss: $606,391**

0.04 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	20	1%	30%	$509,363
Vehicle Arsons	9	2%	14%	86,300
Other Arsons	37	2%	56%	10,728

0.01 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.02 Other arsons/1,000 population

2 Civilian Deaths 3 Civilian Injuries 2 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%
12:01 - 20:00	6	30%
08:01 - 12:00	5	25%
12:01 - 16:00	5	25%

Vehicle Arsons	#	%
00:01 - 04:00	3	33%
04:01 - 08:00	2	22%
20:01 - 00:00	2	22%

Other Arsons	#	%
12:01 - 16:00	10	27%
20:01 - 00:00	10	27%
08:01 - 12:00	7	19%
16:01 - 20:00	5	14%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	8	40%
Apartment buildings	4	20%

Acton **Population: 21,924**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	26	5	15	0	0	0	0
2012	54	36	5	13	1	0	1	0
2013	58	23	3	32	1	0	0	1
2014	38	18	3	17	3	0	0	3
2015	43	24	1	18	1	0	0	1

Arlington **Population: 42,844**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	93	38	15	40	5	0	2	3
2012	122	59	6	57	10	1	0	9
2013	89	43	7	39	7	0	2	5
2014	62	32	7	23	3	1	0	2
2015	104	46	13	45	1	0	0	4

Ashby **Population: 3,074**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	8	7	1	0	0	0	0	0
2012	3	3	0	0	0	0	0	0
2013	7	5	0	2	0	0	0	0
2014	3	3	0	0	0	0	0	0
2015	Non-Reporting Community							

Ashland **Population: 16,593**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	10	7	3	0	0	0	0	0
2012	5	1	4	0	0	0	0	0
2013	6	4	0	2	1	1	0	0
2014	1	1	0	0	0	0	0	0
2015	3	3	0	0	0	0	0	0

Ayer **Population: 7,427**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	28	15	7	6	1	0	1	0
2012	34	15	1	18	0	0	0	0
2013	25	16	6	3	1	0	0	1
2014	14	8	0	6	1	0	0	1
2015	33	14	2	17	0	0	0	0

Bedford **Population: 13,320**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	22	14	2	6	0	0	0	0
2012	33	18	4	11	2	0	0	2
2013	34	15	2	17	2	0	0	2
2014	23	12	3	8	2	0	0	2
2015	22	10	3	9	0	0	0	0

Belmont **Population: 24,729**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	101	81	2	18	4	0	0	4
2012	100	71	6	23	5	0	0	5
2013	109	85	2	22	3	1	0	2
2014	97	74	5	18	2	0	0	2
2015	81	58	4	19	1	0	0	1

Billerica **Population: 40,243**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	90	39	17	34	4	1	0	3
2012	128	43	16	69	7	0	1	6
2013	141	55	14	72	5	1	0	4
2014	103	47	17	39	5	4	1	0
2015	164	40	19	105	0	0	0	0

Boxborough **Population: 4,996**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	25	8	6	11	0	0	0	0
2012	28	1	8	19	0	0	0	0
2013	16	2	4	10	0	0	0	0
2014	16	3	2	11	0	0	0	0
2015	17	6	4	7	0	0	0	0

Burlington **Population: 24,498**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	68	24	26	18	5	0	1	4
2012	77	41	16	20	1	0	0	1
2013	95	27	11	57	5	0	1	4
2014	74	33	7	34	0	0	0	0
2015	155	28	10	117	1	1	0	0

Cambridge **Population: 105,162**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	835	746	13	76	0	0	0	0
2012	932	830	19	83	2	2	0	0
2013	932	778	11	143	0	0	0	0
2014	824	741	10	73	4	2	0	2
2015	932	766	7	159	1	1	0	0

Carlisle **Population: 4,852**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	4	0	0	0	0	0	0
2012	4	2	2	0	0	0	0	0
2013	4	3	1	0	0	0	0	0
2014	2	1	1	0	0	0	0	0
2015	1	1	0	0	0	0	0	0

Chelmsford **Population: 33,802**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	35	9	13	13	1	0	1	0
2012	30	13	10	7	1	0	0	1
2013	15	8	4	3	0	0	0	0
2014	24	9	12	3	0	0	0	0
2015	33	17	11	5	2	0	1	1

Concord **Population: 17,668**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	41	20	7	14	3	1	0	2
2012	38	16	5	17	0	0	0	0
2013	43	20	4	19	0	0	0	0
2014	44	17	8	19	2	0	0	2
2015	58	17	5	36	3	2	1	0

Devens **Population: 3,290**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	23	7	5	11	0	0	0	0
2012	11	2	4	5	1	0	0	1
2013	35	4	1	30	0	0	0	0
2014	24	1	2	18	0	0	0	0
2015	49	3	1	45	0	0	0	0

Dracut **Population: 29,457**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	77	42	7	28	9	2	1	6
2012	82	38	7	37	7	1	0	6
2013	77	39	8	30	4	0	1	3
2014	53	24	12	17	3	1	1	1
2015	64	22	16	26	4	1	1	2

Dunstable **Population: 3,179**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	12	4	2	6	0	0	0	0
2012	13	4	2	7	0	0	0	0
2013	8	0	1	7	0	0	0	0
2014	12	7	1	4	0	0	0	0
2015	12	6	0	6	1	0	0	1

Everett **Population: 41,667**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	144	95	9	40	7	3	0	4
2012	142	75	16	51	11	2	3	6
2013	154	81	20	53	12	6	0	6
2014	128	78	10	40	7	3	0	4
2015	132	32	7	93	5	1	0	4

Framingham **Population: 68,318**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	463	378	34	51	1	1	0	0
2012	481	410	21	50	4	3	0	1
2013	471	366	21	84	4	2	1	1
2014	494	401	27	66	2	0	1	1
2015	632	483	28	121	0	0	0	0

Groton **Population: 10,646**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	14	9	2	3	0	0	0	0
2012	10	7	2	1	0	0	0	0
2013	10	9	0	1	0	0	0	0
2014	1	1	0	0	0	0	0	0
2015	20	12	1	7	1	0	0	1

Holliston **Population: 13,547**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3	3	0	0	0	0	0	0
2012	7	7	0	0	0	0	0	0
2013	7	5	1	1	0	0	0	0
2014	5	4	1	0	0	0	0	0
2015	1	1	0	0	0	0	0	0

Hopkinton **Population: 14,925**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	36	14	9	13	0	0	0	0
2012	63	31	11	21	1	0	0	1
2013	65	21	11	33	2	0	0	2
2014	51	24	5	22	2	0	1	1
2015	29	16	4	9	0	0	0	0

Hudson **Population: 19,063**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	48	20	10	18	0	0	0	0
2012	67	26	4	37	0	0	0	0
2013	47	18	5	24	2	0	0	2
2014	30	15	3	12	3	1	1	1
2015	50	24	4	22	2	0	1	1

Lexington **Population: 31,394**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	72	43	13	16	1	0	0	1
2012	31	16	8	7	0	0	0	0
2013	42	24	10	8	0	0	0	0
2014	26	16	8	2	0	0	0	0
2015	40	14	10	16	2	1	0	1

Lincoln **Population: 6,362**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	24	21	0	3	0	0	0	0
2012	41	33	1	7	2	0	0	2
2013	39	32	2	5	2	0	0	2
2014	36	35	1	0	1	1	0	0
2015	75	69	1	5	2	0	0	2

Littleton **Population: 8,924**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	40	24	9	7	0	0	0	0
2012	50	26	7	17	1	1	0	0
2013	50	18	13	19	0	0	0	0
2014	28	12	6	10	0	0	0	0
2015	40	10	6	24	0	0	0	0

Lowell **Population: 106,519**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	546	370	46	130	29	9	13	7
2012	552	371	28	153	20	8	4	8
2013	514	305	44	165	22	13	4	5
2014	478	307	43	128	11	8	2	1
2015	496	314	28	154	10	6	3	1

Malden **Population: 59,450**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	195	139	10	46	14	7	0	7
2012	189	87	15	87	17	3	0	14
2013[10]	97	61	10	26	0	0	0	0
2014	148	94	9	45	0	0	0	0
2015	169	91	8	70	1	1	0	0

[10] Malden only reported the last 6 months of runs for 2013.

Marlborough **Population: 38,499**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	117	53	22	42	5	2	0	3
2012	145	56	14	75	9	5	2	2
2013	141	55	15	71	4	1	0	3
2014	130	56	23	51	1	1	0	0
2015	142	43	21	78	2	0	0	2

Maynard **Population: 10,106**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	11	8	3	0	0	0	0	0
2012	27	11	2	14	0	0	0	0
2013	23	13	2	8	1	1	0	0
2014	19	17	1	1	0	0	0	0
2015	18	9	1	8	2	0	1	1

Medford **Population: 56,173**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	265	168	22	75	4	0	0	4
2012	291	175	16	100	1	0	0	1
2013	276	166	21	89	5	0	0	5
2014	225	125	15	85	0	0	0	0
2015	286	143	20	123	1	1	0	0

Melrose **Population: 26,983**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	28	23	4	1	1	1	0	0
2012	18	13	3	2	0	0	0	0
2013	9	5	2	2	0	0	0	0
2014	26	19	4	3	1	1	0	0
2015	17	9	4	4	0	0	0	0

Natick **Population: 33,006**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	93	57	11	25	2	0	0	2
2012	93	50	5	38	3	0	0	3
2013	106	61	6	39	0	0	0	0
2014	86	31	8	47	0	0	0	0
2015	92	24	8	60	0	0	0	0

Newton **Population: 85,146**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	142	90	17	35	1	0	0	1
2012	145	75	9	61	2	1	1	0
2013	178	80	11	87	1	0	0	1
2014	118	61	14	43	0	0	0	0
2015	152	57	12	83	0	0	0	0

North Reading **Population: 14,892**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	50	25	6	19	1	0	0	1
2012	44	20	2	22	2	1	0	1
2013	30	16	5	9	2	1	0	1
2014	12	11	0	1	0	0	0	0
2015	26	9	2	15	3	1	0	2

Pepperell **Population: 11,497**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	43	27	2	14	2	1	0	1
2012	59	40	3	16	1	0	0	1
2013	58	47	4	7	0	0	0	0
2014	35	15	4	16	0	0	0	0
2015	40	18	6	16	0	0	0	0

Reading **Population: 24,747**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	77	55	7	15	1	0	0	1
2012	53	33	0	20	5	1	0	4
2013	66	42	6	18	1	0	1	3
2014	62	39	7	16	2	0	0	2
2015	63	30	7	26	4	0	0	4

Sherborn **Population: 4,119**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	2	1	15	0	0	0	0
2012	43	8	4	31	3	0	0	3
2013	29	12	1	16	2	0	0	2
2014	15	5	2	8	0	0	0	0
2015	22	8	3	11	1	1	0	0

Shirley **Population: 7,211**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	11	11	0	0	0	0	0	0
2012	11	9	2	0	0	0	0	0
2013	5	4	1	0	0	0	0	0
2014[11]	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	1	0	0	0	0	0	0

Somerville **Population: 75,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	50	33	17	0	2	2	0	0
2012	37	23	13	1	1	0	1	0
2013	29	21	7	1	0	0	0	0
2014	370	275	14	81	2	0	1	1
2015	199	109	8	82	0	0	0	0

[11] In 2014 Shirley did not report any fires but they did report 1 Hazardous conditions with no fire incident.

Stoneham **Population: 21,437**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	75	69	4	2	0	0	0	0
2012	72	57	6	9	0	0	0	0
2013	67	57	8	2	0	0	0	0
2014	67	52	9	6	0	0	0	0
2015	101	40	10	51	0	0	0	0

Stow **Population: 6,590**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	13	2	1	0	0	0	0
2012	20	11	3	6	0	0	0	0
2013	21	8	2	11	1	0	0	1
2014	13	8	0	5	0	0	0	0
2015	22	11	1	10	2	0	0	2

Sudbury **Population: 17,659**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	41	13	4	24	0	0	0	0
2012	44	20	6	18	2	0	1	1
2013	33	14	0	19	2	0	0	2
2014	21	12	3	6	2	1	0	1
2015	33	8	5	20	0	0	0	0

Tewksbury **Population: 28,961**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	90	45	12	33	2	1	0	1
2012	87	38	7	42	4	1	0	2
2013	110	46	12	52	2	0	0	2
2014	84	30	13	41	2	0	0	2
2015	86	34	11	41	2	1	0	1

Townsend **Population: 8,926**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	15	10	2	3	0	0	0	0
2012	26	16	1	9	1	0	0	1
2013	10	4	4	2	0	0	0	0
2014	7	4	1	2	0	0	0	0
2015	26	7	2	17	3	0	0	3

Tyngsborough **Population: 11,292**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	8	4	6	0	0	0	0
2012	35	8	6	21	0	0	0	0
2013	30	7	4	17	0	0	0	0
2014	35	6	5	24	0	0	0	0
2015	26	2	9	15	0	0	0	0

Wakefield **Population: 24,932**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	53	43	8	2	2	2	0	0
2012	37	31	3	3	1	1	0	0
2013	47	37	9	1	0	0	0	0
2014	46	38	7	1	0	0	0	0
2015	51	43	7	1	0	0	0	0

Waltham **Population: 60,632**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	141	68	19	54	3	2	0	1
2012	170	65	15	90	1	1	0	0
2013	170	59	26	85	4	3	1	0
2014	167	73	16	78	3	1	1	1
2015	226	88	23	115	4	2	0	2

Watertown **Population: 31,915**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	69	35	7	27	1	0	0	1
2012	72	29	5	38	2	1	0	1
2013	77	32	9	36	0	0	0	0
2014	63	16	5	42	2	0	0	2
2015	76	24	9	43	1	0	1	0

Wayland **Population: 12,994**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	25	15	6	4	0	0	0	0
2012	32	12	1	19	0	0	0	0
2013	35	13	3	19	1	1	0	0
2014	20	8	3	9	0	0	0	0
2015	30	9	2	19	0	0	0	0

Westford **Population: 21,951**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	53	21	6	26	2	0	1	1
2012	54	14	8	32	1	0	0	1
2013	54	15	8	31	2	1	0	1
2014	29	5	3	21	0	0	0	0
2015	64	19	5	40	0	0	0	0

Weston **Population: 11,261**

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
2011	44	21	10	13	1	0	0	1
2012	38	13	10	15	1	0	0	1
2013	49	19	7	23	0	0	0	0
2014	38	20	11	7	1	1	0	0
2015	36	7	9	20	0	0	0	0

Wilmington **Population: 22,325**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	97	56	16	25	0	0	0	0
2012	96	40	12	44	1	1	0	0
2013	88	40	17	31	0	0	0	0
2014	67	35	12	20	1	0	0	1
2015	100	47	12	41	0	0	0	0

Winchester **Population: 21,374**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	35	23	2	10	1	0	0	1
2012	47	25	5	17	3	1	0	2
2013	52	17	3	32	5	1	0	4
2014	39	22	1	16	2	1	0	1
2015	44	22	6	16	1	1	0	0

Woburn **Population: 38,120**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	76	41	23	12	0	0	0	0
2012	60	28	22	10	0	0	0	0
2013	70	42	23	5	0	0	0	0
2014	230	114	26	90	2	1	0	1
2015	228	90	16	122	1	0	0	1

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17002	Acton	4,956	43	1	1,533	152	494	132	286	1	2,314
17010	Arlington	5,140	110	2	3,271	372	462	182	737	1	3
17012	Ashby**	0	0	0	0	0	0	0	0	0	0
17014	Ashland	3	3	0	0	0	0	0	0	0	0
17019	Ayer	873	46	1	126	68	290	154	185	0	3
17023	Bedford	2,701	28	2	1,361	133	211	104	399	0	463
17026	Belmont	2,779	82		1,511	135	323	226	495	1	6
17031	Billerica	4,141	165	10	2,638	277	399	85	542	7	18
17037	Boxborough	421	22		129	29	72	29	134	0	6
17048	Burlington	4,624	158	1	2,796	143	604	195	724	3	0
17049	Cambridge	13,390	933	16	5,863	836	750	2,137	2,848	2	5
17051	Carlisle	1	1	0	0	0	0	0	0	0	0
17056	Chelmsford	41	33	2	0	6	0	0	0	0	0
17067	Concord	2,690	60	4	1,485	168	216	156	586	4	11
17919	Devens	703	60	0	194	29	261	30	127	0	2
17079	Dracut	3,521	77	1	2,294	139	372	83	551	0	4
17081	Dunstable	270	23	0	118	21	46	14	43	4	1
17093	Everett	5,516	134	4	3,579	187	288	491	832	0	1
17100	Framingham	11,099	641	1	7,283	287	907	645	1,325	5	5
17115	Groton	476	30	5	105	79	40	34	182	1	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17136	Holliston	1	1	0	0	0	0	0	0	0	0
17139	Hopkinton	917	36	4	440	97	113	61	159	1	6
17141	Hudson	3,640	55	7	1,706	233	485	183	472	5	494
17155	Lexington	42	40	0	0	2	0	0	0	0	0
17157	Lincoln	1,111	78	1	563	70	90	32	257	0	20
17158	Littleton	1,719	55	1	1,087	81	165	112	214	2	2
17160	Lowell	15,553	507	6	9,693	752	1,297	723	2,473	6	96
17165	Malden	7,496	169		5,280	167	529	327	1,009	2	13
17170	Marlborough	6,546	145	4	3,968	358	541	402	1,077	14	37
17174	Maynard	1,263	23	0	724	56	145	132	177	1	5
17176	Medford	9,547	303	3	6,316	587	847	355	1,124	1	11
17178	Melrose	22	19	0	0	3	0	0	0	0	0
17198	Natick	5,204	93	1	3,122	325	558	295	785	5	20
17207	Newton	9,437	153	7	4,704	685	1,437	346	2,102	1	2
17213	North Reading	2,272	29	4	1,252	149	385	145	296	4	8
17232	Pepperell	1,253	48	0	835	61	92	63	152	0	2
17246	Reading	224	63	1	3	67	19	14	55	1	1
17269	Sherborn	525	23	0	278	31	63	45	85	0	0
17270	Shirley	1	1	0	0	0	0	0	0	0	0
17274	Somerville	6,793	203	3	3,262	588	1,093	310	1,194	2	138

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17284	Stoneham	3,690	102		2,411	458	250	138	331	0	0
17286	Stow	936	31	2	576	43	88	47	141	0	8
17288	Sudbury	2,186	37	1	1,238	172	150	157	385	2	44
17295	Tewksbury	4,605	87	1	2,763	111	882	241	485	4	31
17299	Townsend	1,267	27	0	806	43	158	133	99	0	1
17301	Tyngsborough	1,328	26	0	574	166	232	79	251	0	0
17305	Wakefield	158	51	0	0	17	0	0	90	0	0
17308	Waltham	8,937	238	4	5,338	539	822	415	1,545	2	34
17314	Watertown	4,892	77	2	3,089	235	530	133	783	2	41
17315	Wayland	3,707	34	1	1,185	292	638	76	175	1	1,305
17330	Westford	2,725	68	3	1,595	105	302	135	504	5	8
17333	Weston	2,397	43	0	1,245	152	270	124	561	0	2
17342	Wilmington	2,793	100	0	1,787	146	179	220	342	1	18
17344	Winchester	2,211	56	0	1,206	255	149	119	423	2	1
17347	Woburn	5,792	228	7	3,774	129	537	231	830	1	55
	Middlesex County	**184,535**	**5,898**	**113**	**105,106**	**10,236**	**18,781**	**10,490**	**28,572**	**94**	**5,245**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.

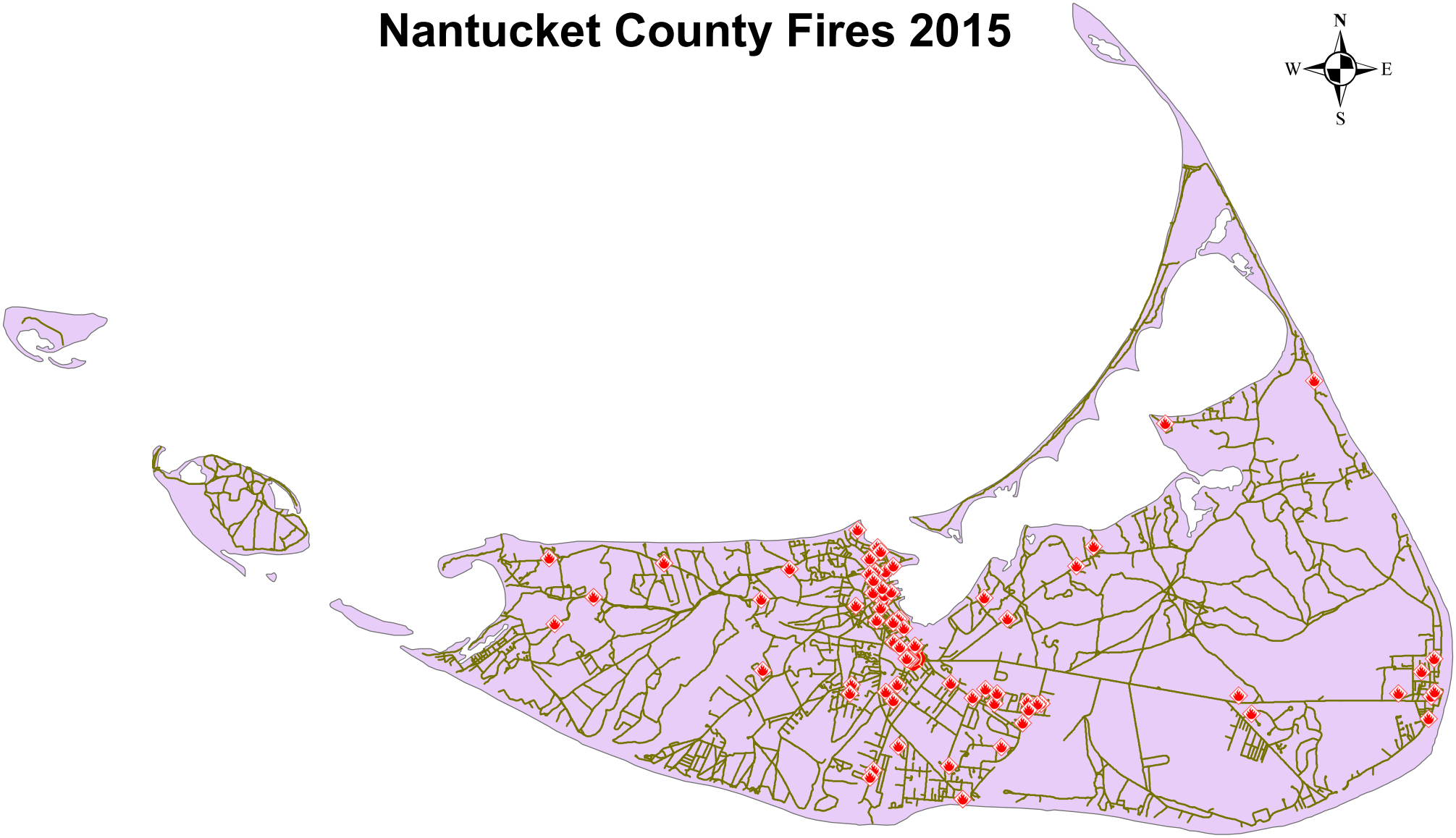
Nantucket County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Nantucket County Fires 2015



2015 Nantucket Fires

- 2015 Nantucket Fires
- Fire Stations

0 0.5 1 2 3 4 Miles

Massachusetts Fire Incident Reporting System 2015

MFIRS
Massachusetts Fire Incident Reporting System

Nantucket County Fires in 2015

80 Total Fires — 51 Structures, 7 Vehicles & 22 Outside and Other Fires
Nantucket County ranked thirteenth out of the fourteen Massachusetts counties in total reported fires. The Nantucket Fire Department reported 80 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 51 structure fires, seven motor vehicle fires, two brush fires, eight outside rubbish fires, two special outside fires, and 10 unclassified fires caused one civilian injury and an estimated dollar loss of $230,500. Nantucket County's fires accounted for 0.3% of the 31,302 Massachusetts fires reported in 2015.

