

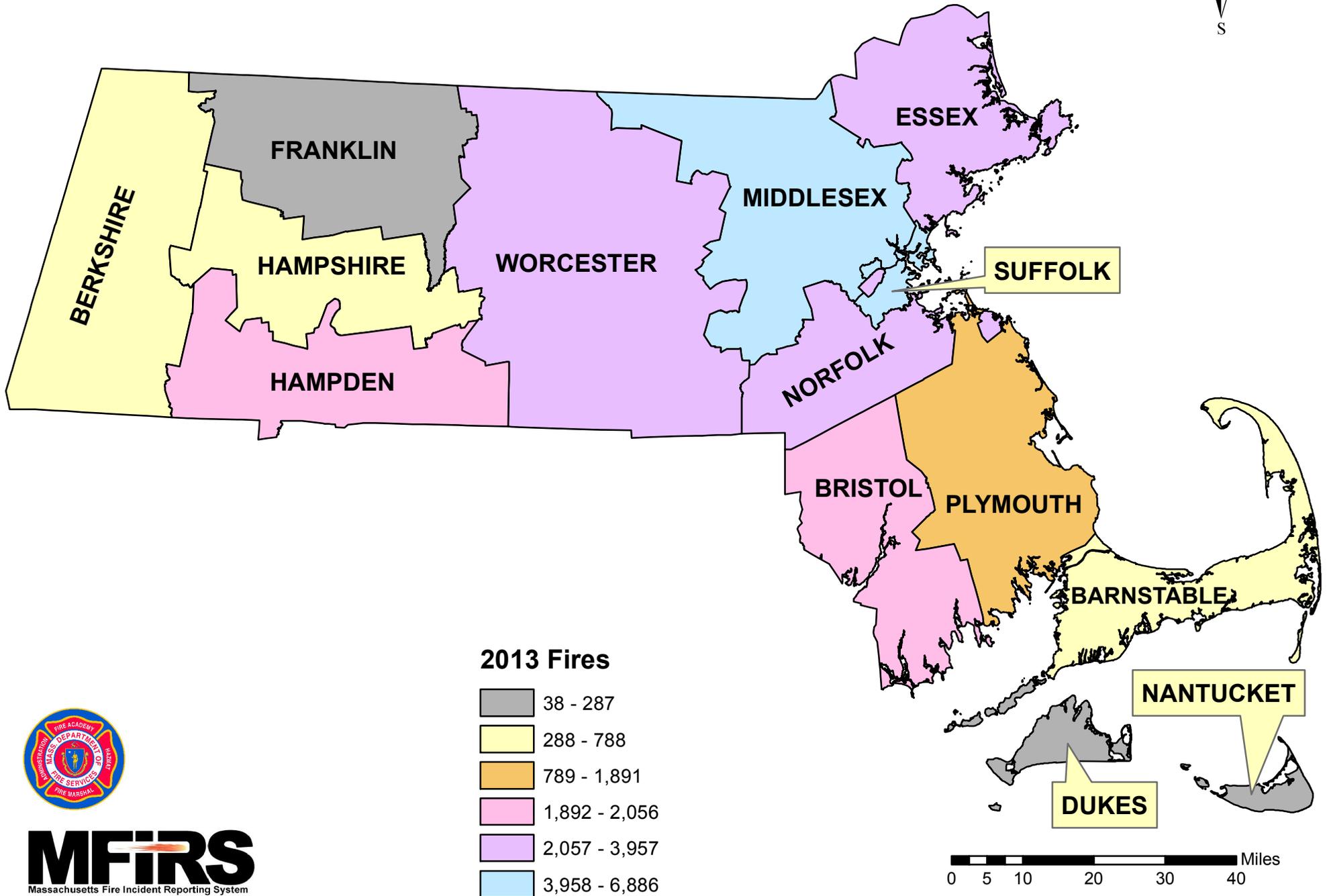


County Profiles

2013 Fire Data Analysis

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

2013 Fires in Massachusetts Counties



MFIRS
Massachusetts Fire Incident Reporting System

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2013 Fires By County

County	Total				Civilian		Fire Service		Dollar Loss
	Fires	Structure Fires	Vehicle Fires	Other Fires	Deaths	Injuries	Deaths	Injuries	
Barnstable	788	390	89	309	0	43	0	9	\$7,503,850
Berkshire	480	294	38	148	0	11	0	18	6,616,515
Bristol	2,006	897	269	840	4	36	0	26	16,459,841
Dukes	38	15	7	16	0	0	0	0	64,750
Essex	2,950	1,511	268	1,171	6	35	0	73	21,987,364
Franklin	287	140	32	115	5	2	0	2	2,017,070
Hampden	2,056	1,087	240	729	8	33	0	53	19,258,956
Hampshire	511	244	42	225	1	9	0	19	6,194,238
Middlesex	5,052	2,999	428	1,625	5	41	0	71	45,147,639
Nantucket	43	36	0	7	0	0	0	1	2,636,900
Norfolk	2,883	1,799	238	846	1	13	0	41	15,564,682
Plymouth	1,891	823	230	838	2	36	0	32	17,793,818
Suffolk	6,886	4,992	349	1,545	5	26	0	66	54,178,816
Worcester	3,957	2,126	357	1,474	7	38	0	67	29,173,500
Total	29,828	17,353	2,587	9,888	44	323	0	478	\$244,597,939

2013 Arsons By County

County	Total				Civilian		Fire Service		Dollar Loss
	Arsons	Structure Arsons	Vehicle Arsons	Other Arsons	Deaths	Injuries	Deaths	Injuries	
Barnstable	44	7	0	37	0	3	0	0	\$109,350
Berkshire	13	6	0	7	0	2	0	1	561,050
Bristol	90	31	4	55	0	0	0	4	1,003,500
Dukes	1	0	0	1	0	0	0	0	0
Essex	110	21	10	79	0	1	0	2	151,986
Franklin	20	1	0	19	0	1	0	1	550,000
Hampden	60	13	19	28	1	0	0	6	687,930
Hampshire	33	5	0	28	0	1	0	0	252
Middlesex	109	33	11	65	0	0	0	2	1,117,798
Nantucket	0	0	0	0	0	0	0	0	0
Norfolk	59	6	4	49	0	0	0	0	421,354
Plymouth	73	12	8	59	0	0	0	3	376,751
Suffolk	151	31	8	112	2	0	0	10	938,410
Worcester	139	29	11	99	1	1	0	1	690,279
Total	902	195	75	632	4	9	0	30	\$6,608,710

2013 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	788	3.7	0	0.0	0.00	44	0.2
Berkshire	131,219	480	3.7	0	0.0	0.00	13	0.1
Bristol	548,285	2,006	3.7	4	2.0	0.07	90	0.2
Dukes	16,535	38	2.3	0	0.0	0.00	1	0.1
Essex	743,159	2,950	4.0	6	2.0	0.08	110	0.1
Franklin	71,372	287	4.0	5	17.4	0.70	20	0.3
Hampden	463,490	2,056	4.4	8	3.9	0.17	60	0.1
Hampshire	158,080	511	3.2	1	2.0	0.06	33	0.2
Middlesex	1,503,085	5,052	3.4	5	1.0	0.03	109	0.1
Nantucket	10,172	43	4.2	0	0.0	0.00	0	0.0
Norfolk	670,850	2,883	4.3	1	0.3	0.01	59	0.1
Plymouth	494,919	1,891	3.8	2	1.1	0.04	73	0.1
Suffolk	722,023	6,886	9.5	5	0.7	0.07	151	0.2
Worcester	798,552	3,957	5.0	7	1.8	0.09	139	0.2
Massachusetts	6,547,629	29,828	4.6	44	1.5	0.07	902	0.1

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

2013 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	36,527	41	24,258	1,942	3,105	1,464	5,471	130	116
Berkshire	11,606	14	6,672	698	1,444	603	2,101	17	57
Bristol	55,808	44	35,690	2,721	3,592	3,645	9,646	90	380
Dukes	436	0	47	54	40	55	238	0	2
Essex	93,111	94	52,560	4,000	12,790	6,341	16,456	65	805
Franklin	4,836	15	2,571	498	488	408	810	22	24
Hampden	44,621	88	26,466	1,837	3,376	5,152	7,492	13	197
Hampshire	13,389	47	8,497	641	807	787	2,504	11	95
Middlesex	148,831	132	85,239	8,876	14,966	9,283	25,153	90	5,092
Nantucket	2,673	3	1,244	251	174	83	911	1	6
Norfolk	82,242	131	49,398	4,857	7,878	5,394	12,634	93	1,857
Plymouth	76,851	94	48,638	5,276	7,061	5,354	9,744	403	281
Suffolk	91,097	76	50,489	4,480	12,114	7,399	16,180	15	344
Worcester	80,144	89	51,717	3,690	6,358	5,354	11,739	62	1,135
Massachusetts	742,172	868	443,486	39,821	74,193	51,322	121,079	1,012	10,391

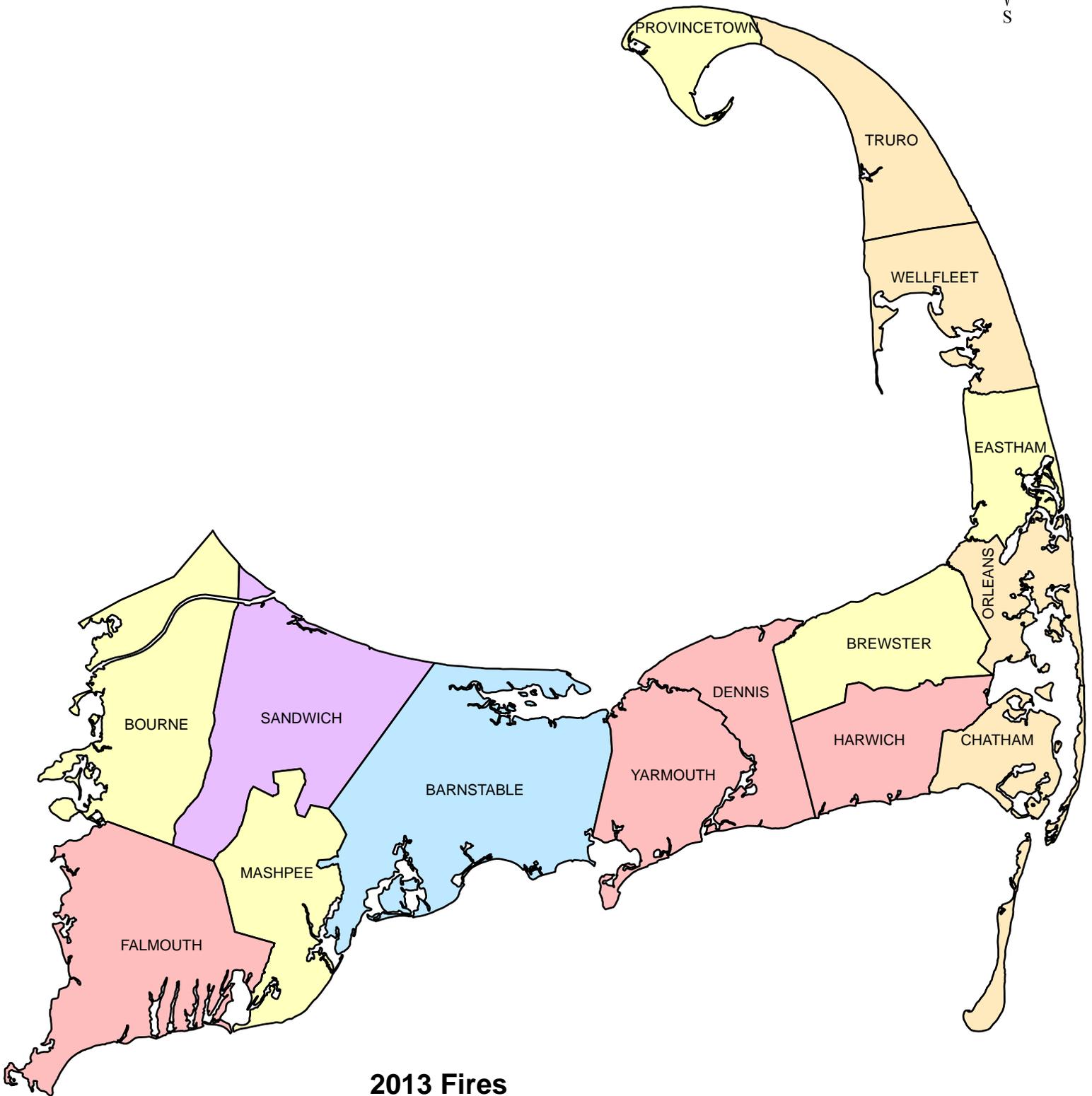
¹ WX is the abbreviation for Weather.



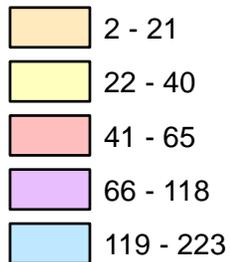
Barnstable County

2013 Fire Data Analysis

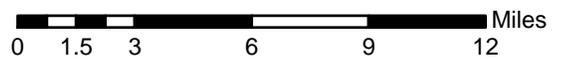
Barnstable County Fires 2013



2013 Fires



MFIRS
Massachusetts Fire Incident Reporting System



Massachusetts Fire Incident Reporting System 2013

Barnstable County Fires in 2013

788 Total Fires — 390 Structures, 89 Vehicles & 309 Other Fires

Barnstable County ranked ninth out of the 14 Massachusetts counties in total reported fires. Barnstable County fire departments reported 788 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 390 structure fires, 89 motor vehicle fires, 183 brush, tree, or lawn fires, 69 outside rubbish fires, 30 special outside fires, and 27 unclassified fires caused 43 civilian injuries, nine fire service injuries and an estimated dollar loss of \$7.5 million. Barnstable County's fires accounted for 3% of the 29,828 Massachusetts fires reported in 2013.

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 2013.

Structure Fires Up

The total number of reported fire incidents decreased by 112 from the 900 reported in 2012. Reported structure fires increased by 30 from the 360 reported during the previous year. Motor vehicle fires decreased by 28 from the 117 reported during 2012. Outside and other fires decreased by 114 from the 423 reported the year before.

BARNSTABLE COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	888	459	140	289	66	16	3	47
2010	960	422	103	435	63	7	6	50
2011	914	413	110	391	56	8	1	47
2012	900	360	117	423	47	9	5	333
2013	788	390	89	309	44	7	0	37

Fire and Fire Death Rates

Barnstable County had 3.7 fires per 1,000 population. That figure ranks Barnstable County tied for ninth in the state and below the state rate of 4.6 fires per 1,000 population. Barnstable County also had 0 fire deaths per 10,000 population, ranking it tied for eleventh and below the state rate of 0.07 fire deaths per 10,000 population.

No Fatal Fires in Barnstable County Fires

In 2013, Barnstable County did not have any fatal fires or accompanying fire deaths.

Falmouth Has Barnstable County's Largest Loss Fire

In 2013 Barnstable County did not have any large loss fires over \$1 million in estimated damages. Falmouth had the fire with the most estimated damages, which was 8% of the county's total dollar loss.

- On March 2, 2013, at 10:50 a.m., the Falmouth Fire Department responded to a fire of undetermined cause in a single-family home. No one was injured at this fire. It was undetermined if detectors were present. The building was not equipped with

sprinklers. Damages were estimated to be \$575,000. The fire also spread to a boat and damages were estimated to be \$1,000..

STRUCTURE FIRES

Reported Structure Fires Up

The 390 structure fires caused 37 civilian injuries, seven fire service injuries and an estimated dollar loss of \$6.7 million. These incidents represented 49% of Barnstable County's reported fires in 2013. The average estimated dollar loss per structure fire was \$17,299. The total number of reported structure fires increased by 30, or 8%, from the 360 reported in 2012.

Arson Caused 2% of Structure Fires

The seven structure arsons caused one civilian injury and an estimated dollar loss of \$109,000. Arson was indicated as the cause of 2% of the structure fires and 2% of Barnstable County's structure fire dollar loss. The seven structure arsons accounted for 16% of the Barnstable County arson fires reported in 2013. The total number of reported structure arsons decreased by two from the nine reported in 2012.

71% of Structure Arsons Occurred in Residences

Seventy-one percent (71%) of Barnstable County's seven structure arsons occurred in residential occupancies; 14% happened in storage properties; and 14% occurred in mercantile or business properties.

BUILDING FIRES

There were 387 building fires of different types in Barnstable County in 2013. These 387 building fires accounted for 99.2% of all building fires in Barnstable County.

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

Three hundred and twenty-five (325), or 85%, of Barnstable County's 387 building fires occurred in residential occupancies. Mercantile and business properties had 26 fires. Seventeen (17) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced six fires. Five (5) fires took place in storage properties. Four (4) fires took place in an educational facility. One (1) fire took place in a manufacturing or processing facility; and three fires took place in unclassified properties in Barnstable County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Are Up

There were 325 reported residential building fires in Barnstable County in 2013. These 325 fires are an increase of 37, or 13%, from the 288 residential building fires reported in 2012.

1- & 2-Family Homes Accounted for 80% of Residential Building Fires

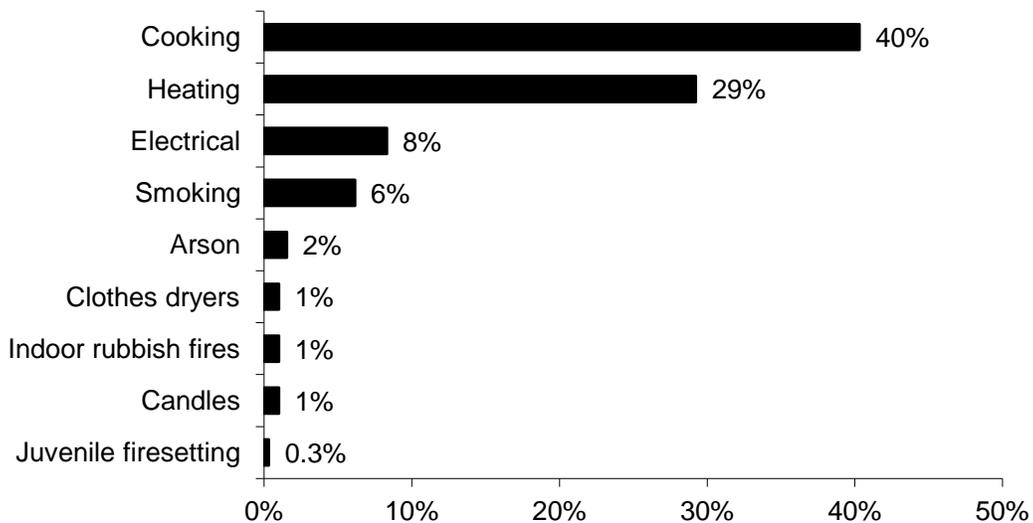
The peak fixed property use for residential building fires were one- or two-family homes, accounting for 80% of the building fires in Barnstable County; 12% occurred in

apartments; 4% happened in hotels or motels; 1% occurred in residential board and care facilities; 1% happened in dormitories; and another 1% occurred in rooming houses. 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 40% of the fires. Heating fires accounted for 29% of the fires in people’s homes in 2013; 52% involved a chimney or flue and 37% involved a fuel burner or boiler. Electrical problems caused 8% of fires in residential buildings. Smoking caused 6% of these fires. Arson was responsible for 2%. Clothes dryers, indoor rubbish fires and candles each accounted for 2%. Juvenile set fires caused less than 1% of the fires in Barnstable County in 2013.

2013 Leading Causes of Fires in Barnstable County Homes



58% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One hundred and eighty-seven (187), or 58%, of all residential building fires were reported as confined to non-combustible containers in 2013. One hundred and ten (110), or 34%, of all residential building fires reported in 2013 were cooking fires contained to a non-combustible container. Forty-four (44) of the reported fires were confined to a chimney, accounting for 14% of residential building fires. Twenty-nine (29), or 9%, were

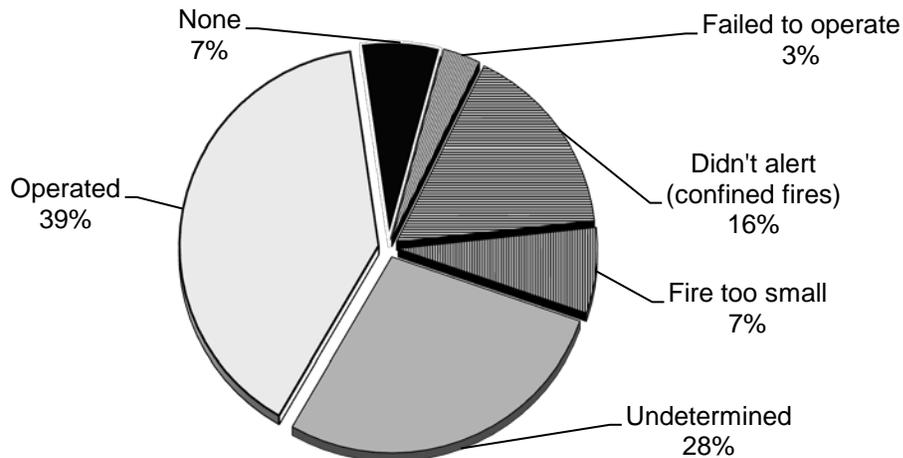
¹ In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

fires confined to a fuel burner or boiler malfunction. Three (3), or 1%, of these fires were rubbish fires contained to a non-combustible container; and one, or less than 1% was confined to a commercial compactor in Barnstable County in 2013.

Detectors Alerted Occupants in Only 39% of Fires

Smoke or heat detectors operated and alerted the occupants in 128, or 39%, of the residential building fires. In 16% of these fires², the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. In 7% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 7% of the residential fires. Smoke detector performance was undetermined in 91 incidents, or 28%, of Barnstable County’s residential building fires.

Detector Status in Barnstable County's Residential Structure Fires 2013



Over Half of Detectors Failed from Missing or Disconnected Batteries

Of the nine fires where smoke detectors were present but failed to operate, five, or 56%, failed because of missing or disconnected batteries, One (1) failed because its battery was dead and another failed because the power was shut-off or disconnected. It was undetermined in two cases, or 22%, why the detector failed.

VACANT BUILDINGS

5% of Building Fires Occurred in Vacant Buildings

Barnstable County reported 21 fires that occurred in buildings that were vacant, under construction or demolition. This represented 5% of the total 387 building fires reported to MFIRS in 2013. Seventeen (17) one- or two-family homes, one apartment building, one

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

grocery store, one residential or self storage unit, and one outbuilding or shed were reported as vacant building fire incidents.

Three (3), or 16%, of the vacant building fires in Barnstable County in 2013 were determined to be intentionally set. Two (2) of these fires occurred in one- or two-family homes and one in a residential or self storage unit.

JUVENILE-SET FIRES

6 Juvenile-set Fires

There were six reported juvenile-set fires in Barnstable County in 2013. There were two brush fires, two outside rubbish fires, one structure fire, and one special outside fire. These six fires accounted for \$160.

ARSONS

44 Total Arsons — 7 Structures, 0 Vehicle & 37 Other Arsons

Forty-four (44), or 6%, of Barnstable County's 788 fires were considered intentionally set, or, for purposes of this analysis, arson. The seven structure arsons, and 37 outside and other arsons caused three civilian injuries and an estimated dollar loss of \$109,350.

All Arson Down Slightly in 2013

The total number of reported arson fires decreased by three, or 6%, from the 47 reported in 2012. Reported structure arsons decreased by two from the nine reported in 2012. Motor vehicle arsons decreased by five from the five reported in 2012. Reported outside and other arsons increased by four from the 33 reported in 2012.

ALL INCIDENTS

Rescue & EMS Calls Are 65% of All Reported Incidents

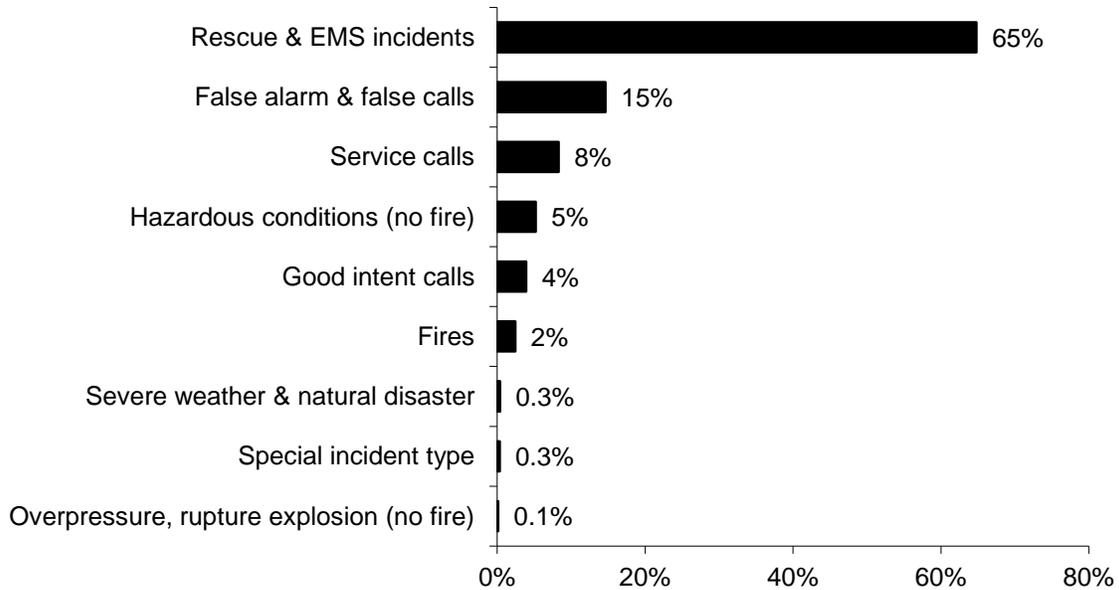
In 2013, Barnstable County fire departments reported 37,440 responses³ to MFIRS. Of these 37,440 incidents, 36,527 non-fire calls were voluntarily reported.

Of these 36,527 non-fire calls, 24,258, or 65% of all of the responses reported in 2013 were reported rescue and emergency medical services (EMS) calls; 5,471, or 15%, were reported false alarm or false calls; 3,105, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,942, or 5%, were reported hazardous condition calls with no fire; 1,464, or 4%, reported good intent calls; 130, or 0.3%, were severe weather responses; 116, or 0.3%, were special incident type calls such as citizen complaints; and 41, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Nine hundred and thirteen (913), or 2%, of the total responses submitted by Barnstable County fire departments were fires.

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

2013 Responses by Incident Type



Barnstable County Departments Gave Aid 1,332 Times

In 2013, Barnstable County fire departments reported coming to the aid of other fire departments 1,332 times. Of these 1,332 responses, 743, or 56%, were for rescue or EMS incidents; 204, or 15%, were for service calls such as cover assignments; 184, or 14%, were for good intent calls; 127, or 10%, were for fires; 36, or 3%, were for hazardous conditions calls with no fire; 24, or 2%, were for false alarms or false calls; and 14, or 1%, were special incident types.

Barnstable County Received Mutual Aid in 892 Incidents

In 2013, Barnstable County fire departments received aid from surrounding departments in 892 incidents. Of these 892 incidents, 671, or 75%, were rescue and emergency medical services calls; 106, or 12%, were for fires; 37, or 4%, were false alarms or false calls; 37, or 4%, were hazardous conditions calls with no fire; 23, or 3%, were good intent calls; 16, or 2%, were service calls; one, or 0.1%, was a severe weather or natural disaster call; and one, or 0.31%, was an overpressure, rupture, explosion or overheat call with no fire.

Barnstable County**Population: 215,888****3.7 Fires/1,000 Population****Total Fires: 788 \$7,503,850**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	390	49%	\$6,746,491
Vehicle Fires	89	11%	718,840
Other Fires	309	39%	38,519

0 Fatal Fires	0 Civilian Deaths/1,000 Fires
0 Civilian Deaths	0 Civilian Deaths/10,000 Population
43 Civilian Injuries	9 Fire Service Injuries

Building Fires: 387**Residential Structure Fires: 325****Residential Structure Fires Confined to Non-Combustible Containers: 187****Unconfined Residential Structure Fires: 138**

34 Civilian Injuries 7 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	260	80%	Operated	128	39%
Apartments	38	12%	Didn't operate	10	3%
Hotels or motels	13	4%	None	21	6%
Rooming houses	4	1%	Fire too small	23	7%
Residential board & care	3	1%	Didn't Alert (confined)	52	16%
Dormitories	2	1%	Undetermined	91	28%

Area of Origin⁴	%	Heat Source	%	% Unconfined⁵
Kitchen	42%	Arcing	6%	13%
Chimney or flue	14%	Heat from operating eq.	5%	11%
Heating room or area	10%	Radiated heat/oper. eq.	3%	8%
Living room	4%	Spark/ember/flame/oper. eq.	3%	7%
Bedroom	3%	Hot or smoldering object	2%	7%
Wall surface, exterior	3%	Hot ember or ash	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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	37%	Too close to combustibles	5%	11%
Film, residue (creosote)	14%	Abandoned materials	4%	10%
Flammable or comb. liquid	9%	Misuse of materials, other	2%	4%
Electrical wire, cable insulation	3%	Unspec. Short-circuit arc	2%	4%
Structural member, framing	3%	Electrical failure, malfunc.	1%	3%

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	37%	Unintentional	23%	54%
None	29%	Failure of eq. or heat source	8%	20%
Chimney or flue	14%	Intentional	2%	4%
Boiler, furnace, cent. heat unit	9%	Act of nature	1%	2%
Clothes dryer	1%	Undetermined	3%	8%
		Cause Under Investigation	6%	13%

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

Alerted Occupants	43%
Didn't Alert Occupants	28%
Undetermined	29%

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	56	38	10	8
February	65	44	7	14
March	53	27	5	21
April	98	31	15	52
May	63	8	8	37
June	69	34	5	30
July	80	35	5	40
August	72	38	11	23
September	59	28	6	25
October	70	35	2	33
November	56	28	7	21
December	47	34	8	5

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	144	75	9	60
Monday	106	49	20	37
Tuesday	112	55	13	44
Wednesday	103	45	10	48
Thursday	93	46	11	36
Friday	99	50	12	37
Saturday	131	70	14	47

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	52	30	8	13
04:01 - 08:00	64	44	5	15
08:01 - 12:00	138	63	18	57
12:01 - 16:00	199	78	20	101
16:01 - 20:00	227	125	21	81
20:01 - 24:00	108	50	16	42

Motor Vehicle Fires

Total: 89

Automobiles: 75 (84%)

0 (0%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 44

Dollar loss: \$109,350

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	7	2%	16%	\$109,000
Vehicle Arsons	0	0%	%	0
Other Arsons	37	12%	84%	350

0.03 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.17 Other arsons/1,000 population

3 Civilian Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
00:01 - 04:00	2	29%			
04:01 - 08:00	2	29%			
16:01 - 00:00	2	29%			

Other Arsons	#	%
12:01 - 16:00	9	24%
20:01 - 00:00	8	22%
16:01 - 20:00	7	19%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	5	71%
Motor vehicle or boat sales, service, repair	1	14%
Residential or self storage units	1	14%

Town of Barnstable Fire Districts**Population: 45,193*****Barnstable******Est Pop. Protected: 3,164***

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
2009	19	3	9	7	0	0	0	0
2010	35	12	4	19	8	2	0	6
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

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

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	69	39	10	20	3	0	0	3
2010	85	49	12	24	9	2	1	5
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

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

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	1	1	0	0	0	0	0	0
2010	Non-reporting department							
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

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

	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	118	55	14	49	19	6	1	12
2010	125	42	14	69	1	0	0	1
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

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

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	12	8	3	1	0	0	0	0
2010	14	10	0	4	1	0	0	1
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

Bourne**Population: 19,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	104	43	21	40	17	2	0	15
2010	104	33	16	55	14	0	0	14
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

Brewster**Population: 9,820**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	53	32	2	19	5	0	1	4
2010	60	23	6	31	4	0	0	4
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

Chatham**Population: 6,125**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	22	11	4	7	1	0	0	1
2010	23	12	2	12	0	0	0	0
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

Dennis					Population: 14,207			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	56	24	7	25	1	0	0	1
2010	62	19	5	38	1	0	0	1
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

Eastham					Population: 4,956			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	14	0	7	0	0	0	0
2010	25	11	1	13	0	0	0	0
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

Falmouth					Population: 31,531			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	52	20	14	18	2	2	0	0
2010	69	38	8	23	7	0	1	6
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

Harwich					Population: 12,243			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	44	25	5	14	1	1	0	0
2010	58	26	7	25	1	1	0	0
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

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
2009	7	1	2	4	2	0	0	2
2010	12	3	1	8	4	0	0	4
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

Mashpee Population: 14,006

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	42	23	7	12	0	0	0	0
2010	68	25	9	34	5	0	2	3
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

Orleans Population: 5,890

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	29	14	5	10	1	0	0	1
2010	48	16	1	31	0	0	0	0
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

Provincetown Population: 2,942

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	28	21	3	4	0	0	0	0
2010	39	25	2	12	0	0	0	0
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

Sandwich**Population: 20,675**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	110	81	17	12	4	3	0	1
2010	100	59	11	30	5	2	2	1
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

Truro**Population: 2,003**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	2	1	1	0	0	0	0
2010	3	2	1	0	0	0	0	0
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

Wellfleet**Population: 2,750**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	5	1	5	0	0	0	0
2010	20	11	2	7	0	0	0	0
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

Yarmouth**Population: 23,793**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	81	32	15	34	10	2	1	7
2010	3	2	1	0	1	0	1	0
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

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	1,144	29	0	654	65	123	46	217	7	3
01036	Bourne	1,835	32	4	1,342	74	99	64	215	0	5
01041	Brewster	1,782	54	5	1,024	114	165	83	298	29	10
01055	Chatham	2,573	26	3	1,671	144	213	164	348	3	1
01921	Cotuit	1	1	0	0	0	0	0	0	0	0
01920	C.O.M.M.	4,367	78	5	3,062	162	240	123	666	9	22
01075	Dennis	4,582	82	5	3,154	264	405	121	531	11	9
01086	Eastham	1,726	37	0	1,279	68	111	56	166	4	5
01096	Falmouth	162	65	1	2	21	9	5	59	0	0
01126	Harwich	3,693	56	0	2,646	185	282	144	369	4	7
01922	Hyannis	1,258	115	11	63	205	162	96	591	2	13
01936	Joint Base Cape Cod	800	15	0	78	140	255	7	305	0	0
01172	Mashpee	3,274	51	1	2,156	127	287	158	489	3	2
01224	Orleans	2,520	26	0	1,907	68	140	58	278	23	20
01242	Provincetown	148	30	0	9	20	9	15	65	0	0
01261	Sandwich	3,863	123	1	2,644	162	319	172	414	15	13
01300	Truro	2	2	0	0	0	0	0	0	0	0
01318	Wellfleet	1,128	18	0	739	40	147	65	118	1	0
01923	West Barnstable	609	21	0	400	32	47	26	68	15	0
01351	Yarmouth	1,973	52	5	1,428	51	92	61	274	4	6
Total	Barnstable County	37,440	913	41	24,258	1,942	3,105	1,464	5,471	130	116

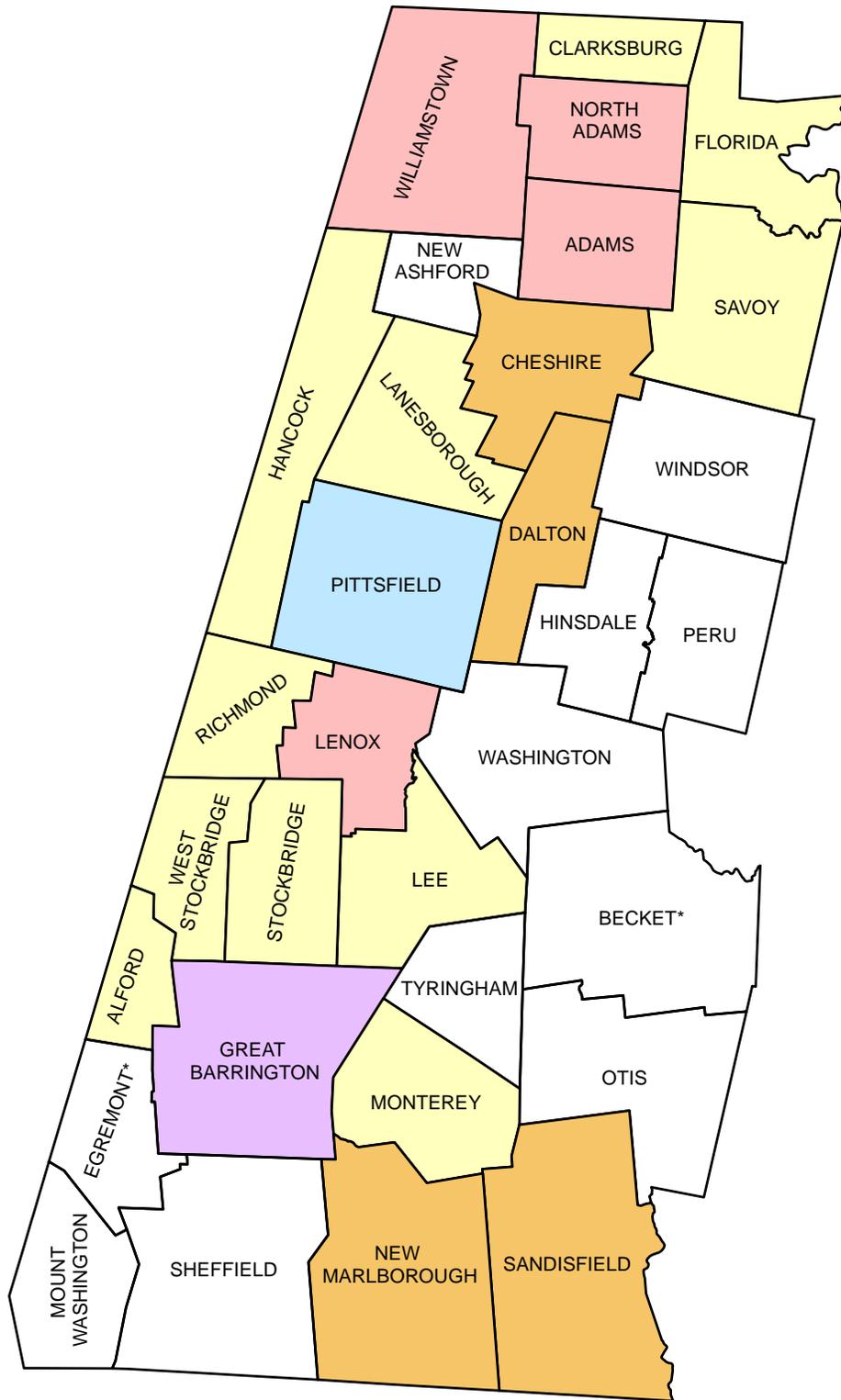
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



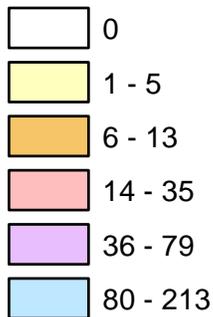
Berkshire County

2013 Fire Data Analysis

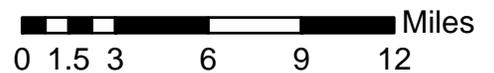
Berkshire County Fires 2013



2013 Fires



*Non-reporting Department



Berkshire County Fires in 2013

480 Total Fires — 294 Structures, 38 Vehicles & 148 Outside and Other Fires

Berkshire County ranked eleventh out of the fourteen Massachusetts counties in total reported fires. Berkshire County fire departments reported 480 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 294 structure fires, 38 motor vehicle fires, 70 brush, tree or lawn fires, 37 outside rubbish fires, 19 special outside fires, two cultivated vegetation or crop fires and 20 other fires caused 11 civilian injuries, 18 fire service injuries and an estimated dollar loss of \$6.6 million. Berkshire County's fires accounted for 2% of the 29,828 Massachusetts fires reported in 2013.

Twenty-nine (29) 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 2013.

Structure & Outside & Other Fires Down

The total number of reported fire incidents decreased by 126 from the 606 reported in 2012. Reported structure fires decreased by 56 from the 350 reported during the previous year. Motor vehicle fires increased by four from the 34 reported in 2012. Outside and other fires decreased by 74 from the 222 reported in 2012.

BERKSHIRE COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	668	412	60	196	44	18	6	20
2010	609	355	47	207	42	8	4	30
2011	551	340	47	164	26	11	3	12
2012	606	350	34	222	25	6	0	19
2013	480	294	38	148	13	6	0	7

Fire and Fire Death Rates

Berkshire County had 3.7 fires per 1,000 population. That figure ranks Berkshire County fifth in the state and below the state rate of 4.6 fires per 1,000 population. Berkshire County also had 0 fire deaths per 10,000 populations ranking it tied for eleventh among Massachusetts counties and below the state rate of 0.07 fire deaths per 10,000 population.

0 Berkshire County Resident Died in a Fire

There were no fatal fires in Berkshire County in 2013.

Pittsfield Had Berkshire County's Largest Loss Fire

- On May 24, 2013, at 1:41 p.m., the Pittsfield Fire Department was called to a fire of undetermined cause in a bakery. The fire started inside a first floor machinery room. No one was injured at this fire. It was undetermined if detectors were present. The building was not sprinklered. Damages from this fire were estimated to be \$1.3 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 294 structure fires caused 10 civilian injuries, 18 fire service injuries and an estimated dollar loss of \$6.4 million. These incidents represented 61% of Berkshire County's reported fires in 2013. The average estimated dollar loss per structure fire was \$21,894. The total number of reported structure fires decreased by 56 or 16%, from the 350 reported in 2012.

Arson Caused 2% of Structure Fires

The six structure arsons caused two civilian injuries, one fire service injury and an estimated dollar loss of \$561,050. Arson was indicated as the cause of 2% of the structure fires and 9% of Berkshire County's structure fire dollar loss. The six structure arsons accounted for 46% of the Berkshire County arson fires reported in 2013. The total number of reported structure arsons increased by one from the six reported in 2012.

83% of Structure Arsons Occurred in Residences

Five (5), or 83%, of Berkshire County's six structure arsons occurred in residential occupancies. One (1) arson occurred in a manufacturing or processing facility in 2013.

BUILDING FIRES

There were 291 building fires of different types in Berkshire County in 2013. These 291 building fires accounted for 99% of all structure fires in Berkshire County.

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

Two hundred and forty-three (243), or 84%, of Berkshire County's 291 building fires occurred in residential occupancies. Fourteen (14) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 12 fires. Storage facilities had eight fires. Hospitals, prisons, and other institutional buildings experienced five fires. Four (4) fires occurred at educational facilities. Industrial facilities and special properties, such as outbuildings or sheds, each had two fires in Berkshire County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Down

There were 243 reported residential building fires in Berkshire County in 2013. These 243 fires are a decrease of 52, or 18%, from the 295 residential building fires reported in 2012.

1- & 2-Family Homes Accounted for 60% of Residential Building Fires

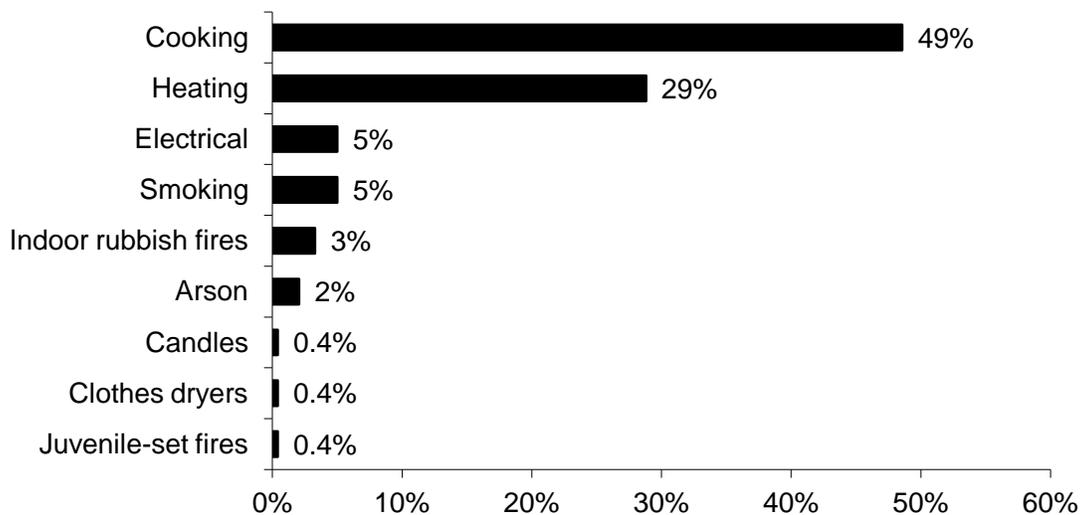
The peak fixed property uses for residential building fires were one- or two-family homes, accounting for 60% of the building fires in Berkshire County; 30% occurred in

apartments; 4% happened in dormitories; 2% occurred in hotels or motels; 1% occurred in residential board and care facilities; and less than 1% happened in rooming houses. Six (6), or 2%, of the building fires in Berkshire County occurred in unclassified residential buildings.

Unattended Cooking Causes Almost 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 49% of the fires. Heating caused 29% of the residential building fires; of which 38, or 54%, were caused by chimney, fireplace or flue fires. Smoking and electrical fires each caused 5% of the fires. Indoor rubbish fires caused 3%. Arsons caused 2%; and candles, clothes dryers and juvenile-set fires were each responsible for 0.4% of Berkshire County's residential building fires in 2013.

2013 Leading Causes of Fires in Berkshire County Homes



70% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One hundred and seventy-one (171), or 70%, of these fires were confined to a non-combustible container. One hundred and six (106), or 44%, of all residential building fires reported in 2013 were cooking fires contained to a non-combustible container. Thirty-seven (37) of the reported fires were confined to a chimney accounting for 15% of residential building fires. Fires confined to a fuel burner or boiler malfunction accounted

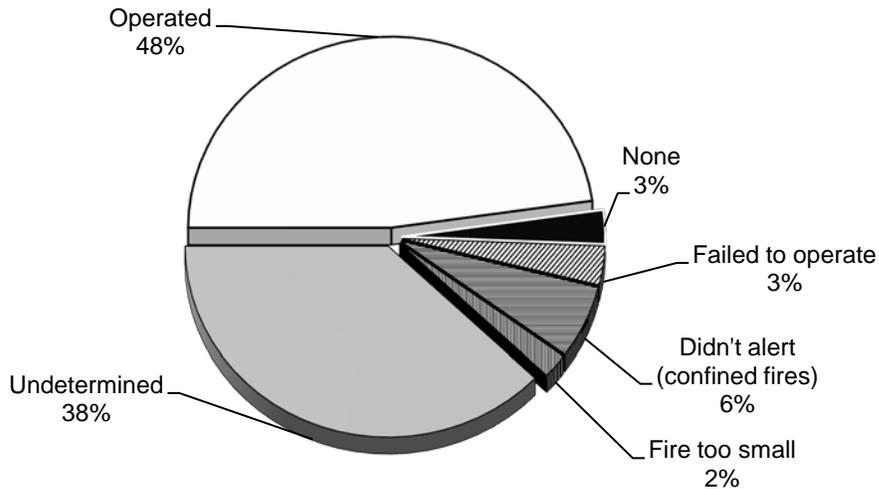
¹ In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

for 19, or 8% of these fires. Eight (8), or 3%, of these fires in Berkshire County in 2013 were indoor rubbish fires; and there was one fire confined to a commercial compactor accounting for less than 1% of these fires.

Detectors Undetermined in 38% of Fires

Smoke or heat detectors operated and alerted the occupants in 116, or 48%, of the residential building fires. In 6% of these fires², the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. 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 92 incidents, or 38%, of Berkshire County’s residential building fires.

Detector Status in Berkshire County's Residential Structure Fires 2013



2 Failed Detectors Had Missing or Dead Batteries

Of the eight fires where smoke detectors were present but failed to operate, two, or 25%, failed because the battery was either missing or disconnected. It was undetermined why the other six detectors, or 75%, failed to operate.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings

Berkshire County reported five fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 291 building fires reported to MFIRS in 2013. Two (2) one- or two-family homes, one outbuilding or shed, one

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

clubhouse and one unclassified mercantile business were reported as vacant building fire incidents.

One (1), or 20%, of the vacant building fires in Berkshire County in 2013 were determined to be intentionally set. One (1) of these fires was in an a single-family residence.

JUVENILE-SET FIRES

6 Juvenile-set Fires

There were six reported juvenile-set fires in Berkshire County in 2013. There were three structure fires and three brush fires. These six fires caused \$3,310 in estimated damages.

ARSONS

13 Total Arsons — 6 Structure, 0 Vehicle & 7 Other Arsons

Thirteen (13), or 3%, of Berkshire County's 480 fires were intentionally set, or, for purposes of this analysis, arson. The six structure arsons and seven outside and other arsons caused two civilian injuries, one fire service injury and an estimated dollar loss of \$561,050.

Outside Arsons Down

The total number of reported arson fires decreased by 12 from the 25 reported in 2012. Reported structure arsons remained the same with six reported in both 2012 and 2013. Motor vehicle arsons remained the same with none reported in both 2012 and 2013. Reported outside and other arsons decreased by 12 from the 19 reported in 2012.

ALL INCIDENTS

Rescue & EMS Calls Are Over 1/2 of All Reported Responses

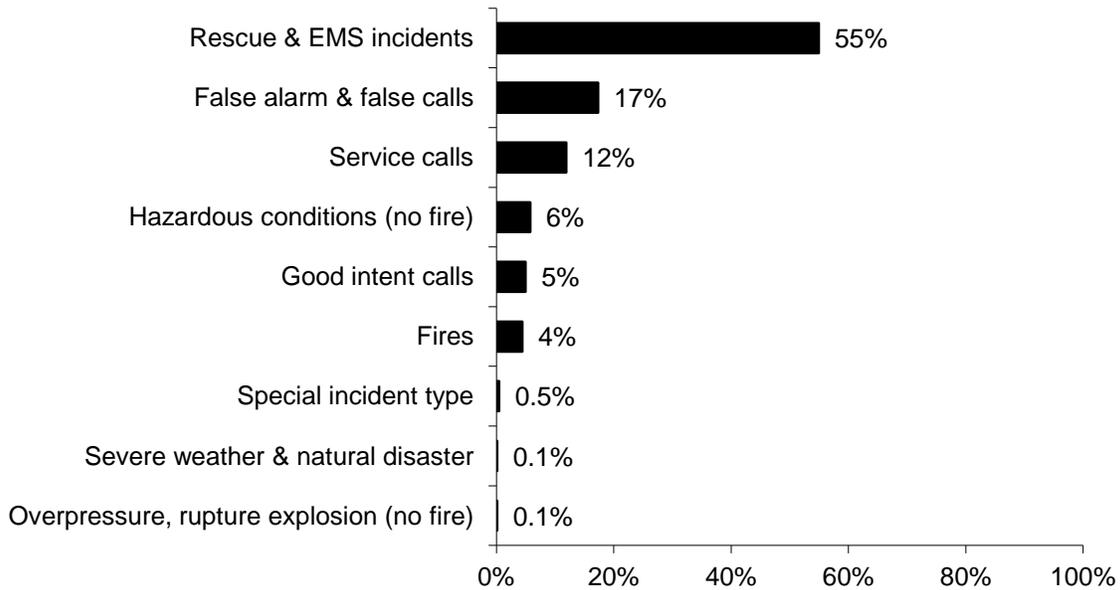
In 2013, Berkshire County fire departments reported 12,140 responses³ to MFIRS. Of these 12,140 incidents, 11,606 non-fire incidents were voluntarily reported.

Of these 11,606 non-fire responses, 6,672, or 55%, of all the responses reported in 2013, were reported rescue and emergency medical services (EMS) calls; 2,101, or 17%, were reported false alarm or false calls; 1,444, or 12%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 698, or 6%, were reported hazardous condition calls with no fire; 603, or 5%, were reported good intent calls; 57, or 0.5%, were special incident type calls such as citizen complaints; 17, or 0.1%, were severe weather responses; and 14, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

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

Five hundred and thirty-four (534), or 4%, of the total responses submitted by Berkshire County fire departments were fires.

2013 Responses by Incident Type



Berkshire County Departments Reported Giving Mutual Aid 197 Times

In 2013, Berkshire County fire departments reported coming to the aid of other fire departments 197 times. Of these 197 responses, 67, or 34%, were for rescue or EMS calls; 54, or 27%, were for fires; 42 or 21%, were for service calls such as cover assignments; 16, or 8%, were for false alarms; 11, or 6%, were good intent calls; six, or 3%, were for hazardous condition calls with no ensuing fire; and one, or 1%, was a severe weather or natural disaster call.

Berkshire County Received Mutual Aid in 450 Incidents

In 2013, Berkshire County fire departments reported receiving aid from surrounding departments in 450 incidents. Of these 450 incidents, 394, or 88%, were rescue and emergency medical services calls; 36, or 8%, were for fires; 13, or 3%, were false alarms or false calls; four, or 1%, were hazardous conditions calls with no fire; three, or 1%, were service calls.

Berkshire County

Population: 131,219

3.7 Fires/1,000 Population

Total Fires: 480 \$6,616,515

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	294	61%	\$6,436,745
Vehicle Fires	38	8%	120,350
Other Fires	148	31%	59,420

0 Fatal Fire 0.00 Civilian Deaths/1,000 Fires
 0 Civilian Death 0.00 Civilian Deaths/10,000 Population
 11 Civilian Injuries 18 Fire Service Injuries

Building Fires: 291

Residential Structure Fires: 243

Residential Structure Fires Confined to Non-Combustible Containers: 171

Unconfined Residential Structure Fires: 72

8 Civilian Injuries 16 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	145	60%	Operated	116	48%
Apartments	74	30%	Didn't operate	8	3%
Dormitories	10	4%	None	7	3%
Hotels or motels	5	2%	Fire too small	5	2%
Residential board & care	2	1%	Didn't alert (confined)	15	6%
Rooming houses	1	0.4%	Undetermined	92	38%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	52%	Radiated heat from op. eq.	4%	14%
Chimney or flue	15%	Heat from operating equip.	3%	10%
Heating equipment room	8%	Arcing	3%	10%
Bedroom	3%	Hot or smoldering obj., other	3%	10%
Wall surface, exterior	2%	Cigarette	2%	8%

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	46%	Too close to combustibles	4%	13%
Film, residue (creosote)	15%	Electrical failure/malfunc.	1%	4%
Flammable, combustible liquid	8%	Failure to clean	1%	4%
Rubbish, trash, waste	5%	Equipment unattended	1%	3%
Struct. component, finish, ohter	2%			
Electrical wire, cable insulation	2%			

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	48%	Unintentional	18%	60%
None	17%	Failure of eq. or heat source	4%	14%
Chimney or flue	15%	Intentional	2%	6%
Boiler, furnace, cent. heat unit	8%	Act of Nature	0.4%	1%
Stove, heating	1%	Undetermined	3%	11%
		Cause under investigation	2%	8%

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

Alerted occupants	45%
Didn't alert occupants	9%
Undetermined	46%

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.

⁹These 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	34	28	4	2
February	27	20	4	3
March	35	25	1	9
April	72	29	0	43
May	57	28	4	25
June	42	26	5	11
July	31	17	2	12
August	32	15	3	14
September	30	22	1	7
October	51	32	6	13
November	44	32	6	6
December	25	20	2	3

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	74	40	7	27
Monday	78	47	7	24
Tuesday	59	36	3	20
Wednesday	65	37	4	24
Thursday	66	50	4	12
Friday	71	46	3	19
Saturday	67	38	7	22

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	40	28	2	10
04:01 - 08:00	27	18	3	6
08:01 - 12:00	67	42	8	17
12:01 - 16:00	125	65	15	45
16:01 - 20:00	130	84	3	43
20:01 - 00:00	91	57	7	27

Motor Vehicle Fires

Total: 38

Automobiles: 25 (66%)

0, or (0%), of the automobile fires were considered intentionally set.

Arson Fires**Total Arsons: 13****Dollar loss: \$561,050****0.2 Arson Fires/1,000 Population**

Situation	Arsons	% Situation	% Arson	\$ Loss
Structure Arsons	6	2%	46%	561,050
Vehicle Arsons	0	0%	0%	0
Other Arsons	7	5%	54%	0

0.05 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.05 Other arsons/1,000 population

2 Civilian Injuries

1 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 - 20:00	2	33%			
20:01 - 00:00	2	33%			
12:01 - 16:00	1	17%			
00:01 - 04:00	1	17%			

Other Arsons	#	%
12:01 - 16:00	2	29%
20:01 - 00:00	2	29%
00:01 - 04:00	1	14%
08:01 - 12:00	1	14%
16:01 - 20:00	1	14%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	4	67%
1- and 2-Family homes	1	17%
Manufacturing, processing	1	17%

Adams					Population: 8,405			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	44	35	1	8	4	2	0	2
2010	36	22	6	8	3	0	1	2
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

Alford					Population: 494			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	1	1	0	0	0	0	0	0
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

Becket					Population: 1,779			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	1	1	0	1	0	1	0
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							

Cheshire					Population: 3,235			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	0	1	2	1	0	0	1
2010	12	5	2	5	0	0	0	0
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

Clarksburg **Population: 1,702**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	4	1	0	0	0	0	0
2010	4	4	0	0	0	0	0	0
2011 ¹⁰	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	1	0	0	0	0	0	0
2013	1	0	1	0	0	0	0	0

Dalton **Population: 6,756**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	25	23	2	0	0	0	0	0
2010	20	17	0	3	1	0	0	1
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

Egremont **Population: 1,225**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							

Florida **Population: 752**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	5	1	4	0	0	0	0
2010	3	1	1	1	0	0	0	0
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

¹⁰ In 2011 Clarksburg reported 5 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
2009	87	74	3	10	2	1	1	0
2010	80	62	3	15	0	0	0	0
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

Hancock**Population: 717**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	2	1	0	0	0	0	0
2010	2	2	0	0	0	0	0	0
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

Hinsdale**Population: 2,032**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	2	0	0	0	0	0	0
2010	3	2	1	0	0	0	0	0
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							

Lanesborough**Population: 3,091**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	3	1	5	0	0	0	0
2010	9	4	0	5	0	0	0	0
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

Lee					Population: 5,943			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	2	4	0	0	0	0	0
2010	5	4	1	0	0	0	0	0
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

Lenox					Population: 5,025			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	55	33	2	20	1	0	0	1
2010	44	27	1	16	1	1	0	0
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

Monterey					Population: 961			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	1	1	0	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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

New Ashford					Population: 228			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	2	2	0	0	0	0	0	0
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							

New Marlborough					Population: 1,509			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	5	3	8	0	0	0	0
2010	6	2	0	4	0	0	0	0
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

North Adams					Population: 13,708			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	52	20	9	23	6	0	2	4
2010	48	18	12	18	8	2	1	5
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

Otis					Population: 1,612			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	8	0	1	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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							

Peru					Population: 847			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	0	0	2	1	0	0	1
2010	4	2	0	2	1	0	0	1
2011 ¹¹	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							

¹¹ 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
2009	275	157	23	95	25	14	2	9
2010	307	170	19	118	25	5	2	18
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

Richmond					Population: 1,475			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	8	0	8	0	0	0	0
2010	8	4	0	4	2	0	0	2
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

Sandisfield					Population: 915			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	15	10	1	4	0	0	0	0
2010	9	3	1	5	1	0	0	1
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

Savoy					Population: 692			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	2	0	0	0	0	0	0
2010	2	2	0	0	0	0	0	0
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

Sheffield**Population: 3,257**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	1	0	1	1	1	0	0
2010	2	0	0	2	0	0	0	0
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							

Stockbridge**Population: 1,947**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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

Tyringham**Population: 327**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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							

West Stockbridge**Population: 1,306**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	2	0	2	1	0	0	1
2010	1	1	0	0	0	0	0	0
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

Williamstown					Population: 7,754			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	10	5	1	1	0	0	1
2010	Non-Reporting Community							
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

Windsor					Population: 899			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	0	0	2	0	0	0	0
2010	1	1	0	0	0	0	0	0
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							

12

¹² The Town of Washington has no fire department only a fire chief. They did have 1 structure fire in town in 2012.

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	276	33	3	55	38	15	25	106	1	0
03006	Alford	2	2	0	0	0	0	0	0	0	0
03022	Becket**	0	0	0	0	0	0	0	0	0	0
03058	Cheshire	319	12	0	243	19	20	1	18	0	6
03063	Clarksburg	4	4	0	0	0	0	0	0	0	0
03070	Dalton	759	13	0	548	21	38	44	82	1	12
03090	Egremont**	0	0	0	0	0	0	0	0	0	0
03098	Florida	51	6	0	25	5	7	4	3	0	1
03113	Great Barrington	614	90	2	212	76	51	8	174	1	0
03121	Hancock	2	2	0	0	0	0	0	0	0	0
03132	Hinsdale*	0	0	0	0	0	0	0	0	0	0
03148	Lanesborough	319	3	1	225	12	25	24	28	0	1
03150	Lee	4	3	0	0	0	0	0	0	0	1
03152	Lenox	547	36	2	93	36	90	33	249	7	1
03193	Monterey	2	2	0	0	0	0	0	0	0	0
03200	New Ashford*	0	0	0	0	0	0	0	0	0	0
03203	New Marlborough	175	13	0	106	7	2	9	38	0	0
03209	North Adams	1,187	36	2	234	137	302	105	353	2	16

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
03225	Otis*	0	0	0	0	0	0	0	0	0	0
03233	Peru	43	1	0	35	3	1		3	0	0
03236	Pittsfield	7,214	214	4	4,708	281	859	304	824	3	17
03249	Richmond	85	14	0	27	6	5	1	29	2	1
03260	Sandisfield	148	11	0	92	18	12	5	10	0	0
03263	Savoy	2	2	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	101	10	0	55	4	2		29	0	1
03341	Williamstown	284	25	0	14	35	15	40	155	0	0
03345	Windsor*	0	0	0	0	0	0	0	0	0	0
Total	Berkshire County	12,140	534	14	6,672	698	1,444	603	2,101	17	57

* Certified no reportable fires.

**Non reporting department.

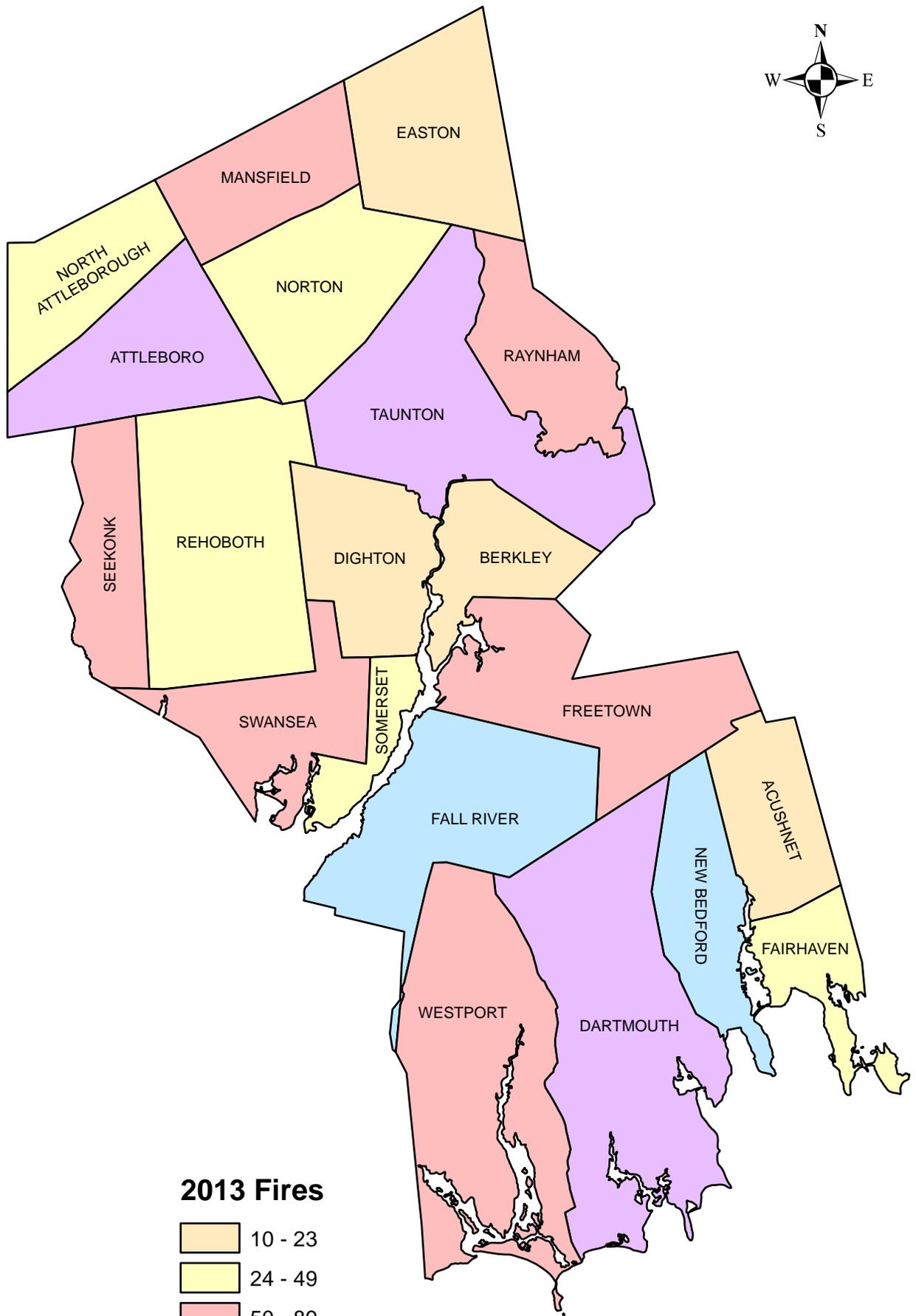
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.



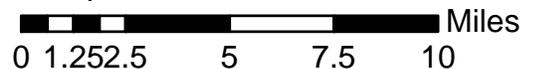
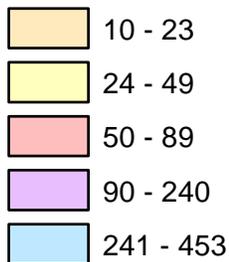
Bristol County

2013 Fire Data Analysis

Bristol County Fires 2013



2013 Fires



Bristol County Fires in 2013

2,006 Total Fires — 897 Structures, 269 Vehicles & 840 Other Fires

Bristol County ranked seventh out of the fourteen Massachusetts counties in total reported fires. The county reported 2,006 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 897 structure fires, 269 motor vehicle fires, 430 brush, tree or lawn fires, 245 outside rubbish fires, 62 special outside fires, seven cultivated vegetation or crop fires, and 96 other fires caused five civilian deaths, 36 civilian injuries, 26 fire service injuries and an estimated dollar loss of \$16.5 million. Bristol County's fires accounted for 7% of the 29,828 Massachusetts fires reported in 2013.

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

Outside Fires Down

The total number of reported fire incidents decreased by 192 from the 2,198 reported in 2012. Reported structure fires increased by 31 from the 866 reported during the previous year. The total number of reported motor vehicle fires decreased by 10 from the 279 incidents reported during 2012. Reported outside and other fires decreased by 213 from the 1,053 reported the year before.

BRISTOL COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1,794	789	309	696	140	55	19	66
2010	2,025	844	302	879	114	42	13	59
2011	1,878	827	316	735	95	29	14	52
2012	2,198	866	279	1,053	97	29	10	58
2013	2,006	897	269	840	90	31	4	55

Fire and Fire Death Rates

Bristol County had 3.7 fires per 1,000 population. That figure ranks Bristol County tied for ninth in the state and below the state rate of 4.6 fires per 1,000 population. Bristol County also had 0.07 fire deaths per 10,000 populations ranking it tied for fifth among Massachusetts counties and above the state rate of 0.06 fire deaths per 10,000 population.

3 Fires Kill 4 Bristol County Residents

In 2013, three fires in Bristol County killed four people.

- On February 9, 2013, at 7:11 p.m., the Attleboro Fire Department was called to a fatal natural gas explosion with ensuing fire in a single-family mobile home. The victim, an 80-year old man overexerted himself while escaping and collapsed in the street upon exiting the trailer. Suffering from cardiac arrest, he was transported to a local hospital where he succumbed to his injuries. One (1) firefighter was also injured at

this fire. It was undetermined if smoke detectors were present and the building was not sprinklered. Damages from this fire were estimated to be \$105,000.

- On August 25, 2013 at 6:24 a.m., the Taunton Fire Department was called to a fatal airplane crash with ensuing fire. The single-engine plane, a 1946 Aeronca 7AC two-seater, crashed while taking off from Taunton Municipal Airport. The pilot, a 69-year old man and his passenger, a 61-year old man were entangled in the wreckage and died in the ensuing fire. Damages from this fire were not estimated.
- On November 8, 2013, at 2:07 a.m., the New Bedford Fire Department was called to a fatal two car motor vehicle crash with ensuing fire on Route 140. The driver and a 23-year old man was trapped in one of the vehicles and succumbed to the fire. A passenger was injured but able to get out of the vehicle before the fire.

Fairhaven Has Bristol County's Largest Loss Fire

- On December 30, 2013, at 4:39 a.m., the Fairhaven Fire Department responded to a fire of undetermined cause in a single-family home. No one was injured at this fire. Detectors were present but it was undetermined if they operated. The home was not sprinklered. Damages were estimated to be \$800,000.

STRUCTURE FIRES

Reported Structure Fires Up

The 897 structure fires caused one civilian death, 33 civilian injuries, 25 fire service injuries and an estimated dollar loss of \$14.4 million. These incidents represented 45% of Bristol County's reported fires in 2013. The average estimated dollar loss per structure fire was \$16,044. The total number of reported structure fires increased by 31, or 4%, from the 866 reported in 2012.

Structure Arsons Up Slightly

The 31 structure arsons caused four fire service injuries and an estimated dollar loss of \$1 million. Arson was indicated as the cause of 3% of the structure fires and 6% of Bristol County's structure fire dollar loss. The 31 structure arsons accounted for 34% of the Bristol County arson fires reported in 2013. The total number of reported structure arsons increased by two from the 29 reported in 2012.

61% of Structure Arsons Occurred in Residences

Sixty-one percent (61%) of Bristol County's 31 structure arsons occurred in residential occupancies. Education facilities and public assembly properties each accounted for 10%. Institutional facilities and mercantile or business properties each had 6% of these fires. Manufacturing or processing facilities and storage facilities each had 3% of these fires.

BUILDING FIRES

There were 887 building fires of different types in Bristol County in 2013. These 887 building fires accounted for 98.9% of all building fires in Bristol County.

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

Seven hundred and fifty-seven (757), or 85%, of Bristol County's 887 building fires occurred in residential occupancies. Mercantile and business properties had 28 fires. Twenty-seven (27) fires took place in public assembly properties, including restaurants and churches. Twenty-seven (27) fires took place in storage properties. Educational facilities had 16 fires. Thirteen (13) fires took place in manufacturing and processing facilities. Hospitals, prisons, and other institutional buildings experienced 11 fires. Special properties had five fires. Two (2) fires occurred in industrial, utility, defense, agricultural or mining facilities in Bristol County in 2013.

RESIDENTIAL FIRES**Residential Building Fires Up**

There were 757 reported residential building fires in Bristol County in 2013. These 757 fires are an increase of 63, or 9%, from the 694 residential building fires reported in 2012.

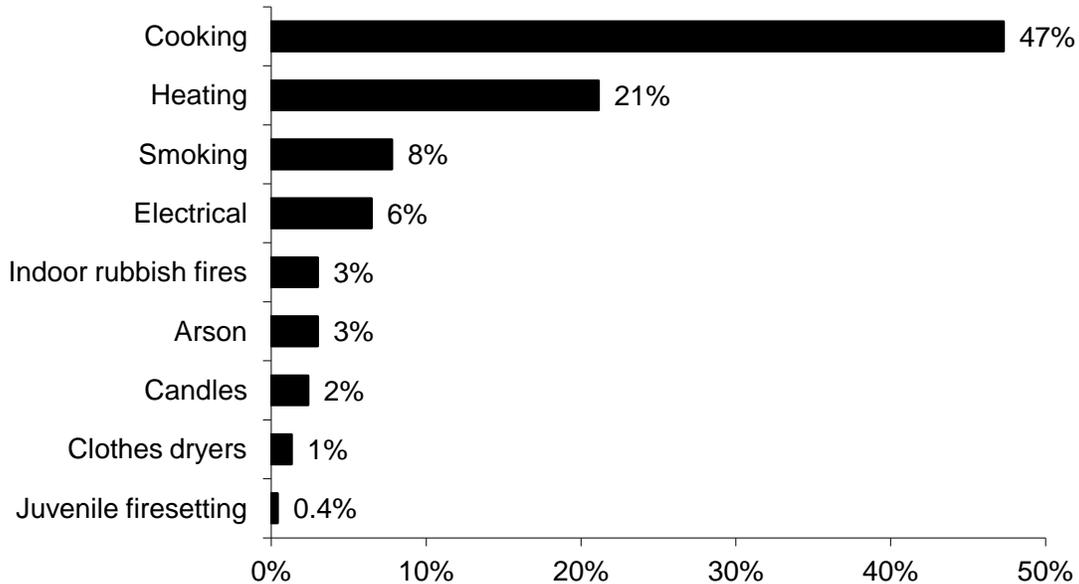
Apartments Accounted for Almost 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 49% of the building fires in Bristol County; 47% occurred in 1- & 2-family homes; 2% happened in rooming houses; less than 1% occurred in residential board and care facilities; and less than 1% happened in 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 47% of these fires. The second leading cause of residential building fires was heating equipment, accounting for 21%. Smoking caused 8% and electrical problems caused 6% of the fires in people's homes. Indoor rubbish fires and arson were each responsible for 3% of these fires. Candles caused 2% and clothes dryers accounted for 1%. Juvenile-set fires accounted for less than 1% of Bristol County's residential building fires in 2013.

2013 Leading Causes to Fires in Bristol County Homes



59% of Residential Building Fires Are Confined to Non-Combustible Containers¹

Four hundred and forty-four (444), or 59%, of all residential building fires were reported as confined to non-combustible containers in 2013. Three hundred and ten (310), or 41%, of all residential building fires reported in 2013 were cooking fires contained to a non-combustible container. Fifty-six (56), or 7%, were fires confined to a fuel burner or boiler malfunction. Fifty-five (55) of the reported fires were confined to a chimney, accounting for 8% of residential building fires. Forty-eight (48), or 7%, of these fires were rubbish fires in Bristol County in 2013.

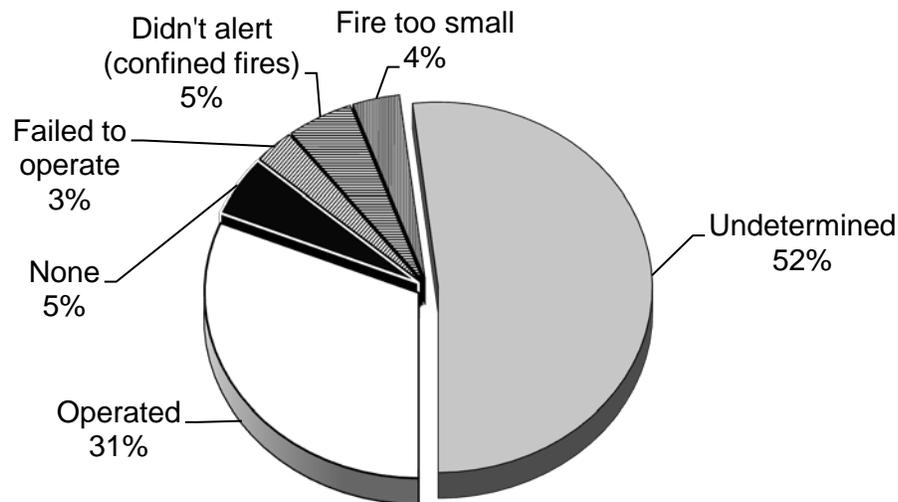
Detectors Alerted Occupants in Only 31% of Fires

Smoke or heat detectors operated and alerted the occupants in 236, or 31%, of the residential building fires. In 5% of these fires², the detectors did not alert the occupants. Detectors were present but did not operate in 3% 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 393 incidents, or 52%, of Bristol 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.

Detector Status in Bristol County's Residential Structure Fires 2013



48% of Failed Detectors Had Missing Batteries

Of the 23 fires where smoke detectors were present but failed to operate, 11, or 48%, failed because the batteries were either missing or disconnected and two, or 12%, failed because of dead batteries. Three (3), or 13%, failed from a power failure, shutoff or disconnect. The improper installation or placement, a lack of maintenance and a defective detector each caused one, or 4%, of the detectors that failed to operate. It was undetermined or unclassified in four cases, or 17%, why the detectors failed to operate.

VACANT BUILDINGS

3% of Building Fires Occurred in Vacant Buildings

Bristol County reported 30 fires that occurred in buildings that were vacant, under construction or demolition. This represented 3% of the total 887 building fires reported to MFIRS in 2013. Twenty-one (21) fires occurred in vacant residential properties. Five (5) of these fires happened in public assembly properties. Two (2) vacant building fires occurred in storage facilities. Mercantile and business properties and an educational facility each had one of these fire incidents in Bristol County in 2013.

Ten (10), or 33%, of the vacant building fires in Bristol County in 2013 were determined to be intentionally set. Five (5) occurred in apartment buildings. Two occurred in one- or two-family homes. Another two happened in unclassified public assembly properties and one occurred at a restaurant.

JUVENILE-SET FIRES

46 Juvenile-set Fires

There were 46 reported juvenile-set fires in Bristol County in 2013. The five structure fires, 38 brush fires, one special outside fire, one cultivated crop fire, and one unclassified fire caused \$19,802 in estimated damages.

ARSONS

90 Total Arsons — 31 Structures, 4 Vehicles & 55 Other Arsons

Bristol County fire departments reported that 90, or 4%, of Bristol County's 2,006 fires were considered intentionally set, or, for purposes of this analysis, arson. The 31 structure arsons, four motor vehicle arsons and 55 outside and other arsons caused four fire service injuries and an estimated dollar loss of \$1 million.

All Arsons Down Slightly

The total number of reported arson fires decreased by seven from the 97 reported in 2012. Structure arsons increased by two from 29 in 2012. Motor vehicle arsons decreased by six from the 10 reported last year. Outside and other arsons dropped by three from the 58 reported in 2012.

ALL INCIDENTS

Rescue & EMS Calls Are 62% of All Reported Responses

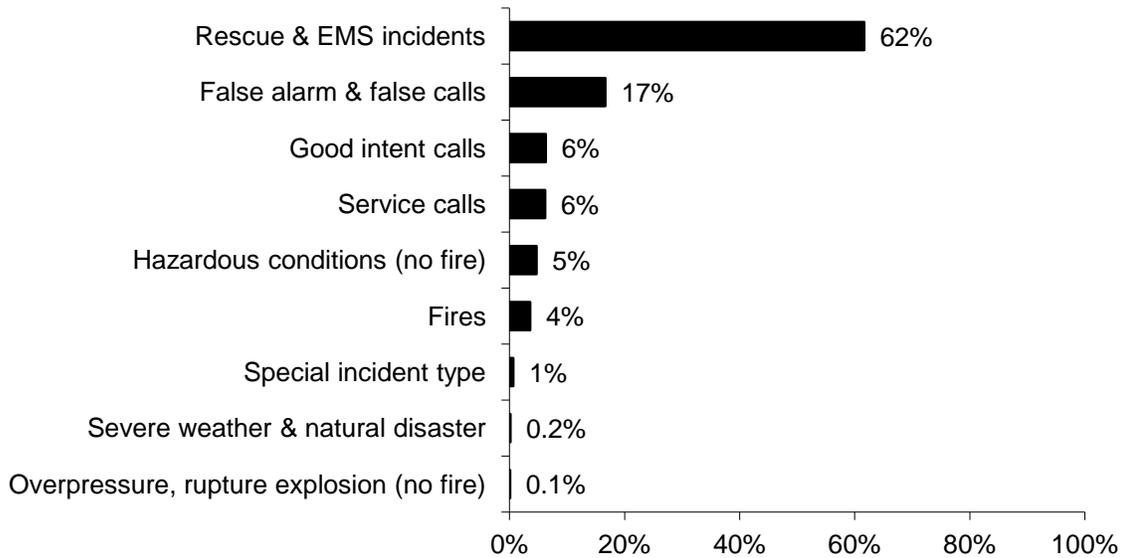
In 2013, fire departments in Bristol County reported 57,890 responses³ to MFIRS. Of these 57,890 incidents, 55,808 non-fire calls were voluntarily reported.

Of these 55,890 non-fire calls, 35,690, or 62% of all the reported responses, were reported rescue and emergency medical services (EMS) calls; 9,646, or 17%, were reported false alarm or false calls; 3,645, or 6%, were reported good intent calls; 3,592, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 2,721, or 5%, were reported hazardous condition calls with no fire; 380, or 1%, were special incident type calls such as citizen complaints; 90, or 0.2%, were severe weather responses; and 44, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Two thousand and eighty-two (2,082), or 4%, 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.

2013 Responses by Incident Type



Bristol County Fire Departments Gave Mutual Aid 1,582 Times

In 2013, Bristol County fire departments reported coming to the aid of other fire departments 1,582 times. Of these 1,582 responses, 1,113, or 70%, were for rescue or EMS calls; 258, or 16%, were for good intent calls; 114, or 7%, were for service calls such as cover assignments; 74, or 5%, were for fires; 12, or 1%, were for false alarms or false calls; six, or less than 1%, were for hazardous conditions calls with no fire; four, or less than 1%, were special incident types; and one, or less than 1%, was for a severe weather call.

Bristol County Received Mutual Aid in 1,073 Incidents

In 2013, Bristol County fire departments reported receiving aid from surrounding departments in 941 incidents. Of these 941 incidents, 782, or 83%, were rescue and emergency medical services calls; 89, or 9%, were for fires; 24, or 3%, were false alarms or false calls; 20, or 2%, were good intent calls; 15, or 2%, were hazardous conditions calls with no fire; 10, or 1%, of the mutual aid received calls, were service calls; and one, or less than 1%, was for a severe weather call.

Bristol County

Population: 548,285

3.7 Fires/1,000 Population

Total Fires: 2,006 \$16,459,841

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	897	45%	\$14,391,878
Vehicle Fires	269	13%	1,264,638
Other Fires	840	48%	803,325

3 Fatal Fires 1.99 Civilian Deaths/1,000 Fires
 4 Civilian Deaths 0.09 Civilian Deaths/10,000 Population
 36 Civilian Injuries 26 Fire Service Injuries

Building Fires: 887

Residential Structure Fires: 757

Residential Structure Fires Confined to Non-Combustible Containers: 444

Unconfined Residential Structure Fires: 313

1 Civilian Deaths 31 Civilian Injuries 21 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	372	49%	Operated	236	31%
1- & 2-Family homes	359	47%	Didn't operate	23	3%
Rooming houses	12	1%	None	40	5%
Residential board & care	3	0.1%	Fire too small	27	4%
Hotels or motels	4	0.1%	Didn't alert (confined)	38	5%
			Undetermined	393	52%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	50%	Heat from operating eq.	5%	12%
Heating room or area	8%	Rad., cond. heat from op eq.	5%	11%
Chimney or flue	7%	Arcing	5%	11%
Bedroom	4%	Cigarettes	4%	9%
Living room	3%	Candles	2%	5%
Substructure area, crawl space	2%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	45%	Abandoned materials	4%	9%
Flammable or combust. liquid	7%	Too close to combustibles	2%	4%
Film or residue (creosote)	7%	Equipment unattended	2%	4%
Rubbish, trash, waste	4%	Electrical failure, malfunc.	1%	3%
Exterior sidewall covering	3%	Failure to clean	1%	3%
Structural member, framing	3%	Misuse of mater. or product	1%	2%

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	45%	Unintentional	26%	62%
None	24%	Failure of eq. or heat source	4%	10%
Chimney or flue	8%	Intentional	3%	6%
Boiler, furnace, cent. heat unit	7%	Cause under investigation	5%	12%
Electrical wiring, other	3%	Undetermined	%	8%
Stove, heating	2%	Act of Nature	0.1%	0.3%

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

Alerted Occupants	23%
Didn't Alert Occupants	9%
Undetermined	68%

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	116	75	13	28
February	148	95	35	18
March	152	88	13	51
April	267	69	16	182
May	225	83	21	121
June	154	75	22	57
July	153	56	21	76
August	188	51	34	103
September	139	63	25	51
October	172	73	22	77
November	184	100	23	61
December	108	69	24	15

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	332	138	38	156
Monday	270	124	30	116
Tuesday	274	129	40	105
Wednesday	272	173	37	112
Thursday	279	132	35	112
Friday	257	125	42	90
Saturday	322	126	47	149

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	152	78	33	42
04:01 - 08:00	126	63	28	35
08:01 - 12:00	318	151	60	107
12:01 - 16:00	539	194	53	292
16:01 - 20:00	557	253	56	248
20:01 - 24:00	314	158	40	116

Motor Vehicle Fires

Total: 269

Automobiles: 210 (78%)

4, or 2%, of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 90

Dollar loss: \$1,003,550

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	31	3%	34%	\$899,650
Vehicle Arsons	4	1%	4%	10,600
Other Arsons	55	7%	61%	93,300

0.06 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.10 Other arsons/1,000 population

4 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	7	23%	00:01 - 04:00	2	50%
20:01 - 00:00	7	23%	16:01 - 20:00	1	25%
00:01 - 00:00	6	19%	20:01 - 00:00	1	25%
16:01 - 20:00	6	19%			

Other Arsons	#	%
16:01 - 20:00	22	40%
12:01 - 16:00	15	27%
20:01 - 00:00	8	15%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	14	45%
1- and 2-Family homes	4	13%
Storage, other	2	6%

Acushnet					Population: 10,303			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	10	4	7	1	1	0	0
2010	28	17	5	6	0	0	0	0
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

Attleboro					Population: 43,593			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	130	61	19	50	9	2	0	7
2010	134	56	27	51	6	3	0	3
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

Berkley					Population: 6,411			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	17	1	9	0	0	0	0
2010	21	9	4	8	0	0	0	0
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

Dartmouth Fire Districts¹⁰					Population: 34,032			
Dartmouth District # 1					<i>Est. Pop. Protected: 13,272</i>			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	30	11	4	15	6	1	0	5
2010	21	13	0	8	2	0	0	2
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

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
2009	6	2	3	1	0	0	0	0
2010 ¹¹	Fire Department in Good Standing							
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

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

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	49	8	7	34	5	2	2	1
2010	104	22	10	72	13	5	0	8
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

Dighton**Population: 7,086**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	14	3	4	1	1	0	0
2010	20	7	4	9	1	0	0	1
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

Easton**Population: 23,112**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	11	4	4	1	1	0	0
2010	1	1	0	0	0	0	0	0
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

¹¹ In 2010, Dartmouth District #2 reported 1 service call.