Structure Fires Up
The total number of reported fire incidents decreased by 10 from the 90 fires reported in 2013. Structure fires increased by five from the 46 reported in 2013. Motor vehicle fires decreased by four from 11 reported the previous year. Reported outside and other fires decreased by 11 from the 33 reported in 2013.

Nantucket is an island community with a small year round population. During the summer months, the population increases immensely. Consequently, 63% of Nantucket's fires occurred between the months of May and September.

NANTUCKET FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	48	37	2	9	2	0	0	2
2012	39	31	3	5	1	0	0	1
2013	46	36	0	10	0	0	0	0
2014	90	46	11	33	3	0	1	2
2015	80	51	7	22	0	0	0	0

Fire and Fire Death Rates
Nantucket County had 7.9 fires per 1,000 population. That figure ranks Nantucket County second in the state and above the state rate of 4.8 fires per 1,000 population. Nantucket County also had 0.0 fire deaths per 10,000 population, ranking it tied for last among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

0 Reported Fire Death in Nantucket County
There were no fire deaths in 2015 in Nantucket County

1-Family Home Fire Largest Dollar Loss in 2015
In 2015 Nantucket none of their 80 fires had a dollar loss greater than $1 million. There was one fire with a dollar loss greater than $100,000. This fire caused $156,000 in estimated damages and was responsible for 68% of the total dollar for Nantucket in 2015.

- On June 27, 2015, at 6:24 p.m., the Nantucket Fire Department was called to a fire in a single-family home of undetermined cause. No one was injured at this fire. Alarms were present and operated but there were no occupants at home. The home did not have any sprinklers. Damages to the building were estimated to be $156,000.

STRUCTURE FIRES

Reported Structure Fires Up

There were 51 structure fires in Nantucket in 2015. These incidents represented 64% of Nantucket County's reported fires in 2015. These 51 fires caused $230,500 in estimated losses in 2015. The total number of reported structure fires increased by five from the 46 reported in 2013.

No Reported Structure Arsons

Nantucket County did not report any structure arsons in 2015. The last year that Nantucket reported a structure arson was 2003.

BUILDING FIRES

There were 51 building fires of different types in Nantucket County in 2015. These 51 building fires accounted for all of the structure fires in Nantucket County.

88% of Nantucket Building Fires Occurred in People's Homes

Forty-five (45), or 88%, of Nantucket County's 51 building fires occurred in residential occupancies. Three (3) happened at public assembly properties and another three fires took place in mercantile or business properties.

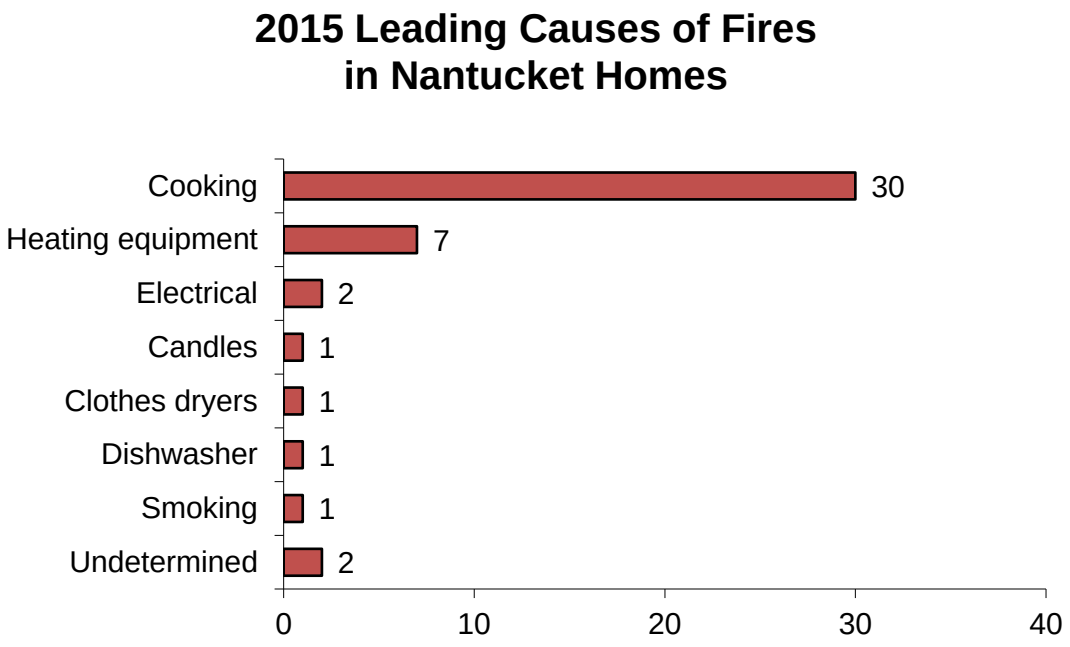
RESIDENTIAL FIRES

Residential Building Fires Up

There were 45 reported residential building fires in Nantucket County in 2015. These 45 fires are an increase of three, or 7%, over the 42 reported in 2013. Thirty-eight (38), or 84%, occurred in one- or two-family homes; four, or 9%, occurred in dormitories; two, or 4%, happened in hotels or motels; and one, or 2%, happened in an apartment.

Cooking Fires Cause 30 of 45 Residential Fires

The leading cause of residential building fires in Nantucket County was unattended cooking and other unsafe cooking practices, accounting for 30, or 67%, of these fires. Heating equipment caused seven, or 16%, of these fires. Electrical problems caused two, or 4%, of these fires. Smoking, candles, a clothes dryer and a dishwasher were each the cause of one, or 2%, of Nantucket's 2015 residential fires. The cause was not determined for two of the residential fires.

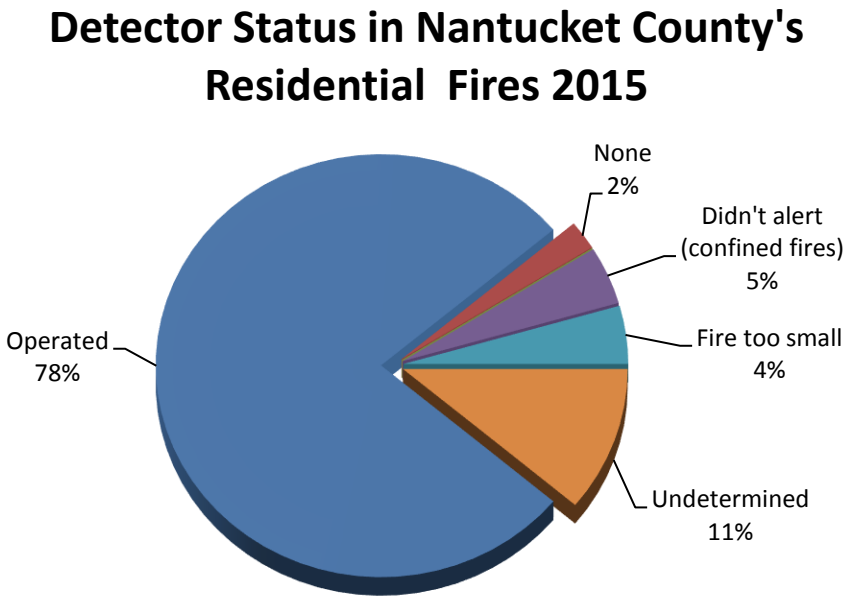


35 Residential Building Fires Are Confined to Non-Combustible Containers[1]
Thirty-five (35), or 78%, of all residential building fires were reported as confined to non-combustible containers in 2015. Twenty-eight (28) of the reported fires were cooking fires contained to a non-combustible container accounting for 62% of the residential fires. Five (5), or 11%, of Nantucket's residential fires were fuel burner or boiler malfunctions; and two, or 4%, were confined to a chimney or flue.

Detectors Alerted Occupants in 78% of Fires
Smoke or heat detectors operated and alerted the occupants in 35, or 78%, of the residential building fires. In two, or 4%, of these fires[2] the detectors did not alert the occupants. There were no reported fires where detector failed to operate. There were no detectors in one, or 2%, of these fires. The fire was too small to activate the detector in two, or 4%, of these fires. Detector performance was undetermined in five, or 11%, of Nantucket's residential fires.

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.



VACANT BUILDING FIRES

2% of Building Fires Occurred in Vacant Buildings
Nantucket County reported one fire that occurred in a building that was vacant, under construction or demolition. This represented 2% of the total 51 building fires reported to MFIRS in 2015. This fire occurred in a vacant grocery or convenience store.

None of the vacant building fires in Nantucket County in 2015 were determined to be intentionally set.

JUVENILE-SET FIRES

No Juvenile-set Fires
Nantucket County did not report any juvenile-set fires in 2015.

ARSONS

0 Total Arsons[3]
None of Nantucket County's 80 fires were considered intentionally set, or, for purposes of this analysis, arson.

[3] In MFIRS v5 a fire is considered an arson if the Cause of Ignition = 1 (Intentional) and the Age of Person (Fire Module) is greater than 17 or if the field is blank; or if the Wildland Module is used, the Wildland Fire Cause = 7 (Incendiary) and the Age of the Person (Wildland Module) is greater than 17 or if the field is left blank.

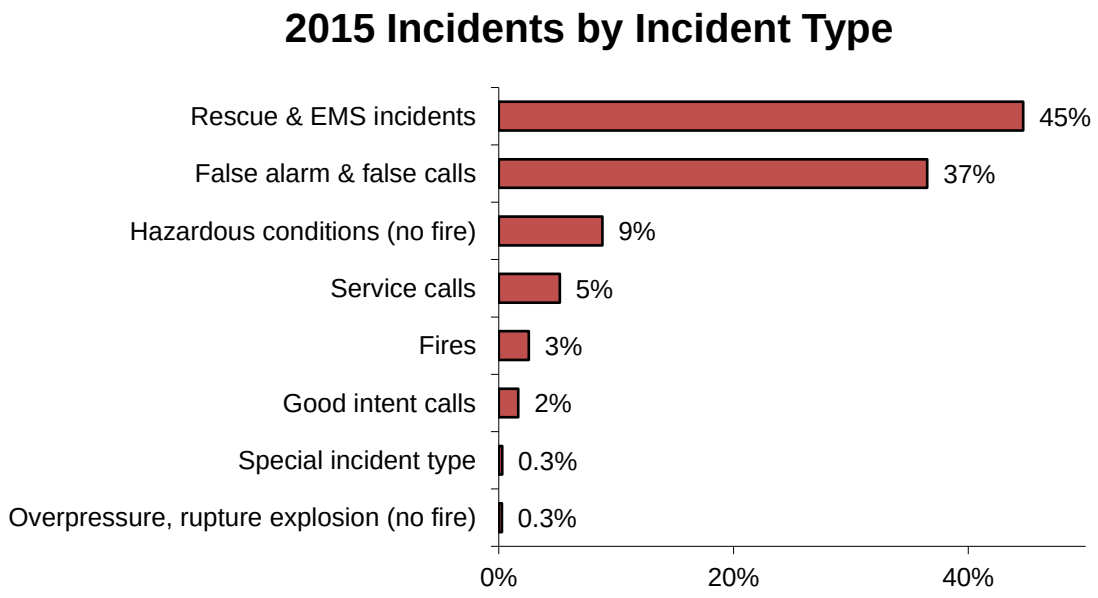
All Arson Down
The total number of arsons decreased by three from the three reported in 2014. Motor vehicle arsons decreased by one from the one reported in 2014. Outside and other arsons decreased by two from two reported the previous year.

ALL INCIDENTS

Rescue & EMS Calls Are 45% of All Reported Incidents
In 2015, Nantucket County reported 3,122 responses to MFIRS. Of these 3,122 incidents, 3,042 non-fire calls were voluntarily reported.

Of these 3,042 non-fire calls, 1,395, or 45%, of the total responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 1,140, or 37%, were reported false alarm or false calls; 276, or 9%, were reported hazardous condition calls with no fire; 162, or 5%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 52, or 2%, were reported good intent calls; nine, or 0.3%, were special incident types; and eight, or 0.3%, were overpressure, rupture or explosion calls with no fire.

Eighty (80), or 3%, of the total responses submitted by the Nantucket Fire Department were fires.



Nantucket Gave Aid in 4 Calls
In 2015, Nantucket reported giving mutual aid four times. All four calls were hazardous condition call with no fire. Nantucket also reported receiving aid for on rescue or EMS call.

Nantucket County Population: 10,172

7.9 Fires/1,000 Population

Total Fires: 80 $230,500

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	51	64%	$230,500
Vehicle Fires	7	9%	0
Other Fires	22	28%	0

0 Fatal Fires
0 Civilian Deaths
1 Civilian Injury

0.00 Civilian Deaths/1,000 Fires
0.0 Civilian Deaths/10,000 Population

Building Fires: 51

Residential Structure Fires: 45

Residential Structure Fires Confined to Non-Combustible Containers: 35

Unconfined Residential Structure Fires: 10

1 Civilian Injury

Occupancy	Fires	%
1- & 2-Family homes	38	84%
Dormitories	4	9%
Hotels, motels	2	4%
Apartments	1	2%

Detector Status	Fires	%
Operated	35	78%
Didn't operate	0	0%
None	1	2%
Fire too small	2	4%
Didn't alert (confined)	2	4%
Undetermined	5	11%

Area of Origin[4]	%
Kitchen	67%
Heating room or area	11%
Chimney or flue	4%

Heat Source	%	%Unconfined[5]
Arcing	4%	20%
Rad, cond. heat from op. eq	4%	20%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%
Cooking materials	67%
Flammable, combustible liquid	11%
Film, residue (creosote)	4%

Factor Contrib. to Ignit.	%	%Unconfined[7]
Equipment unattended	4%	20%
Abandoned materials	2%	10%
Automatic control failure	2%	10%
Too close to combustibles	2%	10%
Unspecified short-circuit arc	2%	10%

Equipment[8]	%
Cooking equipment	64%
None	13%
Boiler, furnace, cent. heat. unit	9%
Chimney or flue	4%
Clothes dryer	2%
Dishwasher	2%
Evaporative cooler	2%

Cause of Ignition	%	%Unconfined[9]
Unintentional	13%	60%
Act of nature	0%	0%
Failure of eq. or heat source	7%	30%
Cause under investigation	2%	10%
Undetermined	0%	0%
Intentional	0%	0%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	89%
Didn't Alert Occupants	6%
Undetermined	6%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined Fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	6	5	0	1
February	6	4	1	1
March	4	3	0	1
April	3	1	0	2
May	5	2	1	2
June	11	7	2	2
July	13	7	2	4
August	10	6	1	3
September	11	9	0	2
October	4	3	0	1
November	4	2	0	2
December	3	2	0	1

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	8	5	0	3
Monday	9	5	1	3
Tuesday	12	9	0	3
Wednesday	16	7	3	6
Thursday	10	9	1	0
Friday	3	2	0	1
Saturday	22	14	2	6

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	3	3	0	0
04:01 - 08:00	2	1	0	1
08:01 - 12:00	19	13	2	4
12:01 - 16:00	22	15	1	6
16:01 - 20:00	18	14	0	4
20:01 - 00:00	16	5	4	7

Motor Vehicle Fires

Total: 7
Automobiles: 7 (100%)
0, or (0%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 0 **Dollar loss: $0**

0.0 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	0	0%	0%	$0
Vehicle Arsons	0	0%	0%	0
Other Arsons	0	0%	0%	0

0.00 Structure arsons/1,000 population
0.00 Vehicle arsons/1,000 population
0.00 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%

Other Arsons	#	%

Responses Reported to MFIRS by Month

Incident Type	# of Incidents	January	February	March	April	May	June	July	August	September	October	November	December
Fires	80	6	6	4	3	5	11	13	10	11	4	4	3
Overpressure, rupture explosion (no fire)	8	1	0	0	0	3	2	0	0	1	0	0	1
Rescue & EMS incidents	1,395	138	93	65	84	102	135	212	166	119	101	83	97
Hazardous conditions (no fire)	276	22	21	13	23	13	15	33	53	41	19	13	10
Service calls	162	14	13	8	8	14	11	16	19	11	17	14	17
Good intent calls	52	4	8	7	1	3	4	5	3	5	4	2	6
False alarm & false calls	1,140	145	81	48	82	85	117	147	113	98	84	90	50
Severe weather & natural disaster	0	0	0	0	0	0	0	0	0	0	0	0	0
Special incident type	9	3	0	2	0	0	0	0	0	1	1	0	2
Total	**3,122**	**333**	**222**	**147**	**201**	**225**	**295**	**426**	**364**	**287**	**230**	**206**	**186**

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that want to send all of their responses to do so.

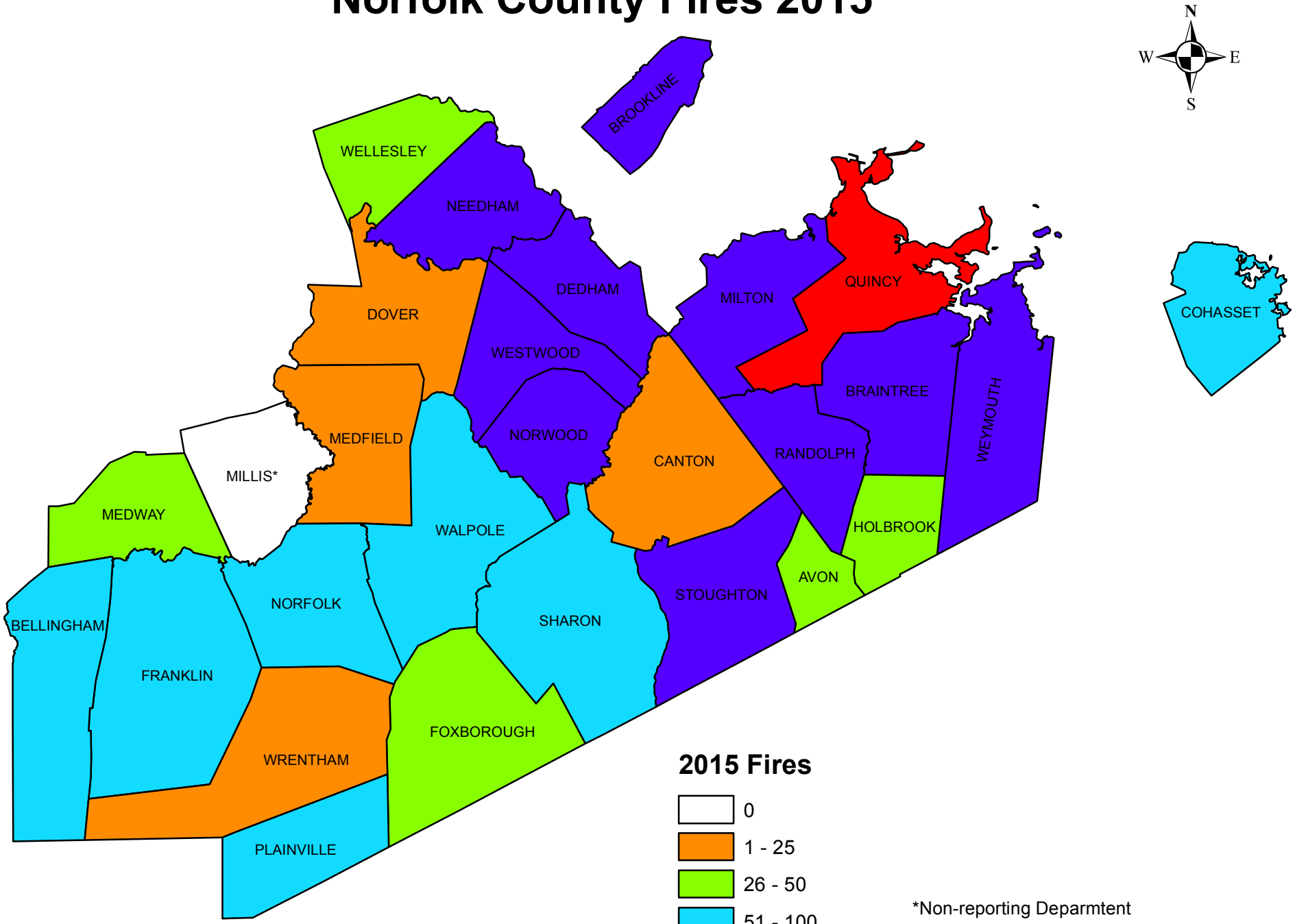
Norfolk County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Norfolk County Fires 2015



MFIRS
Massachusetts Fire Incident Reporting System

Norfolk County Fires in 2015

3,213 Total Fires — 1,819 Structures, 222 Vehicles & 1,172 Other Fires
Norfolk County ranked fourth out of the fourteen Massachusetts counties in total reported fires. Norfolk County fire departments reported 3,213 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 1,819 structure fires, 222 motor vehicle fires, 741 brush, tree or lawn fires, 198 outside rubbish fires, 133 special outside fires, 17 cultivated vegetation or crop fires, and 83 other fires caused 10 civilian deaths, 18 civilian injuries, 122 fire service injuries and an estimated dollar loss of $42.7 million. Norfolk County's fires accounted for 10% of the 31,302 Massachusetts fires reported in 2015.

Twenty-seven (27) of the 28 fire departments in Norfolk County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015. This represents 96.4% of all Norfolk County fire departments.

Outside Fires Up
The total number of reported fire incidents increased by 60 from the 3,153 reported in 2014. Reported structure fires decreased by one from the 1,820 reported during the previous year. Motor vehicle fires decreased by 27 from the 249 reported the year before. Reported outside and other fires increased 88 from the 1,084 reported a year earlier.

NORFOLK COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3,068	1,999	289	780	65	7	3	55
2012	3,296	1,901	226	1,169	96	10	10	76
2013	2,886	1,800	240	846	59	6	4	49
2014	3,153	1,820	249	1,084	79	11	5	63
2015	3,213	1,819	222	1,172	59	8	5	46

Fire and Fire Death Rates
Norfolk County had 4.8 fires per 1,000 population. That figure ranks Norfolk County fourth in the state and tied with the state rate of 4.4 fires per 1,000 population. Norfolk County also had 0.15 fire deaths per 10,000 population ranking it fourth among Massachusetts counties and above the state rate of 0.09 fire deaths per 10,000 population.

6 Norfolk Fires Kill 10 People
In 2015, six fires killed 10 people in Norfolk County.

- On January 4, 2015, at 12:34 a.m., the Quincy Fire Department was dispatched to a fire in a 4-unit apartment building of undetermined cause. The fire began in a second floor kitchen. The victim, a 56-year old woman, was overcome while she tried to escape. Eight (8) firefighters were injured at this fire. Smoke alarms were present and operated. The building was not sprinklered. Damages from this fire were estimated to be $650,000.

- On June 28, 2015, at 5:44 p.m., the Plainville Fire Department responded to a fatal fire at a single-family home caused by a small plane crashing into the home. All three victims, the 56-year old male pilot, his 52-year old wife and their 18-year old daughter, were occupants of the plane. No one else was injured at this fire. Alarms were present and operated. The home did not have any sprinklers. Damages from this fire were estimated to be $800,000.

- On August 15, 2015, at 3:33 a.m., the Dedham Fire Department was called to a fatal electrical fire in a single-family home. The fire was caused by arcing in a bedroom. The victim, a 52-year old woman was sleeping at the time of the fire. Two (2) civilians and one firefighter were also injured at this fire. Alarms and sprinklers were not present in the home. Damages were estimated to be $85,000.

- On October 10, 2015, at 6:49 a.m., the Franklin Fire Department responded to a fatal fire at a single-family home that was part of an over 55 townhouse community. A mechanical failure caused a propane leak. An undetermined heat source ignited the propane causing the explosion. The victims, a 66-year old man and his 66-year old wife were sleeping at the time of the explosion and were trapped in the debris after the explosion. No one else was injured at this fire. It was undetermined if there were alarms in the home. The building had sprinklers but it was undetermined if they operated. Damages from this fire were not estimated.

- On October 30, 2015, at 11:34 p.m., the Franklin Fire Department was called to a fatal motor vehicle crash with ensuing fire. The driver of the car, and only occupant, a 17-year old female, was trapped inside the car and could not escape or be rescued. Damages were not estimated.