Fairhaven					Population: 15,873			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	48	24	11	13	7	2	2	3
2010	46	17	4	25	1	0	0	1
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

Fall River					Population: 88,857			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	369	206	54	109	29	16	1	12
2010	508	273	59	176	35	17	2	16
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

Freetown					Population: 8,870			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	64	37	14	13	13	5	2	6
2010	56	27	16	13	4	2	1	1
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

Mansfield					Population: 23,184			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	56	20	11	25	2	0	0	2
2010	49	14	10	25	1	0	0	1
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

New Bedford					Population: 95,072			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	343	172	65	106	32	14	9	9
2010	386	156	76	154	27	11	9	7
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

North Attleboro					Population: 28,712			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	56	20	16	20	3	0	1	2
2010	56	16	12	28	1	0	0	1
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

Norton					Population: 19,031			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	37	14	4	19	0	0	0	0
2010	53	16	13	24	1	0	0	1
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

Raynham					Population: 13,383			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	70	23	15	32	1	0	0	1
2010	59	25	8	26	0	0	0	0
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

Rehoboth**Population: 11,608**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	55	23	6	26	2	1	1	0
2010	50	37	2	11	0	0	0	0
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

Seekonk**Population: 13,722**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	59	28	9	22	2	2	0	0
2010	71	27	12	32	5	3	0	2
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

Somerset**Population: 18,165**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	32	14	2	16	3	1	0	2
2010	43	17	4	22	0	0	0	0
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

Swansea**Population: 15,865**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	87	34	20	33	3	2	0	1
2010	86	32	11	43	3	1	0	2
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

Taunton					Population: 55,874			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	143	32	25	86	11	2	0	9
2010	166	34	15	117	13	1	1	11
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

Westport					Population: 15,532			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	52	15	9	28	5	0	0	5
2010	55	21	9	25	3	0	0	3
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

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	394	24	0	113	87	104	7	57	0	2
05016	Attleboro	6,630	144	3	4,644	175	385	444	814	0	21
05027	Berkley	634	23	0	433	21	29	54	70	1	3
05972	Dartmouth #1	393	28	1	16	48	43	32	181	43	1
05973	Dartmouth #2	99	11	0	11	19	17	13	27	0	1
05974	Dartmouth #3	860	110	5	113	105	114	103	300	7	3
05076	Dighton	349	20	0	186	11	65	10	40	4	13
05088	Easton	10	10	0	0	0	0	0	0	0	0
05094	Fairhaven	2,804	37	3	2,050	190	139	86	294	0	5
05095	Fall River	5,310	456	7	1,684	443	256	496	1,919	2	47
05102	Freetown	1,201	65	2	734	68	137	89	102	0	4
05167	Mansfield	2,954	63	2	1,901	92	261	136	469	3	27
05201	New Bedford	13,599	394	7	9,377	435	377	911	2,082	8	8
05211	North Attleboro	3,405	54	2	2,214	167	336	118	504	5	5
05218	Norton	2,693	37	3	1,596	147	323	21	449	0	117
05245	Raynham	847	64	2	107	104	112	100	342	1	15

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	522	33	0	174	79	64	44	124	4	0
05265	Seekonk	2,623	59	3	1,793	61	122	210	364	2	9
05273	Somerset	2,889	43	0	2,349	79	154	143	111	0	10
05292	Swansea	472	90	1	45	88	34	69	141	3	1
05293	Taunton	8,593	246	2	6,060	234	420	478	1,068	4	81
05334	Westport	609	71	1	90	68	100	81	188	3	7
	Bristol County	57,890	2,082	44	35,690	2,721	3,592	3,645	9,646	90	380

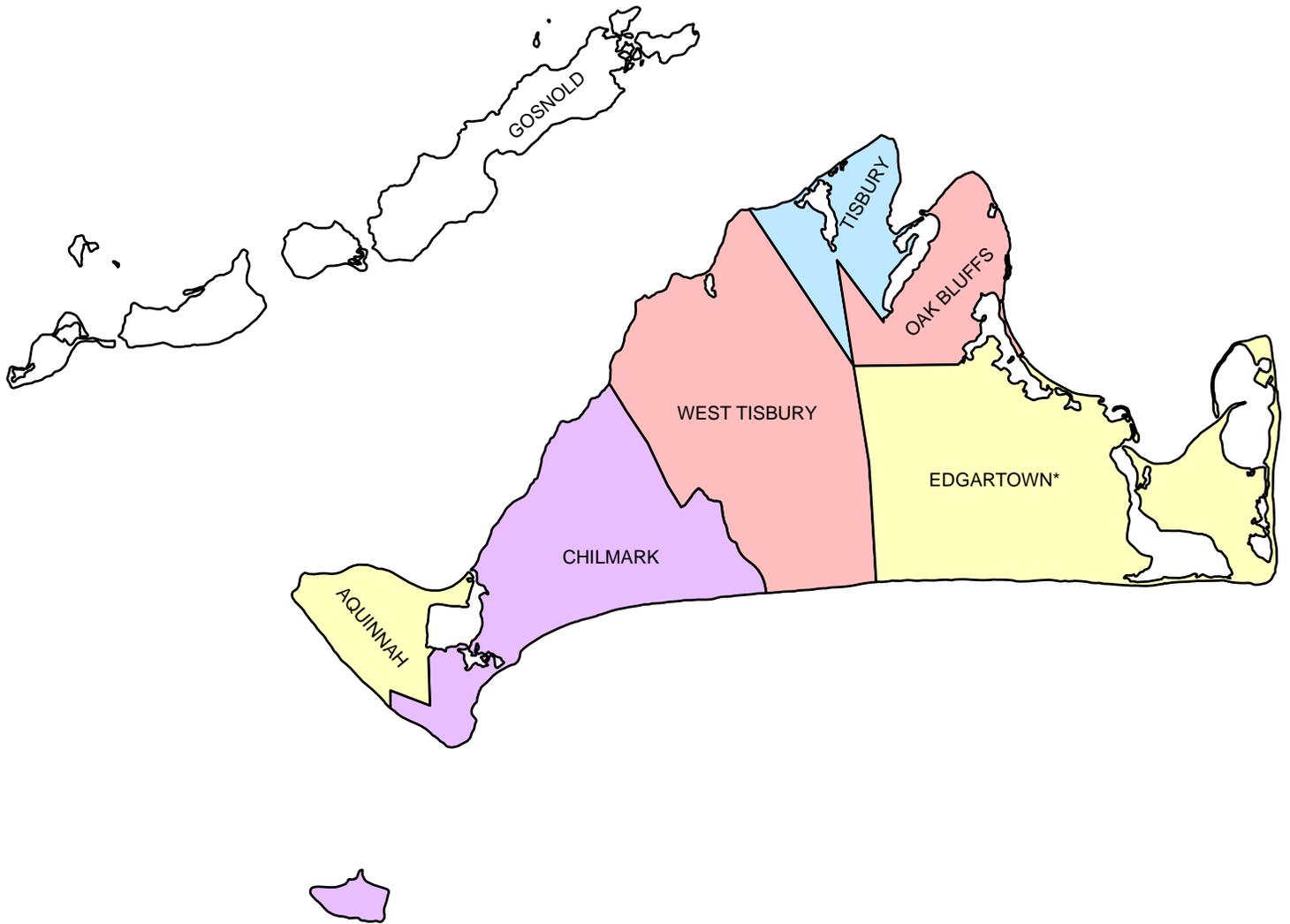
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



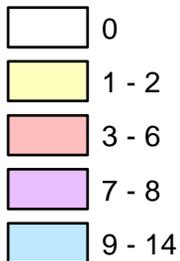
Dukes County

2013 Fire Data Analysis

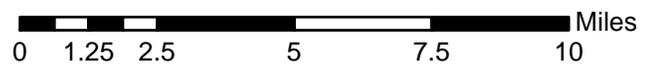
Dukes County Fires 2013



2013 Fires



MFIRS
Massachusetts Fire Incident Reporting System



Massachusetts Fire Incident Reporting System 2013

Dukes County Fires in 2013

38 Total Fires — 16 Structures, 6 Vehicles Fires & 16 Outside & Other Fires

Dukes County ranked last out of the fourteen Massachusetts counties in total fires. Dukes County fire departments reported 38 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2012. The reported 15 structure fires, seven motor vehicle fires, three outside rubbish fires, four special outside fires, one cultivated crop fire and eight unclassified fires caused an estimated dollar loss of \$64,750. Dukes County's fires accounted for 0.1% of the 29,828 Massachusetts fires reported in 2013.

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 2013.

All Fires Down Slightly

The total number of reported fire incidents decreased by one from the 39 reported in 2012. Reported structure fires decreased by two from the 17 reported in 2012. Motor vehicle fires increased by one from the six reported the previous year. Outside and other fires remained the same with 16 reported in both 2012 and 2013.

DUKES COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	8	5	6	0	0	0	0
2010	30	17	5	8	1	0	1	0
2011	27	18	1	8	2	1	0	1
2012	39	17	6	16	2	0	1	1
2013	38	15	7	16	1	0	0	1

Fire and Fire Death Rates

Dukes County had 2.3 fires per 1,000 population. That figure ranks Dukes County last in the state and below the state rate of 4.6 fires per 1,000 population. Dukes County also had 0 fire deaths per 10,000 population ranking it tied for last among Massachusetts counties and below the state rate of 0.07 fire deaths per 10,000 population.

Aquinnah Had Dukes County Largest Loss Fire

- On December 14, 2013, at 4:57 a.m., the Aquinnah Fire Department responded to a heating fire in an outbuilding behind a single-family home. The fire was started by an wood boiler. No one was injured at this fire. The outbuilding did not have detectors or sprinklers. Damages were estimated at \$40,000 for this fire.

STRUCTURE FIRES

Reported Structure Fires 39% of All Reported Fires

There were 15 reported structure fires in Dukes County in 2013. These incidents represented 39% of Dukes County's reported fires in 2013 and 73% of the county's reported dollar loss. The total number of reported structure fires decreased by two, or 12%, from the 17 reported in 2012.

0 Reported Structure Arson in 2013

There was no reported structure arson in Dukes County in 2013

BUILDING FIRES

There were 15 building fires of different types in Dukes County in 2013. These 15 building fires accounted for all of the structure fires in Dukes County.

80% of Dukes Building Fires Occurred in People's Homes

Twelve (12), or 80%, of Dukes County's 15 building fires occurred in residential occupancies. One (1) fire occurred in a business, one happened at an industrial facility and another fire occurred in a storage property.

RESIDENTIAL FIRES

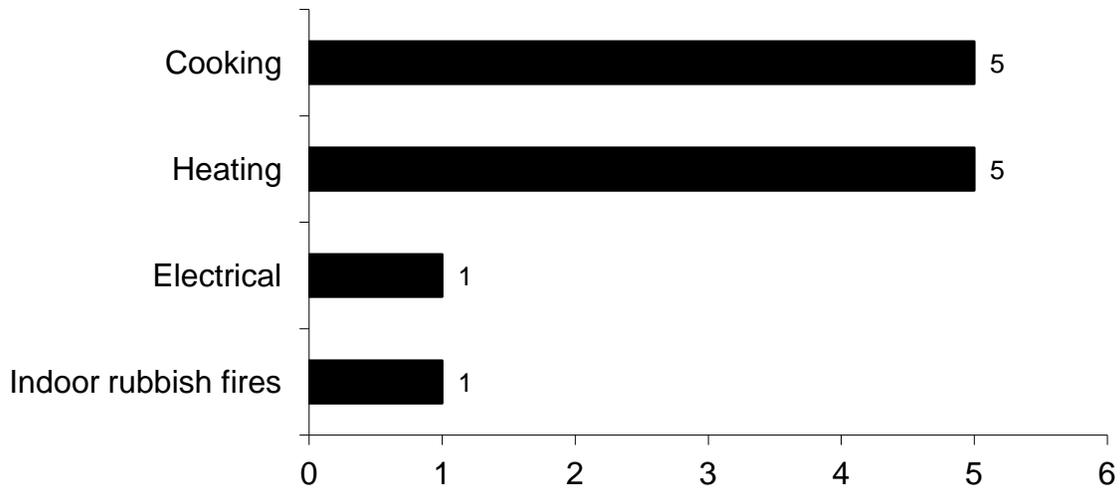
12 Residential Building Fires

There were 12 reported residential building fires in Dukes County in 2013. These 12 fires are a decrease of two, or 14%, from the 14 residential building fires reported in 2012. They caused \$7,250 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. Cooking fires and heating equipment each accounted for five or, or 42%, of these fires. Electrical problems and an indoor rubbish fire were each the cause for one, or 8%, of the fires in Dukes County in 2013.

2013 Leading Causes of Fires in Dukes County Homes



10 Residential Building Fires Were Confined to Non-Combustible Containers¹

Ten (10), or 83%, of the reported fires in Dukes County were confined to a non-combustible container. Five (5), or 42%, were confined cooking fires. Four, or 33%, of these fires were confined to a chimney or flue and one, or 8%, was a confined fuel burner or boiler malfunction.

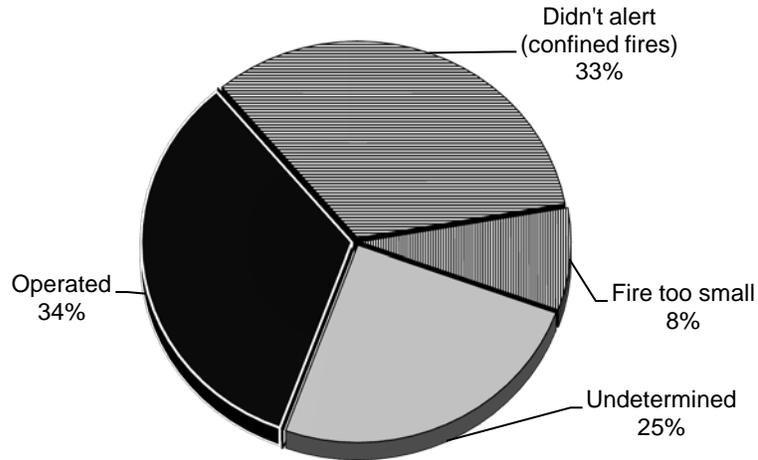
Detectors Operated in 34% of Fires

Smoke or heat detectors operated and alerted the occupants in four, or 34%, of the residential building fires. In four, or 33%, of these fires², the detectors did not alert the occupants. There were no reported fires where detectors were present but did not operate. There were no reported fires where there were no smoke detectors present. The fire was too small to activate the detector in one, or 8%, of these incidents. Smoke detector performance was undetermined in three incidents, or 25%, of Dukes 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.

Detector Status in Dukes County's Residential Fires 2013



VACANT BUILDINGS

0 Vacant Building Fires

There were no reported fires in buildings that were vacant in Dukes County in 2013.

JUVENILE-SET FIRES

No Juvenile-set Fires

There were no reported juvenile-set fires in Dukes County in 2013.

ARSONS

1 Outside Arson

There was one reported arson in Dukes County in 2013. The one special outside arson was a decrease of one from the two arsons reported in 2012. Motor vehicle arson decreased by one.

ALL INCIDENTS

False Alarms Are 1/2 of All Reported Responses

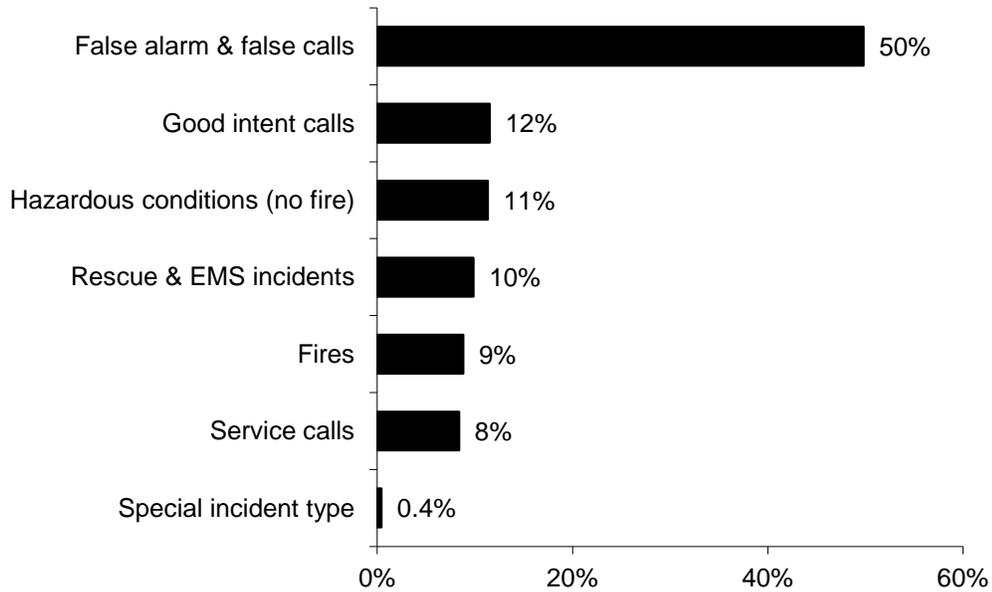
In 2013, Dukes County fire departments reported 478 responses³ to MFIRS. Of these 478 incidents, 436 non-fire calls were voluntarily reported.

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

Of these 436 non-fire calls, 238, or 50%, were reported false alarm or false calls; 55, or 12%, were reported good intent calls; 54, or 11%, were reported hazardous condition calls with no fire; 47, or 10% of all of the responses reported in 2013, were reported rescue and emergency medical services (EMS) calls; 40, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; and two, or 0.4%, were special incident types.

Forty-two (42), or 9%, of the total incidents submitted by Dukes County fire departments were fires.

2013 Incidents by Incident Type



Dukes County Fire Departments Gave Mutual Aid 6 Times

In 2013, Dukes County fire departments reported coming to the aid of other fire departments six times. Of these six responses, four, or 67%, were for fires; one, or 17%, was for a false alarm or false call; and one, or 17%, was for a rescue or EMS call.

Dukes County Fire Departments Received Mutual Aid in 9 Incidents

In 2013, Dukes County fire departments reported receiving aid from surrounding departments in nine incidents. Six (6), or 67%, of these incidents were for fires; two, or 22%, were for rescue or EMS calls; and one, or 11% was for a false alarm or false call.

Dukes County

Population: 16,535

2.3 Fires/1,000 Population

Total Fires:	38		\$64,750
Situation	Fires	% of Fires	Dollar Loss
Structure Fires	15	39%	\$47,250
Vehicle Fires	7	18%	17,500
Other Fires	16	42%	0

No Injuries

Building Fires: 15

Residential Structure Fires: 12

Residential Structure Fires Confined to Non-Combustible Containers: 10

Unconfined Residential Structure Fires: 2

No Injuries

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	11	92%	Operated	4	33%
Residential, other		8%	Didn't operate	0	0%
			None	0	0%
			Fire too small	1	8%
			Didn't alert (confined)	4	33%
			Undetermined	3	25%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	42%	Arcing	8%	50%
Chimney or flue	33%	Hot ember or ash	8%	50%
Substructure area or space	8%			
Closet	8%			
Heating room or area	8%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	% Unconfined⁷
Cooking materials	42%	Failure to clean	17%	100%
Film, residue (creosote)	33%	Equipment overloaded	8%	50%
Electrical wire, cable insulation	8%			
Box, carton, bag	8%			
Flammable/comb. liquid	8%			

Equipment⁸	%	Cause of Ignition	%	% Unconfined⁹
Kitchen & cooking equipment	42%	Unintentional	8%	50%
Chimney or flue	33%	Failure of eq. or heat source	8%	50%
Boiler, furnace, cent. heat. unit	8%	Undetermined	0%	0%
Surge protector	8%	Cause under investigation	0%	0%
None	8%			

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

Alerted occupants	40%
Didn't alert occupants	40%
Undetermined	20%

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	4	0	2
February	4	1	2	1
March	0	0	0	0
April	2	0	0	2
May	3	1	1	1
June	3	1	1	1
July	6	3	0	3
August	7	2	2	3
September	2	1	0	1
October	2	1	0	1
November	1	0	0	1
December	2	1	1	0

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	5	2	1	2
Monday	8	3	3	2
Tuesday	2	2	0	0
Wednesday	4	1	0	3
Thursday	8	2	1	5
Friday	4	1	1	2
Saturday	7	4	1	2

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	3	1	1	1
04:01 - 08:00	4	1	2	1
08:01 - 12:00	6	2	1	3
12:01 - 16:00	5	2	1	2
16:01 - 20:00	13	6	2	5
20:01 - 00:00	7	3	0	4

Motor Vehicle Fires

Total: 7

Automobiles: 5 (71%)

0 (0%) of the automobile fires were incendiary in 2013.

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	6%	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	#	%
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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
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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

Chilmark **Population: 866**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	2	0	1	0	0	0	0
2010	2	0	0	0	0	0	0	0
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

Edgartown **Population: 4,067**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	2	2	0	0	0	0	0	0
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	2	1	1	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
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	1	1	0	0	0	0	0	0
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							

Oak Bluffs **Population: 4,067**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	1	0	1	0	0	0	0	0
2011	Non-Reporting Community							
2012	7	5	0	2	1	0	0	1
2013	6	3	0	3	0	0	0	0

Tisbury **Population: 3,959**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	14	4	5	5	0	0	0	0
2010	19	8	3	8	1	0	1	0
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

West Tisbury **Population: 2,740**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	3	3	0	0	0	0	0	0
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

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	31	2	0	2	2	2	0	23	0	0
07062	Chilmark	8	8	0	0	0	0	0	0	0	0
07089	Edgartown	2	2	0	0	0	0	0	0	0	0
07109	Gosnold	0	0	0	0	0	0	0	0	0	0
07221	Oak Bluffs	94	6	0	3	10	7	27	41	0	0
07296	Tisbury	277	15	0	33	40	26	25	137	0	1
07327	West Tisbury	66	9	0	9	2	5	3	37	0	1
Total	Dukes County	478	42	0	47	54	40	55	238	0	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.



Essex County

2013 Fire Data Analysis

Essex County Fires in 2013

2,950 Total Fires — 1,511 Structures, 268 Vehicles & 1,171 Other Fires

Essex County ranked fourth out of the fourteen Massachusetts counties in total reported fires. The county reported 2,950 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 1,511 structure fires, 268 motor vehicle fires, 637 brush, tree or lawn fires, 292 outside rubbish fires, 87 special outside fires, five cultivated crop or vegetation fires, and 150 other fires caused six civilian deaths, 35 civilian injuries, 73 fire service injuries and an estimated dollar loss of \$22 million. Essex County's fires accounted for 10% of the 29,828 Massachusetts fires reported in 2013.

All 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 2013.

Structure & Outside Fires Down

The total number of reported fire incidents decreased by 52 incidents from the 3,002 that were reported in 2012. Reported structure fires decreased by 68 from the 1,579 reported during the previous year. The total number of motor vehicle fires increased by 33 from the 235 incidents reported during 2012. Reported outside and other fires decreased by 17 from the 1,188 reported the year before.

ESSEX COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2,780	1,642	333	805	186	32	19	134
2010	3,576	1,979	295	1,302	154	24	19	111
2011	3,008	1,884	291	833	108	23	18	67
2012	3,002	1,579	235	1,188	104	23	11	70
2013	2,950	1,511	268	1,171	110	21	10	79

Fire and Fire Death Rates

Essex County had 4.0 fires per 1,000 population. That figure ranks Essex County tied for sixth in the state and below the state rate of 4.6 fires per 1,000 population. Essex County had 0.08 fire deaths per 10,000 population making it fourth among Massachusetts counties and just above the state rate of 0.07 deaths per 10,000 population.

6 Residents Died in 6 Essex County Fires

- On January 26, 2013, at 11:02 p.m., the Gloucester Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire originated in first floor living room where the victim, a 55-year old woman, was found overcome by the heat and smoke. No one else was injured at this fire. It was undetermined if detectors were present and operated but the building was not sprinklered. Damages from the blaze were estimated to be \$240,000.

- On January 28, 2013, at 11:31 a.m., the Haverhill Fire Department was called to a fatal smoking fire in a six-unit apartment building. The victim, a 45-year old woman, was smoking inside of a bedroom closet. Items in the closet ignited. Detectors were present but they failed to operate because of a power shut-off. Sprinklers were not present. Damages were estimated to be \$20,000.
- On February 18, 2013, at 9:54 p.m., the Peabody Fire Department was called to a fatal smoking fire in a single-family home. The 79-year old female victim was found on the kitchen floor with burns to over 80% of her body surface area. Her clothes ignited as she was trying to light her cigarette. There were no other injuries at this fire. The fire was confined to the victim. It was undetermined if detectors were present. There were no sprinklers. Damages from this fire were not estimated.
- On April 9, 2013, at 10:38 p.m., the Gloucester Fire Department was called to a fatal electrical fire in a two-family home. The fire began in a bedroom. Someone was putting paper on a lampshade to dim the light. The heat from the light bulb ignited the paper and started the fire. The victim, a 15-year old girl was not able to escape and was overcome by the heat and smoke of the fire. She was transported to a local hospital where she succumbed to her injuries. One (1) other civilian was injured at this fire. Detectors were present and alerted the occupants. There were no sprinklers. The fire caused an estimated \$130,000 worth of damage.
- On May 5, 2013, at 3:32 a.m., the Salem Fire Department was dispatched to a fire in a two-family home of undetermined cause. The most likely causes were either a candle or careless disposal of smoking materials but neither one could be ruled out. The victim, a 54-year old man, was sleeping at the time but was overcome by the heat and smoke as he attempted to escape. There were no other injuries associated with this fire. Detectors were present but failed to operate due to dead batteries. The building was not sprinklered. Damages from this fire were estimated to be \$30,000.
- On October 9, 2013, at 11:46 a.m., the North Andover Fire Department responded to a fatal fire in a chemical processing plant. It is believed that the victim, a 51-year old male employee, either dropped a chemical container or a valve broke causing the pyrofluoric chemical to come into contact with the air causing an explosion and ensuing fire. No one else was injured at this fire. Detectors were present and operated. The sprinkler system activated and effectively suppressed the fire. Damages from this fire were estimated at \$1.1 million.

Salisbury Had Largest Loss Fire in 2013

In 2013, Essex County had four fires that were considered large loss, or greater than \$1 million in estimated damages. These four fires caused \$5.2 million in combined loss account for 24% of all dollar loss for the county in 2013.

- On December 9, 2013, at 6:39 p.m., the Salisbury Fire Department was dispatched to an undetermined fire in an electrical supply store. There were no injuries at this fire. Detectors were present and operated. The building was not sprinklered. Damages from this fire were estimated to be \$2 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 1,511 structure fires caused all six civilian deaths, 24 civilian injuries, 65 fire service injuries and an estimated dollar loss of \$19.6 million. These incidents represented 51% of Essex County's reported fires in 2013. The average estimated dollar loss per structure fire was \$12,988. The total number of reported structure fires decreased by 68, or 4%, from the 1,579 reported in 2012.

Arson Caused 1% of Structure Fires

The 21 structure arsons caused one civilian injury, two fire service injuries and an estimated dollar loss of \$135,700. Arson was indicated as the cause of 1% of the structure fires and 1% of Essex County's structure fire dollar loss. The 21 structure arsons accounted for 19% of the Essex County arson fires reported in 2013. The number of reported structure arsons decreased by two from the 23 reported in 2012.

Over 1/2 of Structure Arsons Occurred in Residences

Fifty-seven percent (57%) of Essex County's 21 structure arsons occurred in residential occupancies. Nineteen percent (19%) took place in educational facilities and storage facilities accounted for 14% of these arsons. Ten percent (10%) of Essex County's structure arsons in 2013 transpired in public assembly properties.

BUILDING FIRES

There were 1,500 building fires of different types in Essex County in 2013. These 1,500 building fires accounted for 99.3% of all structure fires in Essex County.

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

One thousand two hundred and seventy-two (1,272), or 85%, of Essex County's 1,500 building fires occurred in residential occupancies. Mercantile and business properties had 62 fires. Forty-five (45) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 34 fires. Twenty-eight (28) fires took place in storage properties. Twenty (20) building fires in Essex County occurred in special properties such as outbuildings, bus stop shelters and toll booths. Sixteen (16) building fires took place on educational properties. Fifteen (15) fires took place in manufacturing and processing facilities. Six (6) fires happened in industrial facilities, and two fires occurred in unclassified properties in Essex County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Down Slightly in 2013

There were 1,272 reported residential building fires in Essex County in 2013. These 1,272 fires are a decrease of 17, or 1%, from the 1,289 residential building fires reported in 2012.

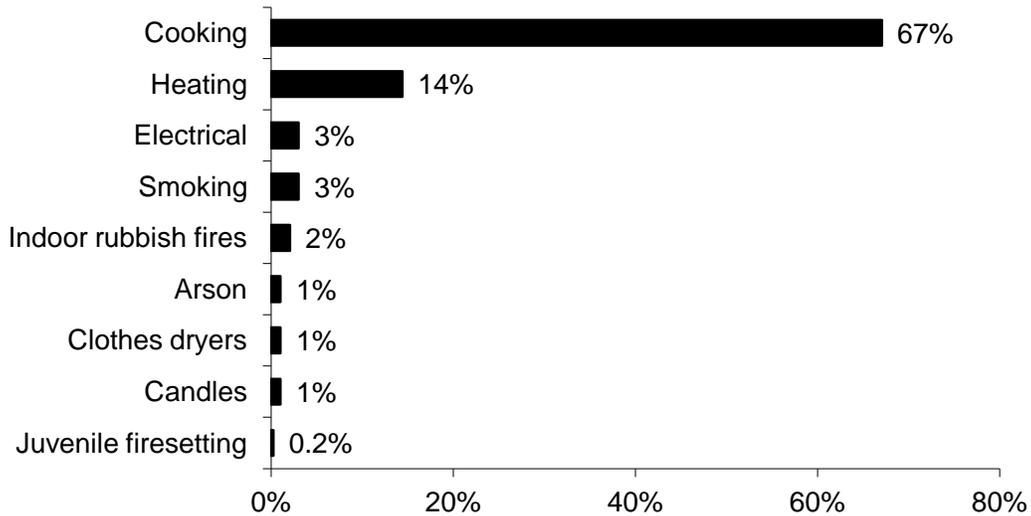
Apartments Accounted for 47% of Residential Building Fires

The peak fixed property uses for residential building fires were apartments accounting for almost half, or 47%, of the building fires in Essex County; another 42% occurred in 1- and 2-family homes; 3% happened in rooming houses; 2% took place in residential board and care facilities, 2% occurred in dormitories; and 1% happened in hotels or motels. Thirty-five (35), 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 67% of these fires. Heating was the second leading cause, accounting for 14% of these fires. Electrical problems and smoking each caused 3%. Indoor rubbish fires caused 2% of these fires. Clothes dryers, arson and candles each caused 1% of these fires; and juvenile-set fires caused less than 1% of the fires in people's homes in Essex County in 2013.

2013 Leading Causes of Fires in Essex County Homes



78% of Residential Building Fires Are Confined to Non-Combustible Containers¹

Nine hundred and ninety-three (993), or 78%, of all residential building fires were reported as confined to non-combustible containers in 2013. Eight hundred and twenty-

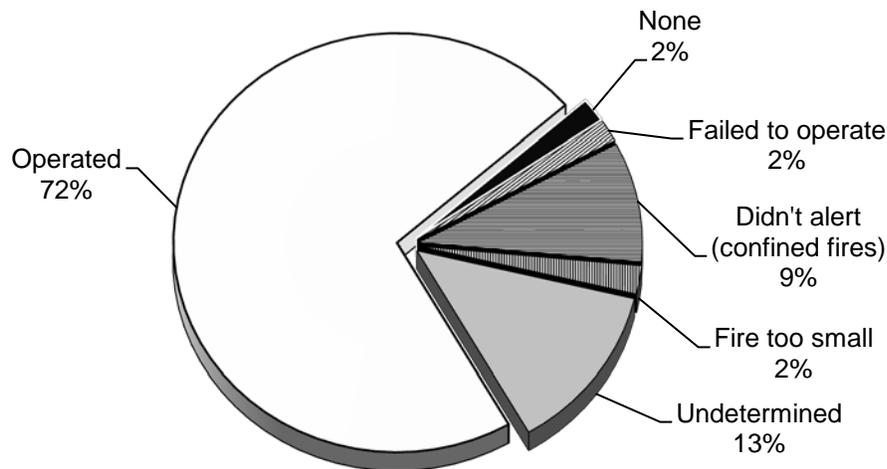
¹ In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

four (824), or 65%, of all residential building fires reported in 2013 were cooking fires contained to a non-combustible container. Eighty-seven (87), or 9%, were fires confined to a fuel burner or boiler malfunction. Fifty-seven (57) of the reported fires were confined to a chimney accounting for 6% of residential building fires. Twenty-five (25), or 3%, of these fires were rubbish fires contained to a non-combustible container.

Detectors Operated in Almost 3/4 of Fires

Smoke or heat detectors operated and alerted the occupants in 915, or 72%, of the residential building fires. In 9% of these fires², 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 2% of the residential fires. Smoke detector performance was undetermined in 165 incidents, or 13%, of Essex County's residential building fires.

Detector Status in Essex County's Residential Structure Fires 2013



Over 1/4 of Failed Detectors Had Missing or Dead Batteries

Of the 22 fires where smoke detectors were present but failed to operate, five, or 23%, failed because the batteries were either missing or disconnected. Two (2), or 9%, failed because of power failures, shutoffs or disconnects. One (1), or 5%, did not operate because of dead batteries. One (1) detector, or 5%, failed because of improper installation or placement. Another detector, or 5%, failed because it was defective; and one other detector, or 5%, failed from a lack of maintenance. It was undetermined or unclassified in 11 cases, or 50%, why the detectors 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

Essex County reported 20 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 1,500 building fires reported to MFIRS in 2013. Storage facilities accounted for nine vacant building fire incidents. Seven (7) fires occurred in vacant residential properties. Public assembly facilities accounted for one vacant building fire. Mercantile or business facilities had one vacant building fire incident in Essex County in 2013.

Four (4) of the vacant building fires in Essex County in 2013 were determined to be intentionally set. Two (2) outbuildings or sheds, a single-family home and a playground had vacant building arsons.

JUVENILE-SET FIRES

13 Juvenile-set Fires

There were 13 reported juvenile-set fires in Essex County in 2013. The five structure fires, two brush fires, one outside rubbish fire, three special outside fires and two unclassified fires caused 19 fire service injuries and \$230,016 in estimated damages.

ARSONS

110 Total Arsons — 21 Structures, 10 Vehicles & 79 Other Arsons

One hundred and ten (110), or 4%, of Essex County's 2,950 fires were considered intentionally set, or, for purposes of this analysis, arson. The 21 structure arsons, 10 motor vehicle arsons and 79 outside and other arsons caused one civilian injury, two fire service injuries and an estimated dollar loss of \$151,986.

Structure & Motor Vehicle Arsons Down Slightly

The total number of reported arson fires decreased by six from the 108 reported in 2012. Reported structure arsons decreased by two from the 23 reported in 2012. Motor vehicle arsons decreased by one from the 11 reported in 2012. Outside and other arsons increased by nine from 70 reported the year before.

ALL INCIDENTS

Rescue & EMS Calls Are 55% of All Reported Responses

In 2013, fire departments in Essex County reported 96,156 responses³ to MFIRS. Of these 96,156 incidents, 93,111 non-fire calls were voluntarily reported.

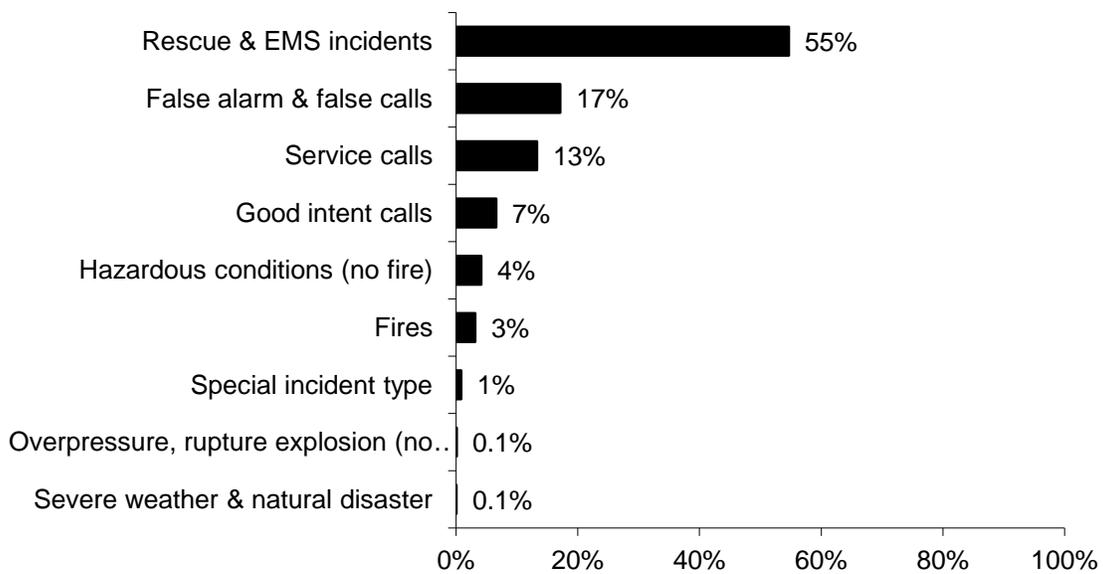
Of these 93,111 non-fire calls, 52,560, or 55%, of all the reported responses in 2013 were reported rescue and emergency medical services (EMS) calls; 16,456, or 17%, were

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

reported false alarm or false calls; 12,790, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 6,341, or 7%, were reported good intent calls; 4,000, or 4%, were reported hazardous condition calls with no fire; 805, or 1%, were special incident type calls such as citizen complaints; 94, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 65, or 0.1%, were severe weather responses.

Three thousand and forty-five (3,045), or 3%, of the total incidents submitted by Essex County fire departments were fires.

2013 Responses by Incident Type



Essex County Fire Departments Reported Giving Mutual Aid 1,071 Times

In 2013, Essex County fire departments reported coming to the aid of other fire departments 1,071 times. Of these 1,071 responses, 392, or 37%, were for service calls such as cover assignments; 344, or 32%, were for rescue or EMS calls; 157, or 15%, were for good intent calls; 92, or 9%, were for fires; 62, or 6%, were for false alarms or false calls; 17, or 2%, were for hazardous conditions calls with no fire; five, or 0.5%, were special incident types; and two, or 0.2%, were for overpressure, rupture explosions with no fire calls.

Essex County Received Mutual Aid in 917 Incidents

In 2013, Essex County fire departments reported receiving aid from surrounding departments in 917 incidents. Of these 917 incidents, 549, or 60%, were rescue and emergency medical services calls; 179, or 20%, were for fires; 102, or 11%, were false alarms or false calls; 35, or 4%, were hazardous conditions calls with no fire; 29, or 3%, were good intent calls; 21, or 2%, were service calls; one, or 0.1%, was a reported overpressure, rupture, explosion or overheat call with no fire; and another one, or 0.1%, was for a special incident type call.