- On December 8, 2015, at 1:05 a.m., the Milton Fire Department responded to a fatal fire in a tunnel under Blue Hills Parkway. The tunnel was being used as a homeless encampment and the victim, a 51-year old man was sleeping on a mattress too close to a cooking fire. His clothing and mattress ignited. Firefighters discovered his body after extinguishing the fire.

Foxborough Has Norfolk County's Largest Loss Fire in 2015

There were four fires in Norfolk County that caused over $1 million in estimated damages. These four fires accounted for $21.2 million in estimated damages and half of the total dollar loss for the county.

- The Foxborough Fire Department was dispatched to a fire of undetermined cause at a distribution warehouse at 7:30 a.m. on February 15, 2015. The fire started on the first floor. Alarms were present and alerted the occupants of the building. There were sprinklers and they suppressed the fire. Damages from this fire were estimated to be $17 million.

STRUCTURE FIRES

Reported Structure Fires Up

The 1,819 structure fires caused nine civilian deaths, 16 civilian injuries, 75 fire service injuries and an estimated dollar loss of $40.2 million. These incidents represented 57% of Norfolk County's reported fires in 2015. The average estimated dollar loss per structure fire was $22,097. The total number of reported structure fires decreased by one, or less than 1%, from the 1,820 reported in 2014.

Arson Caused Less Than 1% of Structure Fires

The eight structure arsons caused an estimated dollar loss of $169,220. Arson was indicated as the cause of less than 1% of the structure fires and less than 1% of Norfolk County's structure fire dollar loss. The eight structure arsons accounted for 14% of the Norfolk County arson fires reported in 2015. The total number of reported structure arsons decreased by three, or 27%, from six in 2014.

7 of 8 Structure Arsons Occur in Residential Properties

Seven, or 88%, of Norfolk County's 11 structure arsons occurred in residential occupancies. One (1) fire, or 12%, happened each at an educational facility.

BUILDING FIRES

There were 1,813 building fires of different types in Norfolk County in 2015. These 1,813 building fires accounted for 99.7% of all structure fires in Norfolk County.

84% of Norfolk Building Fires Occurred in People's Homes

One thousand five hundred and twenty-three (1,523), or 84%, of Norfolk County's 1,813 building fires occurred in residential occupancies. Eighty-four (84) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 76 fires. Hospitals, prisons, and other institutional buildings experienced 55 fires. Twenty-seven (27) building fires took place in educational properties. Twenty-three (23) fires took place in storage properties. Fourteen (14) building fires in Norfolk County occurred in special properties such as outbuildings, bus stop shelters and telephone booths. Seven (7) fires occurred in an industrial buildings. Four (4) fires took place in manufacturing and processing facilities in Norfolk County in 2015.

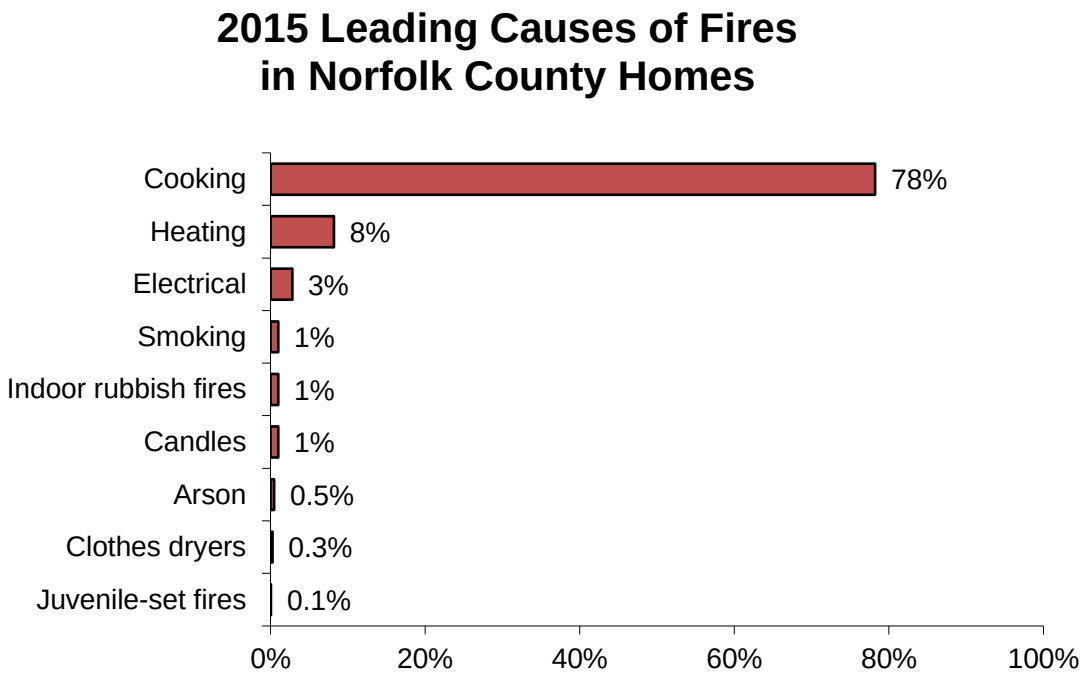
RESIDENTIAL FIRES

Apartments Accounted for Almost 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 48% of the residential building fires in Norfolk County; 39% occurred in 1- or 2-family homes; 5% happened in rooming houses; 2% occurred in dormitories; 1% occurred in residential board and care facilities; and 1% happened in hotels or motels. Seventy (70), or 5%, of the residential building fires in Norfolk County occurred in unclassified residential buildings.

Residential Building Fires Decreased
There were 1,523 reported residential building fires in Norfolk County in 2015. These 1,523 fires are a decrease of 42, or 3%, from the 1,565 residential building fires reported in 2014.

Cooking Caused 78% of Residential Fires
The leading cause of residential building fires in Norfolk County was unattended cooking and other unsafe cooking practices, accounting for 78% of the fires. Heating caused 8% of fires in people's homes. Electrical problems caused 3%. Smoking, indoor rubbish fires and candles each caused 1% of these fires. Arson, clothes dryers and juvenile-set fires each caused less than 1% of the residential building fires in Norfolk County in 2015.

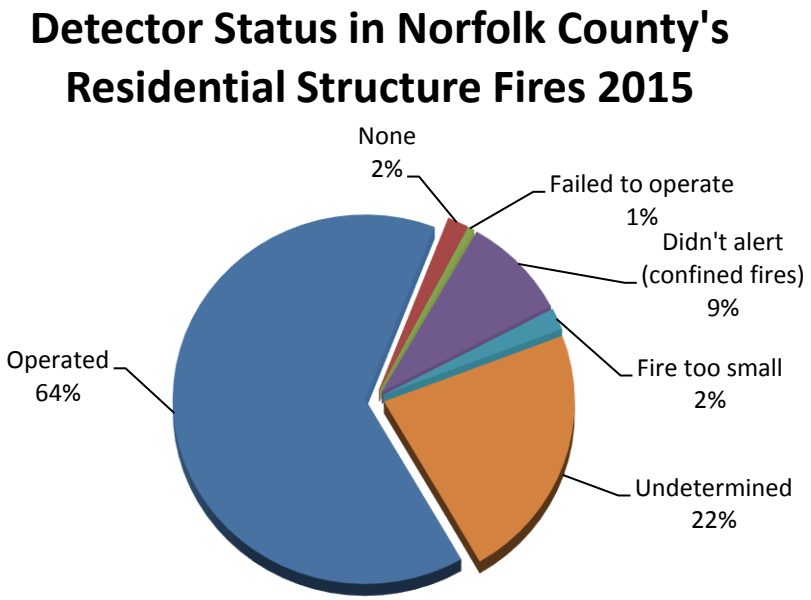


85% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
One thousand two hundred and ninety-seven (1,297), or 85%, of all residential building fires were reported as confined to non-combustible containers in 2015. One thousand one hundred and sixty-eight (1,168) of the reported fires were cooking fires contained to a non-combustible container, accounting for 77% of residential building fires. Sixty-five (65), or 5%, were fires confined to a fuel burner or boiler malfunction. Fifty-two (52), or 4%, of all residential building fires reported in 2015 were fires confined to a chimney.

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

Twelve (12), or 1% of Norfolk County's residential fires in 2015 were contained rubbish fires.

Detectors Alerted Occupants in 64% of Fires
Smoke or heat detectors operated and alerted the occupants in 978, or 64%, of the residential building fires. In 9% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 1% of these incidents. In 2% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 2% of the residential fires. Smoke detector performance was undetermined in 342 incidents, or 22%, of Norfolk County's residential building fires.



2 Detectors Failed from Missing Batteries
Of the nine fires where smoke detectors were present but failed to operate, two, or 22%, failed because of missing or disconnected batteries. It was undetermined or unclassified in seven cases, or 78%, why the detectors failed to operate.

VACANT BUILDINGS

1% of Building Fires Occurred in Vacant Buildings
Norfolk County reported 21 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 1,813 building fires reported to MFIRS in 2015. Twelve (12) fires occurred in vacant residential properties. Four (4) fires occurred at vacant public assembly facilities and four more at storage properties.

[2] These represent confined fires where it was reported that the detector did not alert the occupants.

None of the vacant building fires in Norfolk County in 2015 were determined to be intentionally set.

JUVENILE-SET FIRES

16 Juvenile-set Fires
There were 16 reported juvenile-set fires in Norfolk County in 2015. The two structure fires, 13 brush fires, and one unclassified fire caused $1,250 in estimated damages.

ARSONS

59 Total Arsons - 8 Structures, 5 Vehicles & 46 Other Arsons
Fifty-nine (59), or 2%, of Norfolk County's 3,213 fires were intentionally set, or, for purposes of this analysis, arson. The eight structure arsons, five motor vehicle arsons and 46 outside and other arsons caused an estimated loss of $184,224.

All Arsons Down
The total number of reported arson fires decreased by 20 from the 79 reported in 2014. Reported structure arsons decreased by three from the 11 reported the previous year. Motor vehicle arsons remained the same with five reported in both 2014 and 2015. Reported outside and other arsons decreased by 17 from 63 the year before.

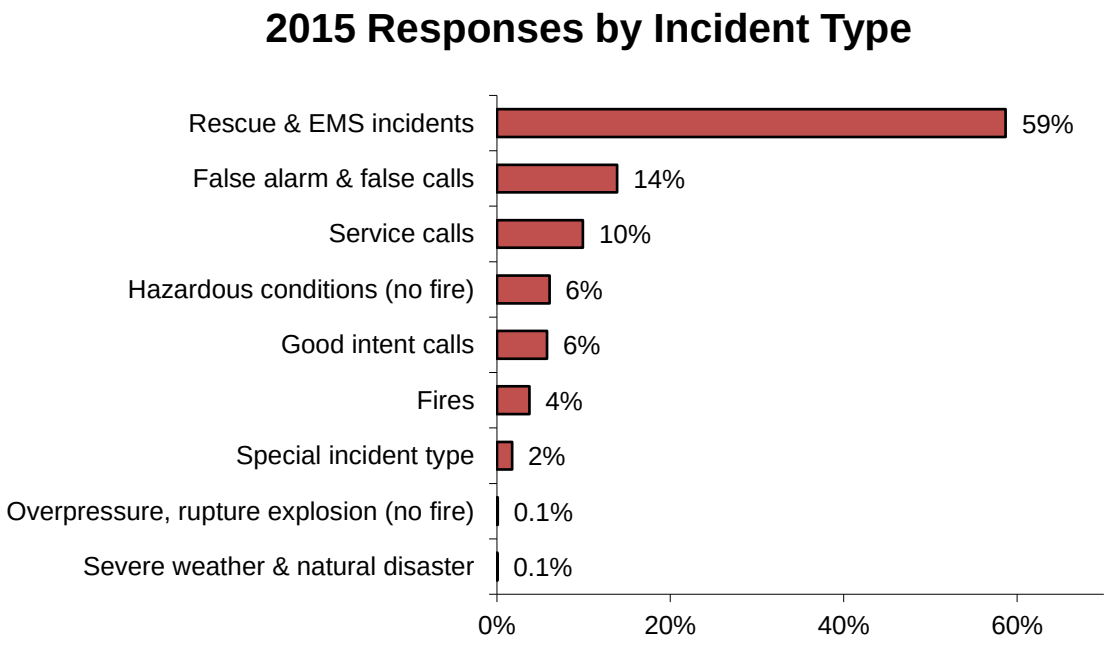
ALL INCIDENTS

Rescue & EMS Calls Are 59% of All Reported Incidents
In 2015, fire departments in Norfolk County reported 91,037 responses[3] to MFIRS. Of these 91,037 incidents, 87,628 non-fire calls were voluntarily reported.

Of these 87,628 non-fire incidents, 53,422, or 59%, of all the incidents reported in 2015 were reported rescue and emergency medical services (EMS) calls; 12,635, or 14%, were reported false alarm or false calls; 9,032, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,515, or 6%, were reported hazardous condition calls with no fire; 5,272, or 6%, were reported good intent calls; 1,598, 2%, were special incident type calls such as citizen complaints; 100, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 54, or 0.1%, were severe weather responses.

Three thousand four hundred and nine (3,409), or 4%, of the total responses submitted by Norfolk County fire departments were fires.

[3] These figures include responses in which Norfolk County fire departments gave mutual aid to other fire departments.



Norfolk County Fire Departments Gave Mutual Aid 3,258 Times
In 2015, Norfolk County fire departments reported coming to the aid of other fire departments 3,258 times. Of these 3,258 responses, 1,850, or 57%, were for rescue or EMS calls; 506, or 16%, were for good intent calls; 477, or 15%, were for service calls such as cover assignments; 185, or 6%, were for fires; 148, or 5%, were for false alarms or false calls; 46, or 1%, were special incident types; 45, or 1%, were for hazardous conditions calls with no fire; and one, or 0.1%, was a severe weather or natural disaster call.

Norfolk County Received Mutual Aid in 2,019 Incidents
In 2015, Norfolk County fire departments reported receiving aid from surrounding departments in 2,019 incidents. Of these 2,019 incidents, 1,605, or 79%, were rescue and emergency medical services calls; 158, or 8%, were for fires; 146, or 7%, were false alarms or false calls; 54, or 3%, were good intent calls; 28, or 1%, were hazardous conditions calls with no fire; 26 or 1%, were service calls; and two, or 0.1%, were overpressure, rupture explosions with no after fire.

Norfolk County Population: 670,850

4.8 Fires/1,000 Population

Total Fires:	**3,213**		**$42,659,659**
Situation	**Fires**	**% of Fires**	**Dollar Loss**
Structure Fires	1,819	57%	$40,195,063
Vehicle Fires	222	7%	2,304,204
Other Fires	1,172	36%	160,392

6 Fatal Fires	3.11 Civilian Deaths/1,000 Fires
10 Civilian Deaths	0.15 Civilian Deaths/10,000 Population
18 Civilian Injuries	122 Fire Service Injuries

Building Fires: 1,813

Residential Structure Fires: 1,523

Residential Structure Fires Confined to Non-Combustible Containers: 1,297

Unconfined Residential Structure Fires: 226

8 Civilian Deaths 15 Civilian Injuries 54 Fire Service Injuries

Occupancy	**Fires**	**%**
Apartments	727	48%
1- & 2-Family homes	592	39%
Rooming houses	78	5%
Dormitories	32	2%
Residential board & care	15	1%
Hotels or motels	9	1%

Detector Status	**Fires**	**%**
Operated	978	64%
Didn't operate	9	1%
None	27	2%
Fire too small	29	2%
Didn’t alert (confined)	138	9%
Undetermined	342	22%

Area of Origin[4]	**%**
Kitchen	80%
Heating equipment room	5%
Chimney or flue	3%
Bedroom	1%
Bathroom	1%
Ext. balcony, unenclosed porch	1%
Living room	1%

Heat Source	**%**	**%Unconfined**[5]
Heat from operating equip.	2%	13%
Arcing	2%	12%
Radiated heat from oper. eq.	1%	9%
Hot or smoldering object	1%	8%
Hot ember or ash	1%	7%
Cigarette	1%	4%

[4] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[5] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[6]	%
Food, cooking materials	77%
Flammable/comb. liquid	4%
Film, residue (creosote)	3%
Structural member, framing	2%
Rubbish, trash, waste	1%

Factor Contrib. to Ignit.	%	%Unconfined[7]
Too close to combustibles	1%	8%
Electrical failure, malfunc.	1%	7%
Abandoned materials	1%	7%
Misuse of mater. or prod.	1%	4%
Unspec. short-circuit arc	0.5%	3%

Equipment[8]	%
Kitchen & cooking equipment	78%
None	10%
Boiler, furnace, cent. heat. unit	4%
Chimney, flue	3%
Outlet, receptacle	0.4%

Cause of Ignition	%	%Unconfined[9]
Unintentional	9%	62%
Failure of eq. or heat source	2%	14%
Intentional	0.2%	1%
Act of nature	0.4%	3%
Cause under investigation	2%	11%
Undetermined	1%	7%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted occupants	67%
Didn't alert occupants	11%
Undetermined	22%

[6] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[7] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[8] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[9] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	246	196	17	33
February	186	154	22	10
March	228	183	26	19
April	317	156	26	135
May	547	129	22	396
June	222	113	16	93
July	241	123	21	97
August	219	103	13	103
September	329	163	19	147
October	226	154	15	57
November	224	160	14	50
December	228	185	11	32

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	476	261	28	187
Monday	462	255	25	182
Tuesday	390	237	42	111
Wednesday	508	290	34	184
Thursday	436	257	28	151
Friday	483	258	37	186
Saturday	458	261	28	169

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	140	76	17	47
04:01 - 08:00	211	106	22	83
08:01 - 12:00	555	349	43	163
12:01 - 16:00	892	414	52	426
16:01 - 20:00	1,010	609	58	343
20:01 - 00:00	405	265	30	110

Motor Vehicle Fires
Total: 222
Automobiles: 184 (83%)
3, or (2%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 59 **Dollar loss: $184,224**

0.09 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	8	0.4%	14%	$169,220
Vehicle Arsons	5	2%	8%	15,000
Other Arsons	46	4%	78%	4

0.01 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.07 Other arsons/1,000 population

No Injuries

Peak Times of Day for

Structure Arsons	#	%
16:01 - 20:00	4	80%
12:01 - 16:00	3	60%
20:01 - 00:00	1	20%

Vehicle Arsons	#	%
08:01 - 12:00	2	40%
04:01 - 08:00	1	20%
16:01 - 20:00	1	20%
20:01 - 00:00	1	20%

Other Arsons	#	%
16:01 - 20:00	19	41%
12:01 - 16:00	15	33%
20:01 - 00:00	5	11%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	5	63%
Apartments	2	25%
High/junior high/middle school	1	13%

Avon **Population: 4,356**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	34	12	9	13	1	1	0	0
2012	43	14	9	20	3	1	0	2
2013	27	2	8	17	0	0	0	0
2014	3	2	1	0	1	0	1	0
2015	42	4	13	25	2	0	1	1

Bellingham **Population: 16,332**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	56	29	10	17	1	0	0	1
2012	60	26	4	30	0	0	0	0
2013	63	28	15	20	0	0	0	0
2014	50	25	4	21	0	0	0	0
2015	58	25	8	25	2	2	0	0

Braintree **Population: 35,744**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	92	28	19	45	2	0	0	2
2012	102	24	20	58	1	0	1	0
2013	90	30	14	46	0	0	0	0
2014	128	27	21	80	5	2	1	2
2015	115	31	15	69	6	0	2	4

Brookline **Population: 58,732**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	427	409	5	13	0	0	0	0
2012	432	379	10	43	1	0	0	1
2013	478	401	15	62	1	1	0	0
2014	442	377	8	57	3	1	0	2
2015	391	332	11	48	3	2	0	1

Canton **Population: 21,561**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	24	7	13	4	1	0	1	0
2012	36	16	13	7	1	1	0	0
2013	16	3	8	5	0	0	0	0
2014	35	14	13	8	0	0	0	0
2015	25	13	6	6	0	0	0	0

Cohasset **Population: 7,542**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	36	24	2	10	3	0	0	3
2012	31	8	0	23	9	0	0	9
2013	50	31	2	17	6	0	0	6
2014	73	43	6	24	4	0	0	4
2015	92	74	1	17	3	0	0	3

Dedham **Population: 24,729**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	155	104	16	35	6	0	0	6
2012	196	107	8	81	11	0	2	9
2013	170	101	9	60	6	0	0	6
2014	206	123	16	64	12	1	1	10
2015	210	120	11	79	6	0	0	6

Dover **Population: 5,589**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	35	25	2	8	0	0	0	0
2012	29	14	1	14	0	0	0	0
2013	15	7	0	8	0	0	0	0
2014	1	1	0	0	0	0	0	0
2015	8	6	0	2	1	1	0	0

Foxborough **Population: 16,865**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	37	15	6	16	0	0	0	0
2012	64	20	13	31	2	0	0	2
2013	21	10	2	9	0	0	0	0
2014	43	11	10	22	1	0	0	1
2015	36	8	2	26	0	0	0	0

Franklin **Population: 31,635**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	58	20	7	31	2	2	0	0
2012	88	27	8	53	4	0	0	4
2013	71	23	10	38	5	1	0	4
2014	46	16	7	23	1	0	0	1
2015	76	24	12	40	0	0	0	0

Holbrook **Population: 10,791**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	30	5	11	1	1	0	0
2012	47	23	4	20	4	0	2	2
2013	37	26	0	11	0	0	0	0
2014	67	32	6	29	1	1	0	0
2015	44	18	2	24	2	1	0	1

Medfield **Population: 12,024**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	22	15	1	6	2	0	0	2
2012	27	13	3	11	5	0	1	4
2013	19	12	1	6	3	0	0	3
2014	20	6	0	14	8	0	0	8
2015	22	8	1	13	2	0	0	2

Medway **Population: 12,752**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	10	2	5	3	0	0	0	0
2012	59	41	2	16	0	0	0	0
2013[10]	Fire Department in Good Standing							
2014	4	2	0	2	0	0	0	0
2015	39	32	1	6	0	0	0	0

Millis **Population: 7,891**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	1	1	0	0	0	0	0	0
2013	2	1	1	0	0	0	0	0
2014	Non-Reporting Community							
2015	Non-Reporting Community							

Milton **Population: 27,003**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	166	94	22	50	15	0	0	15
2012	165	87	9	69	20	0	0	20
2013	142	103	12	27	9	0	0	9
2014	169	121	17	31	8	0	1	7
2015	193	126	17	50	4	0	0	4

Needham **Population: 28,886**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	49	24	8	17	0	0	0	0
2012	67	26	6	35	0	0	0	0
2013	57	17	10	30	1	0	1	0
2014	39	10	6	23	0	0	0	0
2015	101	34	5	62	2	0	0	2

[10] Medway only reported 95 total incidents in 2013. None of these were fires, and almost all were in December.

Norfolk **Population: 11,227**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	82	69	4	9	3	1	0	2
2012	62	43	3	16	0	0	0	0
2013	53	43	0	10	1	0	0	1
2014	51	38	7	6	0	0	0	0
2015	59	41	3	15	1	1	0	0

Norwood **Population: 28,602**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	69	33	8	22	0	0	0	0
2012	103	37	6	60	0	0	0	0
2013	118	44	11	63	0	0	0	0
2014	98	33	3	62	2	1	1	0
2015	159	44	9	106	0	0	0	0

Plainville **Population: 8,264**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	32	13	7	12	0	0	0	0
2012	32	10	8	14	3	0	0	3
2013	21	9	5	7	0	0	0	0
2014	40	15	4	21	2	0	0	2
2015	53	30	2	21	1	0	0	1

Quincy **Population: 92,271**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	564	326	33	205	8	0	1	7
2012	606	326	24	256	16	2	1	13
2013	554	357	33	164	9	1	2	6
2014	699	389	27	283	17	0	0	17
2015	658	402	35	221	13	0	0	13

Randolph **Population: 32,112**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	196	136	23	37	4	1	0	3
2012	228	154	15	59	2	2	0	0
2013	177	136	16	25	2	0	1	1
2014	220	146	18	56	2	0	0	2
2015	138	103	8	27	0	0	0	0

Sharon **Population: 17,612**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	39	21	9	9	1	0	0	1
2012	44	21	6	17	1	0	0	1
2013	31	14	7	10	1	0	0	1
2014	47	27	4	16	2	1	0	1
2015	64	35	5	24	1	1	0	0

Stoughton **Population: 26,962**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	272	230	14	28	3	1	0	2
2012	195	160	6	29	2	1	1	0
2013	94	59	12	23	5	1	0	4
2014	86	45	19	22	2	0	0	2
2015	111	74	6	31	2	0	0	2

Walpole **Population: 24,070**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	86	59	10	17	3	0	0	3
2012	93	54	1	38	0	0	0	0
2013	80	51	6	23	0	0	0	0
2014	83	43	9	31	1	0	0	1
2015	90	44	8	38	1	0	0	1

Wellesley **Population: 27,982**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	20	11	11	1	0	0	1
2012	43	22	6	15	1	0	0	1
2013	57	31	8	18	0	0	0	0
2014	50	30	6	14	1	0	0	1
2015	37	14	9	14	0	0	0	0

Westwood **Population: 14,618**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	90	64	8	18	1	0	0	1
2012	73	59	4	10	0	0	0	0
2013	106	77	10	19	0	0	0	0
2014	97	70	9	18	2	1	0	1
2015	138	61	16	61	2	0	0	2

Weymouth **Population: 53,743**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	306	164	23	119	4	0	1	3
2012	338	178	32	128	5	2	2	1
2013	317	174	21	122	8	2	0	6
2014	322	160	20	142	3	3	0	0
2015	243	116	14	113	3	0	2	1

Wrentham **Population: 10,955**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	23	10	7	6	3	0	0	3
2012	31	10	5	16	5	1	0	4
2013	18	10	2	6	2	0	0	2
2014	11	6	1	4	0	0	0	0
2015	21	6	5	10	2	0	0	2

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
21018	Avon	1,436	49	3	938	51	174	113	108	0	0
21025	Bellingham	2,323	60	1	1,579	59	192	207	219	3	3
21040	Braintree	5,454	115	33	2,976	274	786	570	690	1	9
21046	Brookline	6,468	394	7	3,589	436	594	223	1,215	2	8
21050	Canton	28	25	0	0	3	0	0	0	0	0
21065	Cohasset	2,300	100	4	1,000	151	637	142	249	2	15
21073	Dedham	4,326	219	7	2,846	348	209	175	511	3	8
21078	Dover	142	11	0	8	19	21	10	73	0	0
21099	Foxborough	912	41	1	173	123	85	96	386	0	7
21101	Franklin	3,888	87	5	2,730	117	188	201	544	11	5
21133	Holbrook	2,651	50	4	1,523	147	480	237	205	0	5
21175	Medfield	1,229	23	2	639	100	204	60	192	4	5
21177	Medway	1,643	41	5	1,115	131	103	80	162	4	2
21187	Millis**	0	0	0	0	0	0	0	0	0	0
21189	Milton	3,898	197	2	2,038	238	299	99	599	0	426

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
21199	Needham	3,911	101	3	1,993	212	690	210	683	1	18
21208	Norfolk	1,645	96	0	994	227	28	8	292	0	0
21220	Norwood	5,739	168	2	4,093	340	319	196	615	1	5
21238	Plainville	2,874	55	1	1,104	76	290	101	239	7	1,001
21243	Quincy	9,539	661	11	5,704	685	765	462	1,244	1	6
21244	Randolph	3,565	142	3	2,484	186	296	144	306	0	4
21266	Sharon	2,409	79	1	1,296	198	258	261	307	6	3
21285	Stoughton	5,473	127	0	3,268	237	635	468	710	1	27
21307	Walpole	3,111	93	0	1,996	152	236	178	445	2	9
21317	Wellesley	4,249	37	2	1,904	315	438	314	1,234	0	5
21335	Westwood	2,937	172	2	1,700	168	305	95	488	1	6
21336	Weymouth	7,067	243	1	4,559	437	549	517	736	4	21
21350	Wrentham	1,820	23	0	1,173	85	251	105	183	0	0
	Norfolk County	**91,037**	**3,409**	**100**	**53,422**	**5,515**	**9,032**	**5,272**	**12,635**	**54**	**1,598**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

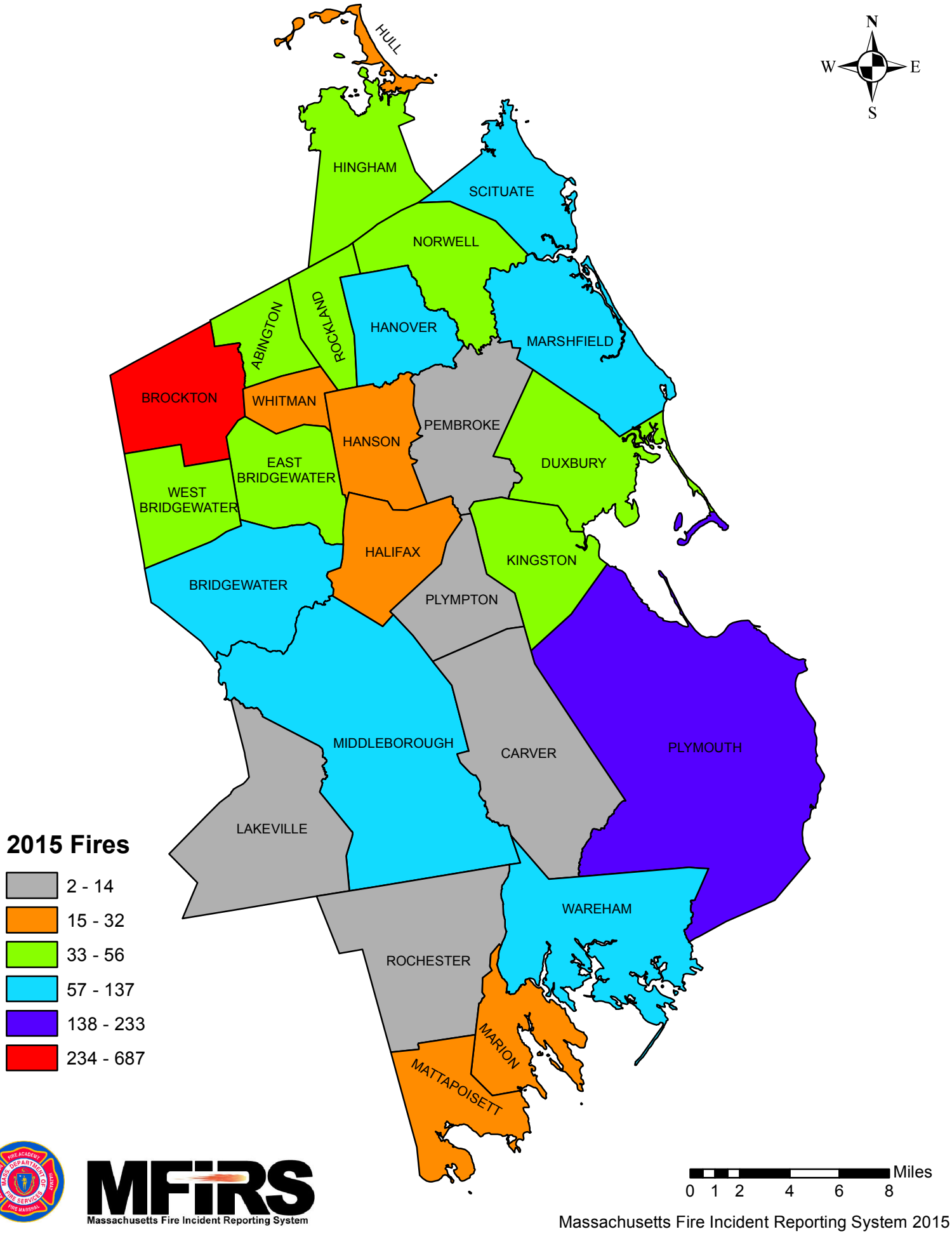
Plymouth County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Plymouth County Fires 2015



Massachusetts Fire Incident Reporting System 2015

Plymouth County Fires in 2015

2,061 Total Fires — 896 Structures, 235 Vehicles & 930 Other Fires
Plymouth County ranked seventh out of the fourteen Massachusetts counties in total reported fires. Plymouth County fire departments reported 2,061 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 896 structure fires, 235 motor vehicle fires, 586 brush, tree or lawn fires, 157 outside rubbish fires, 105 special outside fires, five cultivated vegetation or crop fires and 77 other fires caused four civilian deaths, 41 civilian injuries, 28 fire service injuries and an estimated dollar loss of $18.2 million. Plymouth County's fires accounted for 7% of the 31,302 Massachusetts fires reported in 2015.

All 28 fire departments in Plymouth County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Structure & MV Fires Up
The total number of reported fire incidents increased by 170, or 9%, from the 1,891 reported in 2014. Reported structure fires increased by 82 from 814 the year before. Motor vehicle fires increased by 24 from 211 the previous year. Reported outside and other fires increased by 64 from 866 in 2014.

PLYMOUTH COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1,800	808	271	721	98	19	13	66
2012	2,073	830	213	1,030	134	40	10	84
2013	1,892	824	230	838	73	12	8	53
2014	1,891	814	211	866	72	26	5	41
2015	2,061	896	235	930	38	14	3	21

Fire and Fire Death Rates
Plymouth County had 4.2 fires per 1,000 population. That figure ranks Plymouth County seventh in the state and below the state rate of 4.8 fires per 1,000 population. Plymouth County also had 0.08 fire deaths per 10,000 population ranking it tied for sixth among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

4 Plymouth County Fatal Fires Killed 4 Civilians in 2015
Four (4) people died in four fatal fires in Plymouth County in 2015.

- On March 25, 2015, at 1:57 a.m., the Plymouth Fire Department was called to a fatal smoking fire in a 5-unit apartment building. The 62-year old male victim fell asleep in his bedroom and his cigarette started the fire. One (1) firefighter was also injured at this fire. Alarms were present but they failed to operate because of missing batteries. There were no sprinklers. Damages from this fire were estimated to be $325,000.

- On July 26, 2015, at 9:11 a.m., the Halifax Fire Department was called for an EMS call for an unresponsive woman. The victim, a 57-year old woman, had fallen into her fire pit the night before. The people who witnessed the event put her to bed and went back outside. She succumbed during the night to partial and full thickness burns to most of her body.

- On September 19, 2015, at 2:08 a.m., the Marshfield Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by a cigarette in the living room. The victim, a 65-year old man, was overcome while trying to escape the fire. There was one other civilian injured at this fire. There were no alarms, and the home did not have any sprinklers. Damages from this fire were not estimated.

- On December 20, 2015, at 11:50 a.m., the Brockton Fire Department was called to a fatal fire in a 130-unit apartment building of undetermined cause. The fire started in a third floor bedroom of the victim. The victim, a 65-year old physically disabled man, was in the area of origin when the fire began and was believed to be intimately involved in the fire's ignition. No one else was injured at this fire. Alarms were present and they operated. The building was partially sprinklered but the fire was too small to activate the system. Damages from the blaze were estimated to be $15,000.

Brockton Has Plymouth County's Largest Loss Fire in 2015
In 2015, there were no large loss fires in Plymouth County. Brockton did have the largest loss fire in 2015. This fire accounted for 4% of the total dollar loss for Plymouth County in 2015.

- On October 8, 2015, at 6:48 p.m., the Brockton Fire Department responded to a fire of undetermined cause in a property that had a restaurant and other businesses. Two (2) firefighters were injured at this fire. It was undetermined if alarms were present and the building did not have any sprinklers. Total damages were estimated to be $750,000.

STRUCTURE FIRES

Reported Structure Fires Up
The 896 structure fires caused three civilian deaths, 38 civilian injuries, 25 fire service injuries and an estimated dollar loss of $13.6 million. These incidents represented 43% of Plymouth County's reported fires in 2015. The average estimated dollar loss per structure fire was $15,161. The total number of reported structure fires increased by 82, or 10%, from the 814 reported in 2014.

Structure Arsons Down
The 14 structure arsons caused three fire service injuries and an estimated dollar loss of $682,730. Arson was indicated as the cause of 2% of the structure fires and 5% of Plymouth County's structure fire dollar loss. The 14 structure arsons accounted for 37% of the Plymouth County arson fires reported in 2015. The total number of reported structure arsons decreased by 12, or 46%, from 26 in 2014.

Half of Structure Arsons Occurred in Residences

Fifty percent (50%) of Plymouth County's 14 structure arsons occurred in residential occupancies; 21% happened in storage facilities; 14% happened in educational facilities; and 7% each occurred in public assembly properties and institutional facilities.

BUILDING FIRES

There were 882 building fires of different types in Plymouth County in 2015. These 882 building fires accounted for 98.4% of all structure fires in Plymouth County.

84% of Plymouth Building Fires Occurred in People's Homes

Seven hundred and thirty-eight (738), or 84%, of Plymouth County's 882 building fires occurred in residential occupancies. Mercantile and business properties had 34 fires. Thirty-two (32) fires took place in public assembly properties, including restaurants and churches. Twenty-four (24) building fires took place in educational facilities. Twenty-one (21) fires took place in storage facilities. Hospitals, prisons, and other institutional buildings experienced 18 fires. Ten (10) building fires in Plymouth County occurred in special properties such as outbuildings and sheds. Three (3) fires took place in manufacturing and processing facilities. Two (2) fires occurred in industrial, utility, defense, agricultural or mining facilities in Plymouth County in 2015.

RESIDENTIAL FIRES

Residential Building Fires Up

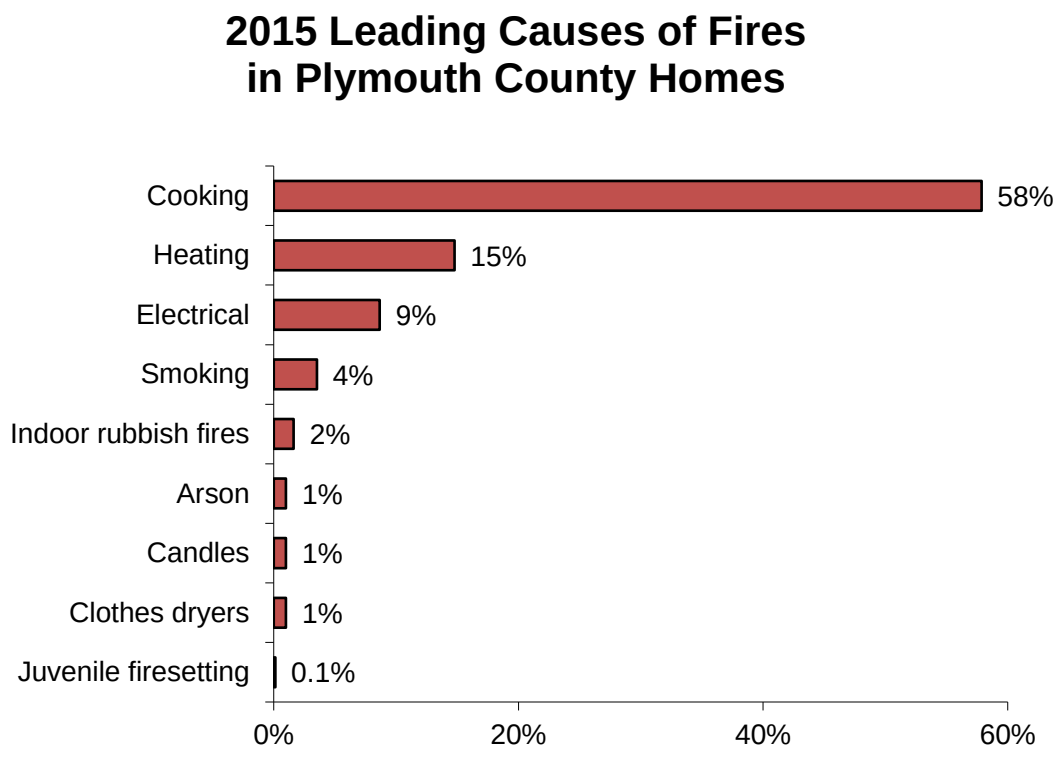
There were 738 reported residential building fires in Plymouth County in 2015. These 738 fires are an increase of 71, or 11%, from the 667 residential building fires reported in 2014.

1- & 2-Family Homes Accounted for 55% of Residential Building Fires

The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 55% of the residential building fires in Plymouth County; 39% occurred in apartments. Rooming houses had 1% of these fires. Residential board and care facilities, and dormitories each had 1% of these fires. Hotels or motels had less than 1% of these fires. Thirteen (13), or 2%, of the residential building fires in Plymouth County occurred in unclassified residential buildings.

Cooking & Heating Leading Causes of Residential Fires

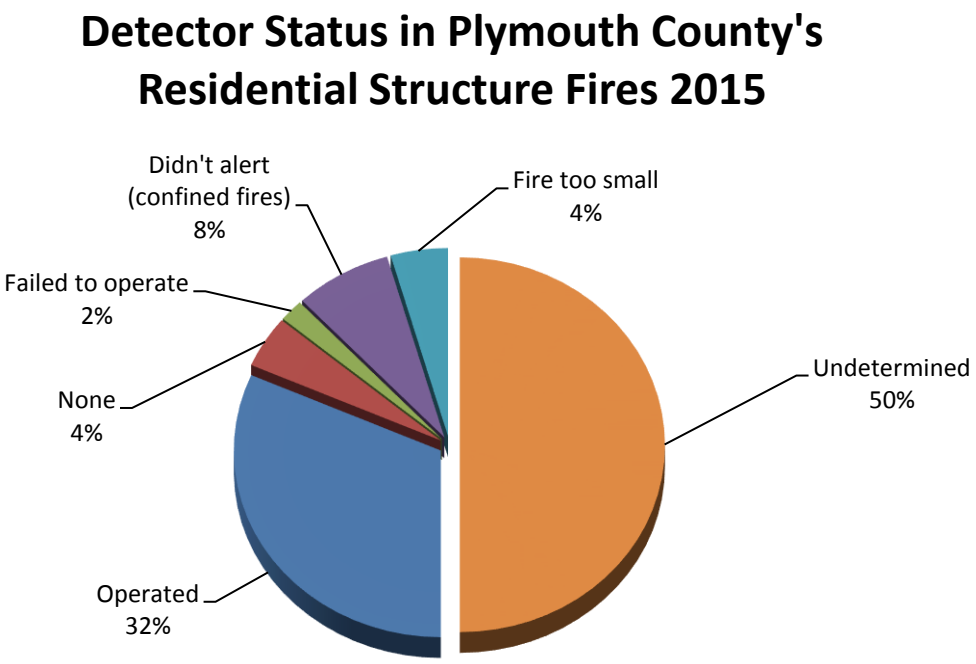
The leading cause of the 738 residential building fires in Plymouth County was unattended cooking and other unsafe cooking practices, accounting for 58% of these fires. Heating problems caused 15% of the fires in people's homes. Electrical problems caused 9% and smoking caused 4% of these fires. Indoor rubbish fires were responsible for 2%. Arson, clothes dryers and candles each caused 1% of these fires. Juvenile-set fires caused less than 1% of residential fires in Plymouth County in 2015.



67% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Four hundred and ninety-seven (497), or 67%, of all residential building fires were reported as confined to non-combustible containers in 2015. Three hundred and eighty-eight (388) of the reported fires were cooking fires contained to a non-combustible container, accounting for 53% of residential building fires. Fifty-one (51), or 7%, of all residential building fires reported in 2015 were fires confined to a chimney. Forty-six (46), or 6%, were fires confined to a fuel burner or boiler malfunction. Eleven (11), or 1%, of these fires were contained rubbish fires; and one, or 0.1%, was an incinerator overload or malfunction.

Detectors Alerted Occupants in Less Than 1/2 of Fires
Smoke or heat detectors operated and alerted the occupants in 233, or 32%, of the residential building fires. In 8% of these fires[2], the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 4% of the residential fires. Smoke detector performance was undetermined in 369 incidents, or 50%, of Plymouth County's residential building fires.

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.
[2] These represent confined fires where it was reported that the detector did not alert the occupants.



4 of Failed Detectors Had Missing or Dead Batteries
Of the 14 fires where smoke detectors were present but failed to operate, three, or 21%, failed because the batteries were either missing or disconnected. One (1), or 8%, failed because of a dead battery. One (1) detector, or 7%, failed from a lack of maintenance. One (1), or 8%, failed because of a power shut off or failure. It was undetermined or unclassified in seven cases, or 50%, why the detectors failed to operate.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings
Plymouth County reported 19 fires that occurred in buildings that were vacant, under construction or demolition[3]. This represented 2% of the total 882 building fires reported to MFIRS in 2015. Twelve (12) fires occurred in vacant residential properties. Three (3) fires occurred in manufacturing or processing facilities. Two (2) vacant building fires occurred in storage facilities. A public assembly property and an educational property each had one of these fires in Plymouth County in 2015.

One (1), or 5%, of the vacant building fires in Plymouth County in 2015 was determined to be intentionally set. This fire happened in an adult education center or college classroom.

[3] In version 4 a vacant building was defined by having a Fixed Property Use code in the subsection of construction, unoccupied properties, between 910 & 919. However in version 5, the Property Use is separate from the Building Status. In v5 a building is considered vacant if the Building Status is coded: 1-Under Construction; 3-Idle, not routinely used; 4-Under major renovation; 5-Vacant, secured; 6-Vacant, unsecured; & 7-Being demolished. The building use is coded separately in the Property Use field.

JUVENILE-SET FIRES

5 Juvenile-set Fires

There were five reported juvenile-set fires in Plymouth County in 2015. The two structure fires and three brush fires caused $217,000 in estimated damages.

ARSONS

38 Total Arsons — 14 Structures, 3 Vehicles & 21 Other Arsons

Thirty-eight (38), or 2%, of Plymouth County's 2,061 fires were considered intentionally set, or, for purposes of this analysis, arson. The 14 structure arsons, three motor vehicle arsons and 21 outside and other arsons caused three fire service injuries and an estimated dollar loss of $691,357.

All Arsons Down

The total number of reported arson fires decreased by 34 from the 72 reported in 2014. Reported structure arsons decreased by 12 from the 26 reported in 2014. Motor vehicle arsons decreased by two from five in 2014. Reported outside and other arsons decreased by 20 from 41 reported the year before.

ALL INCIDENTS

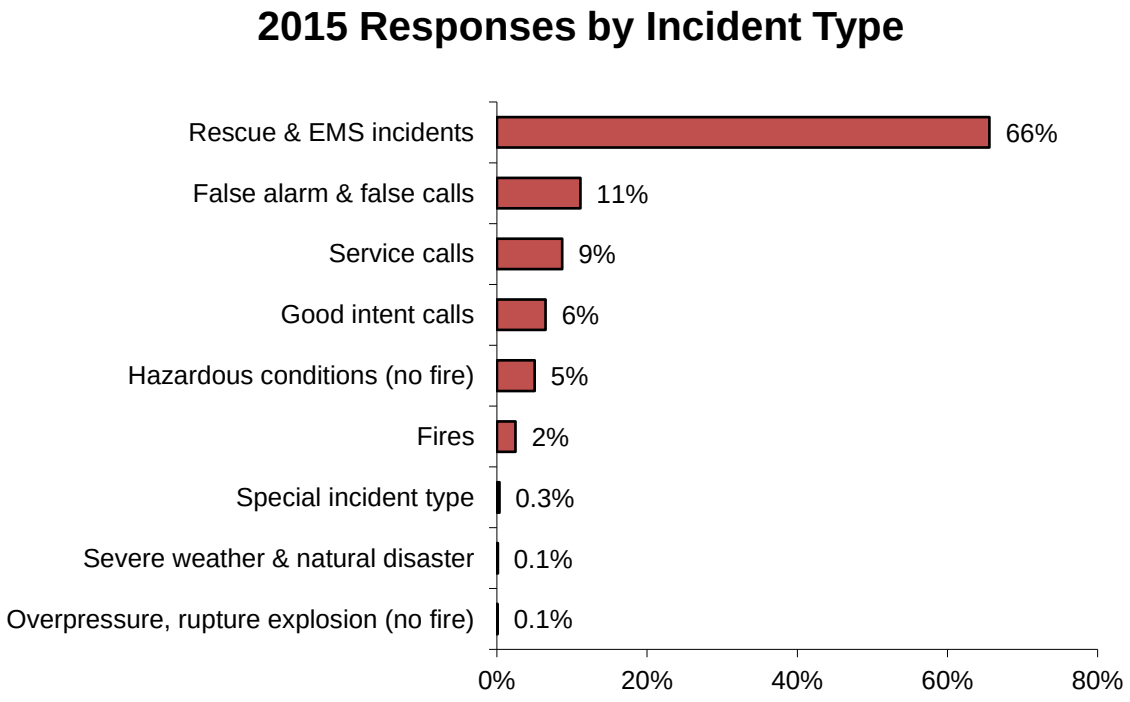
Rescue & EMS Calls Are 66% of All Reported Responses

In 2015, Plymouth County fire departments reported 87,262 responses[4] to MFIRS. Of these 87,262 incidents, 85,086 non-fire calls were voluntarily reported.