Essex County

Population: 743,159

4.0 Fires/1,000 Population

Total Fires: 2,950 \$21,987,364

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	1,511	51%	\$19,625,424
Vehicle Fires	268	9%	2,165,771
Other Fires	1,171	40%	196,169

6 Fatal Fires 2.03 Civilian Deaths/1,000 Fires
 6 Civilian Deaths 0.08 Civilian Deaths/10,000 Population
 35 Civilian Injuries 73 Fire Service Injuries

Building Fires: 1,500

Residential Structure Fires: 1,272

Residential Structure Fires Confined to Non-Combustible Containers: 993

Unconfined Residential Structure Fires: 279

5 Civilian Deaths 19 Civilian Injuries 53 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	604	47%	Operated	915	72%
1- & 2-Family homes	528	42%	Didn't operate	22	2%
Rooming houses	43	3%	None	24	2%
Residential board & care	29	2%	Fire too small	28	2%
Dormitories	25	2%	Didn't alert (confined)	118	9%
Hotels/motels	8	1%	Undetermined	165	13%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	69%	Heat from operating equip.	3%	12%
Heating equipment room	7%	Cigarette	2%	10%
Chimney or flue	4%	Arcing	2%	9%
Bedroom	2%	Hot or smoldering obj., other	2%	9%
Living room	1%	Radiated heat from oper. eq.	1%	6%
Exterior balcony/unencl. porch	1%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	66%	Abandoned materials	2%	8%
Flammable/comb. liquid	7%	Too close to combustibles	1%	7%
Film, residue (creosote)	4%	Misuse of materials or prod.	1%	5%
Rubbish, trash, waste	3%	Failure to clean	1%	5%
Structural member, framing	1%	Electrical failure, malfunc.	0.4%	4%
		Unspecif. short-cir, arc	0.4%	2%
		Equipment unattended	0.4%	2%

Equipment⁸		Cause of Ignition	%	%Unconfined⁹
Kitchen & cooking equipment	66%	Unintentional	13%	61%
None	14%	Failure of eq. or heat source	2%	8%
Boiler, furnace, cent. heat. unit	7%	Intentional	1%	4%
Chimney, flue	5%	Undetermined	2%	8%
Clothes dryer	1%	Cause under investigation	4%	17%
		Act of Nature	0.2%	1%

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

Alerted occupants	77%
Didn't alert occupants	12%
Undetermined	11%

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	226	157	15	54
February	179	122	19	38
March	203	137	18	48
April	333	137	18	178
May	315	105	30	180
June	226	107	31	88
July	23	105	30	99
August	308	135	17	156
September	221	99	25	97
October	285	151	21	113
November	2226	113	22	91
December	194	143	22	29

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	444	218	32	194
Monday	392	204	36	152
Tuesday	394	222	39	133
Wednesday	387	213	36	138
Thursday	446	214	43	189
Friday	411	212	44	155
Saturday	476	228	38	210

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	179	94	23	62
04:01 - 08:00	171	100	22	49
08:01 - 12:00	459	249	44	166
12:01 - 16:00	804	350	63	391
16:01 - 20:00	896	472	67	357
20:01 - 00:00	441	246	49	146

Motor Vehicle Fires

Total: 268

Automobiles: 224 (84%)

9, or (4%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 110

Dollar loss: \$151,986

0.15 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	21	1%	19%	\$135,700
Vehicle Arsons	10	4%	9%	14,000
Other Arsons	79	7%	72%	2,286

0.03 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.11 Other arsons/1,000 population

1 Civilian Injury

2 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
08:01 - 12:00	5	23%	00:01 - 04:00	4	40%
16:01 - 20:00	5	23%	04:01 - 08:00	2	20%
			20:00 - 00:00	2	20%

Other Arsons	#	%
16:01 - 20:00	30	38%
20:01 - 00:00	22	28%
12:01 - 16:00	11	14%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartment buildings	6	29%
1- and 2-Family homes	4	19%
Schools, non-adult	3	14%
Outbuilding or shed	2	10%

Amesbury					Population: 16,283			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	52	35	8	9	1	0	0	1
2010	51	26	4	21	0	0	0	0
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

Andover					Population: 33,201			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	127	75	22	30	4	1	1	2
2010	130	59	24	47	1	1	0	0
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

Beverly					Population: 39,502			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	128	66	17	45	5	0	2	3
2010	118	51	13	54	2	1	0	1
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

Boxford					Population: 7,965			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	25	12	5	8	1	0	0	1
2010	30	9	9	12	0	0	0	0
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

Danvers**Population: 26,493**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	90	31	13	46	1	0	1	0
2010	188	52	13	123	9	1	0	8
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

Essex**Population: 3,504**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	11	5	11	1	0	0	1
2010	15	7	2	6	0	0	0	0
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

Georgetown**Population: 8,183**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	70	59	5	6	0	0	0	0
2010	71	58	2	11	0	0	0	0
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

Gloucester**Population: 28,789**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	124	65	20	39	7	1	1	5
2010	164	91	9	64	7	1	1	5
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

Groveland**Population: 6,459**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	4	2	0	0	0	0	0
2010	3	2	1	0	0	0	0	0
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

Hamilton**Population: 7,764**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	16	2	3	0	0	0	0
2010	56	36	2	18	0	0	0	0
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

Haverhill**Population: 60,879**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	305	182	21	102	69	1	1	65
2010	227	158	10	59	36	2	0	34
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

Ipswich**Population: 13,175**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	24	13	7	4	2	0	0	2
2010	30	9	2	19	3	0	0	3
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

Lawrence					Population: 76,377			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	219	114	45	62	43	17	6	20
2010	412	208	45	159	25	6	9	10
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

Lynn					Population: 90,329			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	257	199	19	39	4	3	1	0
2010	482	378	20	84	5	2	2	1
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

Lynnfield					Population: 11,596			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	83	54	10	19	1	0	0	1
2010	94	50	7	37	2	1	0	1
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

Manchester-By-The-Sea					Population: 5,136			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	16	5	6	0	0	0	0
2010	29	14	5	10	1	0	0	1
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

Marblehead**Population: 19,808**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	39	25	3	11	2	0	0	2
2010	43	20	2	21	1	1	0	0
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

Merrimac**Population: 6,338**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	62	35	4	23	9	0	0	9
2010	63	28	10	25	12	0	1	11
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

Methuen**Population: 47,255**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	150	86	23	41	4	1	1	2
2010	189	105	25	59	12	3	2	7
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

Middleton**Population: 8,987**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	125	113	2	10	1	0	0	1
2010	187	146	5	36	0	0	0	0
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

Nahant**Population: 3,410**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	7	3	1	3	0	0	0	0
2010	9	4	0	5	0	0	0	0
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

Newbury**Population: 6,666**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	13	1	7	1	1	0	0
2010	53	30	2	21	4	0	0	4
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

Newburyport**Population: 17,416**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	13	6	1	6	0	0	0	0
2010	18	13	4	1	0	0	0	0
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

North Andover**Population: 28,352**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	135	104	8	23	1	0	0	1
2010	145	84	12	49	12	3	2	7
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

Peabody**Population: 51,251**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	127	61	21	45	2	0	0	2
2010	193	79	19	95	2	0	0	2
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

Rockport**Population: 6,952**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	7	1	2	0	0	0	0
2010	12	9	0	3	0	0	0	0
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

Rowley**Population: 5,856**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	20	5	2	0	0	0	0
2010	20	7	2	11	0	0	0	0
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

Salem**Population: 41,340**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	171	59	25	87	10	1	3	6
2010	174	73	9	92	3	0	2	1
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

Salisbury					Population: 8,283			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	3	5	2	0	0	0	0
2010	29	12	7	10	1	0	0	1
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

Saugus					Population: 26,628			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	166	68	14	84	7	1	1	5
2010	170	57	20	93	8	0	0	8
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

Swampscott					Population: 13,787			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	40	23	4	13	8	4	0	4
2010	63	27	4	32	1	0	0	1
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

Topsfield					Population: 6,085			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	70	55	5	10	2	0	0	2
2010	80	63	3	14	4	0	0	4
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

Wenham					Population: 4,875			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	9	4	3	0	0	0	0
2010	19	11	2	6	1	1	0	0
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

West Newbury					Population: 4,235			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	7	1	1	5	0	0	0	0
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

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	2,960	48	3	1,587	133	764	201	219	3	2
09009	Andover	2,736	65	7	1,106	176	254	100	651	3	374
09030	Beverly	4,172	106	11	2,130	217	323	214	1,161	1	9
09038	Boxford	702	41	0	378	38	37	36	164	6	2
09071	Danvers	7,119	103	4	2,905	164	2,792	244	857	0	50
09092	Essex	165	15	0	29	24	23	12	59	2	1
09105	Georgetown	1,430	43	2	521	72	606	54	129	3	0
09107	Gloucester	4,628	123	1	3,004	195	391	349	554	1	10
09116	Groveland	2	2	0	0	0	0	0	0	0	0
09119	Hamilton	418	24	0	45	39	86	41	178	3	2
09128	Haverhill	8,222	268	5	4,948	299	700	494	1,488	1	19
09144	Ipswich	1,575	34	1	821	109	138	161	309	0	2
09149	Lawrence	6,131	273	12	2,805	233	290	629	1,848	0	41
09163	Lynn	11,765	485	11	6,987	333	1,095	795	2,052	1	6
09164	Lynnfield	1,425	97	3	845	71	108	65	233	0	3
09166	Manchester	947	20	1	458	65	140	61	193	2	7

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
09168	Marblehead	2,537	47	1	1,060	116	478	392	429	4	10
09180	Merrimac	867	52	0	551	26	67	74	93	1	3
09181	Methuen	6,631	125	1	4,830	245	471	237	695	2	25
09184	Middleton	1,091	99	0	499	45	180	65	196	1	6
09196	Nahant	532	14	0	274	37	103	26	72	2	4
09205	Newbury	1,198	74	3	481	50	349	65	162	10	4
09206	Newburyport	13	12	0	0	1	0	0	0	0	0
09210	North Andover	4,015	100	7	2,660	131	311	165	553	0	88
09229	Peabody	7,902	153	5	5,065	324	397	692	1,251	8	7
09252	Rockport	141	5	0	6	42	13	1	73	1	0
09254	Rowley	598	41	0	333	22	50	80	72	0	0
09258	Salem	6,072	185	6	3,197	375	483	329	1,489	3	5
09259	Salisbury	943	50	0	655	42	56	39	95	0	6
09262	Saugus	4,130	157	2	2,251	159	349	508	589	0	115
09291	Swampscott	1,881	59	7	1,041	139	234	126	271	1	3
09298	Topsfield	2,187	94	1	549	36	1,369	32	104	1	1
09320	Wenham	593	15	0	336	26	58	24	134	0	0
09324	West Newbury	428	16	0	203	16	75	30	83	5	0
Essex County		96,156	3,045	94	52,560	4,000	12,790	6,341	16,456	65	805

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.

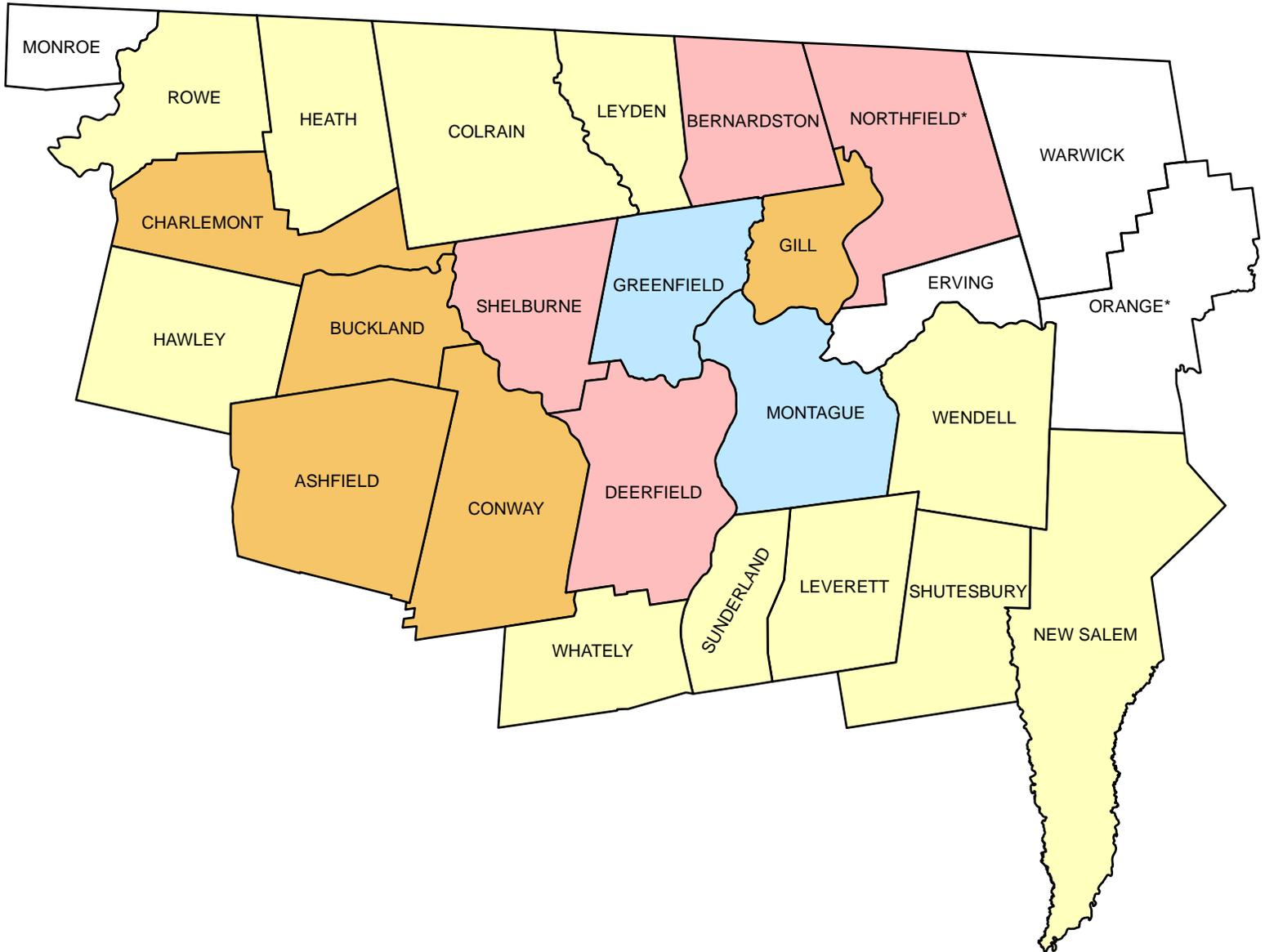
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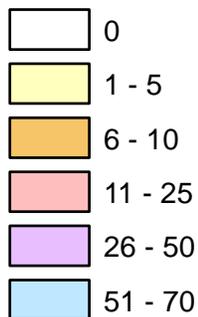
Franklin County

2013 Fire Data Analysis

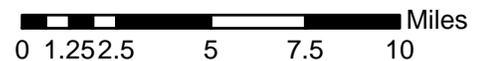
Franklin County Fires 2013



2013 Fires



*Non-reporting Department



Franklin County Fires in 2013

287 Total Fires — 140 Structures, 32 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 287 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 140 structure fires, 32 motor vehicle fires, 73 brush, tree or lawn fires, 25 outside rubbish fires, six special outside fires, and 11 unclassified fires caused five civilian deaths, two civilian injuries, two fire service injuries and an estimated dollar loss of \$2 million. Franklin County's fires accounted for 1% of the 29,828 Massachusetts fires reported in 2013.

Twenty-eight (28) of the 29, or 96.6%, 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 2013.

All Fires Up Slightly

The total number of reported fire incidents increased by two, or 1%, from the 285 reported in 2012. Reported structure fires increased by 11 from the 129 reported during the previous year. Motor vehicle fires increased by three from the 29 reported in 2012. Outside and other fires decreased by 12 from the 127 reported the year before.

FRANKLIN COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	307	164	27	116	17	2	1	14
2010	412	193	43	176	30	8	1	21
2011	235	140	29	66	13	4	2	7
2012	285	129	29	127	18	6	1	11
2013	287	140	32	115	20	1	0	19

Fire and Fire Death Rates

Franklin County had 4.0 fires per 1,000 population. That figure ranks Franklin County tied for sixth in the state and below the state rate of 4.8 fires per 1,000 population. Franklin County had 0.7 fire deaths per 10,000 population ranking it first among Massachusetts counties and above the state rate of 0.07 fire deaths per 10,000 population.

5 People Died in 3 Franklin County Fires

Franklin County had five civilians die in three fires in 2013. Two (2) of the deaths occurred in a building fire, and three died in two motor vehicle fires.

- On April 3, 2013, at 11:30 p.m., the Whately Fire Department responded to a fatal heating fire at a single-family home. The fire started underneath the floor of an old prefabricated fireplace where, over time, the fireproof brick had cracked and the metal fireplace rusted and decayed. This allowed the heat and possibly sparks from the woodstove and fireplace to come into contact with structural members. One of the victims was a 94-year old woman who was asleep at the time of the fire and was

overcome by the heat and smoke. The other victim was her 64-year old daughter who was overcome attempting to rescue her mother. They were both transported to a local hospital where they succumbed to their injuries. No one else was injured at this fire. Detectors were present, and they alerted the occupants. The building did not have any sprinklers. Damages from this fire were not estimated.

- On July 7, 2013 at 2:58 a.m., the Greenfield Fire Department was dispatched to Interstate 91 for a tractor trailer on fire. The truck was off the road approximately 100 feet into the woods. Both victims were trapped inside the vehicle. The victims were a 33-year old man and a 45 year old woman.
- On October 8, 2013, at 5:34 p.m., the Montague Center Fire Department was called to a fatal motor vehicle crash with ensuing fire. The driver and only victim was a 70-year old man.

Shelburne Has Franklin County's Largest Loss Fire

- On April 23, 2013, at 10:31 p.m., the Shelburne Fire Department was called to an arson fire in a two-family home. One civilian, the arsonist, and one firefighter were injured at this fire. Detectors were present and alerted the occupants of the home. There were no sprinklers. Damages from this fire were estimated to be \$550,000.

STRUCTURE FIRES

Reported Structure Fires Up

The 140 structure fires caused two civilian deaths, two civilian injuries, two fire service injuries, and an estimated dollar loss of \$1.9 million. These incidents represented 49% of Franklin County's reported fires in 2013. The average estimated dollar loss per structure fire was \$7,233. The total number of reported structure fires increased by 11, or 9%, from the 129 reported in 2012.

Arson Caused 1% of Structure Fires

The one structure arson caused one civilian injury, one fire service injury and an estimated dollar loss of \$550,000. Arson was indicated as the cause of 1% of the structure fires and 30% of Franklin County's structure fire dollar loss. The single structure arson accounted for 5% of the Franklin County arson fires reported in 2013. The total number of reported structure arsons decreased by five, or 83%, from the six reported in 2012.

1 Structure Arson Occurred in a Residence

The single Franklin County's structure arson in 2013 occurred in a residential property.

BUILDING FIRES

There were 138 building fires of different types in Franklin County in 2013. These 138 building fires accounted for 98.6% of all structure fires in Franklin County.

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

One hundred and sixteen (116), or 84%, of Franklin County’s 138 building fires occurred in residential occupancies. Special properties had seven fires. Mercantile or business properties and storage facilities each had four fires. Public assembly properties and institutional facilities each had three fires. Educational facilities had one fire in Franklin County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Up

There were 116 reported residential building fires in Franklin County in 2013. These 116 fires are an increase of 14, or 14%, from the 102 residential building fires reported in 2012.

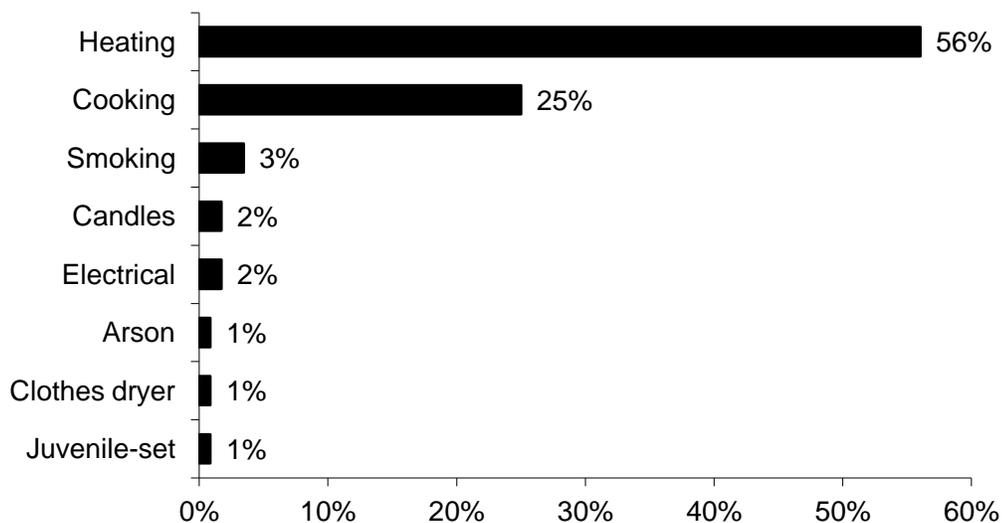
1- & 2-Family Homes Accounted for Over 3/4 of Residential Building Fires

The peak fixed property uses for residential building fires were one- & two-family homes, accounting for 78% of the building fires in Franklin County; 17% occurred in apartments; 2% happened in rooming houses and 1% in residential board and care facilities.

Heating Leading Cause of Residential Fires

Heating was the leading cause of residential fires in Franklin County in 2013. Fifty-six percent (56%) of the residential fires were caused by heating. Eighty-five percent (85%) of these heating fires involved chimneys. Franklin County was the only county where cooking was not the leading cause of residential fires in 2013. Unattended cooking and other unsafe cooking practices accounted for 25% of the fires in people’s homes. Smoking fires caused 3% of these fires. Candles and electrical fires each accounted for 2% of the residential building fires. Arson, clothes dryers and juvenile-set fires each caused 1% of the fires in people’s homes in Franklin County in 2013.

2013 Leading Causes of Fires in Franklin County Homes



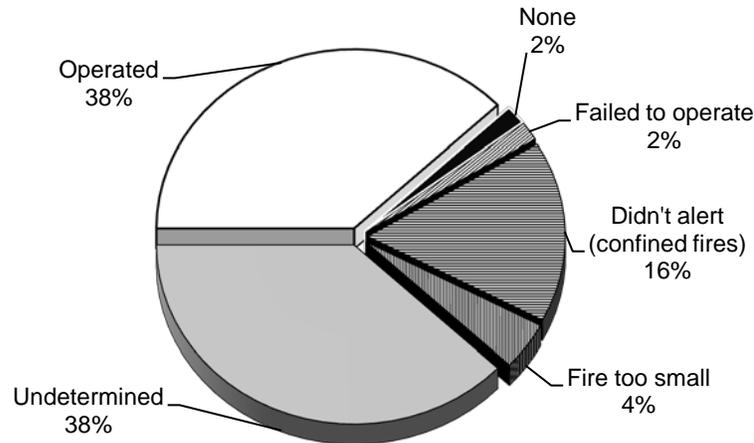
70% of Residential Building Fires Are Confined to Non-Combustible Containers¹

Eighty-one (81), or 70%, of these fires were confined to a non-combustible container. Fifty-one (51), or 44%, of all residential building fires reported in 2013 were fires confined to a chimney or flue. Twenty-two (22) of the reported fires were cooking fires contained to a non-combustible container accounting for 19% of residential building fires. Seven (7), or 6%, were fires confined to a fuel burner or boiler malfunction. One (1), or 1%, of these fires was an indoor rubbish fire contained to a non-combustible container in Franklin County in 2013.

Detector Operation Undetermined in 38% of Fires

Smoke or heat detectors operated and alerted the occupants in 44, or 38%, of the residential building fires. In 16% of these fires², the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these fires. 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 44 incidents, or 38%, of Franklin County's residential building fires.

Detector Status in Franklin County's Residential Structure Fires 2013



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

2% of Building Fires Occurred in Vacant Buildings

Franklin County reported three fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 138 building fires reported to MFIRS in 2013. One (1) fire occurred at a vacant residence; one occurred at a vacant public assembly property; and one occurred at a storage facility in Franklin County in 2013.

One (1) of the vacant building fires in Franklin County in 2013 was determined to be intentionally set. It occurred in a two-family home.

JUVENILE-SET FIRES

12 Juvenile-set Fires

There were 12 reported juvenile-set fires in Franklin County in 2013. The one structure fire, eight brush fires, one outside trash fire, one special outside fire, and one unclassified fires caused an estimated \$5,500 in damages.

ARSONS

20 Total Arsons — 1 Structure & 19 Other Arsons

Nineteen (19), or 7%, of Franklin County's 287 fires were intentionally set, or, for purposes of this analysis, arson. The one structure arson and 19 outside and other arsons caused one civilian injury, one fire service injury and an estimated dollar loss of \$550,000.

Structure & Motor Vehicle Arson Down

The number of arsons increased by two, or 11%, from the 18 reported in 2012. Structure arsons decreased by five from six reported in 2012. Motor vehicle arsons decreased by one from one reported the previous year. Outside and other arsons increased by eight from the 11 reported in 2012.

ALL INCIDENTS

Rescue & EMS Calls Are 49% of All Reported Responses

In 2013, Franklin County fire departments reported 5,293 responses³ to MFIRS. Of these 5,293 incidents, 4,836 non-fire calls were voluntarily reported.

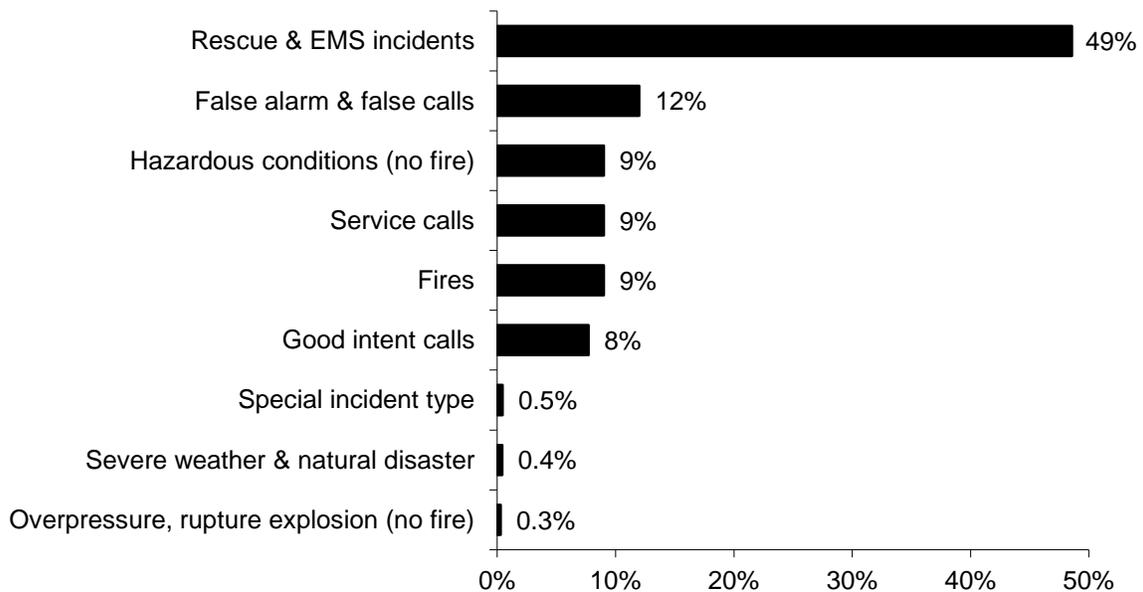
Of these 4,836 non-fire calls, 2,571, or 49%, of all of the responses reported in 2013 were reported rescue and emergency medical services (EMS) calls; 810, or 12%, were reported false alarm or false calls; 498 or 9%, were reported hazardous condition calls with no

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

fire; 488, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 408, or 8%, were reported good intent calls; 24, or 0.5%, were special incident type calls such as citizen complaints; 22, or 0.4%, were severe weather responses; and 15, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Four hundred and fifty-seven (457), or 9%, of the total incidents submitted by Franklin County fire departments were fires.

2013 Responses by Incident Type



Franklin County Fire Departments Gave Mutual Aid 313 Times

In 2013, Franklin County fire departments reported coming to the aid of other fire departments 313 times. Of these 313 responses, 167, or 53%, were for fires; 65, or 21%, were for service calls such as cover assignments; 39, or 12%, were for rescue or EMS calls; 26, or 8%, were for good intent calls; 11, or 4%, were for hazardous conditions calls with no fire; two, or 1%, were for false alarms or false calls; another two, or 1%, were special incident types; and one, or 0.3%, was an overpressure, rupture explosion with no fire.

Franklin County Received Mutual Aid in 230 Incidents

In 2013, Franklin County fire departments reported receiving aid from surrounding departments in 230 incidents. Of these 230 incidents, 164, or 71%, were rescue and emergency medical services calls; 47, or 20%, were for fires; six, or 3%, were hazardous conditions calls with no fire; five, or 2%, were false alarm or false calls; four, or 2%, were service calls; three, or 1%, were good intent calls; and one, or 0.4%, was a severe weather or natural disaster call.

Franklin County**Population: 71,372****4.0 Fires/1,000 Population****Total Fires: 287 \$2,017,070**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	140	49%	\$1,860,220
Vehicle Fires	32	11%	154,650
Other Fires	115	40%	2,200

3 Fatal Fires	17.42 Civilian Deaths/1,000 Fires
5 Civilian Deaths	0.70 Civilian Deaths/10,000 Population
2 Civilian Injuries	2 Fire Service Injuries

Building Fires: 138**Residential Structure Fires: 116****Residential Structure Fires Confined to Non-Combustible Containers: 81****Unconfined Residential Structure Fires: 35**

2 Civilian Deaths	2 Civilian Injuries	2 Fire Service Injuries
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Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	91	78%	Operated	22	38%
Apartments	20	17%	Didn't operate	2	2%
Rooming houses	2	2%	None	2	2%
Residential board & care	1	1%	Fire too small	5	4%
			Didn't Alert (confined)	19	16%
			Undetermined	44	38%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Chimney or flue	44%	Radiated heat from oper. eq.	8%	26%
Kitchen	25%	Hot ember or ash	3%	11%
Heating room or area	6%	Heat from oper. equipment	2%	6%
Exterior balcony, unencl. porch	4%	Cigarette	2%	6%
Bedroom	3%	Heat from direct flame	2%	6%
Wall assembly, concealed space	3%	Candle	2%	6%
Wall surface, exterior	3%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	% Unconfined⁷
Film, residue (creosote)	44%	Failure to clean	9%	29%
Cooking materials	22%	Too close to combustibles	7%	23%
Structural member, framing	7%	Equipment unattended	6%	20%
Flamm. or combustible liquid	6%			

Equipment⁸	%	Cause of Ignition	%	% Unconfined⁹
Chimney or flue	44%	Unintentional	20%	66%
Cooking equipment	25%	Failure of eq. or heat source	3%	11%
None	18%	Intentional	1%	3%
Boiler, furnace, cent. heat. unit	6%	Act of nature	1%	3%
		Cause under investigation	3%	11%
		Undetermined	2%	6%

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

Alerted occupants	32%
Didn't alert occupants	23%
Undetermined	44%

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	31	24	2	5
February	14	7	3	4
March	33	19	1	13
April	45	13	3	29
May	34	13	5	16
June	15	6	4	5
July	12	4	3	5
August	19	9	5	5
September	13	4	3	6
October	20	13	1	6
November	36	15	1	20
December	15	13	1	1

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	51	25	5	21
Monday	27	14	2	11
Tuesday	35	19	5	11
Wednesday	40	16	5	19
Thursday	39	22	4	13
Friday	40	22	4	14
Saturday	55	22	7	26

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	17	8	5	4
04:01 - 08:00	19	14	0	5
08:01 - 12:00	54	27	8	19
12:01 - 16:00	82	34	7	41
16:01 - 20:00	69	38	8	23
20:01 - 00:00	46	19	4	23

Motor Vehicle Fires

Total: 32

Automobiles: 25 (78%)

0, or 0%, of the automobile fires were considered intentionally set.

Arson Fires**Total Arsons: 20****Dollar loss: \$550,000****0.3 Arson Fires/1,000 Population**

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	1	1%	5%	\$550,000
Vehicle Arsons	0	0%	0%	0
Other Arsons	19	17%	95%	0

0.01 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.27 Other arsons/1,000 population

1 Civilian Injury

1 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
20:01 - 00:00	1	100%			

Other Arsons	#	%
20:01 - 00:00	8	42%
12:01 - 16:00	7	37%
08:01 - 12:00	2	11%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family homes	1	100%

Ashfield					Population: 1,737			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	2	0	0	0	0	0	0
2010	3	3	0	0	0	0	0	0
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

Bernardston					Population: 2,129			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	4	3	9	2	0	0	2
2010	15	6	1	8	2	0	0	2
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

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
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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

Charlemont					Population: 1,266			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	3	0	3	2	0	0	2
2010	6	4	0	2	0	0	0	0
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

Colrain					Population: 1,671			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	5	1	3	0	0	0	0
2010	23	12	2	9	3	0	0	3
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

Conway					Population: 1,897			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	12	8	0	4	0	0	0	0
2010	12	7	0	5	2	1	0	1
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

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
2009	10	2	1	7	1	0	0	1
2010	5	1	0	4	0	0	0	0
2011	Non-Reporting Community							
2012	7	2	1	4	0	0	0	0
2013	5	2	1	2	0	0	0	0

South Deerfield					Est. Pop. Protected: 2,306			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	12	5	1	6	0	0	0	0
2010	17	7	6	4	0	0	0	0
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

Erving					Population: 1,800			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	3	1	0	0	0	0	0
2010	1	1	0	0	1	1	0	0
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							

Gill					Population: 1,500			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	3	0	3	2	0	0	2
2010	10	5	1	4	1	0	0	1
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

Greenfield					Population: 187,456			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	100	62	7	31	7	2	0	5
2010	98	43	13	42	9	2	0	7
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

Hawley					Population: 337			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	0	1	0	0	0	0	0
2010	1	1	0	0	0	0	0	0
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

Heath					Population: 706			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	2	0	3	0	0	0	0
2010	5	30	2	0	0	0	0	0
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

Leverett					Population: 1,851			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	1	0	1	0	0	0	0
2010	4	3	1	0	0	0	0	0
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

Leyden					Population: 711			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Non-Reporting Community							
2010	4	4	0	0	0	0	0	0
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

Monroe					Population: 121			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	1	1	0	0	0	0	0	0
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							

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
2009	22	11	0	11	0	0	0	0
2010	21	7	0	14	0	0	0	0
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

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

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	30	22	1	7	1	0	0	1
2010	51	26	3	22	3	2	0	1
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

New Salem**Population: 990**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	2	1	6	1	0	1	0
2010	14	1	3	10	1	0	0	1
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

Northfield**Population: 3,032**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	3	2	1	0	0	0	0
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	21	8	1	12	1	0	0	1

Orange**Population: 7,839**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	32	14	5	13	0	0	0	0
2010	48	25	3	20	0	0	0	0
2011	33	22	4	7	1	0	0	1
2012	9	5	1	3	1	0	0	1
2013	Non-Reporting Community							

Rowe**Population: 393**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	Non-Reporting Community							
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

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
2009	2	1	0	1	0	0	0	0
2010	5	4	0	1	0	0	0	0
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

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

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	1	1	2	0	0	0	0
2010	7	5	1	1	0	0	0	0
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

Shutesbury					Population: 1,771			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	3	0	2	0	0	0	0
2010	8	2	4	2	0	0	0	0
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

Sunderland					Population: 3,684			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	2	0	1	0	0	0	0
2010	22	11	3	8	3	2	0	1
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

Warwick					Population: 780			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	2	1	0	1	0	0	0	0
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							

Wendell					Population: 848			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	1	0	1	0	0	0	0
2010	3	2	0	1	0	0	0	0
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

Whately	Population: 1,496							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	2	2	1	0	0	0	0
2010	10	1	2	7	2	0	1	1
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

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	161	15	0	105	11	9	0	14	7	0
11029	Bernardston	268	39	1	162	16	22	8	18	2	0
11047	Buckland	33	10	0	0	11	6	1	5	0	0
11053	Charlemont	76	12	0	29	8	4	1	21	0	1
11066	Colrain	42	3	0	30	1	5	0	1	1	1
11068	Conway	57	16	0	3	27	4	0	7	0	0
11975	Deerfield	114	5	0	10	13	16	0	70	0	0
11,091	Erving*	0	0	0	0	0	0	0	0	0	0
11106	Gill	100	18	0	12	9	21	6	28	2	4
11114	Greenfield	2,376	88	2	1,328	201	138	220	387	3	9
11129	Hawley	11	1	0	6	4	0	0	0	0	0
11130	Heath	38	8	1	22	1	0	2	4	0	0
11154	Leverett	3	3	0	0	0	0	0	0	0	0
11156	Leyden	16	5	0	0	4	1	2	4	0	0
11,190	Monroe*	0	0	0	0	0	0	0	0	0	0
11192	Montague Center	147	22	1	77	12	17	9	8	1	0
11204	New Salem	103	17	0	47	14	10	7	4	4	0
11217	Northfield	142	33	0	8	35	14	5	47	0	0
11,223	Orange**	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 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
11253	Rowe	51	9	0	36	1			4	0	1
11990	Shelburne Ctr	129	21	1	63	15	8	12	9	0	0
11989	Shelburne Falls	73	13	3	3	11	6	9	26	0	2
11272	Shutesbury	25	9	0	7	7			2	0	0
11976	South Deerfield	204	41	1	26	40	12	18	64	2	0
11289	Sunderland	36	2		29			2	3	0	0
11984	Turners Falls	1,057	59	5	560	53	189	104	81	0	6
11319	Wendell	1	1	0	0	0	0	0	0	0	0
11337	Whately	30	7	0	8	4	6	2	3	0	0
Total	Franklin County	5,293	457	15	2,571	498	488	408	810	22	24

* Certified no reportable fires.

**Non reporting department.

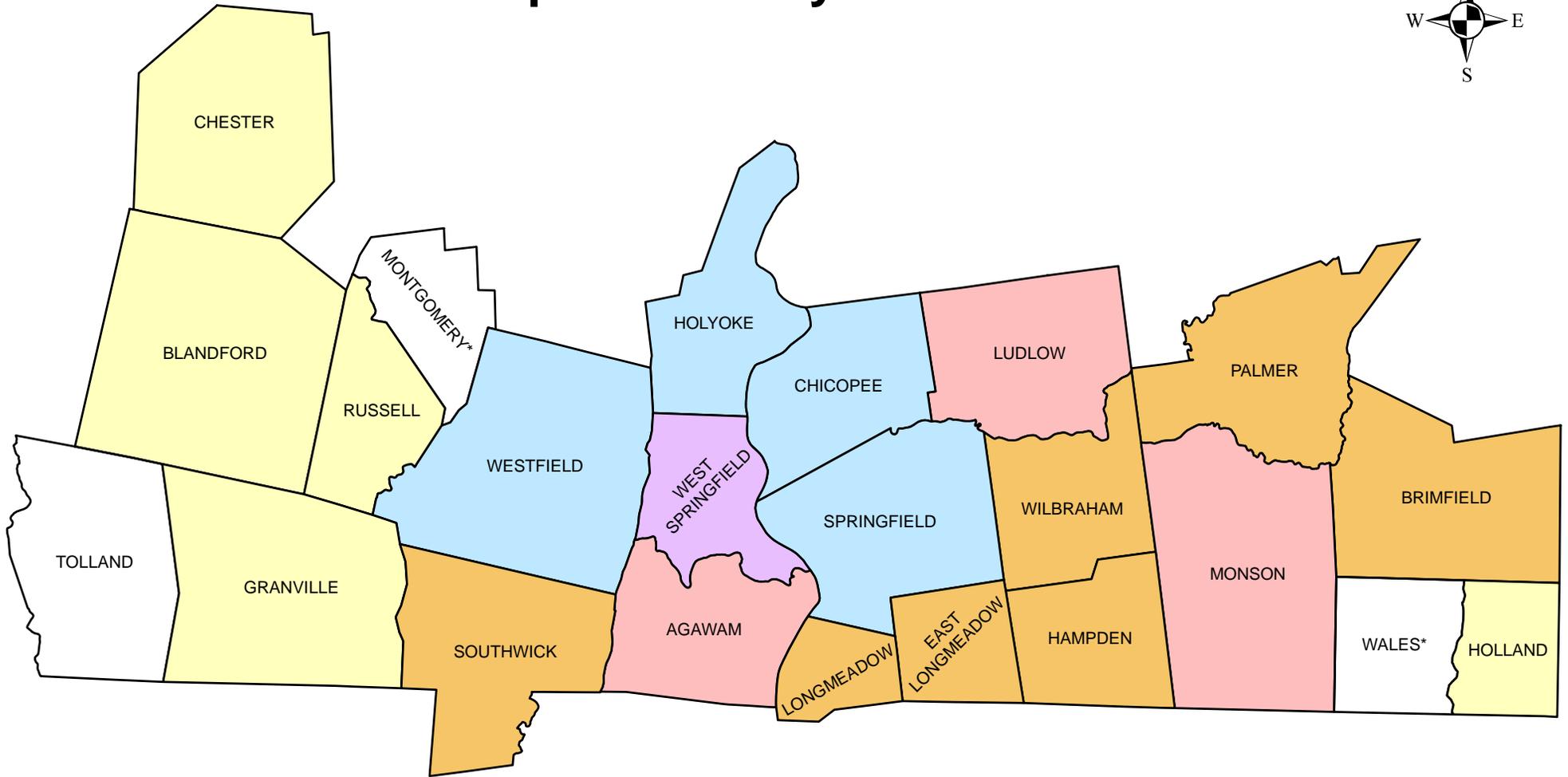
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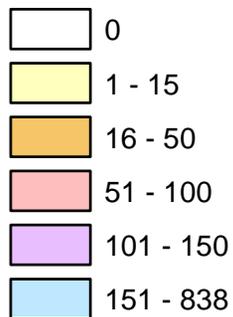
Hampden County

2013 Fire Data Analysis

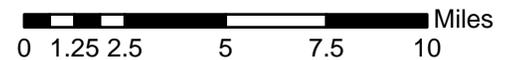
Hampden County Fires 2013



2013 Fires



*Non-reporting Department



MFIRS
Massachusetts Fire Incident Reporting System

Hampden County Fires in 2013

2,056 Total Fires — 1,087 Structures, 240 Vehicles & 729 Other Fires

Hampden County ranked sixth out of the fourteen Massachusetts counties in total reported fires. Hampden County fire departments reported 2,056 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 1,087 structure fires, 240 motor vehicle fires, 299 brush, tree or lawn fires, 292 outside rubbish fires, 45 special outside fires, five cultivated vegetation or crop fires, and 88 other fires caused eight civilian fire deaths, 33 civilian injuries, 53 fire service injuries and an estimated dollar loss of \$19.2 million. Hampden County's 2,056 fires accounted for 7% of the 29,828 fire incidents reported to MFIRS in 2013.

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 2013.

Structure & Outside Fires Down

The total number of reported fire incidents decreased by 132 from the 2,188 reported in 2012. Reported structure fires decreased by 17 from the 1,104 reported during the previous year. Motor vehicle fires increased by 20 from the 220 reported during 2012. Outside and other fires decreased by 135 from the 864 reported the year before.

HAMPDEN COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2,051	1,158	255	638	70	16	12	42
2010	2,343	1,187	289	867	76	17	12	47
2011	2,094	1,215	293	586	50	9	12	29
2012	2,188	1,104	220	864	91	34	22	35
2013	2,056	1,087	240	729	60	13	19	28

Fire and Fire Death Rates

Hampden County had 4.4 fires per 1,000 population. That figure ranks Hampden County third in the state and just below the state rate of 4.6 fires per 1,000 population. Hampden County also had 0.17 fire deaths per 10,000 population ranking it second among Massachusetts counties and above the state rate of 0.07 fire deaths per 10,000 population.

8 People Died in 8 Hampden County Fires

In 2013, Hampden County had eight fatal fires that killed eight people.

- On January 5, 2013, at 4:29 a.m., the Holyoke Fire Department responded to a fatal heating fire at a single-family home. The cause of the fire was the ignition of combustible materials too close to the wood stove. The victim, a 15-year old girl, was asleep at the time of the fire and was overcome by the heat and smoke. Her mother and one firefighter were also injured at this fire. It was undetermined if detectors were

present, and the building was not sprinklered. Damages from this fire were estimated to be \$223,500.

- On February 8, 2013, at 8:54 a.m., the Granville Fire Department was called to a fatal motor vehicle fire behind a motor vehicle repair shop. The victim, a 61-year old homeless man, was squatting in the old van. He was using a propane stove as a heater and it ignited some of the bedding. Another homeless person, a 52-year old woman, who was also living in the van, was severely burned when she escaped from the burning van.
- On February 25, 2013, at 1:38 p.m., the Westfield Fire Department was dispatched to a smoking fire in a 107-unit apartment building. The victim, a 74-year old woman, was smoking while on home oxygen. The fire began in her bedroom. Three (3) other occupants of the building and one firefighter were injured at this fire. Detectors were present and alerted the other occupants of the building. The building was sprinklered but the fire was not in an area protected by them. Damages from this fire were estimated at \$50,000.
- On August 14, 2013, at 12:26 a.m., the Springfield Fire Department was called to a fatal cooking fire in a single-family home. The victim, a 65-year old woman, was most likely sleeping at that time of night. No one else was injured at this fire. Detectors were not present and the home was not sprinklered. Damages from this fire were estimated to be \$70,000.
- On October 22, 2013, at 2:12 a.m., the Springfield Fire Department was dispatched to a fatal motor vehicle fire in a parking lot. The victim, an 83-year old man, parked his car and ignited it. No one else was injured at this fire. Damages were estimated to be \$3,000 for the victim's car.
- On September 10, 2013, at 3:52 a.m., the Springfield Fire Department was called to a fatal cooking fire in a single-family home. The fire started in the gas stove. The victim, a 34-year old woman, was unconscious on the living room sofa. She was extricated by firefighters and transported to a local hospital where she later succumbed to her injuries. Another civilian occupant and two firefighters were injured at this fire. It was undetermined if smoke detectors were present. The building was not sprinklered. Damages from this fire were estimated to be \$30,000.
- On November 10, 2013, at 5:46 p.m., the Longmeadow Fire Department was called to a fatal motor vehicle crash with ensuing fire on Interstate 91. It is believed that the driver, a 17-year old man, swerved to avoid hitting some debris in the road and then hit the tractor trailer. The victim's car ignited and he was able to escape the car but was on fire. He died at the scene.
- On Christmas morning, December 25, 2013, at 12:38 a.m., the Brimfield Fire Department was called to a fatal fire in a single-family home of undetermined cause. The victim, a 63-year old man, was overcome by the heat and smoke. No one else

was injured at this fire. It was undetermined if detectors were present and the building was not sprinklered. Damages from the blaze were estimated to be \$190,000.

Springfield Had Largest Loss Fire in Hampden County

- On September 3, 2013, at 1:55 a.m., the Springfield Fire Department was dispatched to a fire of undetermined cause in a vacant junior high school built in 1901. Three (3) firefighters were injured at this fire. There were no detectors. The building did have sprinklers but it was undetermined why they didn't operate. Damages from this fire were estimated to be \$5 million.

STRUCTURE FIRES

Reported Structure Fires Down Slightly

The 1,087 structure fires caused five civilian deaths, 27 civilian injuries, 49 fire service injuries and an estimated dollar loss of \$17.5 million. These incidents represented 53% of Hampden County's reported fires in 2013. The average estimated dollar loss per structure fire was \$16,112. The total number of reported structure fires decreased by 17, or 2%, from the 1,104 reported in 2012.

Arson Caused 1% of Structure Fires

The 13 structure arsons caused two civilian injuries, six fire service injuries and an estimated dollar loss of \$488,500. Arson was indicated as the cause of 1% of the structure fires and 3% of Hampden County's structure fire dollar loss. The 13 structure arsons accounted for 22% of the Hampden County arson fires reported in 2013. The total number of reported structure arsons decreased by 21, or 62%, from the 34 reported in 2012.

69% of Structure Arsons Occurred in Residences

Sixty-nine percent (69%) of Hampden County's 13 structure arsons occurred in residential occupancies. Fifteen percent (15%) occurred in educational facilities and 8% each occurred in storage facilities and manufacturing or processing facilities.

BUILDING FIRES

There were 1,083 building fires of different types in Hampden County in 2013. These 1,083 building fires accounted for 99.5% of all structure fires in Hampden County.

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

Nine hundred and twenty-eight (928), or 86%, of Hampden County's 1,083 building fires occurred in residential occupancies. Mercantile and business properties experienced 39 fires. Thirty-two (32) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings also experienced 26 fires. Twenty-one (21) fires took place in storage properties. Twelve (12) building fires took place on educational properties. Twelve (12) fires took place in manufacturing and

processing facilities. Special properties had 10 fires. Two (2) fires occurred in industrial, utility, defense, agricultural or mining facilities in Hampden County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Down Slightly

There were 928 reported residential building fires in Hampden County in 2013. These 928 fires are a decrease of 21, or 2%, from the 949 residential building fires reported in 2012.

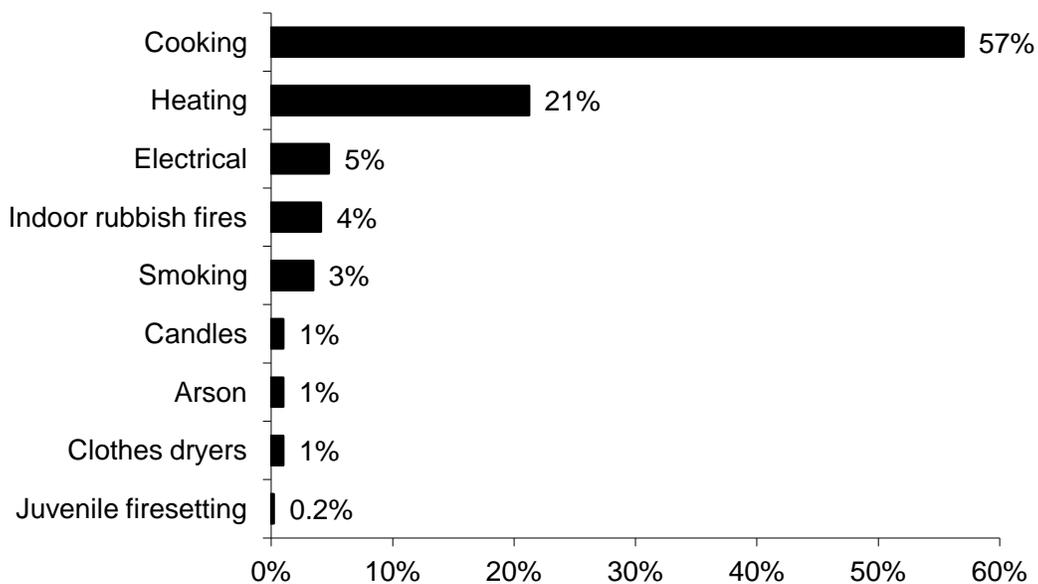
1- & 2-Family Homes Accounted for Over 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were 1- & 2-family homes, accounting for over half, or 53%, of the building fires in Hampden County; 41% occurred in apartments; 2% happened in residential board and care facilities; 2% occurred in rooming houses; 1% happened in dormitories; and another 1% happened in hotels or motels. Two (2), or less than 1%, of the residential building fires in Hampden County occurred in unclassified residential buildings.

Cooking Causes 57% of Residential Fires

The leading cause of residential building fires in Hampden County was unattended cooking and other unsafe cooking practices, accounting for 57% of these fires. Heating was the second leading cause of fires in people’s homes, accounting for 21% of these fires. Electrical problems caused 5% and indoor rubbish fires caused 4%. Smoking started 3% of these fires. Candles, arson and clothes dryers each caused 1% of these residential fires. Juvenile-set fires caused less than 1% of the fires in Hampden County in 2013.

2013 Leading Causes of Fires in Hampden County Homes



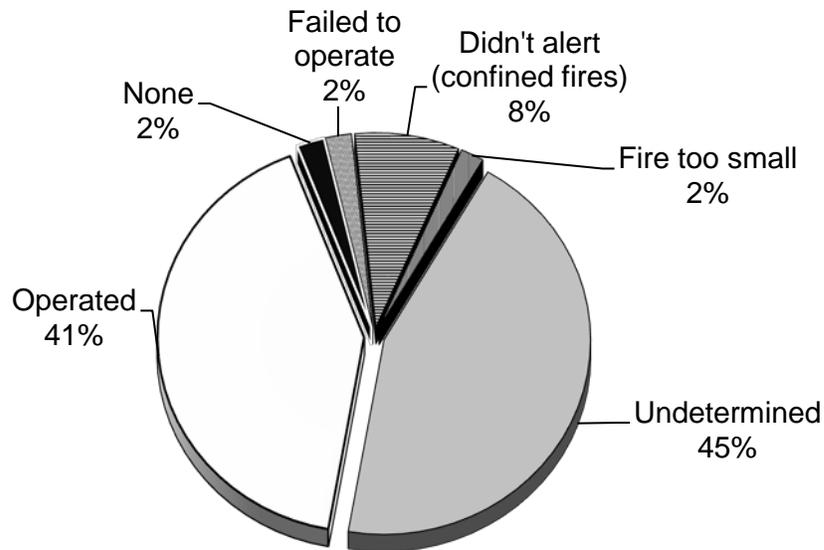
73% of Residential Building Fires Are Confined to Non-Combustible Containers¹

Six hundred and seventy-seven (677), or 73% of all residential building fires, were reported as confined to non-combustible containers in 2013. Four hundred and eighty-two (482) of the reported fires were cooking fires contained to a non-combustible container, accounting for 52% of residential building fires. Ninety-one (91), or 13%, were fires confined to a fuel burner or boiler malfunction. Sixty-seven (67), or 7%, of all residential building fires reported in 2013 were fires confined to a chimney. Thirty-six (36), or 4%, of these fires were contained rubbish fires. One (1), or less than 1% of confined fires, was an incinerator overload or malfunction.

Detectors Alerted Occupants in 41% of Fires

Smoke or heat detectors operated and alerted the occupants in 384, or 41%, of the residential building fires. In 8% of these fires², 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 2% of the residential fires. Smoke detector performance was undetermined in 412 incidents, or 45%, of Hampden County’s residential building fires.

Detector Status in Hampden County's Residential Structure Fires 2013



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.

Almost 1/2 of Failed Detectors Had Missing or Disconnected Batteries

Of the 19 fires where smoke detectors were present but failed to operate, eight, or 42%, failed because the batteries were either missing or disconnected. In one incident, or 5%, the detectors failed because the battery was dead. In one fire, or 5%, the detector failed because of a power failure, shutoff or disconnect. In another instance the detector, or 5% of all failed detectors, failed because it was defective. Eight (8), or 42%, of the detectors failed for unclassified or undetermined reasons.

VACANT BUILDINGS**3% of Building Fires Occurred in Vacant Buildings**

Hampden County reported 35 fires that occurred in buildings that were vacant, under construction or demolition. This represents 3% of the total 1,083 building fires reported to MFIRS in 2013. Twenty-six (26) fires occurred in vacant residential properties. Six (6) fires in storage facilities were reported as vacant building fires. Mercantile and business properties accounted for two vacant building fires and one vacant building fire in Hampden County in 2013 happened in an educational facility.

Three (3), or 9%, of the vacant building fires in Hampden County in 2013 were determined to be intentionally set.

JUVENILE-SET FIRES**11 Juvenile-set Fires Caused 1 Civilian Injury**

There were 11 reported juvenile-set fires in Hampden County in 2013. The two structure fires, seven brush fires, and two special outside fires caused \$1,320 in estimated damages.

ARSONS**60 Total Arsons — 13 Structures, 19 Vehicles & 28 Other Arsons**

Sixty (60), or 3%, of Hampden County's 2,056 fires were considered intentionally set, or, for purposes of this analysis, arson. The 13 structure arsons, 19 motor vehicle arsons and 28 outside and other arsons caused one civilian death, four civilian injuries, six fire service injuries and an estimated dollar loss of \$690,930.

All Arson Down

The total number of reported arson fires decreased by 31 from the 91 reported in 2012. Structure arsons decreased by 21 from the 34 reported in 2013. Motor vehicle arsons decreased by three from 22 reported in 2012. Outside and other fires decreased by seven from the 35 reported the year before.

ALL INCIDENTS

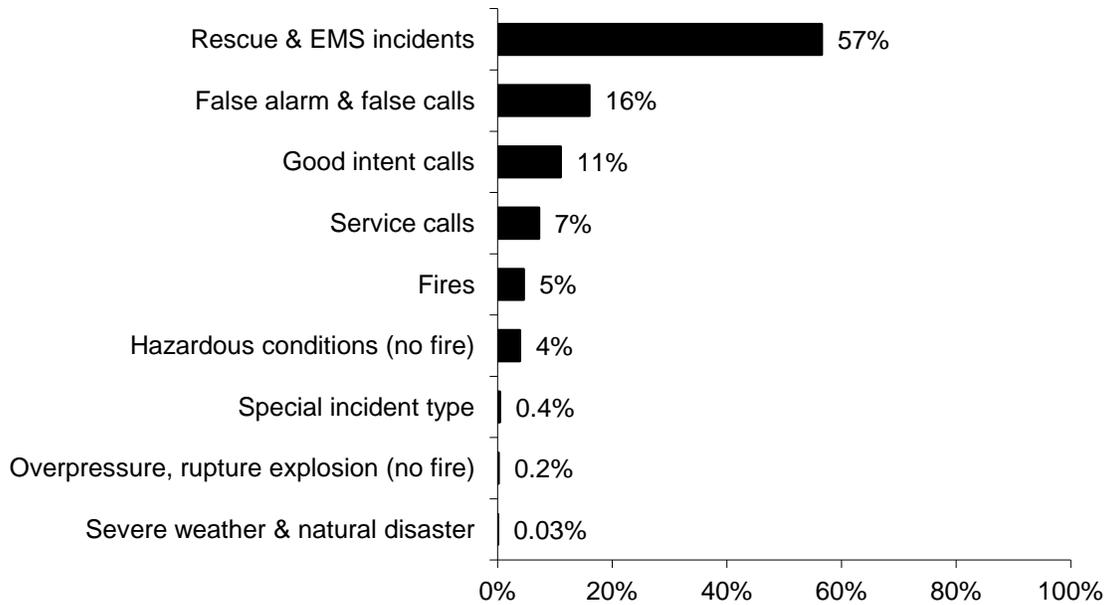
Rescue & EMS Calls Are 57% of All Reported Responses

In 2013, fire departments in Hampden County reported 46,762 responses³ to MFIRS. Of these 46,762 incidents, 44,621 non-fire calls were voluntarily reported.

Of these 44,621 non-fire calls 26,466, or 57% of all reported responses in 2013, were reported rescue and emergency medical services (EMS) calls; 7,492, or 16%, were reported false alarm or false calls; 5,152, or 11%, were reported good intent calls; 3,376, or 7%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,837, or 4%, were reported hazardous condition calls with no fire; 197, or 0.4%, were special incident type calls such as citizen complaints; 88, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 13, or 0.03%, were severe weather responses.

Two thousand two hundred and forty-one (2,141), or 5%, of the total responses submitted by Hampden County fire departments were fires.

2013 Responses by Incident Type



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 432 Times

In 2013, Hampden County fire departments reported coming to the aid of other fire departments 432 times. Of these 432 responses, 195, or 45%, were for rescue or EMS calls; 91, or 21%, were for service calls such as cover assignments; 82, or 19%, were for fires; 30, or 7%, were for good intent calls; 21, or 5%, were for hazardous conditions calls with no fire; 11, or 3%, were for false alarms or false calls; and two, or less than 1%, were special incident types.

Hampden County Received Mutual Aid in 449 Incidents

In 2013, Hampden County fire departments reported receiving aid from surrounding departments in 449 incidents. Of these 449 incidents, 337, or 75%, were rescue and emergency medical services calls; 78, or 17%, were for fires; 10, or 2%, were good intent calls; 10, or 2%, were false alarms or false calls; eight, or 2%, were service calls; and six, or 1%, were hazardous conditions calls with no fire.

Hampden County**Population: 463,490****4.7 Fires/1,000 Population****Total Fires: 2,056 \$19,258,956**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	1,087	53%	\$17,514,068
Vehicle Fires	240	12%	1,361,946
Other Fires	729	35%	382,942

8 Fatal Fires 3.89 Civilian Deaths/1,000 Fires
 8 Civilian Deaths 0.17 Civilian Deaths/10,000 Population
 33 Civilian Injuries 53 Fire Service Injuries

Building Fires: 1,083**Residential Structure Fires: 928****Residential Structure Fires Confined to Non-Combustible Containers: 677****Unconfined Residential Structure Fires: 251**

5 Civilian Deaths 25 Civilian Injuries 40 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	490	53%	Operated	384	41%
Apartments	383	41%	Didn't operate	19	2%
Residential board & care	21	2%	None	20	2%
Rooming houses	17	2%	Fire too small	17	2%
Dormitories	11	1%	Didn't alert (confined)	769	8%
Hotels or motels	4	0.4%	Undetermined	412	45%

Area of Origin⁴	%	Heat Source	%	% Unconfined⁵
Kitchen	59%	Heat from operating equip.	5%	17%
Heating room or area	10%	Arcing	2%	8%
Chimney, flue	7%	Rad., cond. heat/oper. eq.	2%	8%
Living room	2%	Hot or smoldering object	2%	6%
Exterior balcony/unencl. porch	2%	Cigarette	2%	6%
Bedroom	2%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	55%	Equipment unattended	2%	8%
Flammable or combust. liquid	10%	Abandoned materials	2%	6%
Film, residue (creosote)	7%	Too close to combustibles	2%	6%
Rubbish, trash, waste	5%	Elec. failure, malfunction	2%	6%
Structural member, framing	3%	Failure to clean	1%	5%

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	56%	Unintentional	14%	54%
None	15%	Failure of eq./heat source	3%	10%
Boiler, furnace, cent. heat unit	10%	Intentional	1%	3%
Chimney or flue	7%	Act of Nature	0.1%	0.4%
Electrical wiring, other	1%	Undetermined	2%	6%
		Cause under investigation	6%	25%

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

Alerted occupants	41%
Didn't alert occupants	11%
Undetermined	48%

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	159	115	12	32
February	132	90	29	13
March	161	97	11	53
April	272	111	23	138
May	203	76	27	100
June	149	80	19	50
July	151	67	24	60
August	159	82	18	59
September	153	72	24	57
October	174	87	22	65
November	207	114	18	75
December	136	96	13	27

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	306	171	30	105
Monday	292	156	29	107
Tuesday	288	154	32	102
Wednesday	286	150	38	98
Thursday	299	157	38	104
Friday	280	144	38	98
Saturday	305	155	35	115

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 – 04:00	186	90	37	59
04:01 – 08:00	130	89	19	22
08:01 – 12:00	301	181	44	76
12:01 – 16:00	502	240	46	216
16:01 – 20:00	578	312	50	216
20:01 – 00:00	359	175	44	140

Motor Vehicle Fires

Total: 240

Automobiles: 206 (86%)

16, or (8%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 60

Dollar loss: \$690,930

0.13 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	13	1%	22%	\$488,500
Vehicle Arsons	19	8%	32%	202,400
Other Arsons	28	4%	47%	30

0.03 Structure arsons/1,000 population

0.04 Vehicle arsons/1,000 population

0.06 Other arsons/1,000 population

1 Civilian Death

4 Civilian Injuries

6 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	4	31%	00:01 - 04:00	8	42%
16:01 - 20:00	4	31%	12:01 - 16:00	3	16%
20:01 - 00:00	3	23%	20:01 - 00:00	3	16%

Other Arsons	#	%
16:01 - 20:00	10	36%
20:01 - 00:00	10	36%
12:00 - 16:00	6	21%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	6	46%
Apartment buildings	3	23%

Agawam					Population: 28,438			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	76	36	14	26	2	0	2	0
2010	94	38	13	43	6	2	0	4
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

Blandford					Population: 1,233			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	4	3	2	0	0	0	0
2010	7	3	3	1	0	0	0	0
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

Brimfield					Population: 3,609			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	3	2	1	0	0	0	0
2010	26	11	4	11	0	0	0	0
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

Chester					Population: 1,337			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2	2	0	0	1	1	0	0
2010	11	6	0	5	0	0	0	0
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

Chicopee **Population: 55,298**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	224	131	26	67	11	4	1	6
2010	246	121	24	101	17	5	2	10
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

East Longmeadow **Population: 15,720**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	28	10	6	12	1	0	0	1
2010	37	12	2	23	0	0	0	0
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

Granville **Population: 1,566**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Non-Reporting Community							
2010	Non-Reporting Community							
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

Hampden **Population: 5,139**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	3	1	0	1	1	0	0
2010	35	20	5	10	2	0	2	0
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

Holland					Population: 2,481			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	3	0	7	3	0	0	3
2010	17	3	1	13	0	0	0	0
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

Holyoke					Population: 39,880			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	244	147	24	73	11	1	1	9
2010	262	123	38	101	10	4	1	5
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

Longmeadow					Population: 15,784			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	42	16	6	20	1	0	0	1
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

Ludlow					Population: 21,103			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	53	25	11	17	3	0	0	3
2010	76	31	13	3	2	1	0	3
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

Monson					Population: 8,560			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	37	16	5	16	0	0	0	0
2010	49	23	7	19	2	1	1	0
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

Montgomery					Population: 838			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	0	3	3	2	0	1	1
2010	4	1	1	2	0	0	0	0
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Non-Reporting Community							
2013	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
2009	15	2	2	11	5	0	0	5
2010	7	0	0	7	0	0	0	0
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

Palmer District # 1					Est. Pop. Protected: 5,584			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	44	29	5	10	1	1	0	0
2010	40	15	6	19	0	0	0	0
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

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

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	2	1	2	0	0	0	0
2010	10	7	1	2	0	0	0	0
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

Russell**Population: 1,775**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	1	2	6	0	0	0	0
2010	19	9	3	7	0	0	0	0
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

Southwick**Population: 9,502**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	11	1	9	1	0	0	1
2010	50	28	4	18	4	0	1	3
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

Springfield**Population: 153,060**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	960	583	109	268	16	7	6	3
2010	1,053	613	108	332	10	2	3	5
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

Tolland**Population: 485**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	0	1	4	0	0	0	0
2010	8	4	1	3	0	0	0	0
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							

Wales**Population: 1,838**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	0	0	3	0	0	0	0
2010	1	0	1	0	0	0	0	0
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	Non-Reporting Community							
2013	Non-Reporting Community							

West Springfield**Population: 28,391**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	65	22	13	30	4	0	0	4
2010	74	28	17	29	2	1	0	1
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

Westfield**Population: 41,094**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	123	72	17	34	2	1	1	0
2010	123	52	23	15	4	1	0	3
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

Wilbraham**Population: 14,219**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	46	32	3	11	2	0	0	2
2010	32	10	7	15	4	0	2	2
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

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	2,115	61	0	1,200	79	346	152	245	1	31
13033	Blandford	84	13	1	53	3	1		9	1	3
13987	Bondsville	77	18	0	4	11	15	8	20	1	0
13043	Brimfield	265	26	1	169	6	10	17	35	0	1
13059	Chester	111	7	0	78	3	11	5	7	0	0
13061	Chicopee	5,886	206	16	3,502	173	609	605	749	0	26
13085	East Longmeadow	508	39	2	11	71	54	59	270	0	2
13112	Granville	155	17	1	98	1	17	10	6	0	5
13120	Hampden	107	38	0	6	10	17	1	35	0	0
13135	Holland	169	12	0	121	9	19	1	7	0	0
13137	Holyoke	5,352	273	6	3,248	169	223	198	1,186	1	48
13159	Longmeadow	2,261	32	4	1,391	99	230	143	359	0	3
13161	Ludlow	859	68	4	256	89	76	117	218	1	30
13191	Monson	772	60	1	529	49	49	26	56	0	2
13986	Palmer #1	406	33	0	11	98	123	54	85	2	0
13256	Russell	119	12	0	73	7	8	1	18	0	0
13279	Southwick	286	37	2	44	41	40	38	80	0	4

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
13281	Springfield	15,662	848	47	7,782	621	722	2,984	2,645	1	12
13988	Three Rivers	3	3	0	0	0	0	0	0	0	0
13297	Tolland	44	8	0	28	6	1	1	0	0	0
13325	West Springfield	6,059	121	1	4,826	144	246	204	507	1	9
13329	Westfield	3,100	163	1	1,404	95	366	387	666	4	14
13339	Wilbraham	2,362	46	1	1,632	53	193	141	289	0	7
	Hampden County	46,762	2,141	88	26,466	1,837	3,376	5,152	7,492	13	197

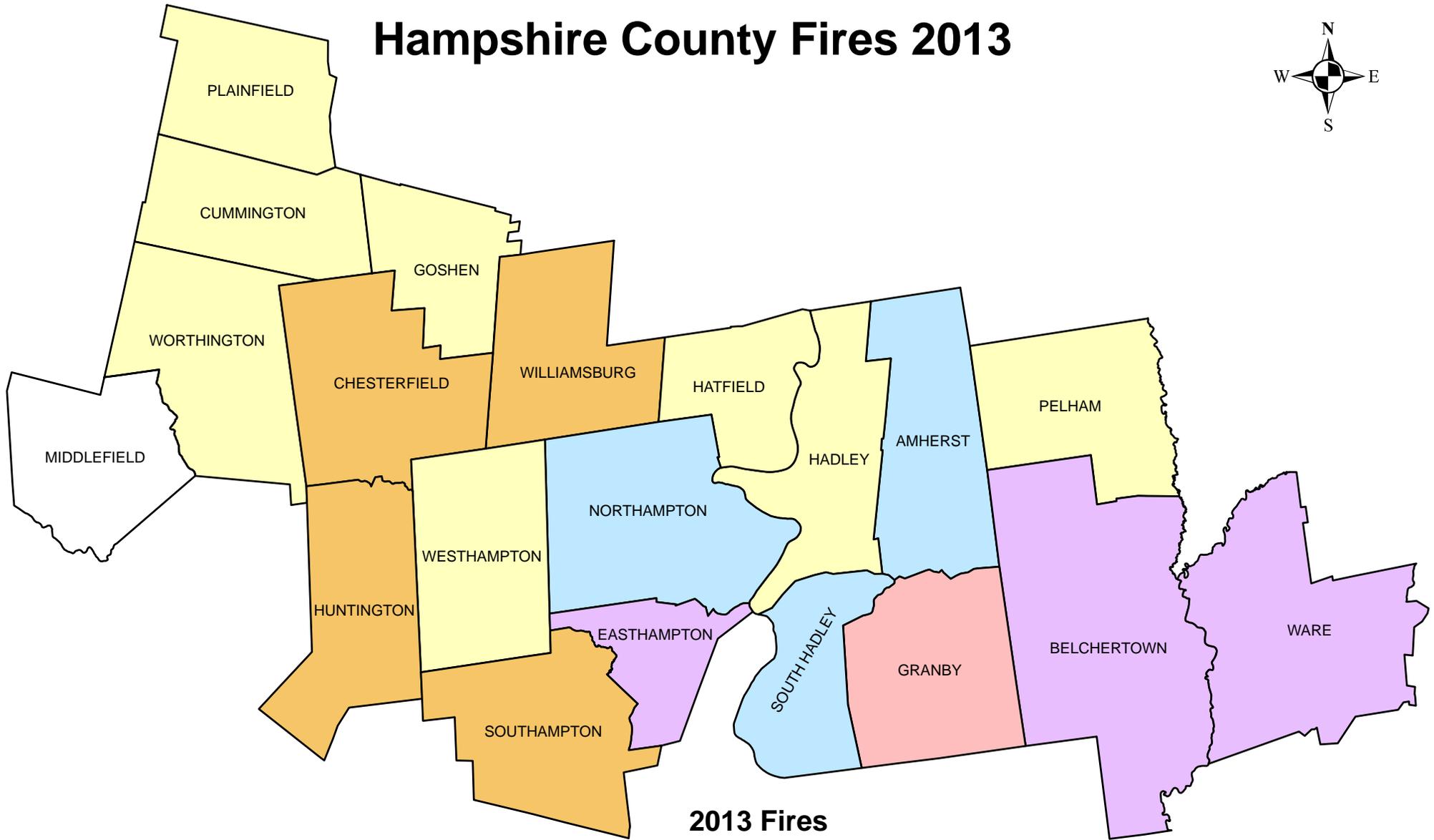
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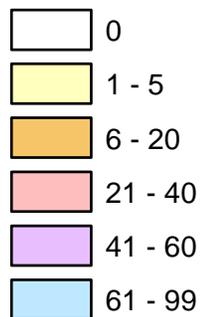
Hampshire County

2013 Fire Data Analysis

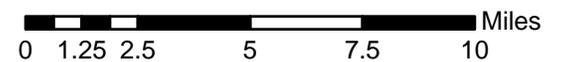
Hampshire County Fires 2013



2013 Fires



MFIRS
Massachusetts Fire Incident Reporting System



Massachusetts Fire Incident Reporting System 2013

Hampshire County Fires in 2013

511 Total Fires — 244 Structures, 42 Vehicles & 225 Other Fires

Hampshire County ranked tenth out of the fourteen Massachusetts counties in total reported fires. Hampshire County fire departments reported 511 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 244 structure fires, 42 motor vehicle fires, 101 brush, tree or lawn fires, 64 outside rubbish fires, 23 special outside fires, and 37 other fires caused one civilian fire death, nine civilian injuries, 19 fire service injuries and an estimated dollar loss of \$6.2 million. Hampshire County's 511 total reported fires accounted for 2% of the 29,828 fires reported to MFIRS in 2013.

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 2013.

Structure Fires Up

The total number of reported fire incidents decreased by 33 from the 544 reported in 2012. Reported structure fires increased by 35 from the 209 reported during the previous year. Motor vehicle fires decreased by four from 46 the year before. The number of outside and other fires decreased by 64 from 289 in 2012.

HAMPSHIRE COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	535	246	58	231	45	7	8	30
2010	574	241	59	274	44	9	1	34
2011	452	218	40	194	28	0	0	28
2012	544	209	46	289	43	4	0	39
2013	511	244	42	225	33	5	0	28

Fire and Fire Death Rates

Hampshire County had 3.2 fires per 1,000 population. That figure ranks Hampshire County thirteenth in the state and below the state rate of 4.6 fires per 1,000 population. Hampshire County also had 0.06 fire deaths per 10,000 population, ranking it seventh among Massachusetts counties and just below the state rate of 0.07 fire deaths per 10,000 population.

Amherst Has County's Only Fire Death & Is Also County's Largest Loss Fire

There was one reported fire death in Hampshire County in 2013.

- On January 21, 2013, at 2:23 a.m., the Amherst Fire Department was dispatched to a fire in a 10-unit apartment building of undetermined cause. The fire began in a second floor bedroom. The victim, a 21-year old man, was a college student living in off-campus housing. He was found in an upstairs bathroom. There were no other civilian injuries associated with this fire; but 15 firefighters were injured. Smoke detectors

were present and alerted the occupants of the building. The building was not sprinklered. Damages from this fire were estimated to be \$800,000.

STRUCTURE FIRES

Reported Structure Fires Up

The 244 structure fires caused one civilian fire death, seven civilian injuries, all 19 fire service injuries and an estimated dollar loss of \$5.7 million. These incidents represented 48% of Hampshire County's reported fires in 2013. The average estimated dollar loss per structure fire was \$23,438. The total number of reported structure fires increased by 35, or 17%, from the 209 reported in 2012.

5 Structure Arsons

The five structure arsons caused an estimated dollar loss of \$245. Arson was indicated as the cause of 2% of the structure fires and less than 1% of Hampshire County's structure fire dollar loss. The five structure arsons accounted for 15% of the Hampshire County arson fires reported in 2013. The total number of reported structure arsons increased by one, or 25%, from four reported in 2012.

BUILDING FIRES

There were 244 building fires of different types in Hampshire County in 2013. These 244 building fires accounted for all structure fires in Hampshire County.

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

Two hundred and eleven (211), or 86%, of Hampshire County's 244 building fires occurred in residential occupancies. Ten (10) fires took place in public assembly properties, including restaurants and churches. Six (6) fires occurred in educational facilities. Storage facilities experienced six fires. Mercantile and business properties also had six fires. Manufacturing and processing facilities had two fires. Institutional facilities, industrial facilities and special properties each had one fire in Hampshire County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Up

There were 211 reported residential building fires in Hampshire County in 2013. Residential fires increased by 41 from the 170 reported in 2012.

1- & 2-Family Homes Accounted for 62% of Residential Building Fires

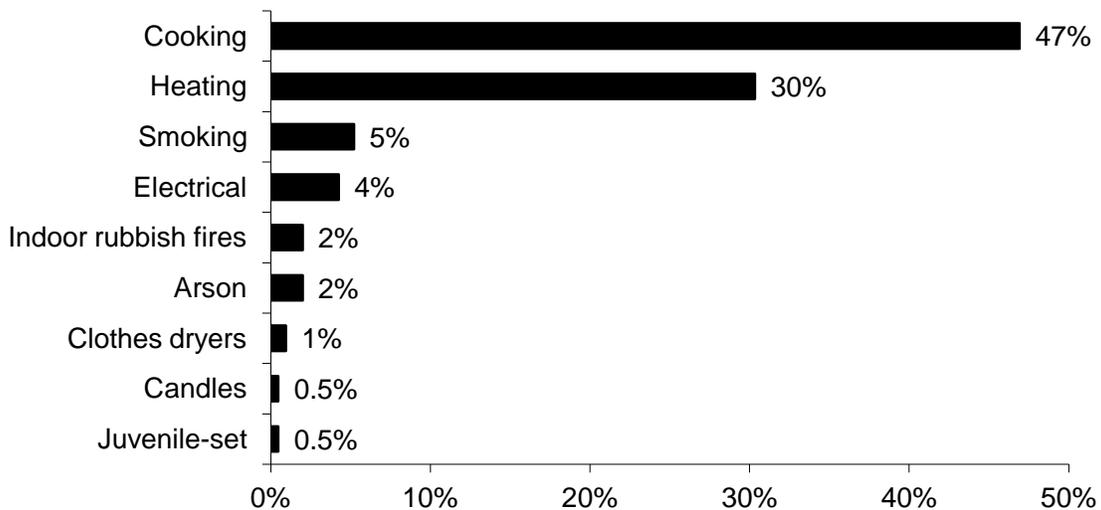
The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 62% of the residential building fires in Hampshire County; 23% occurred in apartments; 10% occurred in dormitories; 1% happened in residential board and care facilities; 1% happened in rooming houses; and less than 1% in hotels or motels. One percent (1%) of the residential building fires in Hampshire County 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. Twenty-two (22), or 10%, of Hampshire County’s residential fires occurred in dormitories. Dormitory fires make up smaller percentages of the other counties’ fires.

Cooking Causes 47% of Residential Fires

Unattended cooking and other unsafe cooking practices was the leading cause of the 211 residential building fires in Hampshire County, accounting for 47% of these fires. Heating equipment fires accounted for 30% of home fires. Smoking fires were responsible for 5% of these fires. Electrical problems caused 4% of the residential fires. Indoor rubbish fires and arson each caused 2%. Clothes dryers caused 1% of the residential fires. Candles and juvenile-set fires each accounted for less than 1% of the residential fires in Hampshire County in 2013.

2013 Leading Causes of Fires in Hampshire County Homes



68% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One hundred and forty-three (143), or 68%, of all residential building fires were reported as confined to non-combustible containers in 2013. Eighty-six (86) of the reported fires were cooking fires contained to a non-combustible container, accounting for 41% of residential building fires. Thirty-four (34), or 16%, of all residential building fires reported in 2013 were fires confined to a chimney. Nineteen (19), or 9%, were fires

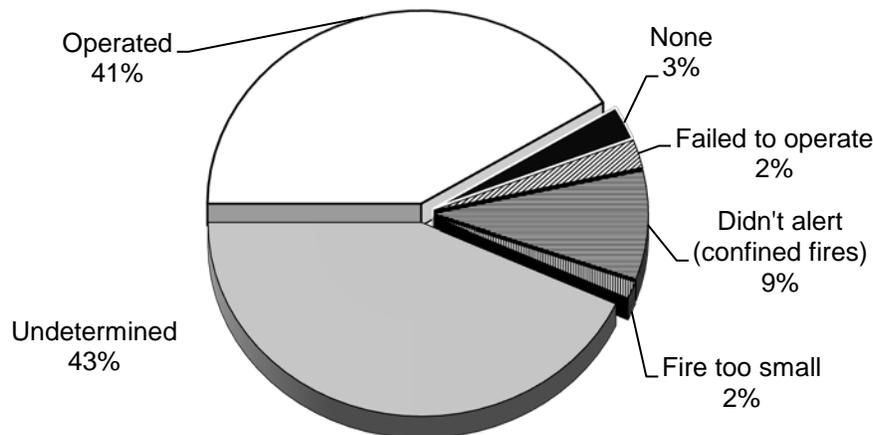
¹ In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

confined to a 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 2013.

Detectors Operated in Only 41% of Fires

Smoke or heat detectors operated and alerted the occupants in 87, or 41%, of the residential building fires. In 9% of these fires², 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 2% of the residential fires. Smoke detector performance was undetermined in 91 incidents, or 43%, of Hampshire County's residential building fires.

Detector Status in Hampshire County's Residential Structure Fires 2013



3 of 5 Detectors Failed From Missing or Dead Batteries

Two (2) detectors failed because the battery was missing and another detector failed because its battery was dead. Another detector failed because the power was shutoff or disconnected. It was undetermined why the detectors failed in one fire where smoke detectors were reported as present but failed to operate.

VACANT BUILDINGS

4 Building Fires Occurred in Vacant Buildings

Hampshire County reported four fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the 244 building fires reported to

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

MFIRS in 2013. Three (3) of these vacant building fires occurred in residential occupancies and one occurred in a storage facility.

None of the vacant building fires in Hampshire County in 2013 were determined to be intentionally set.

JUVENILE-SET FIRES

3 Juvenile-set Fires

There were three reported juvenile-set fires in Hampshire County in 2013. One (1) was a building fire, one a special outside fire, and another an unclassified fire. These three fires caused one civilian injury and an estimated dollar loss of \$395,003.

ARSONS

33 Total Arsons — 5 Structures, 0 Motor Vehicle & 28 Other Arsons

Thirty-three (33), or 6%, of Hampshire County's 511 fires were intentionally set, or, for purposes of this analysis, arson. The five structure arsons, 13 brush arsons, five outside rubbish arsons, seven special outside arsons, and three unclassified arsons caused an estimated dollar loss of \$252.

Outside Arsons Down

The total number of reported arson fires decreased by 10 from the 43 reported in 2012. Structure arsons increased by one from four reported the previous year. Motor vehicle arsons remained the same with none reported in both 2012 and 2013. Reported outside and other arsons decreased by 11 from the 39 reported in 2012.

ALL INCIDENTS

Rescue & EMS Calls Are 61% of All Reported Responses

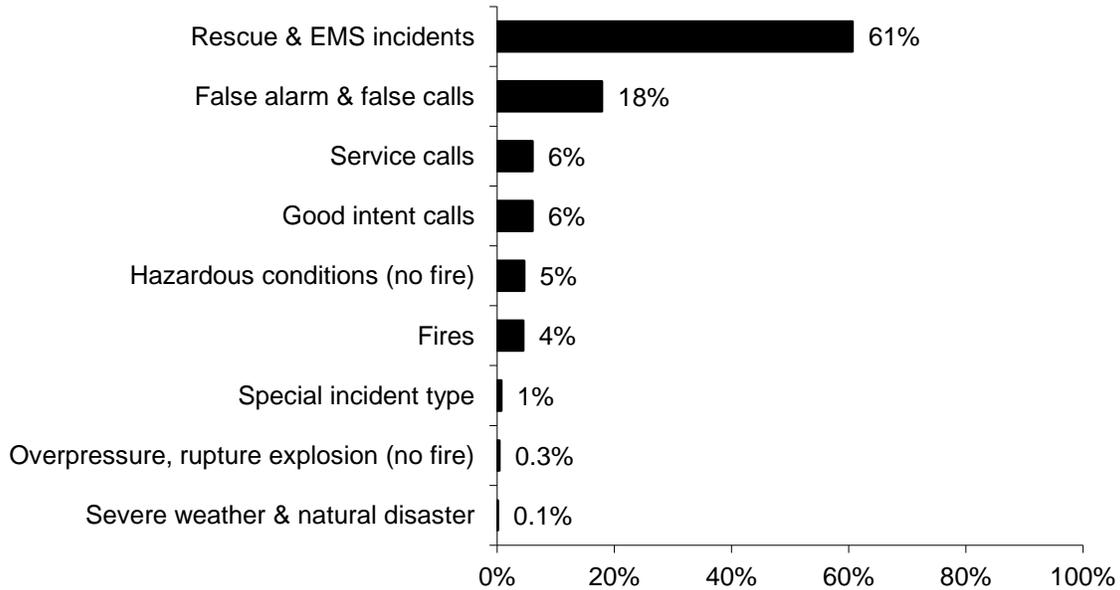
In 2013, Hampshire County fire departments reported 14,007 responses³ to MFIRS. Of these 14,007 incidents, 13,389 non-fire calls were voluntarily reported.

Of these 13,389 non-fire calls, 8,497, or 61%, of all the responses reported in 2013 were reported rescue and emergency medical services (EMS) calls; 2,504, or 18%, were reported false alarm or false calls; 807, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 787, or 6%, were reported good intent calls; 641, or 5%, were reported hazardous condition calls with no fire; 95, or 1%, were special incident type calls such as citizen complaints; 47, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 11, 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.

Six hundred and eighteen (618), or 4%, of the total responses submitted by Hampshire County fire departments were fires.

2013 Responses by Incident Type



Hampshire County Fire Departments Gave Mutual Aid 351 Times

In 2013, Hampshire County fire departments reported coming to the aid of other fire departments 351 times. Of these 351 responses, 159, or 45%, were for rescue or EMS calls; 106, or 30%, were for fires; 52, or 15%, were for service calls such as cover assignments; 20, or 6%, were for good intent calls; seven, or 2%, were hazardous conditions calls with no fire; four, or 1%, were for false alarms or false calls; two calls, or 1%, were for special incident types; and one, or 0.3%, was a reported overpressure, rupture, explosion or overheat call with no fire.

Hampshire County Received Mutual Aid in 97 Incidents

In 2013, Hampshire County fire departments received aid from surrounding departments in 97 incidents. Of these 97 incidents, 46, or 47%, were for fires; 38, or 39%, were rescue and emergency medical services calls; five, or 5%, were false alarm or false calls; four were good intent calls accounting for 4%; two, or 2%, were hazardous conditions calls with no fire; and two, or 2%, were service calls in Hampshire County in 2013.