Of these 85,086 non-fire calls, 57,249, or 66%, of the total responses reported in 2015, were reported rescue and emergency medical services (EMS) calls; 9,695 or 11%, were reported false alarm or false calls; 7,604, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,665, or 6%, were reported good intent calls; 4,407, or 5%, were reported hazardous condition calls with no fire; 281, or 0.3%, were special incident type calls such as citizen complaints; 95, or 0.1%, were severe weather responses; and 90, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Two thousand one hundred and seventy-six (2,176), or 2%, of the total responses submitted by Plymouth County fire departments were fires.

[4] These figures include responses in which Plymouth County fire departments gave mutual aid to other fire departments.



Plymouth County Fire Departments Gave Mutual Aid 2,836 Times
In 2015, Plymouth County fire departments reported coming to the aid of other fire departments 2,836 times. Of these 2,836 responses, 1,874, or 66%, were for rescue or EMS calls; 481, or 17%, were for good intent calls; 273, or 10%, were for service calls such as cover assignments; 106, or 4%, were for fires; 62, or 2%, were for hazardous conditions calls with no fire; 29, or 1%, were for false alarms or false calls; seven, or 0.3%, were for special incident type calls; three, or 0.1%, were severe weather or natural disaster calls; and one, or 0.04%, was an overpressure, rupture explosion call with no ensuing fire.

Plymouth County Received Mutual Aid in 2,183 Incidents
In 2015, Plymouth County fire departments received aid from surrounding departments in 2,183 incidents. Of these 2,183 incidents, 1,911, or 88%, were rescue and emergency medical services calls; 104, or 5%, were for fires; 52, or 2%, were hazardous conditions calls with no fire; 52, or 2%, were good intent calls; 37, or 2%, were service calls; 25, or 1%, were false alarms or false calls; one, or 0.05%, was an reported overpressure, rupture, explosion or overheat call with no fire; and one, or 0.05%, was a special incident type call.

Plymouth County Population: 494,919

4.2 Fires/1,000 Population

Total Fires: 2,061 $18,159,987

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	896	43%	$13,584,311
Vehicle Fires	235	11%	2,880,679
Other Fires	930	46%	1,694,997

4 Fatal Fires 1.94 Civilian Deaths/1,000 Fires
4 Civilian Deaths 0.08 Civilian Deaths/10,000 Population
41 Civilian Injuries 28 Fire Service Injuries

Building Fires: 882

Residential Building Fires: 738

Residential Building Fires Confined to Non-Combustible Containers: 497

Unconfined Residential Building Fires: 241

3 Civilian Deaths 35 Civilian Injuries 18 Fire Service Injuries

Occupancy	Fires	%
1- & 2-Family homes	407	55%
Apartments	290	39%
Rooming houses	11	1%
Dormitories	8	1%
Residential board & care	7	1%
Hotels or motels	2	0.2%

Detector Status	Fires	%
Operated	233	32%
Didn't operate	14	2%
None	33	4%
Fire too small	33	4%
Didn’t Alert (confined)	56	8%
Undetermined	369	50%

Area of Origin[5]	%
Kitchen	60%
Heating room or area	7%
Chimney or flue	7%
Bedroom	3%
Wall surface, exterior	23%

Heat Source	%	%Unconfined[6]
Arcing	7%	23%
Radiated, cond./heat op. eq.	4%	11%
Heat from operating eq.	4%	11%
Hot ember or ash	2%	7%
Cigarette	2%	6%

[5] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[6] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[7]	%
Food, cooking materials	56%
Film, residue (creosote)	7%
Flammable or combust. liquid	6%
Electrical wire, cable insulation	4%
Structural member, framing	3%

Factor Contrib. to Ignit.	%	%Unconfined[8]
Too close to combustibles	3%	8%
Abandoned materials	2%	7%
Electrical failure, malfunc.	1%	4%
Unspecified short-circuit arc	1%	4%
Mechanical failure, malfunc.	1%	3%

Equipment[9]	%
Cooking equipment	57%
None	19%
Chimney or flue	7%
Boiler, furnace, cent. heat. unit	6%
Electrical wiring, other	1%

Cause of Ignition	%	%Unconfined[10]
Unintentional	20%	61%
Failure of eq. or heat source	4%	14%
Intentional	1%	2%
Act of Nature	1%	2%
Cause under investigation	2%	7%
Undetermined	4%	13%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	26%
Didn't Alert Occupants	11%
Undetermined	63%

[7] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[8] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[9] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[10] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	148	104	29	15
February	132	93	27	12
March	126	89	23	14
April	192	84	13	95
May	418	80	20	318
June	167	68	18	81
July	164	68	19	77
August	178	66	23	89
September	170	52	21	97
October	119	61	15	43
November	133	69	12	52
December	114	62	15	37

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	352	155	33	164
Monday	298	112	34	152
Tuesday	220	112	29	79
Wednesday	291	114	39	138
Thursday	291	151	30	110
Friday	263	114	34	115
Saturday	346	138	36	172

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	84	49	14	21
04:01 - 08:00	143	60	29	54
08:01 - 12:00	377	187	43	147
12:01 - 16:00	605	188	68	349
16:01 - 20:00	584	268	54	262
20:01 - 00:00	268	144	27	97

Motor Vehicle Fires

Total: 235
Automobiles: 195 (83%)
3, or (2%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 38 **Dollar loss: $691,357**

0.08 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	14	2%	37%	$682,730
Vehicle Arsons	3	1%	8%	8,500
Other Arsons	21	2%	55%	127

0.03 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.04 Other arsons/1,000 population

3 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%
16:01 – 20:00	8	43%
20:01 – 00:00	7	29%

Vehicle Arsons	#	%
00:01 – 04:00	1	33%
04:01 – 08:00	1	33%
20:01 – 00:00	1	33%

Other Arsons	#	%
16:01 – 20:00	9	45%
20:01 – 00:00	5	25%
08:01 – 12:00	4	20%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	4	29%
1- and 2-Family homes	3	21%
Outbuilding or shed	2	14%

Abington **Population: 15,985**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	55	26	12	17	3	1	1	1
2012	71	32	9	30	4	1	0	3
2013	58	24	6	28	1	1	0	0
2014	86	18	8	60	0	0	0	0
2015	51	13	4	34	0	0	0	0

Bridgewater **Population: 26,563**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	105	55	14	36	8	5	1	2
2012	104	46	11	47	3	2	0	1
2013	83	35	16	32	2	0	2	0
2014	119	44	20	55	3	3	0	0
2015	119	56	15	48	0	0	0	0

Brockton **Population: 93,810**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	452	224	55	173	46	9	3	34
2012	505	201	41	263	58	17	3	37
2013	503	247	44	212	26	4	1	21
2014	561	300	50	211	23	12	0	11
2015	687	380	59	248	5	4	0	1

Carver **Population: 11,509**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	1	3	0	0	0	0	0
2012	10	8	2	0	0	0	0	0
2013	16	11	5	0	2	1	1	0
2014	7	5	2	0	0	0	0	0
2015	2	1	1	0	0	0	0	0

Duxbury **Population: 15,059**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	18	8	16	0	0	0	0
2012	56	21	9	26	2	0	0	2
2013	54	20	14	20	0	0	0	0
2014	39	16	6	17	0	0	0	0
2015	50	21	7	22	1	0	0	1

East Bridgewater **Population: 13,794**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	43	18	10	15	1	0	1	0
2012	58	23	7	28	0	0	0	0
2013	51	30	1	20	0	0	0	0
2014	53	29	2	22	0	0	0	0
2015	56	24	4	28	1	1	0	0

Halifax **Population: 7,518**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	33	17	4	12	2	1	0	1
2012	40	16	4	20	3	2	0	1
2013	28	17	1	10	2	1	0	1
2014	46	22	2	22	6	2	0	1
2015	24	8	2	14	1	0	0	1

Hanover **Population: 13,879**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	31	17	4	10	1	0	0	1
2012	77	30	4	43	1	0	0	1
2013	64	27	7	30	0	0	0	0
2014	56	23	5	28	3	3	0	0
2015	86	32	9	45	1	1	0	0

Hanson **Population: 10,209**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	9	5	5	0	0	0	0
2012	20	9	1	10	2	0	0	2
2013	30	5	5	20	0	0	0	0
2014	31	9	2	20	4	0	0	4
2015	30	11	2	17	0	0	0	0

Hingham **Population: 22,157**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	21	2	23	3	0	0	3
2012	66	22	6	38	2	0	0	2
2013	74	19	12	43	4	1	1	2
2014	68	27	8	33	1	0	0	1
2015	53	18	5	30	2	0	0	2

Hull **Population: 10,293**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	23	15	0	8	0	0	0	0
2012	24	9	1	14	1	0	0	1
2013	23	12	3	8	1	0	0	1
2014	22	12	2	8	0	0	0	0
2015	24	10	3	11	2	0	0	2

Kingston **Population: 12,629**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	20	9	17	2	0	0	2
2012	65	24	10	31	5	1	2	2
2013	46	16	8	22	1	0	0	1
2014	41	7	7	27	3	1	0	2
2015	38	11	7	20	0	0	0	0

Lakeville **Population: 10,602**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	31	7	3	21	1	0	0	1
2012	51	15	5	31	1	0	0	1
2013	7	4	0	3	0	0	0	0
2014	32	2	5	25	1	0	0	1
2015	14	6	0	8	0	0	0	0

Marion **Population: 4,907**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	17	6	3	8	2	0	0	2
2012	16	4	2	10	1	0	0	1
2013	16	8	0	8	2	0	0	2
2014	10	3	2	5	1	0	0	1
2015	22	9	5	8	0	0	0	0

Marshfield **Population: 25,132**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	117	48	18	51	3	0	1	2
2012	125	55	9	61	9	0	1	8
2013	115	63	13	39	4	0	0	4
2014	69	42	3	24	2	1	0	1
2015	75	36	7	32	2	0	0	2

Mattapoisett **Population: 6,045**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	12	4	2	6	0	0	0	0
2012	21	1	0	20	3	0	0	3
2013	21	5	1	15	3	0	0	3
2014	10	2	1	7	0	0	0	0
2015	28	14	1	13	2	0	0	1

Middleborough **Population: 23,116**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	83	31	16	36	1	0	0	1
2012	116	45	10	61	4	4	0	0
2013	115	37	23	55	3	0	0	3
2014	91	36	17	38	3	1	0	2
2015	84	22	16	46	2	1	0	1

Norwell **Population: 10,506**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	36	15	8	13	3	0	0	3
2012	31	11	6	14	2	1	0	1
2013	47	22	4	21	0	0	0	0
2014	31	16	2	13	3	0	0	3
2015	43	10	10	23	2	0	0	2

Pembroke **Population: 17,837**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	9	6	4	0	0	0	0
2012	17	10	6	1	0	0	0	0
2013	6	1	1	4	0	0	0	0
2014	6	2	2	2	0	0	0	0
2015	9	5	3	1	0	0	0	0

Plymouth **Population: 56,468**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	188	80	28	80	6	2	2	2
2012	208	96	19	93	11	6	1	4
2013	223	98	23	102	6	1	1	4
2014	202	70	27	105	4	1	2	1
2015	233	82	21	130	9	7	1	1

Plympton **Population: 2,820**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	2	3	1	0	0	0	0
2012	2	2	0	0	0	0	0	0
2013	8	4	1	3	0	0	0	0
2014	13	4	2	7	2	0	0	2
2015	8	4	0	4	1	0	0	1

Rochester **Population: 5,232**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	3	1	2	0	0	0	0
2012	6	5	1	0	0	0	0	0
2013	5	3	1	1	0	0	0	0
2014	2	2	0	0	0	0	0	0
2015	2	2	0	0	0	0	0	0

Rockland **Population: 17,489**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	68	25	14	29	5	0	1	4
2012	63	25	6	32	1	0	0	1
2013	42	13	2	27	5	0	1	4
2014	65	26	8	31	5	0	1	4
2015	52	17	7	28	1	0	0	1

Scituate **Population: 18,133**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	62	24	3	35	3	1	0	2
2012	98	40	8	50	10	2	0	8
2013	70	27	9	34	2	0	0	2
2014	44	13	2	29	1	0	0	1
2015	68	37	5	26	0	0	0	0

WAREHAM FIRE DISTRICTS

Population: 21,822

Onset ***Est. Pop. Protected: 4,801***

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	30	1	11	0	0	0	0
2012	24	19	3	2	2	2	0	0
2013	45	33	5	7	2	1	1	0
2014	30	20	3	7	2	0	1	1
2015	51	26	3	22	0	0	0	0

Wareham District *Est. Pop. Protected: 17,021*

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	135	48	24	63	5	0	2	3
2012	109	39	18	52	4	1	2	1
2013	95	34	16	45	1	0	0	1
2014	58	32	8	18	1	0	0	1
2015	86	24	17	45	1	0	0	1

West Bridgewater **Population: 6,916**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	34	7	12	15	3	0	1	2
2012	39	9	10	20	4	1	1	2
2013	41	7	9	25	6	2	0	4
2014	45	12	8	25	2	1	0	1
2015	43	9	13	21	4	0	1	3

Whitman **Population: 14,489**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	45	27	3	15	1	0	0	1
2012	47	11	4	32	2	0	0	2
2013	7	2	1	4	0	0	0	0
2014	7	1	0	6	0	0	0	0
2015	32	9	10	13	2	0	1	1

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
23001	Abington	3,520	51	0	2,388	135	341	200	377	4	24
23042	Bridgewater	2,954	124	3	1,692	147	170	252	549	5	12
23044	Brockton	24,647	691	25	18,676	491	1,388	793	2,558	3	22
23052	Carver	2	2	0	0	0	0	0	0	0	0
23082	Duxbury	2,519	53	5	1,563	186	254	93	358	4	3
23083	East Bridgewater	2,467	62	3	1,842	142	146	47	218	0	7
23118	Halifax	1,548	24	0	1,060	59	229	57	112	1	6
23122	Hanover	3,056	88	6	1,753	208	445	258	282	1	15
23123	Hanson	1,799	36	2	1,282	109	190	45	130	1	4
23131	Hingham	3,958	53	2	2,341	333	355	348	507	10	9
23142	Hull	2,602	27	0	1,751	231	261	83	239	6	4
23145	Kingston	2,186	40	2	1,552	123	138	69	255	4	3
23146	Lakeville	842	18	0	598	24	71	37	87	2	5
23169	Marion	1,333	25	0	862	50	73	106	161	12	44
23171	Marshfield	3,894	79	8	2,569	235	476	81	422	4	20

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
23173	Mattapoisett	573	33	0	16	144	167	15	177	14	7
23182	Middleborough	4,345	86	4	1,778	139	344	1,555	420	5	14
23219	Norwell	2,205	52	0	1,205	277	236	164	268	1	2
23993	Onset	1,608	63	1	1,032	133	151	84	139	5	0
23231	Pembroke	10	9	0	0	0	0	0	1	0	0
23239	Plymouth	7,081	240	4	4,339	290	528	650	1,020	4	6
23240	Plympton	494	10	0	328	25	37	40	50	1	3
23250	Rochester	2	2	0	0	0	0	0	0	0	0
23251	Rockland	3,047	57	7	2,249	200	134	52	338	3	7
23264	Scituate	3,162	75	5	1,972	266	297	172	364	4	7
23992	Wareham	2,444	91	11	1,277	210	257	273	310	1	14
23322	West Bridgewater	2,254	48	1	1,395	100	526	27	121	0	36
23338	Whitman	2,710	37	1	1,729	150	390	164	232	0	7
Total	**Plymouth County**	**87,262**	**2,176**	**90**	**57,249**	**4,407**	**7,604**	**5,665**	**9,695**	**95**	**281**

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.

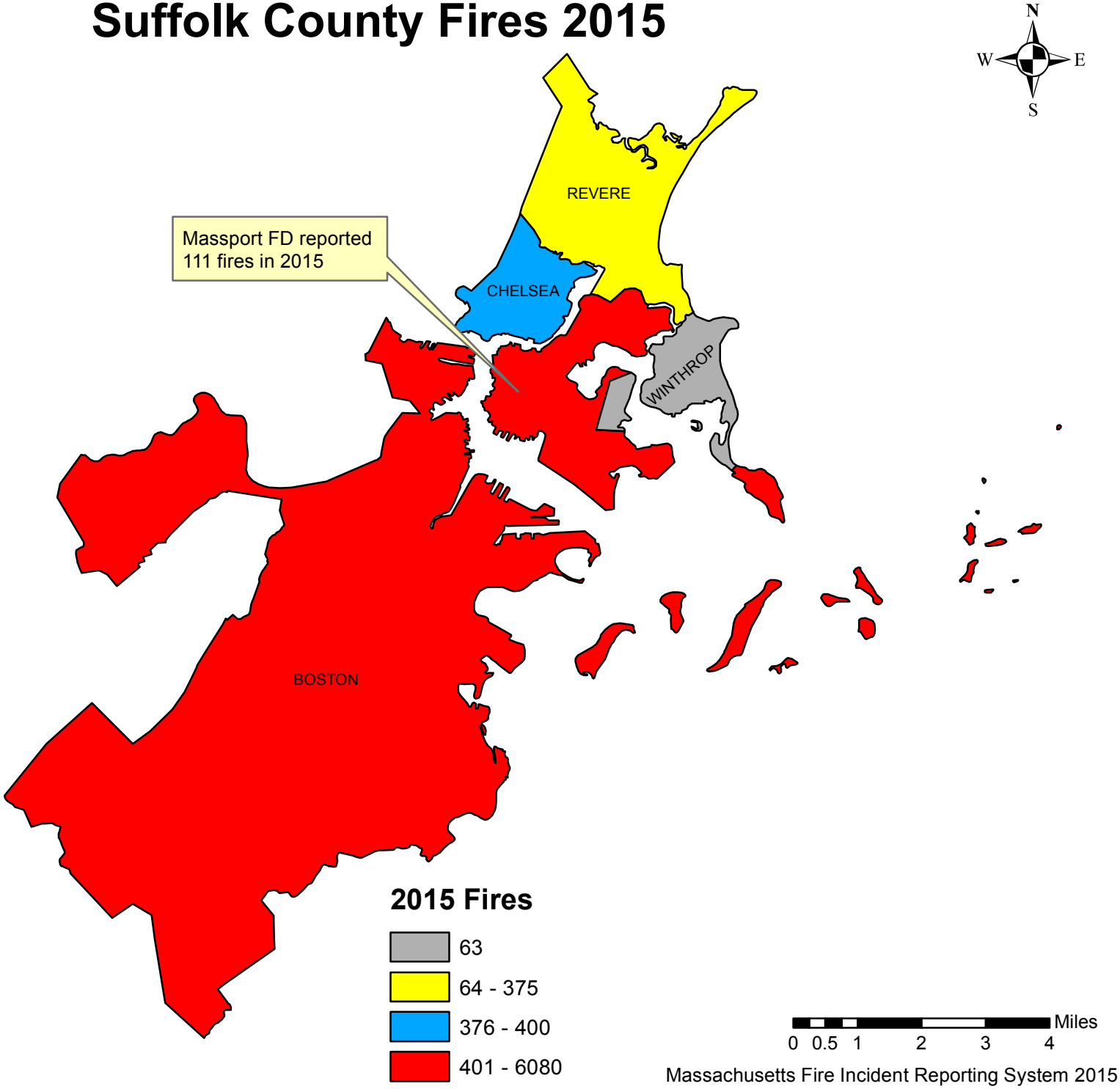
Suffolk County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Suffolk County Fires 2015



MFIRS
Massachusetts Fire Incident Reporting System

Suffolk County Fires in 2015

6,918 Total Fires — 4,710 Structures, 359 Vehicles & 1,849 Other Fires
Suffolk County ranked first out of the fourteen Massachusetts counties in total reported fires. Suffolk County fire departments reported 6,918 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 4,710 structure fires, 359 motor vehicle fires, 980 brush fires, 631 outside rubbish fires, 86 special outside fires, five cultivated vegetation or crop fires, and 147 unclassified fires caused three civilian deaths, six civilian injuries, 25 fire service injuries and an estimated dollar loss of $36.8 million. Suffolk County's fires accounted for 22% of the 31,302 Massachusetts fires reported in 2015.

All five fire departments in Suffolk County reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS).

Structure Fires Down
Total fires increased by 291, or 4%, from 6,627 incidents in 2014. Reported structure fires decreased by 191, or 4%, from the 4,901 reported during the previous year. Motor vehicle fires increased by10, or 3%, from the 359 reported in 2014. Outside and other fires increased by 472, or 34%, from 1,377 the year before.

SUFFOLK COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6,453	4,907	369	1,527	157	43	16	98
2012	6,678	4,827	349	1,526	169	33	22	114
2013	6,885	4,991	349	1,545	151	31	8	112
2014	6,627	4,901	349	1,377	159	33	8	118
2015	6,918	4,710	359	1,849	120	25	10	85

Fire and Fire Death Rates
Suffolk County had 9.6 fires per 1,000 population. That figure ranks Suffolk County first in the state and above the state rate of 4.8 fires per 1,000 population. Suffolk County also had 0.04 fire deaths per 10,000 population ranking it eleventh among Massachusetts counties and below the state rate of 0.09 fire deaths per 10,000 population.

3 Residents Died in 3 Suffolk County Fires
Suffolk County had three of its residents die in three fires in 2015.

- On January 29, 2015, at 6:00 a.m., the Boston Fire Department was dispatched to a fire in a single-family home of undetermined cause. The victim was a 62-year old woman. There were no other injuries associated with this fire. Alarms were present but failed to operate because of missing batteries. The building was not sprinklered. Damages from this fire were estimated to be $250,000.

- On February 6, 2015, at 5:48 a.m., the Revere Fire Department was called to a fatal electrical fire in a single-family home. The fire was started by an unclassified electrical malfunction in the floor ceiling assembly in the basement. The victim, an 85-year old man, was sleeping at the time of the fire. No one else was injured at this fire. Alarms were present and operated. There were no sprinklers. The fire caused an estimated $550,000 worth of damage.

- On March 10, 2015, at 2:37 p.m., the Boston Fire Department was called to a fatal electrical fire in a 3-unit apartment building. The fire was started by an overloaded electrical line. The victim, a 65-year old woman, was found in the kitchen overcome by the heat and smoke of the fire. One (1) firefighter was injured at this fire. Alarms were present but it was undetermined if they operated. There were no sprinklers. The fire caused an estimated $300,000 worth of damage.

Revere Has Suffolk County's Largest Loss Fire in 2015
In 2015, Suffolk County fire departments reported two fires with a reported dollar loss of $1 million or greater. One (1) of these fires occurred in Boston, and the other one in Revere. The total dollar loss of these two fires totaled $4 million, or 11%, of the county's total dollar loss.

- On September 6, 2015, at 6:31 p.m., the Revere Fire Department was called to an smoking fire at 500 Revere Beach Pkwy, a 50-unit apartment building. The fire began in a fourth floor bedroom. No one was injured at this fire. Alarms were present and alerted the occupants. Sprinklers were not present. Damages from this fire were estimated to be $3 million.

STRUCTURE FIRES

Reported Structure Fires Down
The 4,710 structure fires caused three civilian deaths, five civilian injuries, 23 fire service injuries and an estimated dollar loss of $32.6 million. These incidents represented 68% of Suffolk County's reported fires in 2015. The average estimated dollar loss per structure fire was $6,919. The total number of reported structure fires decreased by 191, or 4%, from the 4,901 reported in 2014.

Arson Caused 1% of Structure Fires
The 25 structure arsons caused an estimated dollar loss of $172,320. Arson was indicated as the cause of 1% of the structure fires and 1% of Suffolk County's structure fire dollar loss. The 25 structure arsons accounted for 21% of the Suffolk County arson fires reported in 2015. The total number of reported structure arsons decreased by eight, or 24%, from the 33 reported in 2014.

60% of Structure Arsons Occurred in Residences
Sixty percent (60%) of Suffolk County's 25 structure arsons occurred in residential occupancies; 24% happened in mercantile and business properties and 8% each occurred in educational facilities and special properties

BUILDING FIRES

There were 4,685 building fires of different types in Suffolk County in 2015. These 4,685 building fires accounted for 99.5% of all structure fires in Suffolk County.

86% of Suffolk Building Fires Occurred in People's Homes

Four thousand thirty-eight (4,038), or 86%, of Suffolk County's 4,685 building fires occurred in residential occupancies. Mercantile and business properties had 182 fires. One hundred and eighty (180) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 145 fires. Sixty-seven (67) building fires took place in educational properties. Forty (40) building fires in Suffolk County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Thirteen (13) fires took place in storage properties. Ten (10) fires occurred in industrial, utility, defense, agricultural or mining facilities. Three (3) fires took place in manufacturing and processing facilities. There were four fires who's property use were codes as *Other* and three other fires who property use was unclassified.

RESIDENTIAL FIRES

Residential Building Fires Were Down

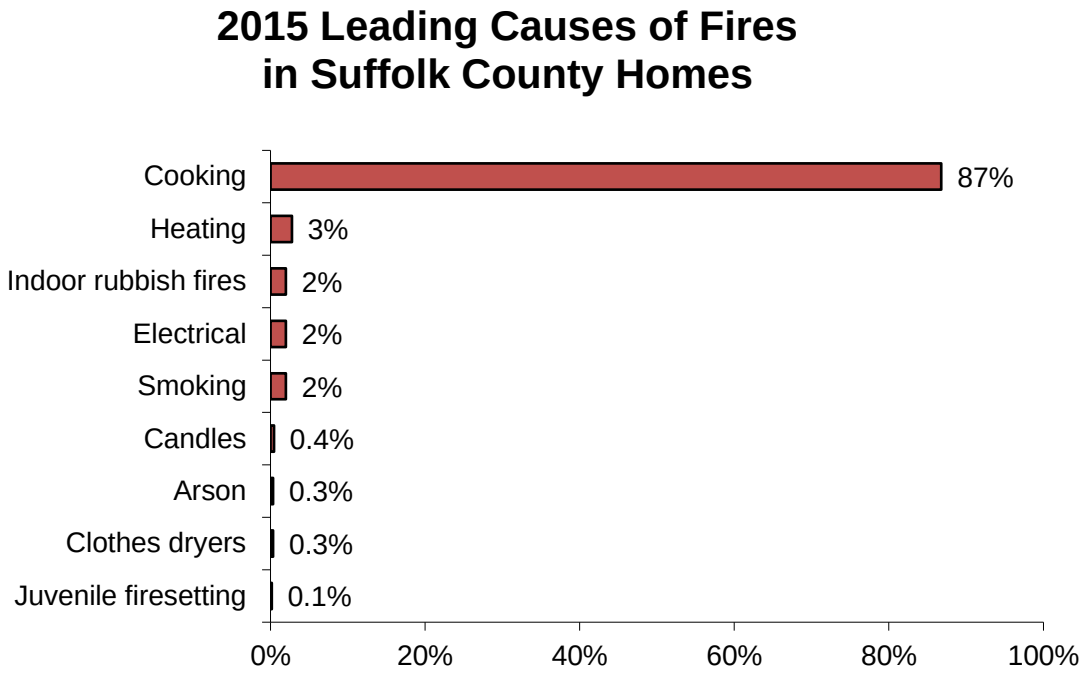
There were 4,038 reported residential building fires in Suffolk County in 2015. These 4,038 fires are a decrease of 170, or 4%, from the 4,208 residential building fires reported in 2014.

Apartments Accounted for 2/3 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 66% of the residential building fires in Suffolk County; 13% occurred in one- or two-family homes; 5% occurred in dormitories; 3% happened in rooming houses; 2% occurred in residential board and care facilities; 1% happened in hotels or motels. Four hundred and four (404), or 10%, of the residential building fires in Suffolk County occurred in unclassified residential buildings.

Unattended Cooking Caused 87% of Residential Fires

The leading cause of residential building fires in Suffolk County was unattended cooking and other unsafe cooking practices, accounting for 87% of these fires. Heating caused 3% of these fires. Indoor rubbish fires, electrical problems and smoking each caused 2% of fires in people's homes. Candles, arson, clothes dryers and juvenile-set fires each caused less than 1% of these fires in 2015.



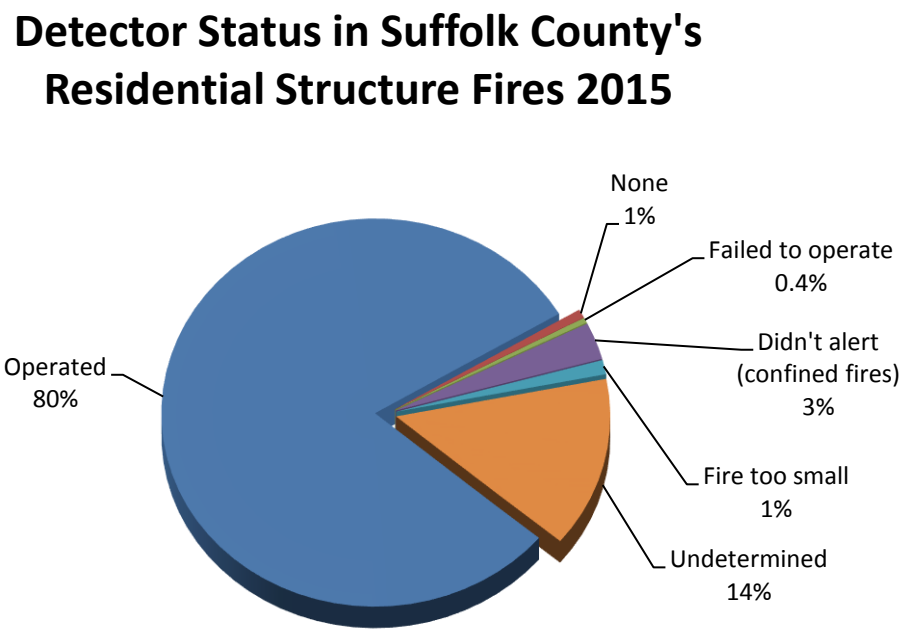
89% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
Three thousand five hundred and ninety-nine (3,599), or 89%, of all residential building fires were reported as confined to non-combustible containers in 2015. Three thousand four hundred and twenty-five (3,425) of the reported fires were cooking fires contained to a non-combustible container, accounting for 85% of residential building fires. Eighty-two (82), or 2%, of the residential building fires in Suffolk County in 2015 were contained rubbish fires. Seventy (70), or 2%, were fires confined to a fuel burner or boiler malfunction. Eighteen (18), or 1%, of all residential building fires reported in 2015 were confined to a chimney. Three (3) fires, or less than 1%, were confined commercial compactor fires; and one, or less than 1%, were confined to an incinerator overload or malfunction.

Alarms Alerted Occupants in 80% of Fires
Smoke or heat alarms operated and alerted the occupants in 3,309, or 80%, of the residential building fires. In 3% of these fires[2], the alarms did not alert the occupants. Alarms were present but did not operate in less than 1% of these incidents. In 1% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 1% of the residential fires. Smoke alarm performance was undetermined in 585 incidents, or 14%, of Suffolk County's residential building fires.

---

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

[2] These represent confined fires where it was reported that the alarm did not alert the occupants.



17% of Failed Alarms Had Missing or Dead Batteries
Of the 18 fires where smoke alarms were present but failed to operate, two, or 11%, failed because the batteries were either missing or disconnected. Another one, or 6%, failed because the batteries were dead. Two (2), or 11%, failed because they were defective. A lack of maintenance caused one, or 6%, of the alarms to fail. It was undetermined or unclassified in 12 cases, or 67%, why the alarms failed to operate.

VACANT BUILDINGS

1% of Building Fires Occurred in Vacant Buildings
Suffolk County reported 42 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 4,685 building fires reported to MFIRS in 2015. Twenty-seven (27) fires occurred in vacant residential properties. Six (6) of these fires occurred in mercantile or business properties. Three (3) vacant building fires occurred in storage facilities. Two (2) vacant building fires occurred in assembly properties; and another two occurred in special properties. Manufacturing or processing facilities and institutional facilities each accounted for one of these fires in Suffolk County in 2015.

Four (4), or 10%, of the vacant building fires in Suffolk County in 2015 were determined to be intentionally set. Apartments had three and a general retail store accounted for one of the reported vacant structure arsons in 2015.

.

JUVENILE-SET FIRES

11 Juvenile-set Fires

There were 11 reported juvenile-set fires in Suffolk County in 2015. The seven structure fires, three brush fires and one unclassified fire caused $924,400 in estimated damages.

ARSONS

120 Total Arsons[3] — 25 Structures, 10 Vehicles & 85 Other Arsons

One hundred and twenty (120), or 2%, of Suffolk County's 6,918 fires were considered intentionally set, or, for purposes of this analysis, arson. The 25 structure arsons, 10 motor vehicle arsons and 85 outside and other arsons caused an estimated dollar loss of $244,750. Suffolk County's arson fires accounted for 15% of the state's total arson fires and 3% of the state's total dollar losses from arson.

All Arson Down

The total number of arsons decreased by 39 from 159 in 2014. Reported structure arsons decreased by eight from the 33 reported in 2014. Motor vehicle arsons increased by two from the eight reported in 2014. Outside and other arsons decreased by 33 from the 118 reported last year.

ALL INCIDENTS

Rescue & EMS Calls Are 1/2 of All Reported Responses

In 2015, fire departments in Suffolk County reported 109,182 responses[4] to MFIRS. This is an increase of 8,215 runs, or 8%, over the 100,967 reported in 2014. Of these 109,182 responses, 102,250 non-fire calls were voluntarily reported.

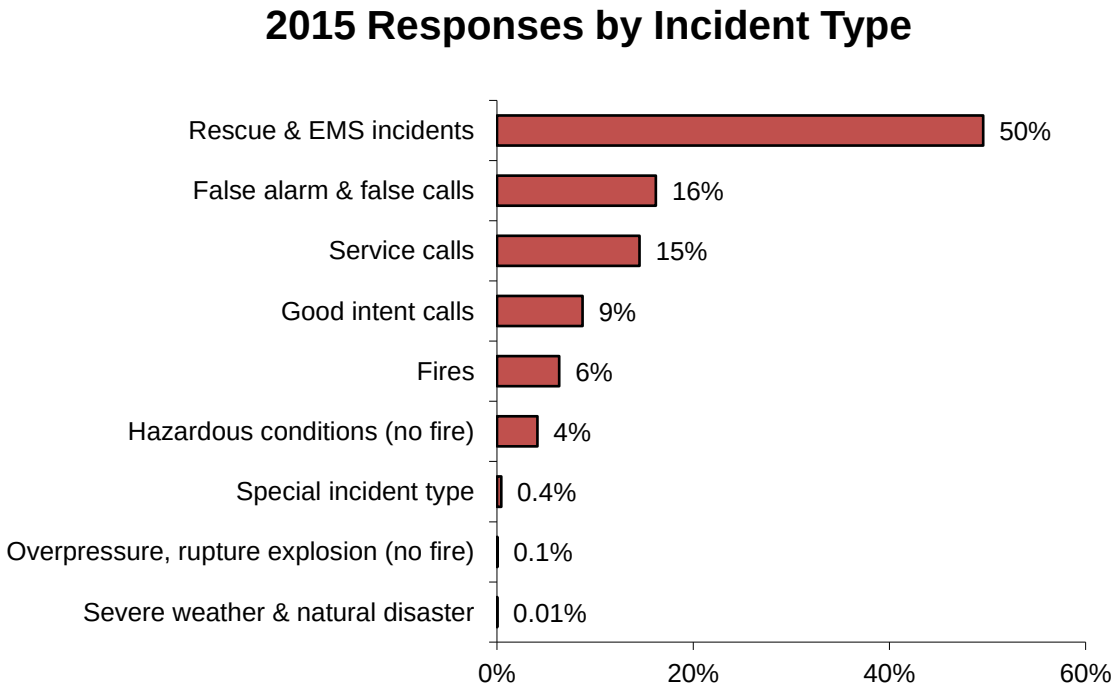
Of these 102,250 non-fire calls, 54,101, or 50%, of all the responses reported in 2015, were reported rescue and emergency medical services (EMS) calls; 17,678, or 16%, were reported false alarm or false calls; 15,861, or 15%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 9,534, or 9%, were reported good intent calls; 4,522, or 4%, reported hazardous condition calls with no fire; 475, or 0.4%, were special incident type calls such as citizen complaints; 64, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 15, or 0.01%, were severe weather calls.

Six thousand nine hundred and thirty-two (6,932), or 6%, of the total responses submitted by Suffolk County fire departments were fires.

---

[3] In MFIRS v5 a fire is considered an arson if the Cause of Ignition = 1 (Intentional) and the Age of Person (Fire Module) is greater than 17 or if the field is blank; or if the Wildland Module is used, the Wildland Fire Cause = 7 (Incendiary) and the Age of the Person (Wildland Module) is greater than 17 or if the field is left blank.

[4] These figures include responses in which Suffolk County fire departments gave mutual aid to other fire departments.



Suffolk County Fire Departments Reported Giving Mutual Aid 149 Times
In 2015, Suffolk County fire departments reported coming to the aid of other fire departments 149 times. Of these 149 responses, 69, or 46%, were for service calls such as cover assignments; 26, or 17%, were for rescue or EMS incidents; 14, or 9%, were for fires; 14, or 9%, were for hazardous conditions calls with no fire; 14, or 9%, were for good intent calls; 10, or 7%, were for false alarms or false calls; and two, or 1%, were special incident types.

Suffolk County Fire Departments Received Mutual Aid in 140 Incidents
In 2015, Suffolk County fire departments reported receiving aid from surrounding departments in 140 incidents. Of these 140 incidents, 63 or 45% were rescue and emergency medical services calls; 36, or 26%, were hazardous conditions calls with no fire; 17, or 12%, were for fires; 17, or 12%, were false alarms or false calls; three, or 2%, were service calls; three, or 2%, were good intent calls; and one, or 1%, was a special incident type.

Suffolk County Population: 722,023

9.6 Fires/1,000 Population

Total Fires: 6,918 **$36,762,337**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	4,710	68%	$32,588,091
Vehicle Fires	359	5%	2,709,067
Other Fires	1,849	27%	1,465,179

3 Fatal Fires — 0.43 Civilian Deaths/1,000 Fires
3 Civilian Deaths — 0.04 Civilian Deaths/10,000 Population
6 Civilian Injuries — 25 Fire Service Injuries

Building Fires: 4,685

Residential Structure Fires: 4,038

Residential Structure Fires Confined to Non-Combustible Containers: 3,599

Unconfined Residential Structure Fires: 439

3 Civilian Deaths 4 Civilian Injuries 20 Fire Service Injuries

Occupancy	Fires	%
Apartments	2,647	66%
1- & 2-Family homes	538	13%
Dormitories	205	4%
Rooming houses	126	3%
Residential board & care	63	1%
Hotels or motels	55	1%

Detector Status	Fires	%
Operated	3,309	80%
Didn't operate	18	0.4%
None	30	1%
Fire too small	49	1%
Didn’t Alert (confined)	127	3%
Undetermined	585	14%

Area of Origin[5]	%
Kitchen	87%
Heating room or area	2%
Bedroom	1%
Exterior balcony/unencl. porch	1%
Bathroom	1%

Heat Source	%	%Unconfined[6]
Radiated heat from oper. eq.	2%	17%
Heat from operating eq.	1%	10%
Arcing	1%	10%
Hot or smoldering object	1%	8%
Cigarette	1%	5%

[5] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.
[6] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[7]	%
Food, cooking materials	86%
Rubbish, trash, waste	2%
Flammable, combustible liquid	2%
Electrical wire, cable insulation	1%

Factor Contrib. to Ignit.	%	%Unconfined[8]
Abandoned materials	1%	12%
Equipment unattended	1%	8%
Too close to combustibles	1%	8%
Misuse of materials	1%	7%
Elec. fail., malfunc., other	1%	6%

Equipment[9]	%
Cooking equipment	86%
None	6%
Boiler, furnace, cent. heat. unit	2%
Electrical wiring, other	0.4%
Chimney or flue	0.4%
Clothes dryer	0.4%

Cause of Ignition	%	%Unconfined[10]
Unintentional	7%	62%
Failure of eq. or heat source	1%	11%
Intentional	0.3%	3%
Act of Nature	0.1%	1%
Cause under investigation	1%	12%
Undetermined	1%	6%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	84%
Didn't Alert Occupants	3%
Undetermined	13%

[7] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[8] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[9] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[10] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	581	499	37	45
February	558	496	31	31
March	539	476	26	37
April	592	396	29	167
May	978	352	27	599
June	506	331	30	145
July	480	282	34	164
August	484	277	40	167
September	529	312	23	194
October	558	428	28	102
November	575	437	29	109
December	538	424	25	89

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	1,101	757	52	292
Monday	947	621	53	273
Tuesday	884	635	53	196
Wednesday	969	635	51	283
Thursday	957	682	40	235
Friday	937	626	54	257
Saturday	1,123	754	56	313

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 – 04:00	488	300	48	140
04:01 – 08:00	461	281	46	134
08:01 – 12:00	1,074	794	41	239
12:01 – 16:00	1,724	1,085	73	566
16:01 – 20:00	1,975	1,405	80	490
20:01 – 00:00	1,196	845	71	280

Motor Vehicle Fires

Total: 359
Automobiles: 305 (85%)
9, or (3%), of the automobile fires considered incendiary or suspicious

.

Arson Fires

Total Arsons: 120 **Dollar loss: $244,750**

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	25	1%	21%	$172,320
Vehicle Arsons	10	3%	8%	70,900
Other Arsons	85	5%	71%	1,530

0.03 Structure arsons/1,000 population
0.01 Vehicle arsons/1,000 population
0.12 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%
20:01 – 00:00	11	32%
04:01 – 08:00	5	20%
08:01 – 12:00	5	20%
16:01 – 20:00	4	16%

Vehicle Arsons	#	%
00:01 – 04:00	3	30%
08:01 – 12:00	2	20%
20:01 – 00:00	2	20%

Other Arsons	#	%
20:01 – 00:00	33	39%
16:01 – 20:00	20	24%
12:01 – 16:00	18	21%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	11	44%
Business office	3	12%
1- or 2-Family home	3	12%

.

Boston **Population: 617,594**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	5,539	4,249	327	963	138	36	13	89
2012	5,693	4,192	280	1,221	150	27	18	105
2013	5,831	4,303	295	1,233	136	22	6	108
2014	5,682	4,243	298	1,141	152	31	8	113
2015	5,969	4,123	309	1,537	112	21	10	81

Chelsea **Population: 35,177**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	326	243	23	60	11	5	2	4
2012	425	307	20	98	12	4	4	4
2013	435	277	18	140	10	7	1	2
2014	352	267	19	66	6	1	0	5
2015	400	287	23	90	5	4	0	1

Massport **Population: 0**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	82	8	5	69	3	0	0	3
2012	121	5	7	109	1	0	0	1
2013	69	8	10	51	1	0	0	1
2014	55	4	16	35	0	0	0	0
2015	111	7	9	95	3	0	0	3

Revere **Population: 51,755**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	445	369	13	63	2	1	1	0
2012	398	300	16	82	4	2	0	2
2013	469	345	23	101	3	2	0	1
2014	470	339	16	115	1	1	0	0
2015	375	259	17	99	0	0	0	0

Winthrop **Population: 17,497**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	61	37	1	23	2	0	0	2
2012	41	22	2	17	2	0	0	2
2013	82	59	3	20	1	0	1	0
2014	68	48	0	20	0	0	0	0
2015	63	34	1	20	0	0	0	0

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
25035	Boston	81,765	5,969	42	35,038	3,622	13,580	8,245	14,871	14	384
25057	Chelsea	10,038	400	5	7,376	269	495	426	1,044	0	23
25935	Massport	3,598	123	11	2,529	381	157	140	247	0	10
25248	Revere	10,630	377	5	7,049	189	1,149	537	1,271	1	52
25346	Winthrop	3,151	63	1	2,109	61	480	186	245	0	6
Total	**Suffolk County**	**109,182**	**6,932**	**64**	**54,101**	**4,522**	**15,861**	**9,534**	**17,678**	**15**	**475**

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.

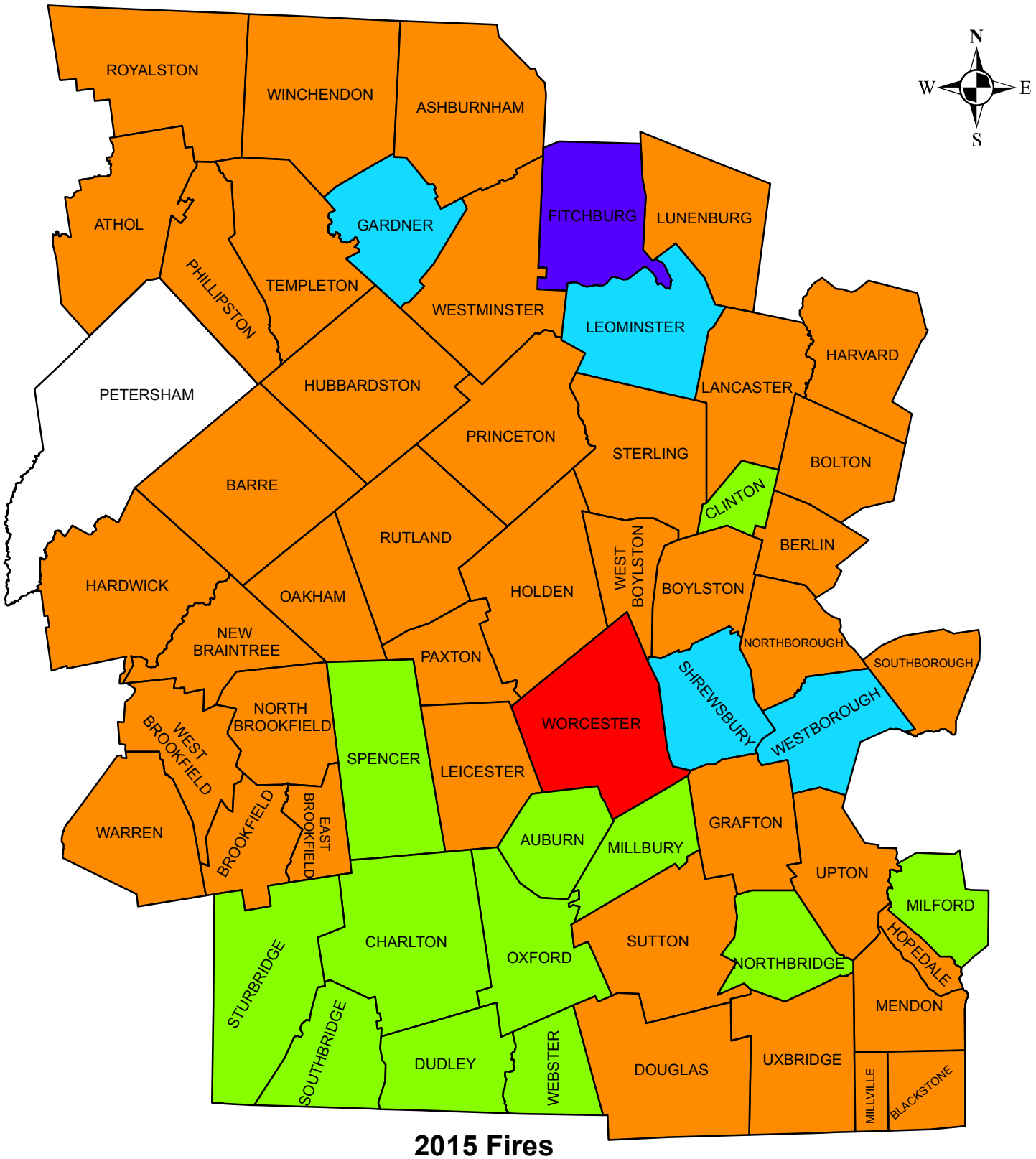
Worcester County

2015 Fire Data Analysis

MFIRS
Massachusetts Fire Incident Reporting System

Peter J. Ostroskey, State Fire Marshal
Division of Fire Safety • Fire Data and Public Education Unit
www.mass.gov/dfs • (978) 567-3380

Worcester County Fires 2015



2015 Fires

- 0
- 1 - 50
- 51 - 100
- 101 - 205
- 206 - 505
- 506 - 1510

*Non-reporting Department

0 1.25 2.5 5 7.5 10 Miles

Massachusetts Fire Incident Reporting System 2015

MFIRS
Massachusetts Fire Incident Reporting System

Worcester County Fires in 2015

4,241 Total Fires — 2,208 Structures, 374 Vehicles & 1,659 Other Fires
Worcester County ranked third out of the fourteen Massachusetts counties in total reported fires. Worcester County fire departments reported 4,241 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2015. The 2,208 structure fires, 374 motor vehicle fires, 1,035 brush fires, 485 outside rubbish fires, 70 special outside fires, two cultivated vegetation or crop fires, and 67 unclassified fires caused 13 civilian deaths, 64 civilian injuries, 71 fire service injuries and an estimated dollar loss of $41.4 million. Worcester County's fires accounted for 14% of the 31,302 Massachusetts fires reported in 2015.