Item First Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	44%	Abandoned materials	2%	7%
Film, residue (creosote)	16%	Elec. fail., malfunc, other	2%	7%
Flamm. or combustible liquid	9%	Mech. fail., malfunc, other	2%	6%
Rubbish, trash, waste	3%	Too close to combustibles	1%	4%
Structural member, framing	2%			

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	45%	Unintentional	18%	57%
None	18%	Failure of eq. or heat source	4%	13%
Chimney or flue	16%	Intentional	2%	6%
Boiler, furnace, cent. heat unit	9%	Cause under investigation	1%	3%
		Undetermined	6%	19%
		Act of nature	0.5%	1%

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

Alerted occupants	36%
Didn't alert occupants	13%
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	44	35	4	5
February	34	24	5	5
March	48	28	3	17
April	84	24	2	58
May	39	10	4	25
June	29	15	2	12
July	30	11	5	14
August	38	17	7	14
September	28	11	0	17
October	44	17	7	20
November	53	28	0	25
December	40	24	3	13

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	99	41	6	52
Monday	81	32	8	41
Tuesday	51	31	1	19
Wednesday	44	23	7	14
Thursday	67	35	11	21
Friday	85	48	4	33
Saturday	84	34	5	45

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	44	21	3	20
04:01 - 08:00	29	14	4	11
08:01 - 12:00	81	34	11	36
12:01 - 16:00	125	53	11	61
16:01 - 20:00	170	88	8	74
20:01 - 00:00	62	34	5	23

Motor Vehicle Fires

Total: 42

Automobiles: 33 (79%)

0, or (0%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 33

Dollar loss: \$252

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	5	2%	15%	\$245
Vehicle Arsons	0	0%	0%	0
Other Arsons	28	12%	85%	7

0.03 Structure arsons/1,000 population
 0.00 Vehicle arsons/1,000 population
 0.18 Other arsons/1,000 population

No Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	2	40%			
04:01 - 08:00	1	20%			
08:01 - 12:00	1	20%			
20:01 - 00:00	1	20%			

Other Arsons	#	%
16:01 - 20:00	15	54%
08:01 - 12:00	4	14%
12:01 - 16:00	4	14%
20:01 - 00:00	4	14%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	3	60%
Barracks, dormitory	1	20%
High/junior high/middle school	1	20%

Amherst					Population: 37,819			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	98	44	8	46	16	2	0	14
2010	119	46	6	67	21	4	0	17
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

Belchertown					Population: 14,649			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	33	16	4	13	2	0	0	2
2010	50	21	4	25	0	0	0	0
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

Chesterfield					Population: 1,222			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	13	6	1	6	0	0	0	0
2010	8	3	0	5	1	0	0	1
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

Cummington					Population: 872			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	5	4	1	0	0	0	0	0
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

Easthampton					Population: 16,053			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	48	30	3	15	2	0	0	2
2010	52	29	5	18	3	2	0	1
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

Goshen					Population: 1,054			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	4	1	0	3	0	0	0	0
2010	5	2	1	2	0	0	0	0
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

Granby					Population: 6,240			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	19	2	20	1	0	0	1
2010	35	14	9	12	1	0	0	1
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

Hadley					Population: 5,250			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	4	2	3	0	0	0	0
2010	7	7	0	0	0	0	0	0
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

Hatfield					Population: 3,279			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	7	2	2	0	0	0	0
2010	8	0	3	5	0	0	0	0
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

Huntington					Population: 2,180			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	6	0	5	0	0	0	0
2010	14	7	2	5	1	0	0	1
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

Middlefield					Population: 521			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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							

Northampton					Population: 28,549			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	89	34	23	32	15	5	7	3
2010	93	33	16	44	0	0	0	0
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

Pelham					Population: 1,321			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	3	1	2	0	0	0	0	0
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

Plainfield					Population: 648			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Fire Department in Good Standing, Certified No Reportable Fires							
2010	2	1	1	0	0	0	0	0
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

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
2009	46	9	7	30	4	0	1	3
2010	50	17	2	31	9	2	0	1
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

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
2009	44	42	0	2	0	0	0	0
2010	44	38	2	4	1	0	0	1
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

Southampton					Population: 5,792			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	1	0	10	3	0	0	3
2010	11	0	2	9	3	0	1	2
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

Ware					Population: 9,872			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	51	16	4	31	0	0	0	0
2010	56	14	1	41	4	1	0	3
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

Westhampton					Population: 1,607			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	13	6	2	5	0	0	0	0
2010	11	3	2	6	0	0	0	0
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

Williamsburg					Population: 2,482			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	6	0	4	2	0	0	2
2010	1	1	0	0	0	0	0	0
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

Worthington					Population: 1,156			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	Fire Department in Good Standing, Certified No Reportable Fires							
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

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	1,358	112	1	205	84	64	131	755	1	5
15024	Belchertown	344	64	1	5	55	54	31	133	1	0
15060	Chesterfield	98	21	0	52	8	2	4	11	0	0
15069	Cumington	2	2	0	0	0	0	0	0	0	0
15087	Easthampton	2,614	64	0	2,082	53	102	80	220	1	12
15108	Goshen	93	13	0	51	7	3	7	12	0	0
15111	Granby	240	34	0	13	29	37	33	89	1	4
15117	Hadley	4	4	0	0	0	0	0	0	0	0
15127	Hatfield	159	5	0	20	42	26	17	44	0	5
15143	Huntington	231	21	0	149	17	17	12	9	1	5
15183	Middlefield	0	0	0	0	0	0	0	0	0	0
15214	Northampton	6,540	89	42	4,867	165	222	309	795	1	50
15230	Pelham	3	3	0	0	0	0	0	0	0	0
15237	Plainfield	2	2	0	0	0	0	0	0	0	0
15978	South Hadley #1	420	37	1	11	68	88	60	148	3	4

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
15979	South Hadley #2	683	54	0	432	28	45	32	92	0	0
15276	Southampton	496	8	0	354	26	36	2	68	0	2
15309	Ware	294	58	0	7	40	44	56	80	2	7
15331	Westhampton	155	11	1	82	5	43	0	13	0	0
15340	Williamsburg	270	15	1	167	14	24	13	35	0	1
15349	Worthington	1	1	0	0	0	0	0	0	0	0
Total	Hampshire County	14,007	618	47	8,497	641	807	787	2,504	11	95

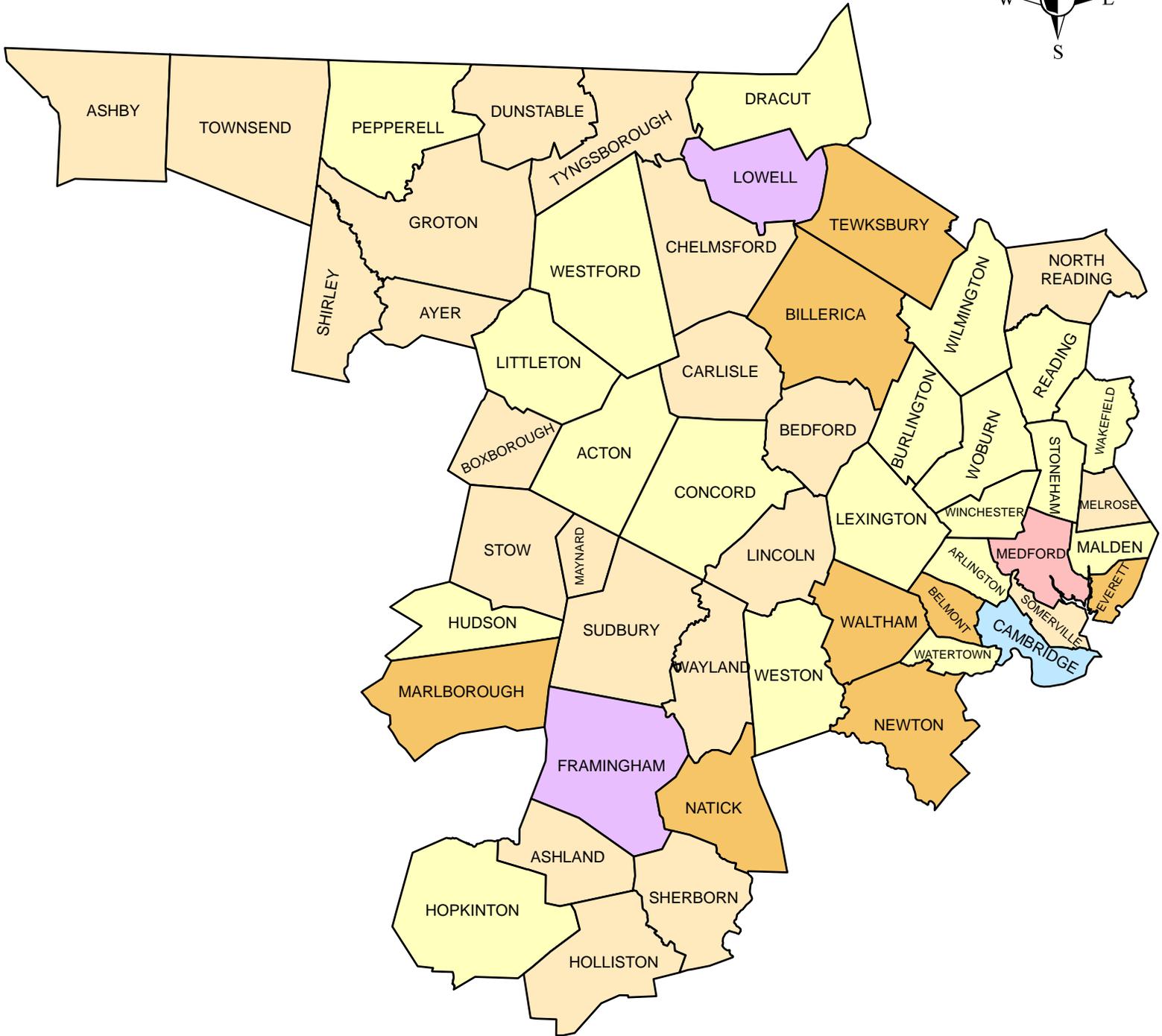
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



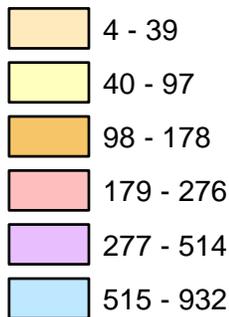
Middlesex County

2013 Fire Data Analysis

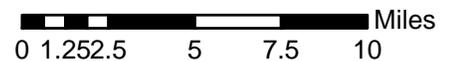
Middlesex County Fires 2013



2013 Fires



MFIRS
Massachusetts Fire Incident Reporting System



Middlesex County Fires in 2013

5,052 Total Fires — 2,999 Structures, 428 Vehicles & 1,625 Other Fires

Middlesex County ranked second out of the fourteen Massachusetts counties in total reported fires. Middlesex County fire departments reported 5,052 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 2,999 structure fires, 428 motor vehicle fires, 882 brush fires, 428 outside rubbish fires, 174 special outside fires, two cultivated vegetation or crop fires, and 139 unclassified fires caused five civilian deaths, 41 civilian injuries, 71 fire service injuries and an estimated dollar loss of \$45.1 million. Middlesex County's fires accounted for 17% of the 29,828 Massachusetts fires reported in 2013.

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 2013.

Structure Fires Down

The total number of reported fire incidents decreased by 132 from the 5,184 reported in 2012. Reported structure fires decreased by 203 from 3,202 in the previous year. Motor vehicle fires increased by 17 from the 411 reported during 2012. Reported outside and other fires increased by 54 from 1,571 the year before.

MIDDLESEX COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5,161	3,389	503	1,269	167	39	28	100
2010	5,762	3,406	506	1,850	161	44	13	104
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	5,502	2,999	428	1,625	109	33	11	65

Fire and Fire Death Rates

Middlesex County had 3.4 fires per 1,000 population. That figure ranks Middlesex County tied for twelfth in the state and below the state rate of 4.6 fires per 1,000 population. Middlesex County also had 0.03 fire deaths per 10,000 population ranking it tied for eleventh among Massachusetts counties and just below the state rate of 0.07 fire deaths per 10,000 population.

4 Fatal Fires Killed 5 Middlesex County Residents

In 2013, four fatal fires killed five people in Middlesex County.

- On January 5, 2013, at 11:08 p.m., the Chelmsford Fire Department was called to a fatal electrical fire in a 24-unit apartment building. The fire was started by an extension cord in a third floor apartment. The victims, a 77-year old man, and his 67-year old wife were both overcome by the heat and smoke while they attempted to

escape. Four (4) other civilians and one firefighter were injured at this fire. Detectors were present and alerted the occupants of the building. There were no sprinklers. The fire caused an estimated \$3.5 million worth of damage.

- On January 23, 2013, at 7:52 a.m., the Ayer Fire Department was called to a fatal cooking fire in a single-family home. The victim, a 76-year old woman, was cooking bacon on the stove when the robe she was wearing ignited. No one else was injured at this fire. Detectors were present but the fire was too small to activate them. The home was not sprinklered. Damages from this fire were not estimated.
- On April 26, 2013, at 11:49 p.m., the Newton Fire Department was called to a fatal smoking fire in a two-family home. The 59-year old physically disabled female victim fell asleep and her cigarette started the fire. There were no other injuries at this fire. Detectors were present and alerted the other occupants of the building. There were no sprinklers. Damages from this fire were estimated to be \$180,000.
- On August 20, 2013, at 9:15 a.m., the Holliston Fire Department was called to a fatal electrical fire on a utility pole. The victim, a 26-year old man, was cutting tree limbs in a bucket truck when his extension saw cut through a power line. The arcing caused the bucket to ignite. The victim was brought down to street level where the fire was extinguished and he was transported to a local hospital via helicopter where he succumbed to his injuries.

Largest Loss Fire in 2013

In 2013, Middlesex County fire departments reported seven fires with a reported dollar loss of \$1 million or greater. The combined dollar loss of these seven fires totaled \$13 million, or 29%, of the county's total dollar loss.

- On February 8, 2013, at 3:44 a.m., the Wilmington Fire Department was called to a fire of undetermined cause at a 24-unit apartment building during a snow storm. The fire started on a second floor balcony. No one was injured at this fire. Detectors were present but it was undetermined if they operated. Sprinklers were present but it was undetermined if they operated as the building was a total loss. Damages from this fire were estimated to be \$4 million.

STRUCTURE FIRES

Reported Structure Fires Drop

The 2,999 structure fires caused four civilian deaths, 37 civilian injuries, 64 fire service injuries and an estimated dollar loss of \$41.7 million. These incidents represented 59% of Middlesex County's reported fires in 2013. The average estimated dollar loss per structure fire was \$13,930. The total number of reported structure fires decreased by 203, or 6%, from the 3,202 reported in 2012.

Arson Caused of 1% of Structure Fires

The 33 structure arsons caused two fire service injuries and an estimated dollar loss of \$1.1 million. Arson was indicated as the cause of 1% of the structure fires and 3% of Middlesex County's structure fire dollar loss. The 33 structure arsons accounted for 30% of the Middlesex County arson fires reported in 2013. The total number of reported structure arsons decreased by two, or 6%, from 35 in 2012.

70% of Structure Arsons Occurred in Residences

Seventy-percent (70%) of Middlesex County's 33 structure arsons occurred in residential occupancies. Public assembly properties accounted for 9% of these fires. Mercantile and business facilities, storage facilities and special properties each accounted for 6% of structure arsons. Three percent (3%) of these arsons occurred in educational facilities in Middlesex County's in 2013.

BUILDING FIRES

There were 2,978 building fires of different types in Middlesex County in 2013. These 2,978 building fires accounted for 99.3% of all structure fires in Middlesex County.

82% of Middlesex Building Fires Occurred in People's Homes

Two thousand four hundred and fifty (2,450), or 82%, of Middlesex County's 2,978 building fires occurred in residential occupancies. One hundred and twenty-six (126) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 121 fires. Hospitals, prisons, and other institutional buildings experienced 102 fires. Fifty-four (54) building fires took place in educational facilities. Forty-nine (49) building fires in Middlesex County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Thirty-three (33) fires took place in storage properties. Twenty-four (24) fires occurred in industrial, utility, defense, agricultural or mining facilities. Eighteen (18) fires in Middlesex County in 2013 took place in manufacturing and processing facilities.

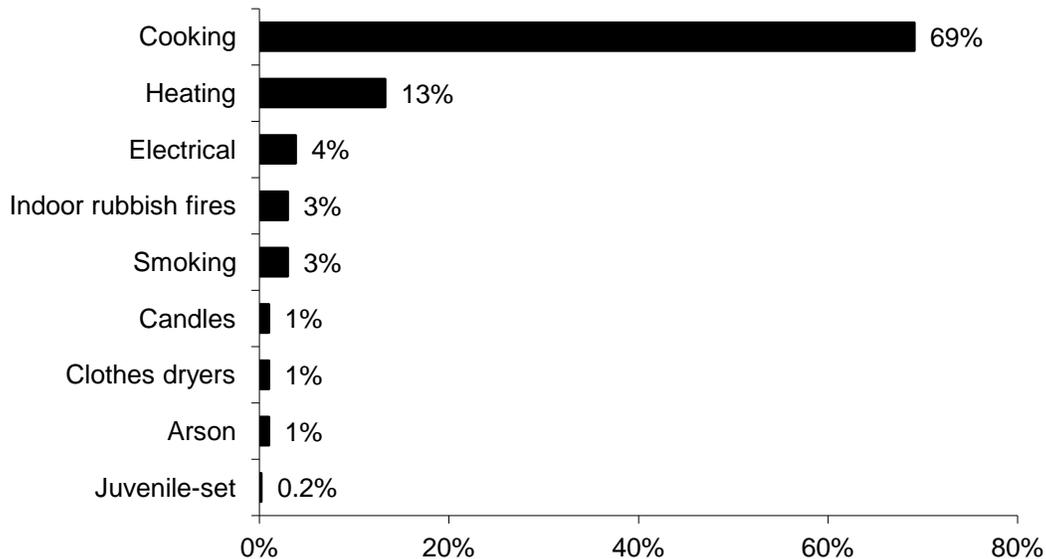
RESIDENTIAL FIRES**Residential Building Fires Are Down**

There were 2,450 reported residential building fires in Middlesex County in 2013. These 2,450 fires are a decrease of 172, or 7%, from the 2,622 residential building fires reported in 2012.

Unsafe Cooking Causes 69% of All Residential Fires

The leading cause of residential building fires in Middlesex County was unattended cooking and other unsafe cooking practices, accounting for 69% of these fires. Heating caused 13% of fires in people's homes. Electrical problems caused 4%. Smoking and indoor rubbish fires each accounted for 3% of these fires. Candles, clothes dryers, and arsons each caused 1%, and juvenile-set fires accounted for less than 1% of the residential fires in Middlesex County in 2013.

2013 Leading Causes of Fires in Middlesex County Homes



80% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One thousand nine hundred and fifty-one (1,951), or 80%, of all residential building fires were reported as confined to non-combustible containers in 2013. One thousand six hundred and twenty-two (1,622) of the reported fires were cooking fires contained to a non-combustible container accounting for 66% of residential building fires. One hundred and fifty-seven (157), or 6%, were fires confined to a fuel burner or boiler malfunction. One hundred (100), or 4%, of all residential building fires reported in 2013 were fires confined to a chimney. Sixty-nine (69), or 3%, of these fires were rubbish fires contained to a non-combustible container. Two (2) commercial compactor fires accounted for less than 1%, and one incinerator overload or malfunction also accounted for less than 1% of the residential fires in Middlesex County in 2013.

Detectors Alerted Occupants in Almost 2/3 of Fires

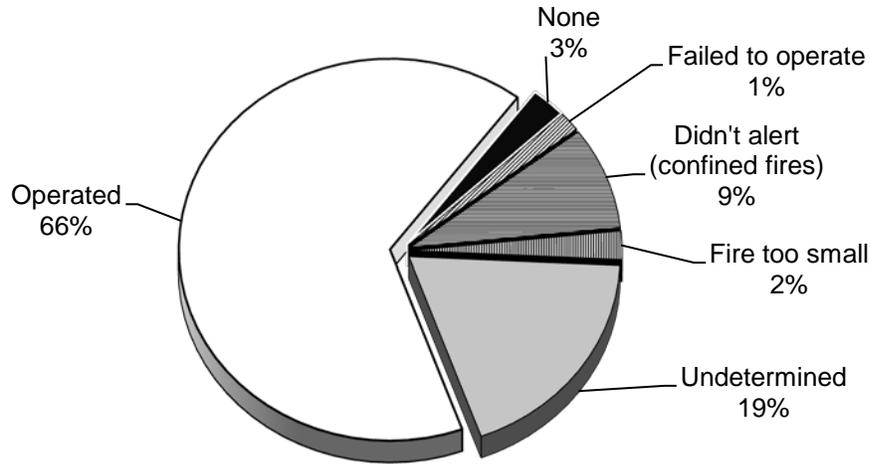
Smoke or heat detectors operated and alerted the occupants in 1,614, or 66%, of the residential building fires. In 9% of these fires², the detectors did not alert the occupants. Detectors were present but did not operate in 1% of these incidents. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 2% of the

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.

residential fires. Smoke detector performance was undetermined in 458 incidents, or 19%, of Middlesex County’s residential building fires.

Detector Status in Middlesex County's Residential Structure Fires 2013



40% of Failed Detectors Had Missing or Dead Batteries

Of the 40 fires where smoke detectors were present but failed to operate, 10, or 25%, failed because the batteries were either missing or disconnected. In six, or 15%, of these cases the batteries were dead. Two (2), or 5%, failed because of a power failure, shutoff or disconnect. Three (3) detectors, or 8%, failed from a lack of maintenance. One (1) unit, or 3%, failed because of improper installation or placement; and another detector, or 3%, failed because it was defective. It was undetermined or unclassified in 17 cases, or 43%, why the detectors failed to operate.

VACANT BUILDINGS

2% of Building Fires Occurred in Vacant Buildings

Middlesex County reported 45 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 2,978 building fires reported to MFIRS in 2013. Twenty-three (23) fires occurred in vacant residential properties. Eight (8) vacant building fires occurred in storage facilities. Mercantile and business properties had five of these fires. Industrial and educational facilities each accounted for two of these fires. Special properties had two and public assembly facilities had one vacant building fire incident in Middlesex County in 2013.

Six (6), or 13%, of the vacant building fires in Middlesex County in 2013 were determined to be intentionally set. Three (3) of these fires occurred in apartment buildings, one occurred in an unclassified business, one happened in an unclassified storage facility and another in a warehouse.

JUVENILE-SET FIRES

66 Juvenile-set Fires

There were 66 reported juvenile-set fires in Middlesex County in 2013. The five structure fires, 58 brush fires, one outside rubbish fire, and two special outside fires caused one civilian injury and an estimated \$3,460 in damages.

ARSONS

109 Total Arsons — 33 Structures, 11 Vehicles & 65 Other Arsons

One hundred and nine (109), or 2%, of Middlesex County's 5,052 fires were considered intentionally set, or, for purposes of this analysis, arson. The 33 structure arsons, 11 motor vehicle arsons and 65 outside and other arsons caused two fire service injuries and an estimated dollar loss of \$1.1 million.

All Arson Down

The total number of reported arson fires decreased by 27 from the 136 reported in 2012. Reported structure arsons decreased by two from the 35 reported in the previous year. Motor vehicle arsons decreased by three from 14 in 2012. Reported outside and other arsons decreased by 22 from 87 the year before.

ALL INCIDENTS

Rescue & EMS Calls Are 55% of All Reported Responses

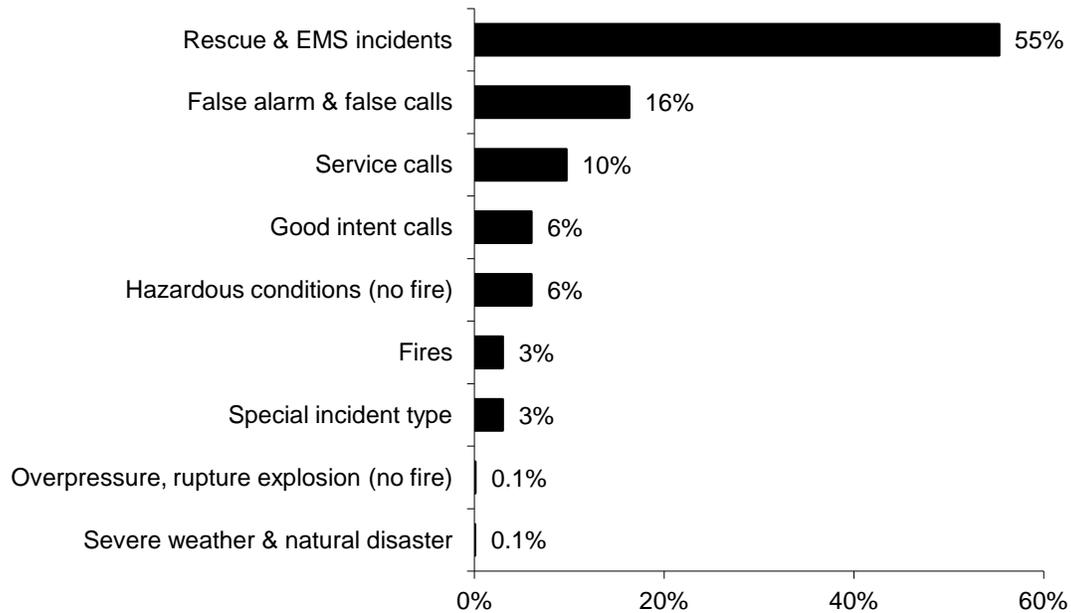
In 2013, fire departments in Middlesex County reported 155,114 responses³ to MFIRS. This is a 1% decrease from the 155,259 responses reported in 2012. Of these 155,114 incidents, 148,831 non-fire calls were voluntarily reported.

Of these 148,831 non-fire calls, 85,239, or 55%, of all the responses reported in 2013 were reported rescue and emergency medical services (EMS) calls; 25,153, or 16%, were reported false alarm or false calls; 14,966, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 9,283, or 6%, were reported good intent calls; 8,876, or 6%, reported hazardous condition calls with no fire; 5,092, 3%, were special incident type calls such as citizen complaints; 132, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 90, or 0.1%, were severe weather responses.

³ These figures include incidents in which Middlesex County fire departments gave mutual aid to other fire departments.

Five thousand two hundred and eighty-three (5,283), or 3%, of the total responses submitted by Middlesex County fire departments were fires.

2013 Responses by Incident Type



Middlesex County Fire Departments Gave Mutual Aid 2,778 Times

In 2013, Middlesex County fire departments reported coming to the aid of other fire departments 2,778 times. Of these 2,778 responses, 1,251, or 45%, were for rescue or EMS calls; 689, or 25%, were for service calls such as cover assignments; 453, or 16%, were for good intent calls; 230, or 8%, were for fires; 85, or 3%, were for false alarms or false calls; 48, or 2%, were for hazardous conditions calls with no fire; 19, or 1%, were special incident types; two, or less than 1%, were for a reported overpressure, rupture, explosion or overheat call with no fire; and one, or less than 1%, was for a severe weather response.

Middlesex County Received Mutual Aid in 1,545 Incidents

In 2013, Middlesex County fire departments reported receiving aid from surrounding departments in 1,680 incidents. Of these 1,545 incidents, 1,139, or 74%, were rescue and emergency medical services calls; 204, or 13%, were for fires; 91, or 6%, were false alarms or false calls; 41, or 3%, were good intent calls; 40, or 3%, were hazardous conditions calls with no fire; 26, or 2%, were service calls; three, or less than 1%, were severe weather calls; and one, or less than 1%, was a special incident type.

Middlesex County**Population: 1,503,085****3.4 Fires/1,000 Population****Total Fires: 5,052 \$45,147,639**

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	2,999	59%	\$41,777,288
Vehicle Fires	428	8%	2,977,304
Other Fires	1,625	32%	393,047

4 Fatal Fires 0.99 Civilian Deaths/1,000 Fires
 5 Civilian Deaths 0.03 Civilian Deaths/10,000 Population
 41 Civilian Injuries 71 Fire Service Injuries

Building Fires: 2,978**Residential Building Fires: 2,450****Residential Building Fires Confined to Non-Combustible Containers: 1,951****Unconfined Residential Building Fires: 499**

4 Civilian Deaths 37 Civilian Injuries 58 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	1,123	46%	Operated	1,614	66%
1- & 2-Family homes	974	40%	Didn't operate	40	1%
Dormitories	173	7%	None	66	3%
Rooming houses	54	2%	Fire too small	59	2%
Hotels or motels	18	1%	Didn't alert (confined)	213	9%
Residential board & care	17	1%	Undetermined	458	19%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	71%	Heat from operating eq.	3%	14%
Heating equipment room	7%	Arcing	2%	12%
Chimney or flue	4%	Radiated heat/oper. eq.	2%	10%
Bedroom	2%	Cigarette	2%	9%
Exterior balcony/unencl. porch	2%	Candle	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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	68%	Too close to combustibles	2%	8%
Flammable, combustible liquid	6%	Abandoned materials	1%	6%
Film, residue (creosote)	4%	Elec. failure or malfunction	1%	5%
Rubbish, trash, waste	4%	Misuse of material or prod.	1%	5%
Structural member, framing	2%	Equipment unattended	1%	5%
Electrical wire, cable insulation	2%	Mech. failure or malfunction	1%	3%

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Cooking equipment	69%	Unintentional	12%	60%
None	12%	Failure of eq. or heat source	3%	15%
Boiler, furnace, cent. heat unit	7%	Intentional	1%	4%
Chimney or flue	4%	Act of nature	0.3%	1%
Clothes dryer	1%	Undetermined	1%	7%
		Cause under investigation	2%	12%

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

Alerted occupants	71%
Didn't alert occupants	11%
Undetermined	18%

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	403	294	41	68
February	338	274	32	32
March	359	264	37	58
April	573	252	34	287
May	592	267	36	289
June	357	199	31	127
July	360	187	36	137
August	431	209	37	185
September	377	248	28	101
October	428	240	34	154
November	461	280	31	150
December	373	285	51	37

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	829	516	51	262
Monday	678	403	52	223
Tuesday	787	446	55	226
Wednesday	691	419	71	201
Thursday	705	417	61	227
Friday	695	399	69	227
Saturday	727	399	69	259

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	301	182	37	82
04:01 - 08:00	317	174	40	103
08:01 - 12:00	842	516	76	250
12:01 - 16:00	1,363	668	113	582
16:01 - 20:00	1,452	949	95	408
20:01 - 00:00	777	510	67	200

Motor Vehicle Fires

Total: 428

Automobiles: 342 (80%)

11, or (3%), of the automobile fires considered intentionally set.

Arson Fires**Total Arsons: 109****Dollar loss: \$1,117,798****0.09 Arson Fires/1,000 Population**

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	33	1%	30%	\$1,066,764
Vehicle Arsons	11	3%	10%	38,550
Other Arsons	65	4%	60%	12,484

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.04 Other arsons/1,000 population

2 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 - 20:00	7	21%	00:01 - 04:00	4	36%
04:01 - 08:00	6	18%	04:01 - 08:00	2	18%
08:01 - 12:00	6	18%	12:01 - 16:00	2	18%

Other Arsons	#	%
20:01 - 00:00	19	29%
16:01 - 20:00	18	28%
12:01 - 16:00	17	26%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartment buildings	15	45%
1- & 2-Family homes	7	21%

	Acton				Population: 21,924			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	58	43	4	11	0	0	0	0
2010	73	40	1	32	8	0	0	8
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

	Arlington				Population: 42,844			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	72	41	5	26	5	0	0	5
2010	114	43	8	63	2	0	0	2
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

	Ashby				Population: 3,074			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	2	1	0	0	0	0	0
2010	8	7	1	0	0	0	0	0
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

	Ashland				Population: 16,593			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	8	0	2	1	1	0	0
2010	22	10	1	11	0	0	0	0
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

Ayer	Population: 7,427							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	31	22	2	7	0	0	0	0
2010	39	12	6	21	0	0	0	0
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

Bedford	Population: 13,320							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	33	18	6	9	1	0	1	0
2010	34	10	2	22	2	0	0	2
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

Belmont	Population: 24,729							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	148	118	4	26	6	0	0	6
2010	157	123	2	32	12	2	0	10
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

Billerica	Population: 40,243							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	150	71	20	59	1	0	0	1
2010	153	55	14	84	6	3	0	3
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

Boxborough**Population: 4,996**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	1	3	7	0	0	0	0
2010	17	2	8	7	1	0	0	1
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

Burlington**Population: 24,498**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	68	34	8	26	5	1	0	4
2010	93	36	12	45	4	0	0	4
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

Cambridge**Population: 105,162**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	874	775	17	82	4	0	0	4
2010	901	782	16	103	7	2	1	4
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

Carlisle**Population: 4,852**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	0	0	1	0	0	0	0
2010	3	1	1	1	0	0	0	0
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

Chelmsford**Population: 33,802**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	36	13	16	7	2	0	1	1
2010	23	9	7	7	0	0	0	0
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

Concord**Population: 17,668**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	38	14	4	20	3	1	1	1
2010	52	24	8	20	2	0	0	2
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

Devens**Population: 3,290**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	2	1	13	0	0	0	0
2010	11	2	1	8	0	0	0	0
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

Dracut**Population: 29,457**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	87	45	14	28	11	2	2	7
2010	95	36	7	52	12	1	0	10
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

Dunstable					Population: 3,179			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	3	0	0	0	0	0	0
2010	24	5	2	17	1	0	0	1
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

Everett					Population: 41,667			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	152	90	27	35	12	7	3	2
2010	173	91	20	62	8	4	0	4
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

Framingham					Population: 68,318			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	385	313	19	53	4	2	2	0
2010	440	326	29	85	0	0	0	0
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

Groton					Population: 10,646			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	6	4	0	1	1	0	0
2010	32	6	3	23	1	0	0	1
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

Holliston					Population: 13,547			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	7	7	0	0	0	0	0	0
2010	4	3	1	0	0	0	0	0
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

Hopkinton					Population: 14,925			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	50	23	11	16	0	0	0	0
2010	60	29	7	24	1	0	0	1
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

Hudson					Population: 19,063			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	59	24	7	28	5	1	1	3
2010	60	22	5	33	0	0	0	0
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

Lexington					Population: 31,394			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	47	28	8	11	2	0	1	1
2010	73	39	12	22	1	0	0	1
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

Lincoln					Population: 6,362			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	35	23	3	9	1	0	0	1
2010	44	28	4	12	0	0	0	0
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

Littleton					Population: 8,924			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	48	32	6	10	0	0	0	0
2010	48	23	7	18	1	0	0	1
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

Lowell					Population: 106,519			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	506	324	45	137	24	8	6	10
2010	662	392	45	225	20	7	8	5
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

Malden					Population: 59,450			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	355	267	25	63	9	0	4	5
2010	344	248	14	82	7	1	0	6
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

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
2009	120	52	18	50	2	1	1	0
2010	133	54	14	65	9	2	1	6
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

Maynard					Population: 10,106			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	1	2	0	0	0	0	0
2010	9	5	1	3	0	0	0	0
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

Medford					Population: 56,173			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	367	217	34	116	18	1	1	16
2010	288	148	30	110	4	1	1	2
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

Melrose					Population: 26,983			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	25	13	7	5	0	0	0	0
2010	25	23	1	1	0	0	0	0
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

Natick**Population: 33,006**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	94	58	8	28	4	1	0	3
2010	131	61	17	53	3	2	0	1
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

Newton**Population: 85,146**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	111	66	16	29	5	1	0	4
2010	145	74	22	49	3	0	1	2
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

North Reading**Population: 14,892**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	49	26	2	21	4	0	0	4
2010	50	23	4	23	0	0	0	0
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

Pepperell**Population: 11,497**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	38	21	2	15	0	0	0	0
2010	37	19	1	17	0	0	0	0
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

Reading					Population: 24,747			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	71	32	9	30	6	0	0	6
2010	89	49	5	35	5	0	0	5
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

Sherborn					Population: 4,119			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	26	10	3	13	5	1	1	3
2010	21	7	3	11	4	0	0	4
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

Shirley					Population: 7,211			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	23	23	0	0	1	1	0	0
2010	7	6	1	0	0	0	0	0
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

Somerville					Population: 75,754			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	49	32	16	1	2	2	0	0
2010	43	29	13	1	1	1	0	0
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

Stoneham					Population: 21,437			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	87	72	6	9	1	1	0	0
2010	78	58	14	6	1	1	0	0
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

Stow					Population: 6,590			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	18	5	3	10	2	0	0	2
2010	26	13	2	11	2	0	0	0
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

Sudbury					Population: 17,659			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	32	13	4	15	1	0	1	0
2010	61	21	3	37	0	0	0	0
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

Tewksbury					Population: 28,961			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	92	44	15	33	2	1	0	1
2010	105	41	11	53	7	5	0	2
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

Townsend					Population: 8,926			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	8	6	2	0	0	0	0	0
2010	3	2	1	0	1	1	0	0
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

Tyngsborough					Population: 11,292			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	7	4	8	0	0	0	0
2010	43	7	12	24	0	0	0	0
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

Wakefield					Population: 24,932			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	54	38	13	3	1	0	1	0
2010	59	52	6	1	1	1	0	0
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

Waltham					Population: 60,632			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	148	74	13	61	6	1	0	5
2010	185	76	26	83	6	3	0	3
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

Watertown					Population: 31,915			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	50	24	7	19	0	0	0	0
2010	63	34	5	24	3	2	0	1
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

Wayland					Population: 12,994			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	25	15	3	7	0	0	0	0
2010	47	26	5	16	1	1	0	0
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

Westford					Population: 21,951			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	68	22	8	38	1	0	0	1
2010	74	24	12	38	7	2	0	5
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

Weston					Population: 11,261			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	56	32	10	14	2	0	0	2
2010	39	22	8	9	1	1	0	0
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

Wilmington					Population: 22,325			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	92	51	14	27	4	2	1	1
2010	118	58	20	40	4	1	0	3
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

Winchester					Population: 21,374			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	64	42	7	15	3	2	0	13
2010	53	23	7	23	2	0	0	2
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

Woburn					Population: 38,120			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	70	42	17	11	0	0	0	0
2010	71	47	18	6	1	0	0	1
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

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	4,400	59	2	1,428	146	236	98	363	4	2,064
17010	Arlington	4,543	99	5	2,938	282	353	173	687	1	5
17012	Ashby	28	15	0	1	1	10	1	0	0	0
17014	Ashland	6	6	0	0	0	0	0	0	0	0
17019	Ayer	623	35	3	86	61	275	49	111	0	3
17023	Bedford	2,750	43	1	1,296	105	196	102	376	3	628
17026	Belmont	3,007	116	0	1,775	126	234	267	485	4	0
17031	Billerica	4,053	141	6	2,673	288	345	96	485	3	16
17037	Boxborough	471	19	1	141	31	115	33	119	0	12
17048	Burlington	3,877	96	0	2,442	102	459	146	631	0	1
17049	Cambridge	12,763	932	14	5,740	714	721	1,768	2,870	1	3
17051	Carlisle	4	4	0	0	0	0	0	0	0	0
17056	Chelmsford	17	15	1	0	1	0	0	0	0	0
17067	Concord	3,062	45	5	1,699	176	235	180	712	3	7
17919	Devens	603	46	1	194	22	208	17	115	0	0
17079	Dracut	3,601	82	2	2,319	137	382	81	594	0	4
17081	Dunstable	288	15	0	152	7	49	25	39	1	0
17093	Everett	5,363	163	4	3,438	154	308	442	854	0	0
17100	Framingham	8,894	475	4	5,800	236	700	581	1,091	1	6
17115	Groton	460	13	11	56	87	70	29	191	3	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	7	7	0	0	0	0	0	0	0	0
17139	Hopkinton	1,770	95	5	1,003	125	143	123	261	1	14
17141	Hudson	3,350	56	5	1,559	286	492	158	472	2	320
17155	Lexington	45	42	0	0	1	0	0	1	1	0
17157	Lincoln	954	41	2	425	53	84	41	245	2	61
17158	Littleton	1,426	64	0	902	83	111	101	160	2	3
17160	Lowell	14,560	528	9	8,470	615	1,742	802	2,300	4	90
17165	Malden	3,134	97	1	2,163	114	221	130	404	0	4
17170	Marlborough	6,088	144	5	3,491	296	513	471	1,131	2	35
17174	Maynard	1,702	28	3	852	64	115	140	197	0	303
17176	Medford	9,004	290	6	5,330	826	752	529	1,233	11	27
17178	Melrose	12	11	0	0	1	0	0	0	0	0
17198	Natick	4,726	109	3	2,860	311	438	250	732	10	13
17207	Newton	8,848	180	3	4,340	600	1,252	377	2,094	2	0
17213	North Reading	2,020	43	0	1,120	121	283	144	290	9	10
17232	Pepperell	395	58	0	78	38	59	34	128	0	0
17246	Reading	252	67	2	4	92	9	12	63	0	3
17269	Sherborn	242	29	1	13	25	62	21	86	5	0
17270	Shirley	5	5	0	0	0	0	0	0	0	0
17274	Somerville	30	30	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
17284	Stoneham	2,613	67	1	1,711	367	143	84	240	0	0
17286	Stow	889	26	0	571	33	72	66	117	1	3
17288	Sudbury	1,650	34	0	956	145	93	101	289	3	29
17295	Tewksbury	3,999	110	4	2,347	94	791	225	406	2	20
17299	Townsend	550	9	1	361	30	49	54	46	0	0
17301	Tyngsborough	1,259	31	3	514	175	245	62	229	0	0
17305	Wakefield	172	47	0	0	12	0	0	113	0	0
17308	Waltham	8,047	174	2	4,440	582	826	506	1,474	2	41
17314	Watertown	4,366	78	7	2,798	204	385	131	741	1	21
17315	Wayland	3,502	37	5	1,172	238	446	92	198	1	1,313
17330	Westford	2,483	57	1	1,563	69	263	86	429	0	15
17333	Weston	2,184	53	0	1,123	164	184	95	560	2	3
17342	Wilmington	2,802	88	0	1,878	131	115	242	334	2	12
17344	Winchester	1,921	59	1	926	282	158	109	384	1	1
17347	Woburn	294	70	2	91	23	24	9	73	0	2
Middlesex County		154,114	5,283	132	85,239	8,876	14,966	9,283	25,153	90	5,092

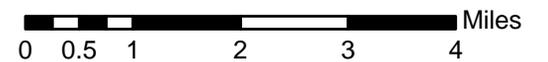
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.



Nantucket County

2013 Fire Data Analysis

Nantucket County Fires 2013



Nantucket County Fires in 2013

43 Total Fires — 36 Structures, 0 Vehicles & 7 Outside and Other Fires

Nantucket County ranked thirteenth out of the fourteen Massachusetts counties in total reported fires. The Nantucket Fire Department reported 43 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 36 structure fires, four brush fires, two special outside fires, and one unclassified fire caused one fire service injury and an estimated dollar loss of \$2.6 million. Nantucket County's fires accounted for 0.1% of the 29,828 Massachusetts fires reported in 2013.

All Fires Up

The total number of reported fire incidents increased by four from the 39 fires reported in 2012. Structure fires increased by five from the 31 reported in 2012. Motor vehicle fires decreased by three from the three reported the previous year. Reported outside and other fires increased by two from the five reported in 2012.

Nantucket is an island community with a small year round population. During the summer months, the population increases immensely. Consequently, 44% of Nantucket's fires occurred between the months of May and September.

No Reported Fire Deaths

In 2013, Nantucket did not report any fire-related deaths.

NANTUCKET FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	39	27	3	9	1	0	0	1
2010	47	30	3	14	1	0	0	1
2011	48	37	2	9	2	0	0	2
2012	39	31	3	5	1	0	0	1
2013	43	36	0	7	0	0	0	0

Fire and Fire Death Rates

Nantucket County had 4.2 fires per 1,000 population. That figure ranks Nantucket County fifth in the state and below the state rate of 4.6 fires per 1,000 population. Nantucket County also had no fire deaths, tying it for eleventh among Massachusetts counties and below the state rate of 0.06 fire deaths per 10,000 population.

Dump Fire Largest Dollar Loss in 2013

In 2013 Nantucket reported only one of their 43 fires as having a dollar loss greater than \$1 million.

- On February 6, 2013, at 6:23 a.m., the Nantucket Fire Department was called to a structure fire in waste treatment facility. The fire was started by a natural chemical reaction in the large rubbish pile. No one was injured at this fire. Detectors were present but failed to operate due to a lack of cleaning. A dry pipe sprinkler was also

present but failed to operate from a lack of maintenance. Damages to the building and three large construction type vehicles inside the building were estimated to be \$2 million.

STRUCTURE FIRES

Reported Structure Fires Up

There were 36 structure fires in Nantucket in 2013. These incidents represented 84% of Nantucket County's reported fires in 2013. These 36 fires caused one fire service injury and \$2.6 million in estimated losses in 2013. The total number of reported structure fires increased by five from the 31 reported in 2012.

No Reported Structure Arsons

Nantucket County did not report any structure arsons in 2013. The last year that Nantucket reported a structure arson was 2003.

BUILDING FIRES

There were 36 building fires of different types in Nantucket County in 2013. These 36 building fires accounted for all of the structure fires in Nantucket County.

83% of Nantucket Building Fires Occurred in People's Homes

Thirty (30), or 83%, of Nantucket County's 36 building fires occurred in residential occupancies. Four (4) happened at public assembly properties and two fires took place in special properties.

RESIDENTIAL FIRES

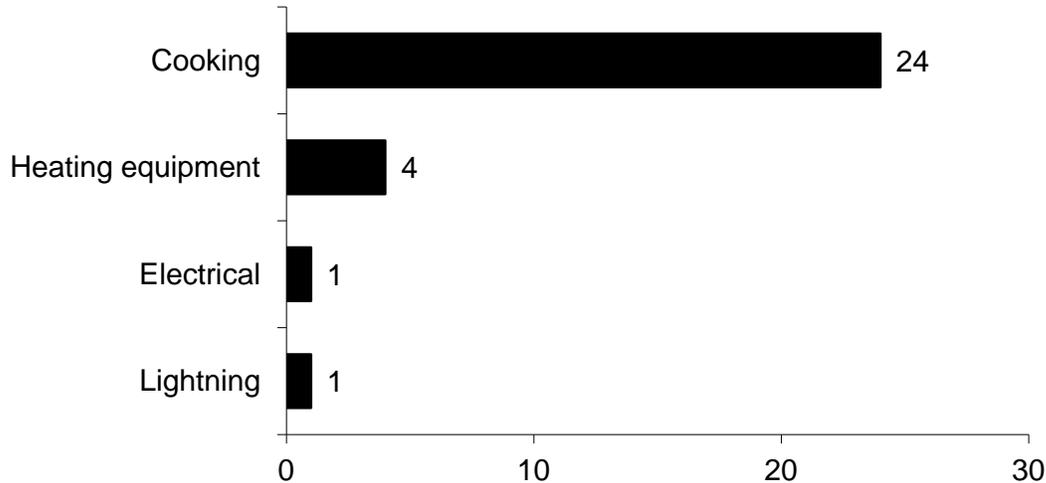
Residential Building Fires Remain the Same

There were 30 reported residential building fires in Nantucket County in 2013. These 30 fires are the same number of building fires reported in 2012. Twenty-three (23), or 77%, occurred in one- or two-family homes; two, or 7%, happened in apartments; two, or 7%, happened in hotels or motels; two, or 7%, occurred in dormitories; and one, or 3%, happened in a rooming house.