Fifty-nine (59), or 98.3%, of the 60 fire departments in Worcester County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2015.

Outside & Other Fires Up
Total fires increased by 520, or 14%, from 3,721 incidents in 2014. Reported structure fires decreased by 15 from the 2,223 reported during the previous year. Motor vehicle fires remained the same with 374 reported in both 2014 and 2015. Outside and other fires increased by 535 from 1,124 the year before.

WORCESTER COUNTY FIRES FROM 2011 TO 2015

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	3,862	2,218	445	1,199	149	36	22	91
2012	4,321	2,202	367	1,752	202	52	20	130
2013	3,955	2,124	357	1,474	139	29	11	99
2014	3,721	2,223	374	1,124	79	28	9	42
2015	4,241	2,208	374	1,659	107	38	12	57

Fire and Fire Death Rates
Worcester County had 5.3 fires per 1,000 population. That figure ranks Worcester County third in the state and above the state rate of 4.8 fires per 1,000 population. Worcester County also had 0.16 fire deaths per 10,000 population ranking it third among Massachusetts counties and above the state rate of 0.09 fire deaths per 10,000 population.

13 Residents Died in 11 Worcester County Fires
Worcester County had 13 of its residents die in 11 fires in 2015. All but one of the deaths occurred in building fires. The other death occurred in a motor vehicle crash with ensuing fire.

- On February 5, 2015, at 12:47 a.m., the Athol Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started in a first floor bedroom. It is believed that the victim, a 57-year old physically disabled man, was sleeping at the time of the fire. No one else was injured at this fire. It was

undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were not estimated.

- On February 7, 2015, at 9:53 a.m., the Fitchburg Fire Department was called to a fatal electrical fire in a single-family home. Electrical wiring in the stairway was the cause of the fire. The victim, an 83-year old man, was overcome by heat and smoke as he attempted to escape. Two (2) police officers saw him through a window and pulled him from the home. He was transported to a local hospital where he succumbed to his injuries. Both police officers were also transported for smoke inhalation. Alarms were present and they operated. There were no sprinklers in the home. The fire caused an estimated $205,500 worth of damage.

- On February 14, 2015, at 10:22 a.m., the Royalston Fire Department was called to a fatal smoking fire in a single-family home. The victim, a 53-year old physically disabled man, ignited his clothing while he was smoking in his wheel chair. No one else was injured at this fire. Alarms were present and they alerted the occupants. Sprinklers were not present. Damages were not estimated.

- On March 11, 2015, at 4:08 a.m., the Worcester Fire Department was called to a fatal cooking fire in a single-family home. The victim, a 64-year old woman, was sleeping at the time of the fire. Four (4) other civilians and two firefighters were injured at this fire. Alarms were present but it was unknown if they operated. The home was not sprinklered. Damages from this fire were estimated to be 225,000.

- On April 14, 2015, at 11:52 a.m., the Holden Fire Department was dispatched to a motor vehicle crash with ensuing fire. It is believed that the driver and only occupant of the vehicle had driven his car into a tree in a suicide attempt. The car burst into flames and the victim, a 17-year old man was trapped inside the vehicle and could not be rescued. No one else was injured in this fire. Damages from this fire were estimated to be $11,100

- On May 6, 2015, at 2:48 a.m., the Worcester Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on a first floor exterior stairway. The victims, a 96-year old woman and her 83-year old sister, were sleeping in their bedrooms when the fire began. No one else was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were estimated to be $355,500.

- On August 7, 2015, at 4:46 p.m., the Mendon Fire Department was called to a fatal self-immolation fire in a single-family home. The victim, a 56-year old man, ignited gasoline in his living room. No one else was injured at this fire. Alarms were present and they operated, but the victim was intimately involved with the ignition of the fire. The home was not sprinklered. Damages from this fire were estimated to be $100,000.

- On August 19, 2015, at 1:10 p.m., the New Braintree Fire Department responded to a fatal fire at a single-family home caused by a propane explosion. The victim, a 68-

year old man, was attempting to install a propane-fueled furnace when something ignited propane that was leaking. The victim was life-flighted to a hospital where he succumbed to his injuries. No one else was injured at this fire. Alarms were present but it was undetermined if they were operating. The building did not have any sprinklers. Damages from this fire were estimated to be $160,000.

- On October 3, 2015, at 10:32 p.m., the Athol Fire Department was called to a fatal fire in a 6-unit apartment building of undetermined cause. The fire started on the first floor function area. The victim, a 69-year old man, was believed to be in the area of origin and somehow involved in starting the fire. No one else was injured at this fire. It was undetermined if alarms were present and if the building had sprinklers. Damages from the blaze were estimated to be $50,000.

- On October 24, 2015, at 10:50 p.m., the Millbury Fire Department was called to a fatal smoking fire in a 45-unit apartment building. The fire was started when the victim, a 56-year old woman, fell asleep while smoking in bed. There were no other injuries at this fire. Alarms were present and alerted the other occupants to the fire. The building did not have sprinklers. Damages from this fire were estimated to be $27,500.

- On December 13, 2015, at 7:46 p.m., the Worcester Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on the first floor. The victims, a 71-year old man and his 85-year old sister, were both trying to escape when they were overcome by the heat and smoke. They were transported to a local hospital where the succumbed to their injuries. No one else was injured at this fire. There were no alarms present and the building was not sprinklered. Damages from the blaze were estimated to be $225,000.

Worcester Has Largest Loss Fire in 2015

In 2015, Worcester County fire departments reported four fires with a reported dollar loss of $1 million or greater. The dollar loss of these four fires totaled $9.7 million, or 23%, of the county's total dollar loss.

- On April 1, 2015, at 8:12 a.m., the Worcester Fire Department was called to a fire of undetermined cause in an apartment building. The fire began on the third floor. One (1) firefighter was injured at this fire. Alarms operated and alerted the occupants Sprinklers were not present. Damages from this fire were estimated to be $6.5 million.

STRUCTURE FIRES

Reported Structure Fires Down Slightly

The 2,208 structure fires caused 12 civilian deaths, 46 civilian injuries, 68 fire service injuries and an estimated dollar loss of $35.5 million. These incidents represented 52% of Worcester County's reported fires in 2015. The average estimated dollar loss per structure fire was $16,094. The total number of reported structure fires decreased by 15, or 1%, from the 2,223 reported in 2014.

Arson Caused 2% of Structure Fires

The 38 structure arsons caused one civilian death, one civilian injury, three fire service injuries and an estimated dollar loss of $2.1 million. Arson was indicated as the cause of 1% of the structure fires and 6% of Worcester County's structure fire dollar loss. The 38 structure arsons accounted for 36% of the Worcester County arson fires reported in 2015. The total number of reported structure arsons increased by 10, or 36%, from the 28 reported in 2014.

61% of Structure Arsons Occurred in Residences

Sixty-one percent (61%) of Worcester County's 38 structure arsons occurred in residential occupancies; 13% happened in mercantile and business properties, 11% occurred in storage properties; 5% in public assembly properties; 5% in educational facilities; 3% happened in institutional facilities; and another 3% in industrial facilities.

BUILDING FIRES

There were 2,199 building fires of different types in Worcester County in 2015. These 2,199 building fires accounted for 99.6% of all structure fires in Worcester County.

86% of Worcester Building Fires Occurred in People's Homes

One thousand eight hundred and eighty-eight (1,888), or 86%, of Worcester County's 2,199 building fires occurred in residential occupancies. Eighty-one (81) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 55 fires. Mercantile and business properties had 53 fires. Forty-two (42) fires took place in storage properties. Thirty-four (34) building fires took place in educational properties. Thirty-two (32) fires took place in manufacturing and processing facilities. Seven (7) building fires in Worcester County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Seven (7) fires occurred in industrial, utility, defense, agricultural or mining facilities, and one fire occurred in unclassified buildings in Worcester County in 2015.

RESIDENTIAL FIRES

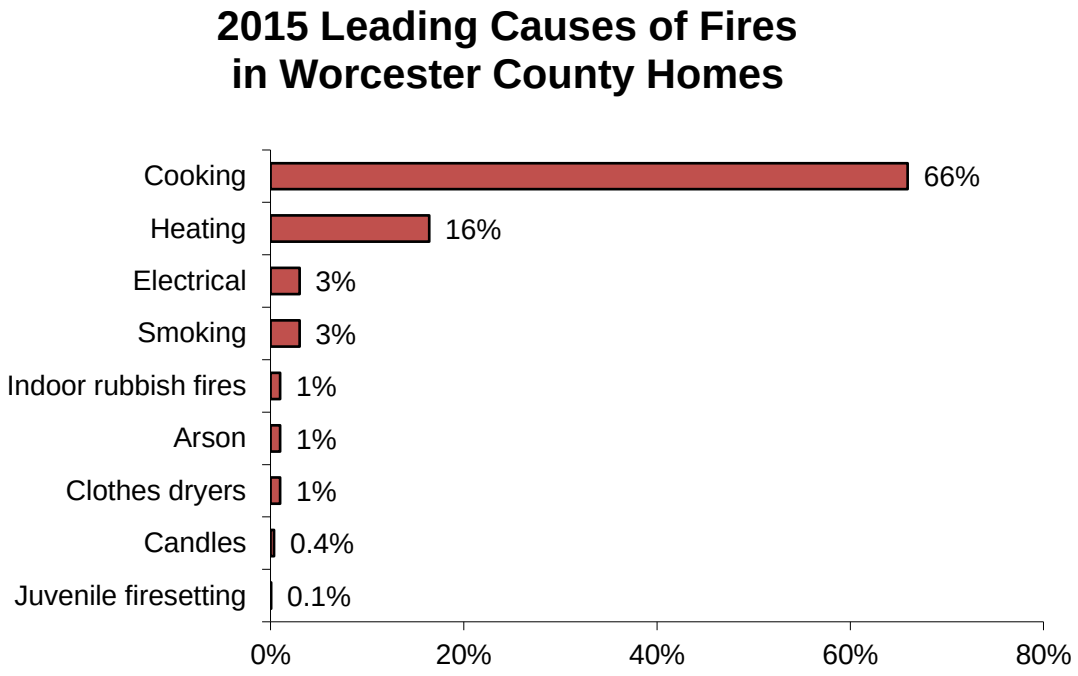
Residential Building Fires Were Down Slightly

There were 1,888 reported residential building fires in Worcester County in 2015. These 1,888 fires were a decrease of 13, or 1%, from the 1,901 residential building fires reported in 2014.

Apartments Accounted for 46% of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 46% of the residential building fires in Worcester County; 38% occurred in one- or two-family homes; 6% happened in rooming houses; 5% occurred in dormitories; 3% happened in hotels or motels; and 1% occurred in residential board and care facilities. Twenty-five (25), or 1%, of the residential building fires in Worcester County occurred in unclassified residential buildings.

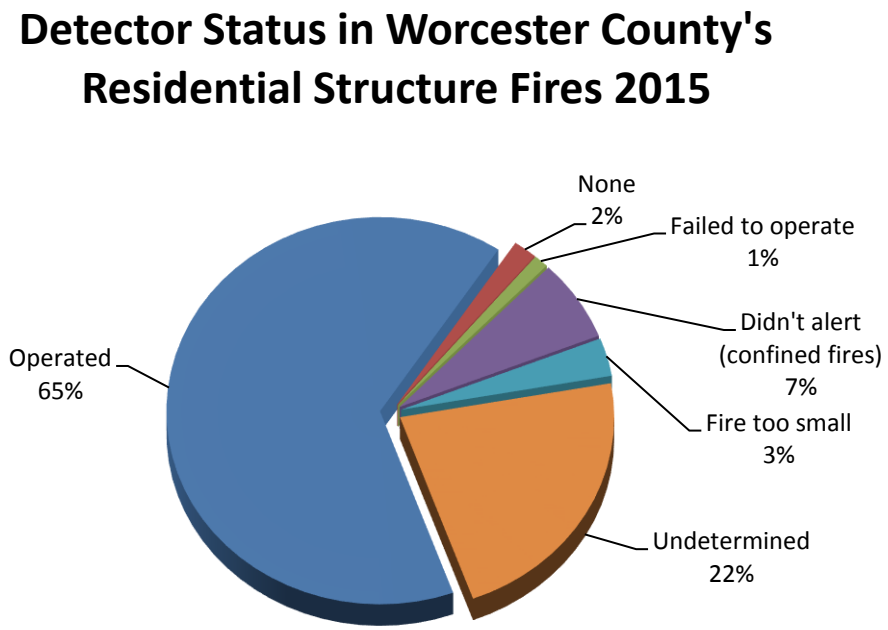
Unattended Cooking Caused 66% of Residential Fires
The leading cause of residential building fires in Worcester County was unattended cooking and other unsafe cooking practices, accounting for 66% of these fires. Heating caused 16% of fires in people's homes. Electrical problems and smoking each accounted for 3% of these fires. Indoor rubbish fires, arson and clothes dryers each caused 1% of the fires in people's homes in Worcester County in 2015. Candles and juvenile-set fires each caused less than 1% of these fires in 2015.



79% of Residential Building Fires Are Confined to Non-Combustible Containers[1]
One thousand four hundred and eighty-six (1,486), or 79%, of all residential building fires were reported as confined to non-combustible containers in 2015. One thousand one hundred and seventy-eight (1,178) of the reported fires were cooking fires contained to a non-combustible container, accounting for 62% of residential building fires. One hundred and sixty-one (161), or 9%, were fires confined to a fuel burner or boiler malfunction. One hundred and twenty-one (121), or 6%, of all residential building fires reported in 2015 were confined to a chimney. Twenty-five (25), or 1%, of the residential building fires in Worcester County in 2015 were contained rubbish fires; and one fire, or less than 1%, was a fire confined to a commercial compactor.

[1] In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

Alarms Alerted Occupants in 65% of Fires
Smoke or heat alarms operated and alerted the occupants in 1,225, or 65%, of the residential building fires. In 7% of these fires[2], the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In 2% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 3% of the residential fires. Smoke alarm performance was undetermined in 420 incidents, or 22%, of Worcester County's residential building fires.



29% of Failed Alarms Had Missing or Dead Batteries
Of the 21 fires where smoke alarms were present but failed to operate, five, or 24%, failed because the batteries were either missing or disconnected. One (1), or 5%, failed because the batteries were dead. Two (2), or 10%, failed from a power failure, shutoff or disconnect. A lack of maintenance was the reason why two alarms, or 10% failed. A defective alarm caused one, or 5%, to fail. Improper installation or placement caused another one, or 5%, of the alarms to fail. It was undetermined or unclassified in nine cases, or 43%, why the alarms failed to operate.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings
Worcester County reported 53 fires that occurred in buildings that were vacant, under construction or demolition. This represents 2% of the total 2,199 building fires reported to MFIRS in 2015. Thirty-two (32) fires occurred in vacant residential properties. Nine

[2] These represent confined fires where it was reported that the alarm did not alert the occupants.

(9) vacant building fires occurred in storage facilities. Five (5) of these fires occurred in mercantile or business properties. Manufacturing or processing facilities, public assembly properties, and special properties each accounted for two of these fires. One (1) vacant building fire occurred in an institutional facility, and another occurred in an industrial facility in Worcester County in 2015.

Fifteen (15), or 28%, of the vacant building fires in Worcester County in 2015 were determined to be intentionally set. These vacant arsons occurred in seven one- or two-family homes, three apartment buildings, two unclassified storage facilities, a clinic, an unclassified business and a warehouse in 2015.

JUVENILE-SET FIRES

53 Juvenile-set Fires

There were 53 reported juvenile-set fires in Worcester County in 2015. The four structure fires, 46 brush fires, one outside rubbish fire, and two special outside fires caused $22,853 in estimated damages.

ARSONS

107 Total Arsons[3] — 38 Structures, 12 Vehicles & 57 Other Arsons

One hundred and seven (107), or 3%, of Worcester County's 4,241 fires were considered intentionally set, or, for purposes of this analysis, arson. The 38 structure arsons, 12 motor vehicle arsons and 57 outside and other arsons caused one civilian death, one civilian injury, six fire service injuries and an estimated dollar loss of $2.2 million. Worcester County's arson fires accounted for 14% of the state's total arson fires and 28% of the state's total dollar losses from arson.

All Arson Up

The total number of arsons increased by 28 from 79 in 2014. Reported structure arsons increased by 10 from the 28 reported in 2014. Motor vehicle arsons increased by three from the nine reported in 2014. Outside and other arsons increased by 15 from the 42 reported last year.

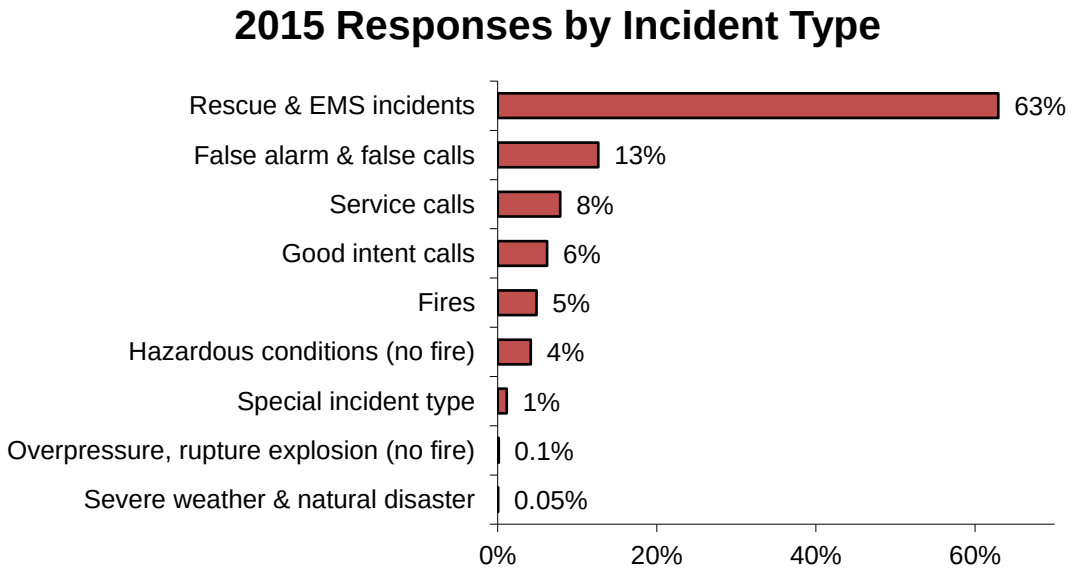
[3] In MFIRS v5 a fire is considered an arson if the Cause of Ignition = 1 (Intentional) and the Age of Person (Fire Module) is greater than 17 or if the field is blank; or if the Wildland Module is used, the Wildland Fire Cause = 7 (Incendiary) and the Age of the Person (Wildland Module) is greater than 17 or if the field is left blank.

ALL INCIDENTS

Rescue & EMS Calls Are 63% of All Reported Responses
In 2015, fire departments in Worcester County reported 99,354 responses[4] to MFIRS. This is an increase of 10,383 runs, or 12%, over the 88,971 reported in 2014. Of these 99,354 responses, 94,496 non-fire calls were voluntarily reported.

Of these 94,496 non-fire calls, 62,498, or 63%, of all the responses reported in 2015 were reported rescue and emergency medical services (EMS) calls; 12,550, or 13%, were reported false alarm or false calls; 7,817, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 6,181, or 6%, were reported good intent calls; 4,145, or 4%, reported hazardous condition calls with no fire; 1,138, or 1%, were special incident type calls such as citizen complaints; 119, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 48, or 0.05%, were severe weather calls.

Four thousand eight hundred and fifty-eight (4,858), or 5%, of the total responses submitted by Worcester County fire departments were fires.



Worcester County Fire Departments Reported Giving Mutual Aid 2,311 Times
In 2015, Worcester County fire departments reported coming to the aid of other fire departments 2,311 times. Of these 2,311 responses, 969, or 42%, were for rescue or EMS incidents; 548, or 24%, were for service calls such as cover assignments; 517, or 22%, were for fires; 204, or 9%, were for good intent calls; 36, or 2%, were for hazardous

[4] These figures include responses in which Worcester County fire departments gave mutual aid to other fire departments.

conditions calls with no fire; 35, or 3%, were for false alarms or false calls; and two, or 0.1%, were special incident types.

Worcester County Fire Departments Received Mutual Aid in 1,264 Incidents

In 2015, Worcester County fire departments reported receiving aid from surrounding departments in 1,264 incidents. Of these 1,264 incidents, 814 or 64% were rescue and emergency medical services calls; 251, or 20%, were for fires; 71, or 6%, were service calls; 48, or 4%, were false alarms or false calls; 41, or 3%, were good intent calls; 34, or 3%, were hazardous conditions calls with no fire; two, or 0.2%, was an overpressure, rupture explosions without fire call; two, or 0.2% were special incident types; and one, or 0.2% was for a severe weather or natural disaster call.

.

Worcester County Population: 798,552

5.3 Fires/1,000 Population

Total Fires: 4,241 **$41,359,471**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	2,208	52%	$35,535,187
Vehicle Fires	374	9%	4,535,565
Other Fires	1,659	39%	1,288,719

11 Fatal Fires
13 Civilian Deaths
64 Civilian Injuries

3.07 Civilian Deaths/1,000 Fires
0.16 Civilian Deaths/10,000 Population
71 Fire Service Injuries

Building Fires: 2,199

Residential Structure Fires: 1,888

Residential Structure Fires Confined to Non-Combustible Containers: 1,486

Unconfined Residential Structure Fires: 402

12 Civilian Deaths 41 Civilian Injuries 63 Fire Service Injuries

Occupancy	Fires	%
Apartments	860	46%
1- & 2-Family homes	719	38%
Rooming houses	113	6%
Dormitories	88	5%
Hotels or motels	56	3%
Residential board & care	27	1%

Detector Status	Fires	%
Operated	1,225	65%
Didn't operate	21	1%
None	34	2%
Fire too small	60	3%
Didn’t Alert (confined)	128	7%
Undetermined	420	22%

Area of Origin[5]	%
Kitchen	67%
Chimney or flue	9%
Heating room or area	7%
Bedroom	2%
Exterior balcony/unencl. porch	1%
Living room	1%
Bedroom	1%

Heat Source	%	%Unconfined[6]
Radiated heat from oper. eq.	3%	13%
Arcing	2%	11%
Hot or smoldering object	2%	11%
Heat from operating eq.	2%	9%
Hot ember or ash	2%	6%
Spark/ember/flame op. eq.	1%	5%

[5] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[6] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Heat Source from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires, but is sometimes voluntarily reported.