Cooking Fires Cause 24 of 30 Residential Fires

The leading cause of residential building fires in Nantucket County was unattended cooking and other unsafe cooking practices, accounting for 24, or 80%, of these fires. Heating equipment caused four, or 13%, of these fires. Electrical problems and lightning each were the cause of one, or 3%, of Nantucket's 2013 residential fires.

2013 Leading Causes of Fires in Nantucket Homes



26 Residential Building Fires Are Confined to Non-Combustible Containers¹

Twenty-six (26), or 87%, of all residential building fires were reported as confined to non-combustible containers in 2013. Twenty-two (22) of the reported fires were cooking fires contained to a non-combustible container accounting for 73% of the residential fires. Three, or 10%, were confined to a chimney or flue; and one, or 3%, of Nantucket's residential fires was a fuel burner or boiler malfunction.

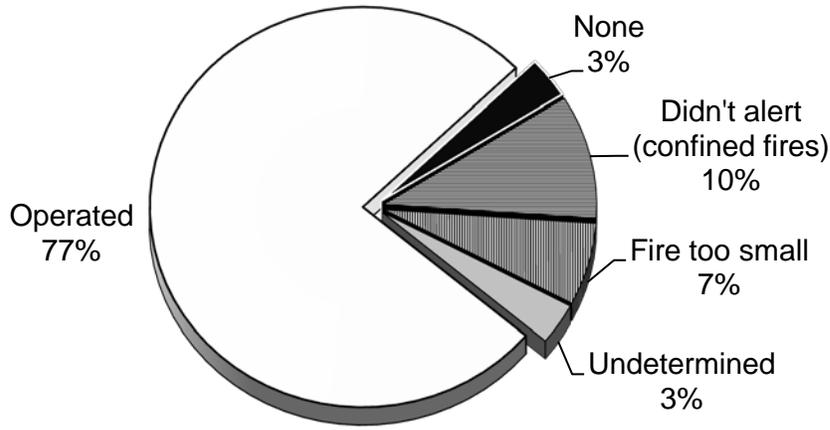
Detectors Alerted Occupants in 77% of Fires

Smoke or heat detectors operated and alerted the occupants in 23, or 77%, of the residential building fires. In three, or 10%, of these fires² the detectors did not alert the occupants. There were no detectors in one, or 3% of these fires. The fire was too small to activate the detector in two, or 7%, of these fires. Detector performance was undetermined in one, or 3%, 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.

Detector Status in Nantucket County's Residential Fires 2013



VACANT BUILDING FIRES

0 of Nantucket County Building Fires Occurred in Vacant Buildings

Nantucket County did not report any fires that occurred in a building that was vacant, under construction or demolition.

JUVENILE-SET FIRES

No Juvenile-set Fires

Nantucket County did not report any juvenile-set fires in 2013.

ARSONS

0 Total Arsons

In 2013, Nantucket County's did not report a single fires that was considered intentionally set, or, for purposes of this analysis, arson.

Outside Arson Fires Decrease

Nantucket did not report any arsons. The total number of arsons decreased by one from the one reported in 2012. Reported structure arsons remained the same with none reported in both 2012 and 2013. Motor vehicle arsons also remained the same with none reported in both 2012 and 2013. Outside and other arsons decreased by one from one reported in 2012.

ALL INCIDENTS

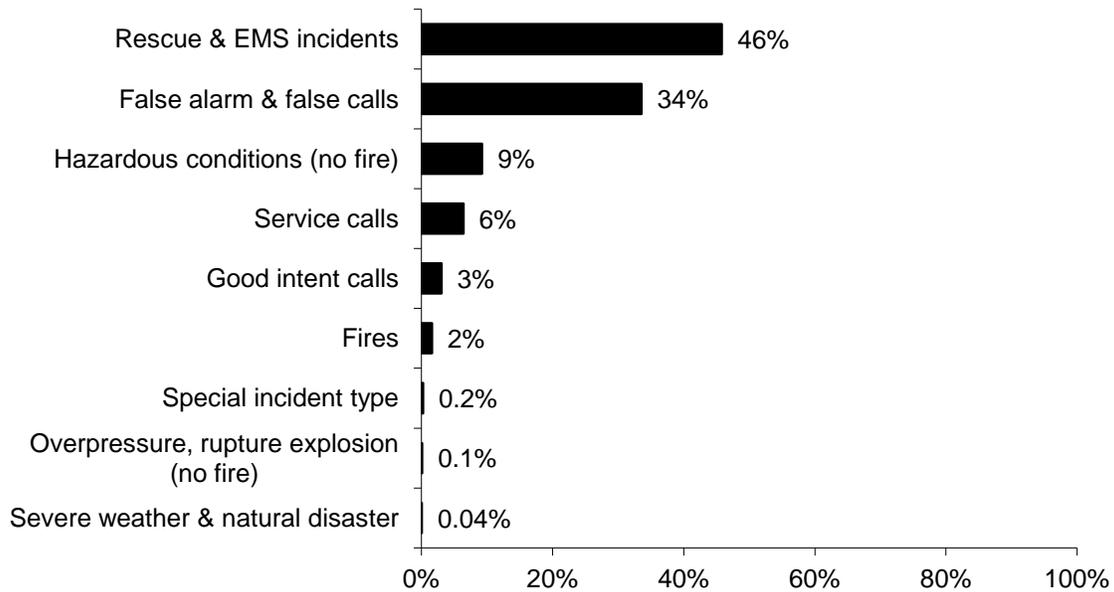
Rescue & EMS Calls Are 46% of All Reported Incidents

In 2013, Nantucket County reported 2,716 responses to MFIRS. Of these 2,716 incidents, 2,673 non-fire calls were voluntarily reported.

Of these 2,673 non-fire calls, 1,244, or 46%, of the total responses reported in 2013 were reported rescue and emergency medical services (EMS) calls; 911, or 34%, were reported false alarm or false calls; 251, or 9%, were reported hazardous condition calls with no fire; 174, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 83, or 3%, were reported good intent calls; six, or 0.2%, were special incident types; three, or 0.01%, were overpressure, rupture or explosion calls with no fire; and one, or 0.04%, was a severe weather call.

Forty-three (43), or 2%, of the total responses submitted by the Nantucket Fire Department were fires.

2013 Incidents by Incident Type



Nantucket County

Population: 10,172

4.2 Fires/1,000 Population

Total Fires:	43		\$2,636,900
Situation	Fires	% of Fires	Dollar Loss
Structure Fires	36	84%	\$2,636,900
Vehicle Fires	0	0%	0
Other Fires	7	16%	0

1 Fire Service Injury

Building Fires: 36

Residential Structure Fires: 30

Residential Structure Fires Confined to Non-Combustible Containers: 26

Unconfined Residential Structure Fires: 4

No Casualties

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	23	77%	Operated	23	77%
Apartments	3	7%	Didn't operate	0	0%
Hotels, motels	3	7%	None	1	3%
Dormitories	2	7%	Fire too small	2	7%
Rooming houses	1	3%	Didn't alert (confined)	3	10%
			Undetermined	1	3%

Area of Origin³	%	Heat Source	%	%Unconfined⁴
Kitchen	80%	Arcing	3%	25%
Chimney or flue	10%	Lightning	3%	25%
Attic	3%	Spont. comb., chem. react.	3%	25%
Heating room or area	3%	Radiated heat/another fire	3%	25%
Substructure area, crawl space	3%			

³ This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

⁴ 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 Ignited⁵	%	Factor Contrib. to Ignit.	%	% Unconfined⁶
Cooking materials	73%			
Film, residue (creosote)	10%			
Cabinetry	3%			
Electrical wire, cable insulation	3%			
Flammable, combustible liquid	3%			
Rubbish, trash, waste	3%			
Structural member, framing	3%			

Equipment⁷	%	Cause of Ignition	%	% Unconfined⁸
Cooking equipment	80%	Unintentional	3%	25%
Chimney or flue	10%	Act of nature	7%	50%
Boiler, furnace, cent. heat. unit	3%	Failure of eq. or heat source	%	25%
		Cause under investigation	0%	0%
		Undetermined	0%	0%

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

Alerted Occupants	85%
Didn't Alert Occupants	12%
Undetermined	4%

⁵ This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

⁶ 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.

⁷ This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

⁸ 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	2	0	0
February	6	6	0	0
March	3	0	0	3
April	5	4	0	1
May	4	3	0	1
June	3	3	0	0
July	4	4	0	0
August	4	4	0	0
September	4	3	0	1
October	1	1	0	0
November	2	2	0	0
December	5	4	0	1

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	3	3	0	0
Monday	7	6	0	1
Tuesday	4	4	0	0
Wednesday	14	14	0	0
Thursday	2	2	0	0
Friday	9	4	0	5
Saturday	4	3	0	1

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	0	0	0	0
04:01 - 08:00	5	5	0	0
08:01 - 12:00	5	4	0	1
12:01 - 16:00	11	10	0	1
16:01 - 20:00	18	15	0	3
20:01 - 00:00	4	2	0	2

Motor Vehicle Fires

Total: 0

Automobiles: 0 (0%)

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

Responses Reported to MFIRS by Month

Incident Type	# of	January	February	March	April	May	June	July	August	September	October	November	December
	Incidents												
Fires	45	2	8	3	5	4	3	4	4	4	1	2	5
Overpressure, rupture explosion (no fire)	3	0	0	0	0	0	1	0	0	0	0	2	0
Rescue & EMS incidents	1,244	90	55	83	81	77	121	200	181	113	83	70	90
Hazardous conditions (no fire)	251	18	13	11	16	18	22	33	35	24	26	22	13
Service calls	174	11	16	9	15	20	16	20	18	13	11	15	10
Good intent calls	83	2	7	4	8	8	11	15	7	4	6	5	6
False alarm & false calls	911	66	73	54	61	70	91	120	81	98	73	78	46
Severe weather & natural disaster	1	0	1	0	0	0	0	0	0	0	0	0	0
Special incident type	6	0	1	1	0	1	1	0	0	0	1	0	1
Total	2,716	189	174	165	186	198	266	392	326	256	201	194	171

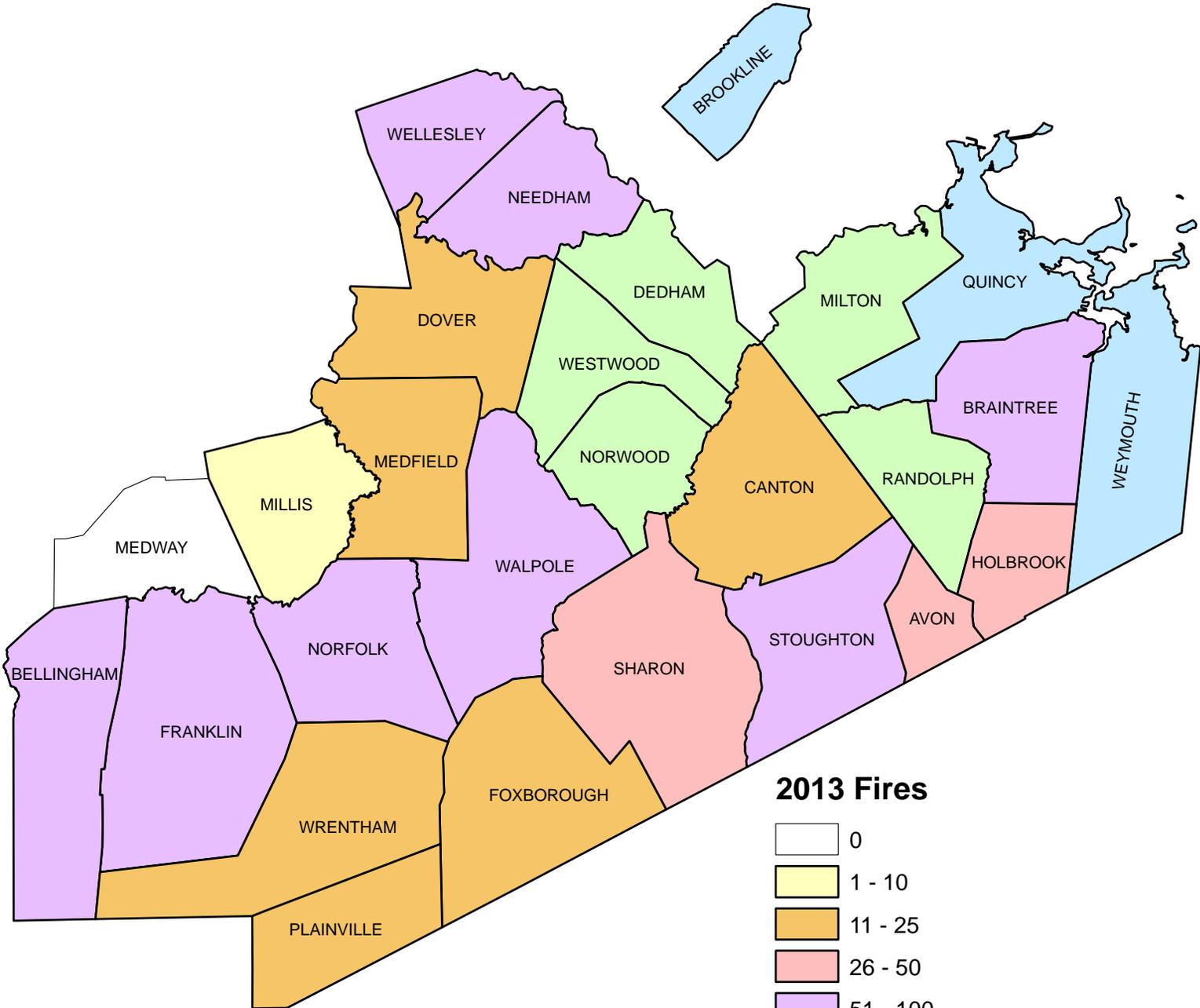
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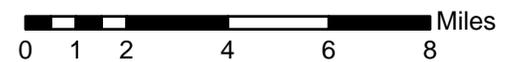
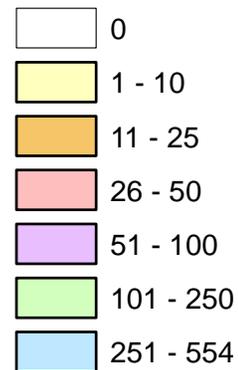
Norfolk County

2013 Fire Data Analysis

Norfolk County Fires 2013



2013 Fires



MFIRS
Massachusetts Fire Incident Reporting System

Norfolk County Fires in 2013

2,883 Total Fires — 1,799 Structures, 238 Vehicles & 846 Other Fires

Norfolk County ranked fifth out of the fourteen Massachusetts counties in total reported fires. Norfolk County fire departments reported 2,883 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 1,799 structure fires, 238 motor vehicle fires, 460 brush, tree or lawn fires, 202 outside rubbish fires, 82 special outside fires, 15 cultivated vegetation or crop fires, and 8 other fires caused one civilian death, 13 civilian injuries, 41 fire service injuries and an estimated dollar loss of \$15.6 million. Norfolk County's fires accounted for 10% of the 29,828 Massachusetts fires reported in 2013.

All 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 2013.

Structure & Outside Fires Down

The total number of reported fire incidents decreased by 413 from the 3,296 reported in 2012. Reported structure fires decreased 102 from the 1,901 reported during the previous year. Motor vehicle fires increased by 12 from the 226 reported the year before. Reported outside and other fires decreased by 323 from the 1,169 reported a year earlier.

NORFOLK COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	2,786	1,850	275	661	59	9	5	45
2010	3,423	2,023	284	1,116	81	16	4	61
2011	3,068	1,999	289	780	65	7	3	55
2012	3,296	1,901	226	1,169	96	10	10	76
2013	2,883	1,799	238	846	59	6	4	49

Fire and Fire Death Rates

Norfolk County had 4.3 fires per 1,000 population. That figure ranks Norfolk County fourth in the state and above the state rate of 4.6 fires per 1,000 population. Norfolk County also had 0.01 fire deaths per 10,000 population ranking it tenth among Massachusetts counties and below the state rate of 0.07 fire deaths per 10,000 population.

1 Norfolk Fire Kills 1 Person

In 2013, one outside fire killed one Norfolk County resident.

- On October 29, 2013, at 4:58 p.m., the Weymouth Fire Department was called to a fatal outside fire in a backyard. The victim, a 58-year old man, was burning in his fire pit. It is believed that his clothing ignited when he was too close to the fire pit. His body was discovered after the fire was extinguished.

Quincy Has Norfolk County's Largest Loss Fire in 2013

There were two fires in Norfolk County that caused over \$1 million in estimated damages. These two fires accounted for \$4 million in estimated damages and 26% of the total dollar loss for the county.

- The Quincy Fire Department was dispatched to a fire at the Quincy Masonic Temple at 12:310 p.m. on September 30, 2013. The fire started in the basement when a worker ignited some insulation with a cutting torch. Five (5) firefighters were injured at this fire. It was undetermined if detectors were present. There were no sprinklers in the building. Damages from this fire were estimated to be \$2.3 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 1,799 structure fires caused 11 civilian injuries, 41 fire service injuries and an estimated dollar loss of \$15.6 million. These incidents represented 62% of Norfolk County's reported fires in 2013. The average estimated dollar loss per structure fire was \$7,679. The total number of reported structure fires decreased by 102, or 5%, from the 1,901 reported in 2012.

Arson Caused <1% of Structure Fires

The six structure arsons caused an estimated dollar loss of \$409,300. Arson was indicated as the cause of less than 1% of the structure fires and 3% of Norfolk County's structure fire dollar loss. The six structure arsons accounted for 10% of the Norfolk County arson fires reported in 2013. The total number of reported structure arsons decreased by four, or 40%, from seven in 2012.

5 of 6 Structure Arsons Occur in Residential Properties

Eighty-three percent (83%), of Norfolk County's six structure arsons occurred in residential occupancies; and 17% occurred in storage facilities.

BUILDING FIRES

There were 1,790 building fires of different types in Norfolk County in 2013. These 1,790 building fires accounted for 99.5% of all structure fires in Norfolk County.

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

One thousand five hundred and thirty-nine (1,539), or 86%, of Norfolk County's 1,790 building fires occurred in residential occupancies. Sixty-seven (62) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 66 fires. Hospitals, prisons, and other institutional buildings experienced 53 fires. Twenty-five (25) building fires took place on educational properties. Twenty (20) fires took place in storage properties. Eight (8) building fires in Norfolk County occurred in special properties such as outbuildings, bus stop shelters and telephone booths. Six (6) fires took place in manufacturing and processing facilities and four fires

occurred in industrial facilities. Two (2) fires occurred in unclassified buildings in Norfolk County in 2013.

RESIDENTIAL FIRES

Apartments Accounted for Over 1/2 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 53% of the residential building fires in Norfolk County; 40% occurred in 1- or 2-family homes; 3% happened in rooming houses; 2% occurred in residential board and care facilities; 1% happened in hotels or motels; and 1% occurred in dormitories. Twenty-eight (28), or 2%, of the residential building fires in Norfolk County occurred in unclassified residential buildings.

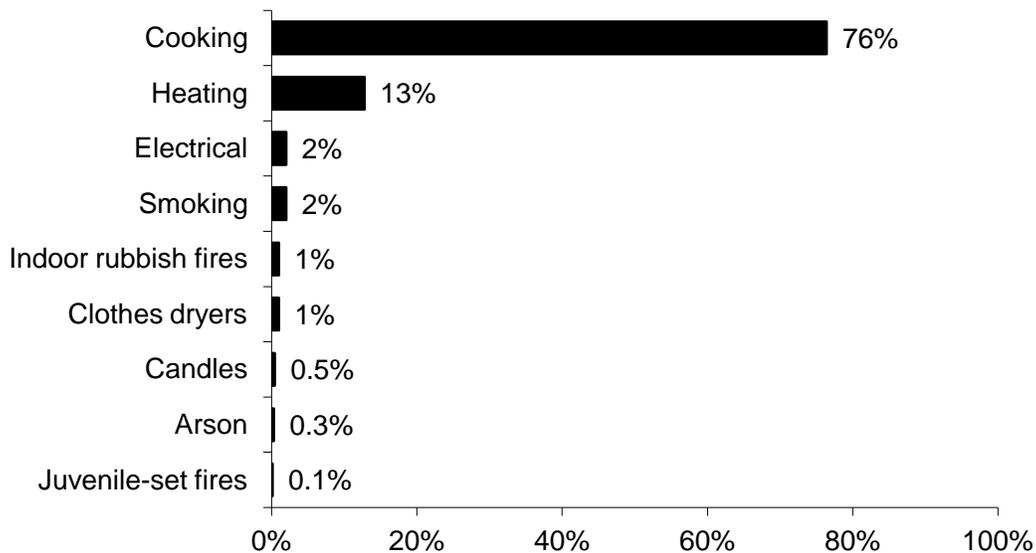
Residential Building Fires Are Down

There were 1,539 reported residential building fires in Norfolk County in 2013. These 1,539 fires are a decrease of 84, or 5%, from the 1,621 residential building fires reported in 2012.

Cooking Caused Over 3/4 of Residential Fires

The leading cause of residential building fires in Norfolk County was unattended cooking and other unsafe cooking practices, accounting for 76% of the fires. Heating caused 13% of fires in people’s homes. Smoking and electrical problems each caused 2% of these fires. Indoor rubbish fires and clothes dryers each caused 1% of these fires. Candles, arson and juvenile-set fires each caused less than 1% of the residential building fires in Norfolk County in 2013.

2013 Leading Causes of Fires in Norfolk County Homes



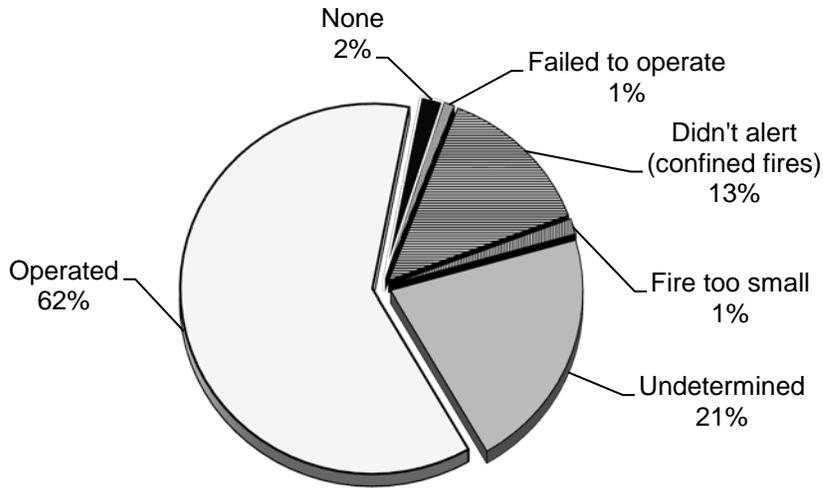
86% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One thousand three hundred and twenty-nine (1,329), or 86%, of all residential building fires were reported as confined to non-combustible containers in 2013. One thousand one hundred and forty-three (1,143) of the reported fires were cooking fires contained to a non-combustible container, accounting for 74% of residential building fires. One hundred and seven (107), or 7%, were fires confined to a fuel burner or boiler malfunction. Fifty-six (56), or 4%, of all residential building fires reported in 2013 were fires confined to a chimney. Twenty-one (21), or 2% of Norfolk County’s residential fires in 2013 were contained rubbish fires. An incinerator overload and a commercial compactor fire each accounted for one, or less than 1%, of Norfolk County’s residential fires.

Detectors Alerted Occupants in 62% of Fires

Smoke or heat detectors operated and alerted the occupants in 945, or 62%, of the residential building fires. In 13% of these fires², 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 1% of the residential fires. Smoke detector performance was undetermined in 324 incidents, or 21%, of Norfolk County’s residential building fires.

Detector Status in Norfolk County's Residential Structure Fires 2013



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.

3 Detectors Failed from Power Shutoffs or Disconnects

Of the 14 fires where smoke detectors were present but failed to operate, three, or 21%, failed because the power was shut-off or disconnected. Improper installation and a dead battery were each responsible for one incident of a detector that failed to operate, or 7%. It was undetermined or unclassified in nine cases, or 64%, why the detectors failed to operate.

VACANT BUILDINGS

1% of Building Fires Occurred in Vacant Buildings

Norfolk County reported 22 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 1,790 building fires reported to MFIRS in 2013. Fifteen (15) fires occurred in vacant residential properties. Four (4) fires occurred at vacant storage facilities. Vacant mercantile or business properties had two fires. And an 'Other' property reported one vacant building fire.

One (1), or 5%, of the vacant building fires in Norfolk County in 2013 were determined to be intentionally set. The one vacant building arson occurred in a single-family home.

JUVENILE-SET FIRES

14 Juvenile-set Fires

There were 14 reported juvenile-set fires in Norfolk County in 2013. The two structure fires, 10 brush fires, one special outside fire, and one outdoor rubbish fire.

ARSONS

59 Total Arsons - 6 Structures, 4 Vehicles & 49 Other Arsons

Fifty-nine (59), or 2%, of Norfolk County's 2,883 fires were intentionally set, or, for purposes of this analysis, arson. The six structure arsons, four motor vehicle arsons and 49 outside and other arsons caused an estimated loss of \$421,354.

All Arsons Down

The total number of reported arson fires decreased by 37 from the 96 reported in 2012. Reported structure arsons decreased by four from the 10 reported the previous year. Motor vehicle arsons decreased by six from the 10 reported in 2012. Reported outside and other arsons decreased by 27 from 76 the year before.

ALL INCIDENTS

Rescue & EMS Calls Are 58% of All Reported Incidents

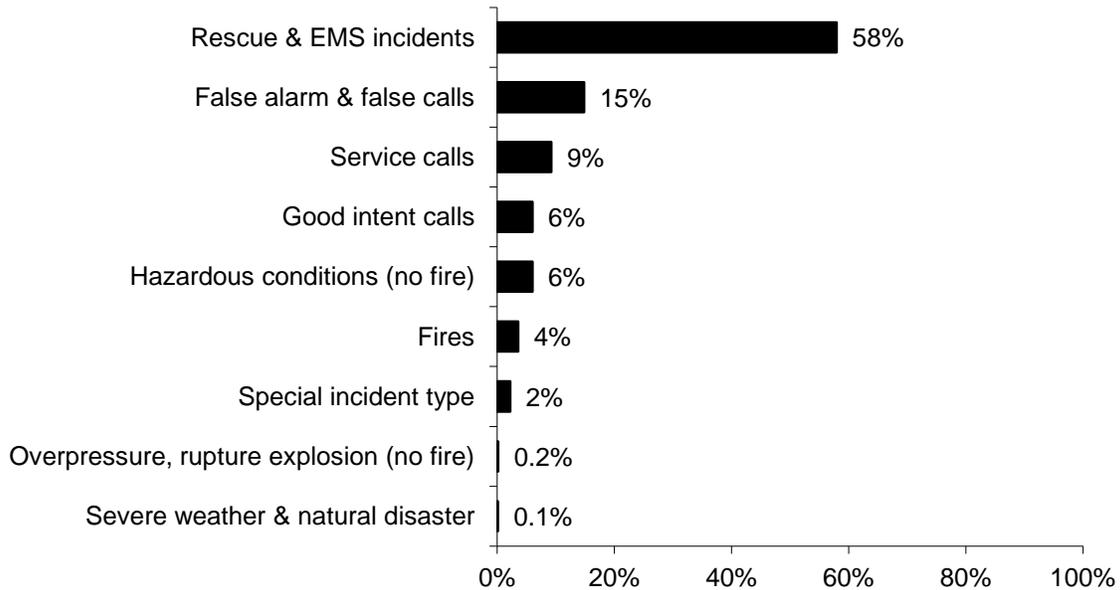
In 2013, fire departments in Norfolk County reported 85,284 responses³ to MFIRS. Of these 85,284 incidents, 82,242 non-fire calls were voluntarily reported.

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

Of these 82,242 non-fire incidents, 49,398, or 58%, of all the incidents reported in 2013 were reported rescue and emergency medical services (EMS) calls; 12,634, or 15%, were reported false alarm or false calls; 7,878, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,394, or 6%, were reported good intent calls; 4,857, or 6%, were reported hazardous condition calls with no fire; 1,857, 2%, were special incident type calls such as citizen complaints; 131, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 93, or 0.1%, were severe weather responses.

Three thousand and forty-two (3,042), or 4%, of the total responses submitted by Norfolk County fire departments were fires.

2013 Responses by Incident Type



Norfolk County Fire Departments Gave Mutual Aid 2,949 Times

In 2013, Norfolk County fire departments reported coming to the aid of other fire departments 2,949 times. Of these 2,949 responses, 1,714, or 58%, were for rescue or EMS calls; 482, or 16%, were for good intent calls; 405, or 14%, were for service calls such as cover assignments; 156, or 5%, were for fires; 137, or 5%, were for false alarms or false calls; 31, or 1%, were for hazardous conditions calls with no fire; 23, or 1%, were special incident types; and one, or 0.03% was an overpressure, rupture explosion with no fire.

Norfolk County Received Mutual Aid in 1,901 Incidents

In 2013, Norfolk County fire departments reported receiving aid from surrounding departments in 1,901 incidents. Of these 1,901 incidents, 1,453, or 76%, were rescue and

emergency medical services calls; 184, or 10%, were false alarms or false calls; 153, or 8%, were for fires; 43, or 2%, were good intent calls; 34 or 2%, were service calls; 30, or 2%, were hazardous conditions calls with no fire; three, or 0.2% were severe weather calls; and one, or 0.1%, was a special incident type.

Norfolk County

Population: 670,850

4.3 Fires/1,000 Population

Total Fires: 2,883 \$15,564,682

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	1,799	62%	\$13,813,830
Vehicle Fires	238	8%	1,392,176
Other Fires	846	29%	358,676

1 Fatal Fire 0.35 Civilian Deaths/1,000 Fires
 1 Civilian Death 0.01 Civilian Deaths/10,000 Population
 13 Civilian Injuries 41 Fire Service Injuries

Building Fires: 1,790

Residential Structure Fires: 1,539

Residential Structure Fires Confined to Non-Combustible Containers: 1,329

Unconfined Residential Structure Fires: 210

11 Civilian Injuries 19 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	808	53%	Operated	945	62%
1- & 2-Family homes	609	45%	Didn't operate	14	1%
Rooming houses	43	3%	None	29	2%
Residential board & care	24	2%	Fire too small	21	1%
Hotels or motels	15	1%	Didn't alert (confined)	206	13%
Dormitories	12	1%	Undetermined	325	21%

Area of Origin⁴	%	Heat Source	%	%Unconfined⁵
Kitchen	77%	Radiated heat from oper. eq.	1%	10%
Heating equipment room	7%	Heat from operating equip.	1%	10%
Chimney or flue	4%	Hot or smoldering object	1%	10%
Ext. balcony, unenclosed porch	1%	Arcing	1%	9%
Bedroom	1%	Hot ember or ash	1%	7%
Wall surface, exterior	1%	Cigarette	1%	5%
Laundry room	1%			

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 Ignited⁶	%	Factor Contrib. to Ignit.	%	%Unconfined⁷
Food, cooking materials	75%	Too close to combustibles	1%	10%
Flammable/comb. liquid	7%	Abandoned materials	1%	10%
Film, residue (creosote)	4%	Equipment unattended	1%	5%
Rubbish, trash, waste	2%	Electrical failure, malfunc.	1%	5%
Structural member, framing	1%			

Equipment⁸	%	Cause of Ignition	%	%Unconfined⁹
Kitchen & cooking equipment	76%	Unintentional	8%	60%
None	8%	Failure of eq. or heat source	2%	12%
Boiler, furnace, cent. heat. unit	7%	Intentional	0.2%	1%
Chimney, flue	4%	Act of nature	0.1%	1%
Clothes dryer	1%	Cause under investigation	2%	17%
		Undetermined	1%	7%

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

Alerted occupants	64%
Didn't alert occupants	16%
Undetermined	21%

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	235	190	16	29
February	208	168	21	19
March	192	140	18	34
April	366	171	19	176
May	272	123	23	126
June	222	136	22	64
July	210	110	26	74
August	229	128	21	80
September	187	116	16	55
October	281	172	18	91
November	280	184	17	79
December	201	161	21	19

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	443	273	28	142
Monday	402	250	39	113
Tuesday	412	257	31	124
Wednesday	403	266	43	94
Thursday	404	238	33	133
Friday	363	225	27	111
Saturday	456	290	37	129

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	150	90	16	44
04:01 - 08:00	201	106	35	60
08:01 - 12:00	465	308	40	117
12:01 - 16:00	776	432	55	289
16:01 - 20:00	855	564	64	227
20:01 - 00:00	436	299	28	109

Motor Vehicle Fires

Total: 238

Automobiles: 198 (83%)

3, or (2%), of the automobile fires were considered intentionally set.

Arson Fires

Total Arsons: 59

Dollar loss: \$421,354

0.09 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	6	0.3%	10%	\$409,300
Vehicle Arsons	4	2%	7%	11,000
Other Arsons	49	6%	83%	1,054

0.01 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.07 Other arsons/1,000 population

0 Civilian Deaths

Peak Times of Day for

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	4	67%	20:01 - 00:00	2	50%
20:01 - 00:00	2	33%	00:01 - 04:00	1	25%
			16:01 - 20:00	1	25%

Other Arsons	#	%
16:01 - 20:00	19	39%
12:01 - 16:00	16	33%
20:01 - 00:00	8	16%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	3	50%
Residential, other	2	33%
Storage, other	1	17%

Avon					Population: 4,356			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	30	8	11	11	0	0	0	0
2010	32	8	13	11	4	0	1	3
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

Bellingham					Population: 16,332			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	50	25	6	19	2	0	0	2
2010	59	26	6	27	1	1	0	0
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

Braintree					Population: 35,744			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	81	15	16	50	5	0	0	5
2010	114	24	19	71	5	0	0	5
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

Brookline					Population: 58,732			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	430	387	11	32	1	0	1	0
2010	464	423	13	28	1	1	0	0
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

Canton	Population: 21,561							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	31	10	17	4	3	1	0	2
2010	36	17	13	6	2	1	1	0
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

Cohasset	Population: 7,542							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	16	0	11	1	0	0	1
2010	41	15	2	24	7	1	0	6
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

Dedham	Population: 24,729							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	34	19	7	8	0	0	0	0
2010	192	119	10	63	9	0	0	9
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

Dover	Population: 5,589							
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	7	4	1	2	0	0	0	0
2010	27	17	3	7	0	0	0	0
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

Foxborough					Population: 16,865			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	36	17	8	11	0	0	0	0
2010	35	14	6	15	4	0	1	3
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

Franklin					Population: 31,635			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	51	15	8	28	1	0	0	1
2010	74	24	8	42	1	0	0	1
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

Holbrook					Population: 10,791			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	36	18	7	11	2	0	2	0
2010	55	21	0	34	4	0	0	4
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

Medfield					Population: 12,024			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	9	3	7	6	1	0	5
2010	26	15	1	10	3	1	0	2
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

Medway					Population: 12,752			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	50	41	3	6	0	0	0	0
2010	44	28	4	12	1	1	0	0
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							

Millis					Population: 7,891			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	1	1	0	0	0	0	0	0
2013	2	1	1	0	0	0	0	0

Milton					Population: 27,003			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	160	111	17	32	8	0	0	8
2010	175	102	17	56	6	1	0	5
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

Needham					Population: 28,886			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	49	25	7	17	4	0	0	4
2010	84	34	13	37	0	0	0	0
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

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
2009	62	50	1	11	0	0	0	0
2010	66	47	2	17	2	0	0	2
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

Norwood					Population: 28,602			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	75	33	9	33	1	1	0	0
2010	118	43	14	61	0	0	0	0
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

Plainville					Population: 8,264			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	29	9	8	12	1	0	0	1
2010	30	11	7	12	3	1	0	2
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

Quincy					Population: 92,271			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	531	308	44	179	7	0	1	6
2010	574	268	38	268	4	0	0	4
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

Randolph					Population: 32,112			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	187	136	22	29	1	0	0	1
2010	218	143	24	51	1	0	1	0
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

Sharon					Population: 17,612			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	38	23	12	3	0	0	0	0
2010	53	27	8	18	2	0	0	2
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

Stoughton					Population: 26,962			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	266	246	11	9	0	0	0	0
2010	266	238	11	17	1	0	0	1
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

Walpole					Population: 24,070			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	86	58	8	20	2	2	0	0
2010	114	77	6	31	1	0	0	1
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

Wellesley					Population: 27,982			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	77	48	6	23	2	1	0	1
2010	48	16	10	23	0	0	0	0
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

Westwood					Population: 14,618			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	81	64	8	9	0	0	0	0
2010	121	81	11	29	1	0	0	1
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

Weymouth					Population: 53,743			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	220	137	21	62	8	3	1	4
2010	308	173	21	114	11	6	0	5
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

Wrentham					Population: 10,955			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	39	15	3	21	4	0	0	4
2010	46	9	4	33	6	0	0	6
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

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	1,266	34	4	809	38	165	89	124	2	1
21025	Bellingham	1,944	63	0	1,347	65	206	102	153	5	3
21040	Braintree	5,234	90	58	2,584	289	794	536	861	5	17
21046	Brookline	7,319	481	10	4,161	380	549	317	1,417	0	4
21050	Canton	21	16	1	0	3	0	0	1	0	0
21065	Cohasset	2,419	54	4	1,022	232	698	119	245	17	28
21073	Dedham	4,441	182	6	2,951	288	171	194	640	2	7
21078	Dover	187	16	0	14	18	4	11	121	3	0
21099	Foxborough	385	22	1	57	66	39	36	163	0	1
21101	Franklin	3,405	87	3	2,403	100	150	203	445	2	12
21133	Holbrook	1,889	40	3	989	79	358	260	158	0	2
21175	Medfield	948	22	2	492	86	168	24	148	2	4
21177	Medway	95	0	1	65	8	8	3	10	0	0
21187	Millis	3	3	0	0	0	0	0	0	0	0
21189	Milton	3,813	150	6	1,924	187	308	104	552	4	578

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	3,531	57	3	1,829	193	586	194	667	0	2
21208	Norfolk	1,491	84	0	860	232	29	17	269	0	0
21220	Norwood	5,431	122	3	3,892	263	325	168	635	10	13
21238	Plainville	2,627	21	0	972	57	149	124	214	7	1,083
21243	Quincy	8,579	554	12	4,879	572	732	370	1,438	6	16
21244	Randolph	4,511	178	0	3,027	251	375	199	479	0	2
21266	Sharon	2,126	40	2	1,295	140	167	203	267	9	3
21285	Stoughton	5,291	108	3	3,190	132	434	584	786	0	54
21307	Walpole	2,885	90	3	1,965	145	161	170	340	7	4
21317	Wellesley	4,000	57	3	1,834	290	364	245	1,202	3	2
21335	Westwood	2,704	132	2	1,566	127	267	237	369	2	2
21336	Weymouth	6,879	318	1	3,997	495	445	818	782	5	18
21350	Wrentham	1,860	21	0	1,274	121	226	67	148	2	1
	Norfolk County	85,284	3,042	131	49,398	4,857	7,878	5,394	12,634	93	1,857

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

2013 Fire Data Analysis

Plymouth County Fires in 2013

1,891 Total Fires — 823 Structures, 230 Vehicles & 838 Other Fires

Plymouth County ranked eighth out of the fourteen Massachusetts counties in total reported fires. Plymouth County fire departments reported 1,891 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 823 structure fires, 230 motor vehicle fires, 493 brush, tree or lawn fires, 164 outside rubbish fires, 107 special outside fires, two cultivated vegetation or crop fires and 72 other fires caused two civilian deaths, 36 civilian injuries, 32 fire service injuries and an estimated dollar loss of \$17.8 million. Plymouth County's fires accounted for 6% of the 29,828 Massachusetts fires reported in 2013.

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 2013.

Outside Fires Down

The total number of reported fire incidents decreased by 182, or 9%, from the 2,073 reported in 2012. Reported structure fires decreased by seven from 830 the year before. Motor vehicle fires increased by 17 from 213 the previous year. Reported outside and other fires decreased by 192 from 1,030 in 2012.

PLYMOUTH COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1,486	727	257	502	75	25	23	30
2010	1,916	818	219	879	95	19	12	64
2011	1,800	808	271	721	98	19	13	66
2012	2,073	830	213	1,030	134	40	10	84
2013	1,891	823	230	838	73	12	8	53

Fire and Fire Death Rates

Plymouth County had 3.8 fires per 1,000 population. That figure ranks Plymouth County eighth in the state and below the state rate of 4.6 fires per 1,000 population. Plymouth County also had 0.04 fire deaths per 10,000 population ranking it eighth among Massachusetts counties and below the state rate of 0.07 fire deaths per 10,000 population.

2 Plymouth County Fatal Fires Killed 2 Civilians in 2013

Two (2) people died in two fatal fires in Plymouth County in 2013.

- On October 15, 2013, at 11:35 a.m., the Rockland Fire Department was called to a fatal cooking fire in a single-family home. The fire started when the open flame from the gas stove ignited the 71-year old female victim's clothes. No one else was injured at this fire. Smoke detectors were present operated. The building was not sprinklered. Damages from this fire were estimated to be \$5,000.
- On November 29, 2013, at 3:58 a.m., the Plymouth Fire Department was called to a fatal candle fire in an 85-unit apartment building. The candle ignited the plastic

appliance housing it was situated upon. The victim, a 79-year old woman, was asleep at the time of the fire and overcome by the smoke generated by the fire. No one else was injured at this fire. Detectors were present and alerted the other occupants. The building was not sprinklered. Damages from the blaze were estimated to be \$950,000.

Plymouth Has Plymouth County's Largest Loss Fire in 2013

- On July 7, 2013, at 8:23 a.m., the Plymouth Fire Department responded to a smoking fire in 12-unit apartment building. A cigarette started the fire on an exterior balcony. One (1) civilian and three firefighters were injured by this fire. Detectors were present and operated. The building had a partial sprinkler system but the fire was in an area not protected by the system. Total damages were estimated to be \$1.75 million.

STRUCTURE FIRES

Reported Structure Fires Down Slightly

The 823 structure fires caused two civilian deaths, 30 civilian injuries, 28 fire service injuries and an estimated dollar loss of \$15.9 million. These incidents represented 44% of Plymouth County's reported fires in 2013. The average estimated dollar loss per structure fire was \$19,280. The total number of reported structure fires decreased by seven, or 1%, from the 830 reported in 2012.

Arson Caused 1% of Structure Fires

The 12 structure arsons caused two fire service injuries and an estimated dollar loss of \$321,001. Arson was indicated as the cause of 1% of the structure fires and 2% of Plymouth County's structure fire dollar loss. The 12 structure arsons accounted for 16% of the Plymouth County arson fires reported in 2013. The total number of reported structure arsons decreased by 28, or 70%, from 40 in 2012.

58% of Structure Arsons Occurred in Residences

Fifty-eight percent (58%) of Plymouth County's 12 structure arsons occurred in residential occupancies; 17% happened in mercantile or business properties; 8% happened in public assembly properties; and 8% occurred in industrial facilities.

BUILDING FIRES

There were 816 building fires of different types in Plymouth County in 2013. These 816 building fires accounted for 99.1% of all structure fires in Plymouth County.