Item First Ignited[7]	%
Food, cooking materials	64%
Film or residue (creosote)	9%
Flammable, combustible liquid	6%
Rubbish, trash, waste	2%
Exterior sidewall covering	1%

Factor Contrib. to Ignit.	%	%Unconfined[8]
Too close to combustibles	3%	12%
Abandoned materials	2%	10%
Misuse of materials	2%	9%
Failure to clean	1%	6%
Elec. fail., malfunc., other	1%	3%
Equipment unattended	1%	3%

Equipment[9]	%
Cooking equipment	65%
None	13%
Chimney or flue	9%
Boiler, furnace, cent. heat. unit	7%
Clothes dryer	1%

Cause of Ignition	%	%Unconfined[10]
Unintentional	13%	62%
Failure of eq. or heat source	3%	12%
Intentional	1%	6%
Act of Nature	0.2%	1%
Cause under investigation	1%	6%
Undetermined	3%	12%

Detector Alerted Occupants
(Confined Fires in Non-Combustible Containers)

Alerted Occupants	70%
Didn't Alert Occupants	9%
Undetermined	21%

[7] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[8] Some fields in version 5 allow for multiple entries. Therefore the number of entries may be greater than the actual number of incidents being analyzed. These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Factors Contributing to Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

[9] This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

[10] These figures were calculated only from those incidents, which were coded as Unconfined fires (Incident Types 111-112 or 120-129). The USFA & NFPA do not recommend inferring codes for Cause of Ignition from the fires contained to non-combustible containers (Incident Types 113 – 118). This field does not need to be completed for confined fires.

Month	Total Fires	Structure Fires	Vehicle Fires	Other Fires
January	315	231	38	46
February	262	212	32	18
March	270	230	20	20
April	446	197	26	223
May	860	192	44	624
June	280	163	30	87
July	282	120	38	124
August	316	139	29	148
September	321	139	31	151
October	315	215	31	69
November	310	178	23	109
December	264	192	32	40

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	708	354	41	307
Monday	585	299	61	225
Tuesday	553	297	57	199
Wednesday	559	282	71	206
Thursday	562	323	54	185
Friday	616	332	52	232
Saturday	664	321	38	305

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 – 04:00	268	159	35	74
04:01 – 08:00	284	163	34	87
08:01 – 12:00	669	353	80	236
12:01 – 16:00	1,134	488	81	565
16:01 – 20:00	1,238	677	92	469
20:01 – 00:00	648	368	52	228

Motor Vehicle Fires

Total: 374
Automobiles: 294 (79%)
12, or (4%), of the automobile fires considered incendiary or suspicious

.

Arson Fires

Total Arsons: 107 **Dollar loss: $2,221,586**

0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	38	2%	36%	$2,140,581
Vehicle Arsons	12	3%	11%	69,552
Other Arsons	57	3%	53%	1,453

0.05 Structure arsons/1,000 population
0.02 Vehicle arsons/1,000 population
0.07 Other arsons/1,000 population

2 Civilian Deaths 1 Civilian Injury 6 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
01:01 – 04:00	9	24%	20:01 – 00:00	4	33%
20:01 – 00:00	9	24%	00:01 – 04:00	3	25%
04:01 – 08:00	8	21%	08:01 – 12:00	2	17%
16:01 – 20:00	5	13%	12:01 – 16:00	2	17%

Other Arsons	#	%
12:01 – 16:00	20	35%
16:01 – 20:00	20	35%
08:01 – 12:00	10	18%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family homes	14	37%
Apartments	9	24%
High/junior high/middle school	2	15%
Mercantile, business, other	2	5%
Storage, other	2	5%

.

Ashburnham **Population: 6,081**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	6	4	2	0	0	0	0	0
2012	9	4	2	3	0	0	0	0
2013	27	19	0	8	1	0	0	1
2014	23	8	1	14	0	0	0	0
2015	20	11	0	9	2	0	0	2

Athol **Population: 11,584**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	39	18	6	15	4	1	0	3
2012	62	22	6	34	6	0	0	6
2013	46	20	5	21	5	0	0	5
2014	42	19	4	19	4	0	0	4
2015	47	11	4	32	4	0	0	4

Auburn **Population: 16,188**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	57	17	25	15	1	0	1	0
2012	57	27	15	15	2	1	0	1
2013	50	21	14	15	1	0	0	1
2014	53	23	12	18	3	0	1	2
2015	71	21	16	34	0	0	0	0

Barre **Population: 5,398**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	9	4	3	0	0	0	0
2012	23	8	6	9	2	0	0	2
2013	25	15	4	6	2	1	0	1
2014	8	4	3	1	0	0	0	0
2015	25	9	4	12	3	3	0	0

Berlin **Population: 2,886**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	22	10	1	11	2	1	0	1
2012	13	7	2	4	0	0	0	0
2013	32	12	10	10	2	0	1	1
2014	21	10	5	6	0	0	0	0
2015	27	3	7	17	2	0	0	2

Blackstone **Population: 9,026**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	28	18	1	9	2	0	0	2
2012	38	11	3	24	6	0	0	6
2013	31	13	2	16	0	0	0	0
2014	17	7	1	9	1	0	0	1
2015	23	9	2	12	2	1	0	1

Bolton **Population: 4,897**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	1	2	6	0	0	0	0
2012	22	7	2	13	1	0	0	1
2013	15	4	3	8	0	0	0	0
2014	20	7	8	5	1	0	0	1
2015	22	5	3	14	0	0	0	0

Boylston **Population: 4,355**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	9	6	2	1	0	0	0	0
2012	12	2	2	8	0	0	0	0
2013	12	2	1	9	0	0	0	0
2014	17	10	2	5	0	0	0	0
2015	18	10	2	6	1	0	0	1

Brookfield **Population: 3,390**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	0	1	0	0	0	0
2012	3	2	0	1	0	0	0	0
2013	6	6	0	0	0	0	0	0
2014	1	1	0	0	0	0	0	0
2015	7	3	1	3	1	0	0	1

Charlton **Population: 12,981**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	63	32	14	17	0	0	0	0
2012	53	36	7	10	1	1	0	0
2013	66	35	11	20	3	1	0	2
2014	57	26	12	19	3	0	0	3
2015	58	32	13	13	0	0	0	0

Clinton **Population: 13,606**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	156	122	9	25	2	1	0	1
2012	94	52	4	38	8	0	0	8
2013	78	51	3	24	1	0	0	1
2014	33	25	2	6	0	0	0	0
2015	67	29	2	36	5	0	0	5

Douglas **Population: 8,471**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	48	23	2	23	7	0	0	7
2012	35	12	2	21	5	2	0	3
2013	22	5	0	17	10	1	0	9
2014	30	18	1	11	0	0	0	0
2015	31	10	4	17	1	0	0	1

Dudley **Population: 11,390**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	29	15	5	9	0	0	0	0
2012	37	20	10	7	1	0	1	0
2013	40	25	6	9	0	0	0	0
2014	33	24	3	6	0	0	0	0
2015	51	24	3	24	1	1	0	0

East Brookfield **Population: 2,183**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	8	7	0	1	0	0	0	0
2012	24	4	0	20	0	0	0	0
2013	12	1	1	10	0	0	0	0
2014	12	2	1	9	0	0	0	0
2015	14	2	1	11	0	0	0	0

Fitchburg **Population: 40,318**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	391	301	28	62	14	1	4	9
2012	453	321	25	107	10	3	2	5
2013	387	302	23	62	1	1	0	0
2014	436	331	31	74	5	3	0	2
2015	505	380	33	92	10	7	2	1

Gardner **Population: 20,228**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	76	46	11	19	4	3	0	1
2012	72	41	6	25	2	1	0	1
2013	106	72	12	22	2	2	0	0
2014	153	121	12	20	2	1	0	1
2015	201	139	10	52	3	1	0	2

Grafton **Population: 17,765**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	51	36	13	2	1	1	0	0
2012	29	20	6	3	3	2	1	0
2013	41	26	2	13	0	0	0	0
2014[11]	0	0	0	0	0	0	0	0
2015	30	18	1	11	1	0	1	0

Hardwick **Population: 2,990**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	15	8	0	7	0	0	0	0
2012	Non-Reporting Community							
2013	1	1	0	0	0	0	0	0
2014	Non-Reporting Community							
2015	5	5	0	0	0	0	0	0

Harvard **Population: 6,520**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	8	4	2	2	0	0	0	0
2012	18	7	1	10	3	0	0	3
2013	28	13	3	12	9	0	1	8
2014	38	16	5	17	2	0	0	2
2015	40	19	2	19	3	3	0	0

Holden **Population: 17,346**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	41	24	4	13	2	0	1	1
2012	23	9	1	13	3	0	0	3
2013	46	21	6	19	0	0	0	0
2014	49	26	3	20	3	3	0	0
2015	36	18	2	16	2	0	1	1

[11] Grafton reported only 14 incidents in 2014. Non of them were fires.

Hopedale **Population: 5,911**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	4	2	1	1	0	0	0	0
2012	4	4	0	0	0	0	0	0
2013	20	11	0	9	3	0	0	3
2014	19	7	3	9	3	0	0	3
2015	14	7	0	7	2	0	0	2

Hubbardston **Population: 4,382**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	13	1	4	0	0	0	0
2012	23	8	5	10	0	0	0	0
2013	18	11	2	5	0	0	0	0
2014	15	9	3	3	0	0	0	0
2015	23	9	2	12	3	0	0	3

Lancaster **Population: 8,055**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	14	1	5	8	4	0	2	2
2012	13	6	3	4	3	1	1	1
2013	24	10	3	11	1	0	0	1
2014	13	3	3	7	1	0	0	1
2015	18	7	4	7	0	0	0	0

Leicester **Population: 10,970**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	21	7	5	9	3	0	0	3
2012	43	18	5	20	0	0	0	0
2013	34	8	5	21	3	0	0	3
2014	31	12	5	14	2	1	0	1
2015	18	8	1	9	1	0	0	1

Leominster **Population: 40,759**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	213	131	24	58	8	3	0	5
2012	238	116	18	104	9	3	1	5
2013	140	85	11	44	4	1	1	2
2014	153	91	20	42	2	0	0	2
2015	205	80	16	109	7	3	0	4

Lunenburg **Population: 10,086**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	47	33	7	7	2	1	1	0
2012	58	39	4	15	1	0	1	0
2013	43	20	6	17	2	1	1	0
2014	45	29	5	11	1	0	1	0
2015	41	19	2	20	2	1	0	1

Mendon **Population: 5,839**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	18	7	0	11	1	0	0	1
2012	13	5	2	6	0	0	0	0
2013	15	4	1	10	1	0	0	1
2014	13	6	1	6	0	0	0	0
2015	22	7	1	14	2	1	0	1

Milford **Population: 27,999**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	81	53	3	25	9	3	0	6
2012	112	49	13	50	3	2	0	1
2013	147	48	12	87	2	1	0	1
2014	104	50	11	43	1	1	0	0
2015	99	36	11	52	1	1	0	0

Millbury **Population: 13,261**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	56	32	12	12	2	0	2	0
2012	62	27	7	28	4	1	0	3
2013	48	28	9	11	0	0	0	0
2014	47	23	10	14	3	2	1	0
2015	53	26	7	20	2	1	1	0

Millville **Population: 3,190**

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
2011	16	11	3	2	0	0	0	0
2012	9	6	2	1	0	0	0	0
2013	12	9	0	3	0	0	0	0
2014	7	4	0	3	0	0	0	0
2015	10	3	2	5	0	0	0	0

New Braintree **Population: 999**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Non-Reporting Community							
2012	9	1	0	8	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	1	1	0	0	0	0	0	0

North Brookfield **Population: 4,680**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	31	2	1	28	2	0	0	2
2012	25	6	1	18	2	0	0	2
2013	16	6	2	8	0	0	0	0
2014	10	8	0	2	0	0	0	0
2015	16	7	0	9	2	0	0	2

Northborough **Population: 14,155**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	27	15	4	8	3	1	0	2
2012	48	9	2	37	3	0	0	3
2013	42	12	7	23	5	1	0	4
2014	37	10	7	20	1	1	0	0
2015	37	11	2	24	1	0	0	1

Northbridge **Population: 15,707**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	39	25	4	10	2	0	0	2
2012	53	26	4	23	2	0	0	2
2013	64	34	7	23	2	0	1	1
2014	41	24	3	14	0	0	0	0
2015	56	27	3	26	0	0	0	0

Oakham **Population: 1,902**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	8	4	0	4	1	0	0	1
2012	8	6	0	2	0	0	0	0
2013	6	3	1	2	0	0	0	0
2014	8	7	0	1	0	0	0	0
2015	15	8	3	4	0	0	0	0

Oxford **Population: 13,709**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	53	28	7	18	0	0	0	0
2012	49	25	6	18	6	2	2	2
2013	36	18	7	11	0	0	0	0
2014	43	21	6	16	1	1	0	0
2015	61	25	11	25	4	0	0	4

Paxton **Population: 4,806**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	11	6	3	2	0	0	0	0
2012	19	11	3	5	0	0	0	0
2013	16	13	0	3	0	0	0	0
2014	20	11	5	4	0	0	0	0
2015	16	14	1	1	0	0	0	0

Petersham **Population: 1,234**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Fire Department in Good Standing, Certified No Reportable Fires							
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	Fire Department in Good Standing, Certified No Reportable Fires							
2015	Fire Department in Good Standing, Certified No Reportable Fires							

Phillipston **Population: 1,682**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011[12]	Fire Department in Good Standing, Certified No Reportable Fires							
2012	3	2	0	1	0	0	0	0
2013	1	0	0	1	0	0	0	0
2014	1	1	0	0	0	0	0	0
2015	5	1	0	4	0	0	0	0

Princeton **Population: 3,413**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	19	13	1	5	0	0	0	0
2012	14	6	2	6	1	1	0	0
2013	12	3	1	8	0	0	0	0
2014	17	12	2	3	0	0	0	0
2015	11	5	1	5	0	0	0	0

[12] In 2011 Phillipston reported 19 incidents, none of them fires.

Royalston **Population: 1,258**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1	1	0	0	0	0	0	0
2012	3	3	0	0	0	0	0	0
2013	2	1	1	0	0	0	0	0
2014	9	5	2	2	0	0	0	0
2015	1	1	0	0	0	0	0	0

Rutland **Population: 7,973**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	20	10	4	6	1	1	0	0
2012	19	9	0	10	1	1	0	0
2013	24	13	3	8	1	1	0	0
2014	21	13	2	6	0	0	0	0
2015	19	10	1	8	0	0	0	0

Shrewsbury **Population: 35,608**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	90	57	12	21	3	1	2	0
2012	152	75	8	69	12	2	1	9
2013	118	55	12	51	5	1	1	3
2014	119	64	14	41	5	2	0	3
2015	141	74	16	51	1	0	1	0

Southborough **Population: 9,767**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	26	13	4	9	2	0	0	2
2012	24	8	5	11	3	0	0	3
2013	27	9	6	12	0	0	0	0
2014	16	7	1	8	0	0	0	0
2015	34	6	6	22	1	0	0	1

Southbridge **Population: 16,719**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	64	37	11	16	1	0	0	1
2012	54	29	5	20	1	0	0	1
2013	61	26	8	27	1	1	0	0
2014	41	18	8	15	2	1	0	1
2015	69	40	14	15	3	1	1	1

Spencer **Population: 11,688**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	62	45	7	10	0	0	0	0
2012	104	70	8	26	3	2	0	1
2013	89	59	5	25	0	0	0	0
2014	71	52	7	12	2	1	0	1
2015	67	41	3	23	1	0	0	1

Sterling **Population: 7,808**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	18	7	21	0	0	0	0
2012	44	22	6	16	0	0	0	0
2013	38	14	5	19	0	0	0	0
2014	22	7	6	9	0	0	0	0
2015	28	4	8	16	0	0	0	0

Sturbridge **Population: 9,268**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	46	15	8	23	6	1	0	5
2012	46	11	14	21	5	0	0	5
2013	43	23	10	10	3	0	0	3
2014	42	22	10	10	1	0	0	1
2015	52	15	9	28	2	0	0	2

Sutton **Population: 8,963**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	22	15	2	5	0	0	0	0
2012	13	3	7	3	0	0	0	0
2013	41	20	5	16	0	0	0	0
2014	37	16	5	16	1	0	0	1
2015	47	14	5	28	2	0	0	2

Templeton **Population: 8,013**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	31	25	2	4	1	0	1	0
2012	4	4	0	0	0	0	0	0
2013	Non-Reporting Community							
2014	Non-Reporting Community							
2015	8	5	2	1	0	0	0	0

Upton **Population: 7,542**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	32	15	5	12	5	0	0	5
2012	36	20	0	16	8	0	0	8
2013	28	10	2	16	3	0	0	3
2014	9	2	2	5	0	0	0	0
2015	12	3	4	5	1	0	0	1

Uxbridge **Population: 13,457**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	40	19	10	11	1	1	0	0
2012	60	24	3	33	6	1	1	4
2013	56	23	9	24	4	2	0	2
2014	69	23	9	37	5	0	0	5
2015	33	12	7	14	0	0	0	0

Warren **Population: 5,135**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	16	9	3	4	0	0	0	0
2012	29	12	5	12	1	0	0	1
2013	24	11	4	9	1	1	0	0
2014	18	8	8	2	0	0	0	0
2015	23	9	5	9	1	1	0	0

Webster **Population: 16,767**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	49	16	5	28	4	0	0	4
2012	60	14	5	41	5	0	0	5
2013	47	25	3	19	0	0	0	0
2014	57	31	6	20	3	1	0	2
2015	67	32	8	27	9	3	1	5

West Boylston **Population: 7,669**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	23	5	10	8	1	0	0	1
2012	33	3	6	24	1	0	0	1
2013	24	6	3	15	4	0	0	4
2014	19	6	6	7	2	0	0	2
2015	23	6	8	9	0	0	0	0

West Brookfield **Population: 3,701**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	2	1	1	0	1	1	0	0
2012	2	2	0	0	0	0	0	0
2013	3	3	0	0	0	0	0	0
2014	2	2	0	0	0	0	0	0
2015	2	2	0	0	0	0	0	0

Westborough **Population: 18,272**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	52	35	6	11	1	1	0	0
2012	57	32	7	18	4	2	0	2
2013	52	29	6	17	0	0	0	0
2014	110	82	9	19	0	0	0	0
2015	120	62	12	42	3	0	0	3

Westminster **Population: 7,277**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	27	14	4	9	0	0	0	0
2012	32	14	7	11	1	0	0	1
2013	26	11	8	7	2	0	1	1
2014	34	15	5	14	0	0	0	0
2015	31	13	5	13	1	0	0	1

Winchendon **Population: 10,300**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	42	33	4	5	3	0	1	2
2012	56	28	4	24	2	0	1	1
2013	34	26	5	3	1	1	0	0
2014	38	24	1	13	1	0	0	1
2015	29	23	0	6	0	0	0	0

Worcester **Population: 181,045**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2011	1,374	723	122	529	48	15	7	26
2012	1,587	813	99	675	63	25	8	30
2013	1,454	774	82	598	54	12	4	38
2014	1,273	791	76	406	21	10	6	5
2015	1,510	826	91	593	19	12	6	1

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27011	Ashburnham	226	21	0	43	11	37	27	85	2	0
27015	Athol	1,857	56	3	1,297	67	217	105	101	2	9
27017	Auburn	3,468	94	0	2,455	184	283	184	256	1	11
27021	Barre	270	35	0	126	14	23	35	36	1	0
27028	Berlin	462	34	0	62	31	23	14	92	1	205
27032	Blackstone	437	26	1	159	23	37	62	126	0	3
27034	Bolton	202	22	0	29	22	21	40	66	2	0
27039	Boylston	455	22	0	355	12	19	6	41	0	0
27045	Brookfield	12	7	0	3	0	0	1	1	0	0
27054	Charlton	2,028	84	3	1,378	167	124	112	154	1	5
27064	Clinton	1,895	75	7	1,137	76	146	46	389	1	18
27077	Douglas	287	50	0	75	17	46	28	67	1	3
27080	Dudley	457	68	2	89	28	36	74	154	4	2
27084	East Brookfield	102	23	0	17	28	5	10	14	0	5
27097	Fitchburg	4,815	522	4	2,034	187	564	479	1,019	0	6

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27103	Gardner	5,931	210	2	3,677	134	729	228	467	0	484
27110	Grafton	278	35	2	22	28	42	32	116	0	1
27124	Hardwick	10	5	0	2	0	0	1	2	0	0
27125	Harvard	278	41	1	48	29	46	38	73	1	1
27134	Holden	1,998	41	3	1,501	37	102	99	215	0	0
27138	Hopedale	780	31	0	531	35	110	15	54	0	4
27140	Hubbardston	615	23	2	413	16	68	40	52	0	1
27147	Lancaster	872	19	0	605	19	49	52	110	0	18
27151	Leicester	165	31	2	10	23	35	4	59	0	1
27153	Leominster	7,855	216	1	5,700	252	460	276	752	1	197
27162	Lunenburg	468	51	1	84	48	82	35	155	0	12
27179	Mendon	834	22	0	594	18	51	58	90	0	1
27185	Milford	4,817	119	1	3,139	205	645	218	474	0	16
27186	Millbury	295	64	5	15	31	20	30	129	0	1
27188	Millville	344	18	0	207	11	34	55	19	0	0

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27202	New Braintree	7	1	0	1	2		1	1	0	1
27212	North Brookfield	146	34	0	23	26	14	1	41	0	7
27215	Northborough	2,051	48	0	1,277	65	244	127	289	1	0
27216	Northbridge	866	65	0	224	100	72	139	265	1	0
27222	Oakham	223	27	0	138	9	13	21	15	0	0
27226	Oxford	671	61	0	161	52	104	92	193	6	2
27228	Paxton	587	36	0	442	15	18	13	61	0	2
27234	Petersham*	0	0	0	0	0	0	0	0	0	0
27235	Phillipston	69	20	0	6	13	10	8	10	0	2
27241	Princeton	320	12	0	183	13	25	23	62	2	0
27255	Royalston	1	1	0	0	0	0	0	0	0	0
27257	Rutland	1,096	21	0	794	27	77	77	99	1	0
27271	Shrewsbury	3,893	141	4	2,659	216	216	92	546	3	16
27277	Southborough	1,356	44	3	753	58	138	95	265	0	0
27278	Southbridge	812	95	0	249	72	82	78	216	0	20

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.

Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27280	Spencer	309	78	0	15	52	52	25	79	1	7
27282	Sterling	1,218	56	1	762	15	148	118	114	4	0
27287	Sturbridge	1,825	61	6	1,168	52	253	89	190	0	6
27290	Sutton	438	78	2	207	17	22	26	86	0	0
27294	Templeton	8	8	0	0	0	0	0	0	0	0
27303	Upton	323	18	1	26	89	77	17	96	0	0
27304	Uxbridge	652	43	2	110	62	156	102	174	3	0
27311	Warren	185	29	0	35	29	34	18	40	0	0
27316	Webster	642	74	1	70	111	77	61	233	0	15
27321	West Boylston	812	30	4	555	32	73	33	84	0	1
27323	West Brookfield	2	2	0	0	0	0	0	0	0	0
27328	Westborough	3,213	139	8	2,093	167	189	138	462	2	15
27332	Westminster	1,223	31	0	680	49	173	85	192	0	13
27343	Winchendon	1,814	29	1	1,281	51	154	134	155	3	6
27348	Worcester	32,079	1,511	47	22,779	998	1,342	2,164	3,214	3	21
Total	**Worcester County**	**99,354**	**4,858**	**120**	**62,498**	**4,145**	**7,817**	**6,181**	**12,550**	**48**	**1,138**

* Certified no reportable fires.
**Non reporting department.

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.