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

Seven hundred and four (704), or 86%, of Plymouth County's 816 building fires occurred in residential occupancies. Mercantile and business properties had 36 fires. Twenty (20) fires took place in storage facilities. Eighteen (18) fires took place in public assembly properties, including restaurants and churches. Fourteen (18) building fires took place in educational facilities. Hospitals, prisons, and other institutional buildings experienced 12 fires. Four (4) building fires in Plymouth County occurred in special properties such as outbuildings and sheds. Four (4) fires took place in manufacturing and processing

facilities. Three (3) fires occurred in industrial, utility, defense, agricultural or mining facilities in Plymouth County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Up Slightly

There were 704 reported residential building fires in Plymouth County in 2013. These 704 fires are an increase of 23, or 3%, from the 681 residential building fires reported in 2012.

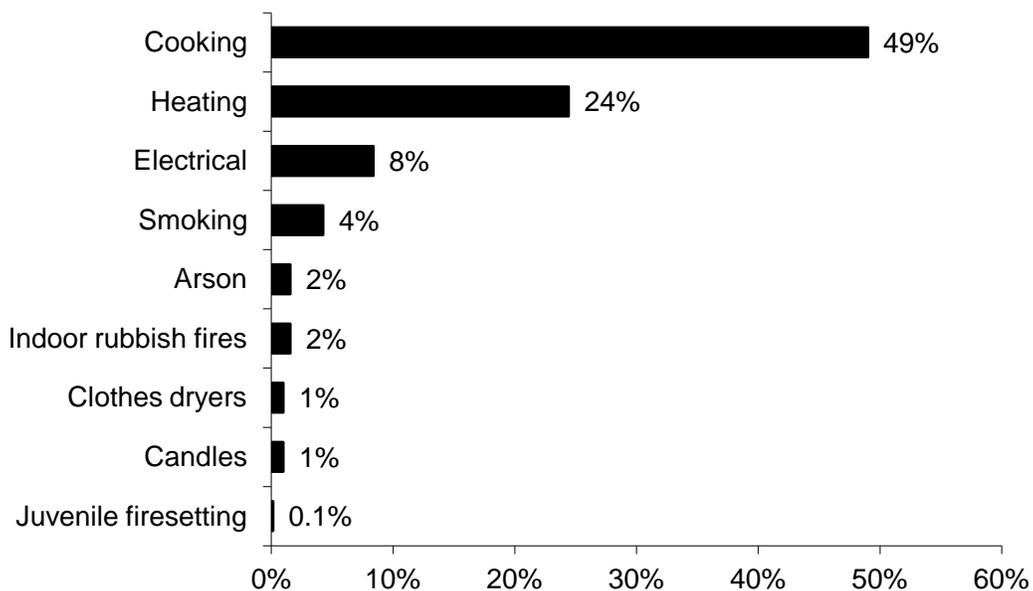
1- & 2-Family Homes Accounted for 63% of Residential Building Fires

The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 63% of the residential building fires in Plymouth County; 32% occurred in apartments. Rooming houses had 2% of these fires. Residential board and care facilities, dormitories, and hotels or motels each had 1% of these fires. Eleven (11), 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 704 residential building fires in Plymouth County was unattended cooking and other unsafe cooking practices, accounting for 49% of these fires. Heating problems caused 24% of the fires in people’s homes. Electrical problems caused 8% and smoking caused 4% of these fires. Arsons and indoor rubbish fires were each responsible for 2% and clothes dryers and candles each caused 1% of these fires. Juvenile-set fires caused less than 1% of residential fires in Plymouth County in 2013.

2013 Leading Causes of Fires in Plymouth County Homes



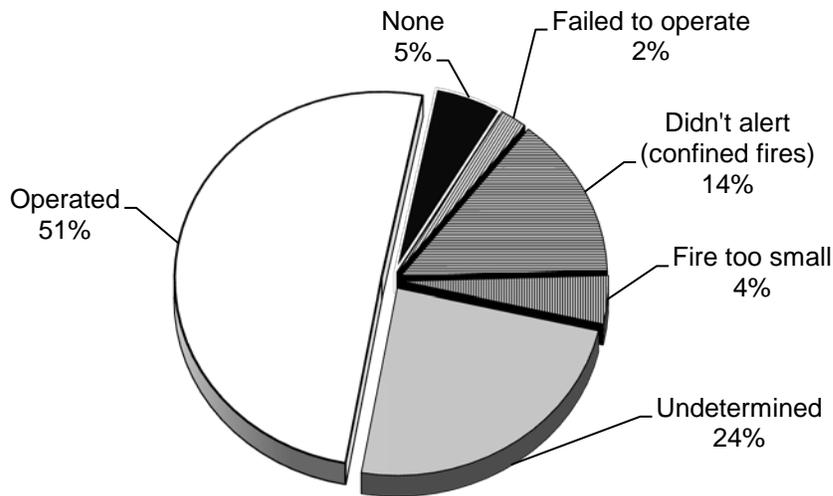
63% of Residential Building Fires Are Confined to Non-Combustible Containers¹

Four hundred and forty-three (443), or 63% of all residential building fires, were reported as confined to non-combustible containers in 2013. Two hundred and ninety-nine (299) of the reported fires were cooking fires contained to a non-combustible container accounting for 40% of residential building fires. Sixty-eight (68), or 10%, of all residential building fires reported in 2013 were fires confined to a chimney. Sixty-three (63), or 9%, were fires confined to a fuel burner or boiler malfunction. Ten (10), or 1%, of these fires were contained rubbish fires; two, or 0.3%, were incinerator overloads or malfunctions; and one, or 0.1%, was a commercial compactor fire.

Detectors Alerted Occupants in 51% of Fires

Smoke or heat detectors operated and alerted the occupants in 355, or 51%, of the residential building fires. In 14% of these fires², the detectors 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 170 incidents, or 24%, of Plymouth County’s residential building fires.

Detector Status in Plymouth County's Residential Structure Fires 2013



47% of Failed Detectors Had Missing or Dead Batteries

Of the 15 fires where smoke detectors were present but failed to operate, four, or 27%, failed because the batteries were either missing or disconnected. Three (3), or 20%, 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.

because their batteries were dead. One (1), or 7%, was defective. One (1) detector, or 6%, failed from a lack of maintenance. It was undetermined or unclassified in five cases, or 40%, why the detectors failed to operate.

VACANT BUILDINGS

3% of Building Fires Occurred in Vacant Buildings

Plymouth County reported 25 fires that occurred in buildings that were vacant, under construction or demolition³. This represented 3% of the total 816 building fires reported to MFIRS in 2013. Fourteen (14) fires occurred in vacant residential properties. Public assembly properties had four vacant building fires. Three (3) vacant building fires occurred in storage facilities. Three (3) of these fires happened in mercantile and business properties, and one occurred in an industrial facility in Plymouth County in 2013.

Five (5), or 20%, of the vacant building fires in Plymouth County in 2013 were determined to be intentionally set. Two (2) occurred in one- or two-family homes; and one each in a church, mosque or temple, an unclassified business and an unclassified industrial facility.

JUVENILE-SET FIRES

24 Juvenile-set Fires

There were 24 reported juvenile-set fires in Plymouth County in 2013. The two structure fires, 16 brush fires, and six special outside fires caused \$329,100 in estimated damages.

ARSONS

73 Total Arsons — 12 Structures, 8 Vehicles & 53 Other Arsons

Seventy-three (73), or 4%, of Plymouth County's 1,891 fires were considered intentionally set, or, for purposes of this analysis, arson. The 12 structure arsons, eight motor vehicle arsons and 53 outside and other arsons caused three fire service injuries and an estimated dollar loss of \$376,751.

All Arsons Down

The total number of reported arson fires decreased by 61 from the 134 reported in 2012. Reported structure arsons decreased by 28 from the 70 reported in 2012. Motor vehicle arsons decreased by two from 10 in 2012. Reported outside and other arsons decreased by 31 from 84 reported the year before.

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.

ALL INCIDENTS

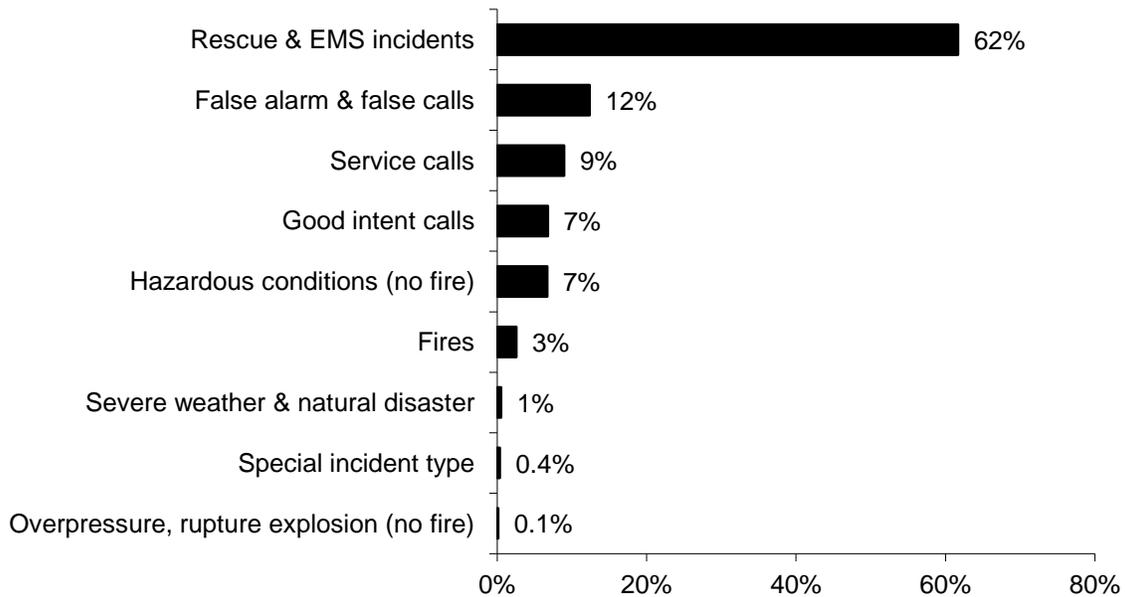
Rescue & EMS Calls Are 62% of All Reported Responses

In 2013, Plymouth County fire departments reported 78,873 responses⁴ to MFIRS. Of these 78,873 incidents, 76,851 non-fire calls were voluntarily reported.

Of these 76,851 non-fire calls, 48,638, or 62%, of the total responses reported in 2013, were reported rescue and emergency medical services (EMS) calls; 9,744 or 12%, were reported false alarm or false calls; 7,061, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,354, or 7%, were reported good intent calls; 5,276, or 7%, were reported hazardous condition calls with no fire; 403, or 1%, were severe weather responses; 281, or 0.4%, were special incident type calls such as citizen complaints; and 94, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Two thousand and twenty-two (2,022), or 3%, of the total responses submitted by Plymouth County fire departments were fires.

2013 Responses by Incident Type



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 2,537 Times

In 2013, Plymouth County fire departments reported coming to the aid of other fire departments 2,537 times. Of these 2,537 responses, 1,681, or 66%, were for rescue or EMS calls; 420, or 17%, were for good intent calls; 258, or 10%, were for service calls such as cover assignments; 127, or 5%, were for fires; 24, or 1%, were for hazardous conditions calls with no fire; 22, or 1%, were for false alarms or false calls; two, or 0.1%, were for a special incident type calls; two, or 0.1%, were overpressure, rupture explosions with no fire; and one, or 0.04%, was for a severe weather call.

Plymouth County Received Mutual Aid in 2,210 Incidents

In 2013, Plymouth County fire departments received aid from surrounding departments in 2,210 incidents. Of these 2,210 incidents, 1,909, or 86%, were rescue and emergency medical services calls; 135, or 6%, were for fires; 46, or 2%, were good intent calls; 43, or 2%, were false alarms or false calls; 42, or 2%, were hazardous conditions calls with no fire; 28, or 1%, were service calls; four, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and three, or 0.1%, were severe weather calls.

Plymouth County

Population: 494,919

3.8 Fires/1,000 Population

Total Fires: 1,891 \$17,793,818

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	823	44%	\$15,867,708
Vehicle Fires	230	12%	1,601,900
Other Fires	838	44%	324,210

2 Fatal Fires 1.06 Civilian Deaths/1,000 Fires
 2 Civilian Deaths 0.04 Civilian Deaths/10,000 Population
 36 Civilian Injuries 32 Fire Service Injuries

Building Fires: 816

Residential Building Fires: 704

Residential Building Fires Confined to Non-Combustible Containers: 443

Unconfined Residential Building Fires: 261

2 Civilian Death 29 Civilian Injuries 26 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
1- & 2-Family homes	440	63%	Operated	355	51%
Apartments	223	32%	Didn't operate	15	2%
Rooming houses	11	2%	None	37	5%
Residential board & care	10	1%	Fire too small	29	4%
Dormitories	5	1%	Didn't Alert (confined)	98	14%
Hotels or motels	4	1%	Undetermined	170	24%

Area of Origin ⁵	%	Heat Source	%	%Unconfined ⁶
Kitchen	50%	Arcing	6%	16%
Heating room or area	10%	Heat from operating eq.	5%	14%
Chimney or flue	10%	Radiated, cond./heat op. eq.	4%	12%
Bedroom	5%	Hot ember or ash	4%	10%
Ext. balcony, unencl. porch	3%	Hot or smoldering object	3%	7%

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 Ignited⁷	%	Factor Contrib. to Ignit.	%	%Unconfined⁸
Food, cooking materials	45%	Abandoned materials	4%	10%
Film, residue (creosote)	10%	Too close to combustibles	3%	8%
Flammable or combust. liquid	9%	Electrical failure, malfunc.	3%	7%
Electrical wire, cable insulation	4%	Unspecified short circuit	1%	4%
Structural member, framing	4%			

Equipment⁹	%	Cause of Ignition	%	%Unconfined¹⁰
Cooking equipment	48%	Unintentional	21%	57%
None	19%	Failure of eq. or heat source	7%	20%
Chimney or flue	10%	Intentional	1%	2%
Boiler, furnace, cent. heat. unit	9%	Act of Nature	1%	3%
Electrical wiring, other	1%	Cause under investigation	5%	13%
		Undetermined	2%	4%

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

Alerted Occupants	54%
Didn't Alert Occupants	22%
Undetermined	24%

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	120	756	18	29
February	128	96	18	14
March	107	66	10	31
April	269	80	17	172
May	197	60	21	116
June	131	35	19	77
July	147	50	32	65
August	174	58	28	88
September	158	75	22	61
October	189	68	17	104
November	148	75	14	59
December	123	85	16	22

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	325	144	36	145
Monday	272	116	37	119
Tuesday	237	119	24	94
Wednesday	271	118	34	119
Thursday	256	105	32	119
Friday	230	102	30	98
Saturday	300	119	37	144

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 - 04:00	123	55	38	30
04:01 - 08:00	125	63	23	39
08:01 - 12:00	299	132	48	119
12:01 - 16:00	553	182	44	327
16:01 - 20:00	539	253	51	235
20:01 - 00:00	252	138	26	88

Motor Vehicle Fires

Total: 230

Automobiles: 186 (81%)

6, or (3%), of the automobile fires considered intentionally set.

Arson Fires

Total Arsons: 73

Dollar loss: \$376,751

0.15 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	12	1%	16%	\$321,001
Vehicle Arsons	8	3%	11%	53,500
Other Arsons	53	6%	73%	2,250

0.02 Structure arsons/1,000 population

0.02 Vehicle arsons/1,000 population

0.11 Other arsons/1,000 population

3 Fire Service Injuries

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
00:01 – 04:00	4	33%	00:01 – 04:00	4	50%
20:01 – 00:00	3	25%			
16:01 – 20:00	2	17%			

Other Arsons	#	%
16:01 – 20:00	19	36%
12:01 – 16:00	16	30%
08:01 – 12:00	9	17%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	6	50%
Mercantile, business, other	2	17%

Abington					Population: 15,985			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	61	34	9	18	0	0	0	0
2010	78	47	3	28	3	1	0	2
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

Bridgewater					Population: 26,563			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	67	24	13	30	8	2	2	4
2010	87	31	14	42	15	4	2	9
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

Brockton					Population: 93,810			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009 ¹¹	199	138	35	26	18	11	5	2
2010	375	181	41	153	25	8	3	14
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

Carver					Population: 11,509			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	10	6	4	0	0	0	0	0
2010	12	6	6	0	0	0	0	0
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

¹¹ In 2009, this does not include their July incidents. Because of computer problems the Brockton Fire Department was unable to submit them to MFIRS.

Duxbury					Population: 15,059			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	18	4	19	8	4	1	3
2010	45	23	5	17	4	2	1	1
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

East Bridgewater					Population: 13,794			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	51	34	5	12	1	1	0	0
2010	62	37	6	19	1	1	0	0
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

Halifax					Population: 7,518			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	20	9	4	7	1	0	1	0
2010	48	25	4	19	4	0	0	4
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

Hanover					Population: 13,879			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	47	25	7	15	0	0	0	0
2010	33	16	3	14	0	0	0	0
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

Hanson					Population: 10,209			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	14	2	5	1	0	0	1
2010	22	10	3	9	1	0	0	1
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

Hingham					Population: 22,157			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	69	33	8	28	2	0	1	1
2010	69	35	3	31	4	0	1	3
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

Hull					Population: 10,293			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	13	2	12	1	1	0	0
2010	31	20	3	8	0	0	0	0
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

Kingston					Population: 12,629			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	14	8	19	1	0	0	1
2010	52	21	5	26	5	0	0	5
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

Lakeville					Population: 10,602			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	39	7	4	28	5	1	1	3
2010	54	8	6	40	0	0	0	0
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

Marion					Population: 4,907			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	19	11	1	7	0	0	0	0
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

Marshfield					Population: 25,132			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	127	63	11	53	6	0	2	4
2010	128	40	8	80	5	0	0	5
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

Mattapoisett					Population: 6,045			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	14	9	2	3	0	0	0	0
2010	17	6	1	10	2	0	0	2
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

Middleborough					Population: 23,116			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	73	26	17	30	3	0	1	2
2010	105	20	26	59	0	0	0	0
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

Norwell					Population: 10,506			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	36	20	6	10	0	0	0	0
2010	37	10	5	22	0	0	0	0
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

Pembroke					Population: 17,837			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	13	9	3	1	2	2	0	0
2010	22	16	4	2	0	0	0	0
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

Plymouth					Population: 56,468			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	167	66	37	64	6	1	3	2
2010	205	73	25	107	5	1	0	4
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

Plympton					Population: 2,820			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	12	6	3	3	0	0	0	0
2010 ¹²	Non-Reporting Community							
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

Rochester					Population: 5,232			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	6	3	0	0	0	0	0
2010	2	2	0	0	0	0	0	0
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

Rockland					Population: 17,489			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	58	23	12	23	2	0	1	1
2010	53	28	2	23	1	1	0	0
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

Scituate					Population: 18,133			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	55	25	5	25	2	0	0	2
2010	96	41	4	51	5	0	0	5
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

¹² In 2010 Plympton had some fires, but because of problems with their computer system were unable to report them to MFIRS.

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
2009	36	19	6	11	2	0	1	1
2010	35	14	5	16	3	0	2	1
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

Wareham District**Est. Pop. Protected: 17,021**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	94	44	24	26	2	0	1	1
2010	136	52	22	62	5	0	1	4
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

West Bridgewater**Population: 6,916**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	34	6	16	12	2	0	2	0
2010	34	8	11	15	3	0	1	2
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

Whitman**Population: 14,489**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	42	20	3	19	3	0	0	3
2010	46	17	3	26	2	0	1	1
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

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	3,379	58	4	2,247	214	284	164	379	3	26
23042	Bridgewater	2,851	87	2	1,645	189	179	214	483	3	49
23044	Brockton	20,829	511	17	15,136	504	1,246	627	2,751	13	24
23052	Carver	16	16	0	0	0	0	0	0	0	0
23082	Duxbury	2,327	63	4	1,354	233	219	106	314	28	6
23083	East Bridgewater	2,411	64	2	1,731	211	109	74	206	11	3
23118	Halifax	1,381	29	1	875	96	143	71	126	38	2
23122	Hanover	2,903	64	1	1,608	328	368	221	267	41	5
23123	Hanson	1,393	38	2	801	154	195	45	132	18	8
23131	Hingham	3,981	79	5	2,245	314	354	376	537	66	5
23142	Hull	2,542	29	1	1,580	319	219	131	249	10	4
23145	Kingston	2,405	46	0	1,628	171	200	92	248	8	12
23146	Lakeville	263	10	0	147	21	27	7	24	24	3
23169	Marion	1,007	20	2	597	58	75	92	147	4	12
23171	Marshfield	4,191	118	4	2,602	340	542	99	451	22	13

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	549	21	1	25	143	103	14	188	47	7
23182	Middleborough	4,034	122	6	1,188	123	406	1,703	460	1	25
23219	Norwell	2,376	50	3	1,297	323	235	165	287	11	5
23993	Onset	2,038	56	0	926	158	647	86	159	2	4
23231	Pembroke	6	6	0	0	0	0	0	0	0	0
23239	Plymouth	7,014	238	10	4,229	367	476	523	1,148	17	6
23240	Plympton	148	15	2	119	1	1		6	1	3
23250	Rochester	5	5	0	0	0	0	0	0	0	0
23251	Rockland	2,831	45	6	2,087	149	139	55	318	6	26
23264	Scituate	3,231	78	7	1,971	352	314	159	341	6	3
23992	Wareham	2,509	97	10	1,154	385	268	261	311	6	17
23322	West Bridgewater	1,627	47	4	1,064	87	214	33	148	17	13
23338	Whitman	626	10	0	382	36	98	36	64	0	0
Total	Plymouth County	78,873	2,022	94	48,638	5,276	7,061	5,354	9,744	403	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.

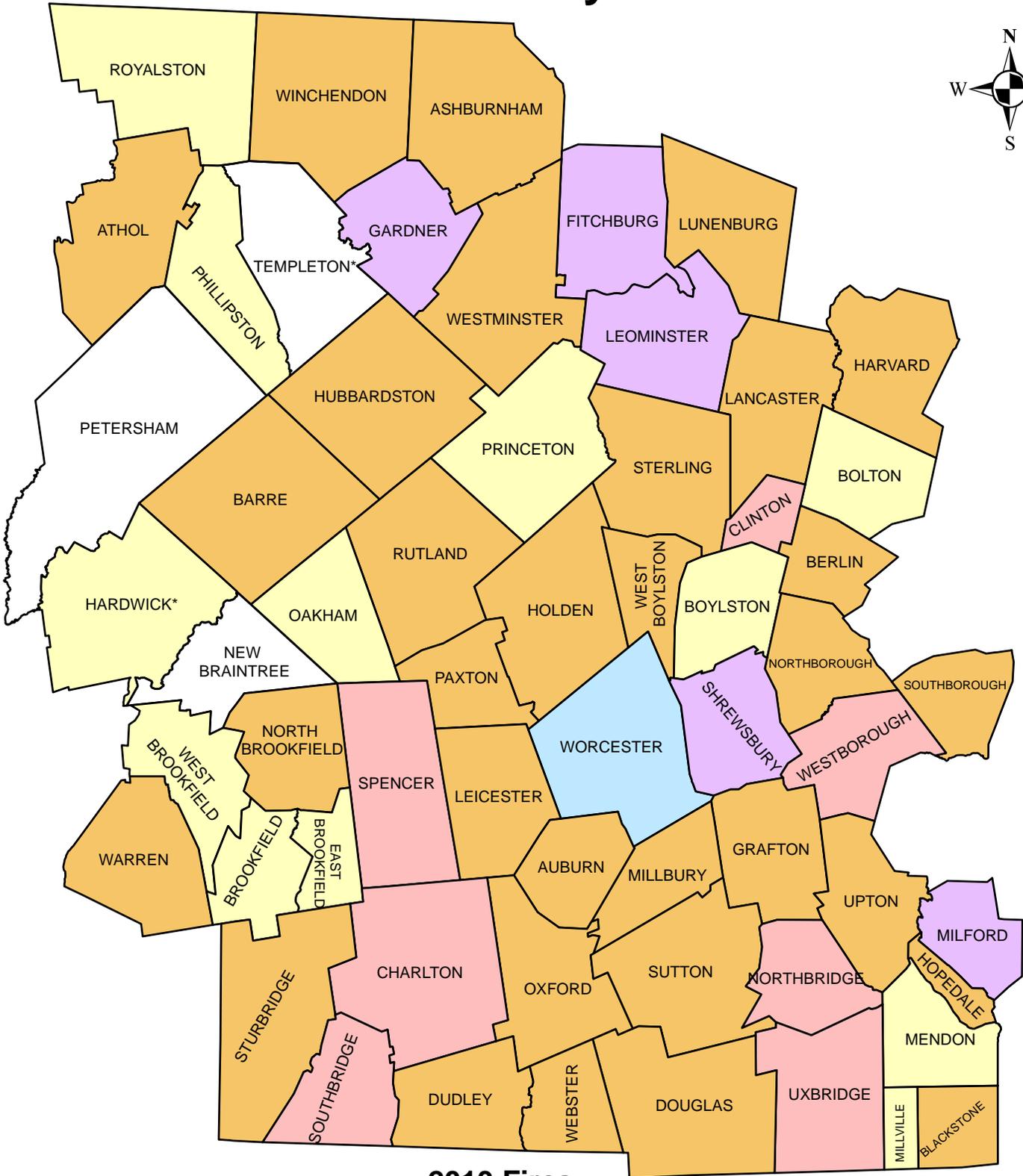
**Suffolk County Has
It's Own In-Depth
Analysis Report
Which Is
Published
Separately**



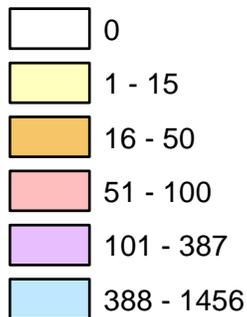
Worcester County

2013 Fire Data Analysis

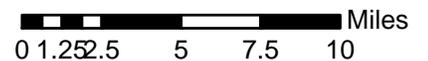
Worcester County Fires 2013



2013 Fires



*Non-reporting Department



MFIRS
Massachusetts Fire Incident Reporting System

Worcester County Fires in 2013

3,957 Total Fires — 2,126 Structures, 357 Vehicles & 1,474 Other Fires

Worcester County ranked third out of the fourteen Massachusetts counties in total reported fires. Worcester County fire departments reported 3,957 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The 2,126 structure fires, 357 motor vehicle fires, 683 brush fires, 599 outside rubbish fires, 97 special outside fires, three cultivated vegetation or crop fires and 92 unclassified fires caused seven civilian deaths, 38 civilian injuries, 67 fire service injuries and an estimated dollar loss of \$29.2 million. Worcester County's fires accounted for 13% of the 29,828 Massachusetts fires reported in 2013.

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 2013.

All Fires Down

Total fires decreased by 364, or 8%, from 4,321 incidents in 2012. Reported structure fires decreased by 76 from the 2,202 reported during the previous year. Motor vehicle fires decreased by 10 from 367 the year before. Outside and other fires decreased by 278 from 1,752 the year before.

WORCESTER COUNTY FIRES FROM 2009 TO 2013

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3,805	2,179	381	1,245	185	40	29	116
2010	4,329	2,277	400	1,652	170	37	11	122
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	3,957	2,126	357	1,474	139	29	11	99

Fire and Fire Death Rates

Worcester County had 5.0 fires per 1,000 population. That figure ranks Worcester County second in the state and above the state rate of 4.6 fires per 1,000 population. Worcester County also had 0.09 fire deaths per 10,000 population ranking it third among Massachusetts counties and above the state rate of 0.07 fire deaths per 10,000 population.

7 Residents Died in 7 Worcester County Fires

Worcester County had seven of its residents die in seven fires in 2013. Five (5) of the deaths occurred in building fires, one was in a motor vehicle fire and the other was in an outside fire.

- On January 4, 2013, at 6:57 p.m., the Winchendon Fire Department responded to a fatal heating fire at a single-family home. The fire began when the wood stove ignited an interior wall covering. The victim was a 70-year old man. No one else was injured

at this fire. Detectors were present and they operated. The building was not sprinklered. Damages from this fire were estimated to be \$146,300.

- On January 24, 2013, at 10:21 a.m., the Barre Fire Department was called to a fatal electrical fire in a two-family home. A kitchen light fixture was not properly wired in place which led to resistive heating over time that eventually ignited nearby combustible materials. The victim, an 89-year old woman was overcome by smoke inhalation as she attempted to escape the fire. No one else was injured at this fire. Detectors were not present. There were no sprinklers in the home. The fire caused an estimated \$195,000 worth of damage.
- On June 22, 2013, at 11:28 a.m., the Lunenburg Fire Department was dispatched to a motor vehicle fire at a local gravel pit. The driver and only occupant of the vehicle had poured gasoline inside his car and then ignited it. The victim was a 49-year old man. No one else was injured in this fire. Damages were not estimated.
- On August 23, 2013, at 7:20 a.m., the Gardner Fire Department was called to a fatal cooking fire in a six-unit apartment building. The fire started when the 86-year old male victim's clothes ignited when they came into contact with the electric stove while he was cooking. No one else was injured at this fire. Smoke detectors were present and they operated. The building was not sprinklered. Damages from this fire were estimated to be \$36.
- On October 28, 2013, at 12:12 a.m., the Webster Fire Department was called to a fatal cooking fire in an eight-unit apartment building. The hot plate near the victim's upholstered chair ignited the chair. The victim, a 60-year old man, was asleep in the chair. No one else was injured at this fire. Smoke detectors were present but it was undetermined if they operated. The building was not sprinklered. Damages from this fire were estimated to be \$45,000.
- On November 4, 2013, at 1:33 p.m., the Charlton Fire Department was called to a fatal outside fire in a backyard. The victim, a 91-year old man, was burning trash in a 55 gallon drum when he got too close to the fire and his clothing ignited. His body was discovered while firefighters extinguished the fire.
- On November 13, 2013, at 7:26 p.m., the Shrewsbury Fire Department was called to a fatal electrical fire at a single-family home. The fire was caused by arcing in an electrical extension cord. The victim, an 82-year old man was overcome by the smoke. No one else was injured at this fire. It was undetermined if there were detectors in the home. Sprinklers were not present. Damages were estimated to be \$288,300.

Largest Loss Fire in 2013

In 2013, Worcester County fire departments reported two fires with a reported dollar loss of \$1 million or greater. The combined dollar loss of these two fires totaled \$6 million, or 21%, of the county's total dollar loss.

- On October 26, 2013, at 6:54 p.m., the North Brookfield Fire Department was called to a fire at the Valley View School of undetermined cause. The fire began in a first floor closet. No one was injured at this fire. Detectors were present and alerted the occupants. Sprinklers were not present. Damages from this fire were estimated to be \$5 million.

STRUCTURE FIRES

Reported Structure Fires Down

The 2,126 structure fires caused five civilian deaths, 32 civilian injuries, 58 fire service injuries and an estimated dollar loss of \$24.7 million. These incidents represented 54% of Worcester County's reported fires in 2013. The average estimated dollar loss per structure fire was \$11,633. The total number of reported structure fires decreased by 76, or 3%, from the 2,202 reported in 2012.

Arson Caused 1% of Structure Fires

The 29 structure arsons caused one civilian injury, one fire service injury and an estimated dollar loss of \$674,123. Arson was indicated as the cause of 1% of the structure fires and 3% of Worcester County's structure fire dollar loss. The 29 structure arsons accounted for 21% of the Worcester County arson fires reported in 2013. The total number of reported structure arsons decreased by 23, or 44%, from the 52 reported in 2012.

62% of Structure Arsons Occurred in Residences

Sixty-two percent (62%) of Worcester County's 29 structure arsons occurred in residential occupancies; 7% each happened in public assembly facilities, mercantile and business properties, institutional facilities, and manufacturing or processing facilities; and 3% each happened in educational facilities, storage facilities and special properties.

BUILDING FIRES

There were 2,120 building fires of different types in Worcester County in 2013. These 2,120 building fires accounted for 99.7% of all structure fires in Worcester County.

83% of Worcester Building Fires Occurred in People's Homes

One thousand seven hundred and sixty-seven (1,767), or 83%, of Worcester County's 2,120 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 84 fires. Hospitals, prisons, and other institutional buildings experienced 49 fires. Forty-two (42) building fires took place in educational properties. Thirty-six (36) fires took place in storage properties. Thirty-one (31) fires took place in manufacturing and processing facilities. Sixteen (16) building fires in Worcester County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Six (6) fires occurred in industrial, utility, defense, agricultural or mining facilities, and two fires occurred in unclassified buildings in Worcester County in 2013.

RESIDENTIAL FIRES

Residential Building Fires Were Down

There were 1,767 reported residential building fires in Worcester County in 2013. These 1,767 fires are a decrease of 110, or 6%, from the 1,898 residential building fires reported in 2012.

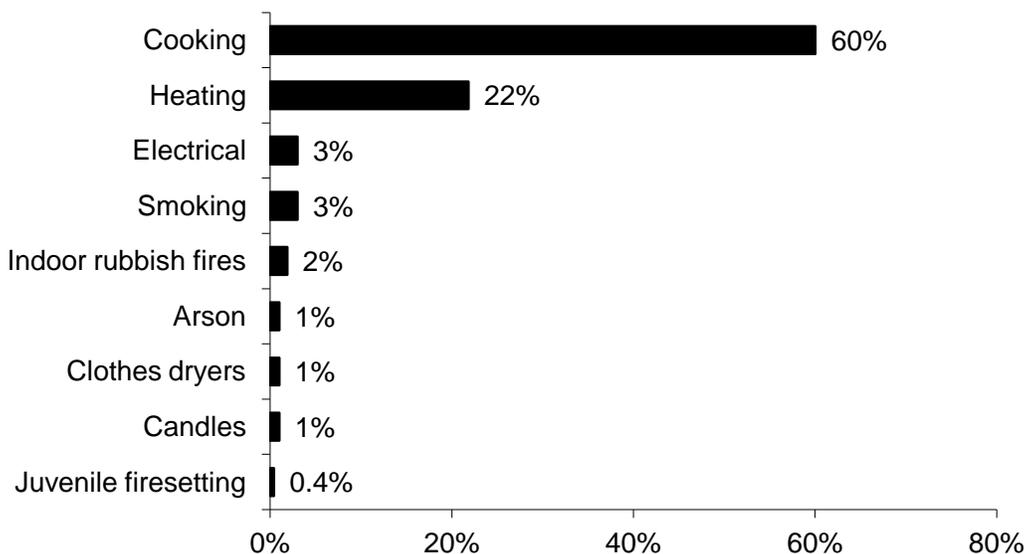
Apartments Accounted for 44% of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 44% of the residential building fires in Worcester County; 43% occurred in one- or two-family homes; 6% happened in rooming houses; 4% occurred in dormitories; 2% occurred in residential board and care facilities; and less than 1% happened in hotels or motels. Fifteen (15), or 1%, of the residential building fires in Worcester County occurred in unclassified residential buildings.

Unattended Cooking Caused 60% of Residential Fires

The leading cause of residential building fires in Worcester County was unattended cooking and other unsafe cooking practices, accounting for 60% of these fires. Heating caused 22% of fires in people’s homes. Electrical problems accounted for 3% of these fires. Smoking also caused 3%. Indoor rubbish fires caused 2%. Arson, clothes dryers, and candles each caused 1% of the fires in people’s homes in Worcester County in 2013. Juvenile-set fires caused less than 1% of these fires in 2013.

2013 Leading Causes of Fires in Worcester County Homes



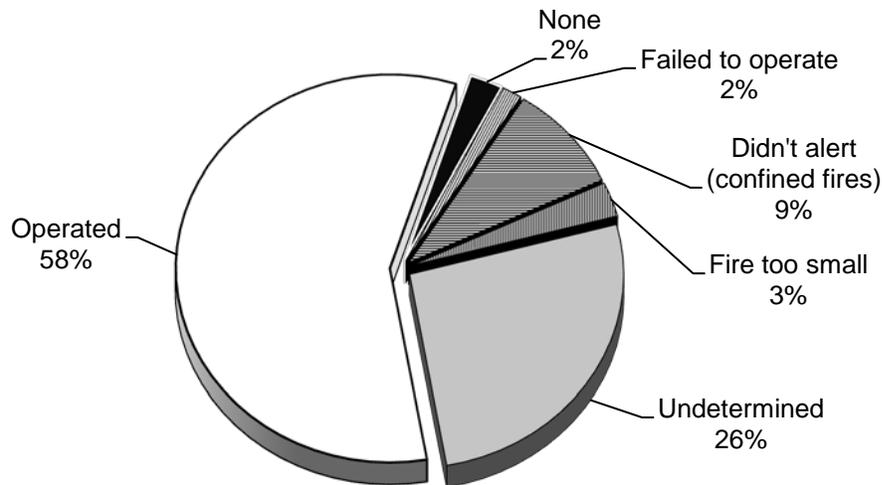
76% of Residential Building Fires Are Confined to Non-Combustible Containers¹

One thousand three hundred and fifty (1,350), or 76% of all residential building fires were reported as confined to non-combustible containers in 2013. Nine hundred and ninety-five (995) of the reported fires were cooking fires contained to a non-combustible container, accounting for 56% of residential building fires. One hundred and seventy-two (172), or 10%, were fires confined to a fuel burner or boiler malfunction. One hundred and fifty-five (155), or 9%, of all residential building fires reported in 2013 were confined to a chimney. Twenty-eight (28), or 2%, of the residential building fires in Worcester County in 2013 were contained rubbish fires.

Detectors Alerted Occupants in 58% of Fires

Smoke or heat detectors operated and alerted the occupants in 1,021, or 58%, of the residential building fires. In 9% of these fires², 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 466 incidents, or 26%, of Worcester County’s residential building fires.

Detector Status in Worcester County's Residential Structure Fires 2013



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.

19% of Failed Detectors Had Missing Batteries

Of the 27 fires where smoke detectors were present but failed to operate, five, or 19%, failed because the batteries were either missing or disconnected. Another five, or 19%, failed because of a power failure, shutoff or disconnect. A lack of maintenance and defective detectors each caused two, or 7%, of the detectors to fail. It was undetermined or unclassified in 13 cases, or 48%, why the detectors failed to operate.

VACANT BUILDINGS**2% of Building Fires Occurred in Vacant Buildings**

Worcester County reported 40 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 2,120 building fires reported to MFIRS in 2013. Twenty-two (22) fires occurred in vacant residential properties. Seven (7) vacant building fires occurred in storage facilities. Manufacturing or processing facilities and educational facilities each accounted for three of these fires. Two (2) vacant building fires occurred in educational facilities in 2013. Two (2) of these fires occurred in mercantile or business properties. Special properties accounted for one vacant building fire incident in Worcester County in 2013.

Five (5), or 13%, of the vacant building fires in Worcester County in 2013 were determined to be intentionally set. Two (2) manufacturing facilities, a one- or two-family home, an apartment building, and an elementary school accounted for the reported vacant structure arsons in 2013.

JUVENILE-SET FIRES**32 Juvenile-set Fires**

There were 32 reported juvenile-set fires in Worcester County in 2013. The seven structure fires, 20 brush fires, one outside rubbish fire, two special outside fires, and two unclassified fires caused one civilian injury, one fire service injury and \$21,983 in estimated damages.

ARSONS**139 Total Arsons³ — 29 Structures, 11 Vehicles & 99 Other Arsons**

One hundred and thirty-nine (139), or 4%, of Worcester County's 3,957 fires were considered intentionally set, or, for purposes of this analysis, arson. The 29 structure arsons, 11 motor vehicle arsons and 99 outside and other arsons caused one civilian death, one civilian injury, one fire service injury and an estimated dollar loss of \$690,279.

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.

Worcester County’s arson fires accounted for 15% of the state’s total arson fires and 10% of the state’s total dollar losses from arson.

All Arson Down

The total number of arsons decreased by 63 from 149 in 2012. Reported structure arsons decreased by 23 from the 52 reported in 2012. Motor vehicle arsons decreased by nine from the 20 reported in 2012. Outside and other arsons decreased by 31 from the 130 reported last year.

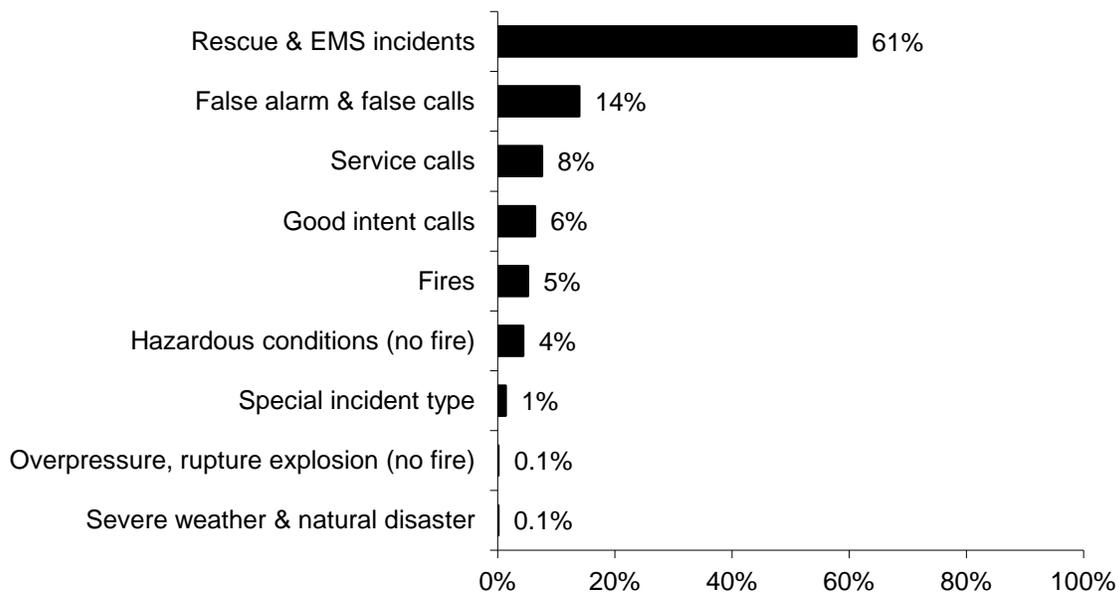
ALL INCIDENTS

Rescue & EMS Calls Are 61% of All Reported Responses

In 2013, fire departments in Worcester County reported 84,504 responses⁴ to MFIRS. This is a decrease of 289 runs, or less than 1%, over the 84,793 reported in 2012. Of these 84,504 responses, 80,144 non-fire calls were voluntarily reported.

Of these 80,144 non-fire calls, 51,717, or 61%, of all the responses reported in 2013, were reported rescue and emergency medical services (EMS) calls; 11,739, or 14%, were reported false alarm or false calls; 6,358, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,354, or 6%, were reported good intent calls; 3,690, or 4%, reported hazardous condition calls with no fire; 1,135, or 1%, were special incident type calls such as citizen complaints; 89,

2013 Responses by Incident Type



⁴ These figures include responses in which Worcester County fire departments gave mutual aid to other fire departments.

or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 62, or 0.1%, were severe weather calls..

Four thousand three hundred and sixty (4,360), or 5%, of the total responses submitted by Worcester County fire departments were fires.

Worcester County Fire Departments Reported Giving Mutual Aid 1,832 Times

In 2013, Worcester County fire departments reported coming to the aid of other fire departments 1,832 times. Of these 1,832 responses, 753, or 41%, were for rescue or EMS incidents; 427, or 23%, were for service calls such as cover assignments; 397, or 22%, were for fires; 168, or 9%, were for good intent calls; 53, or 3%, were for false alarms or false calls; 28, or 2%, were for hazardous conditions calls with no fire; five, or 0.3%, were special incident types; and one, or 0.1%, was a severe weather call.

Worcester County Fire Departments Received Mutual Aid in 1,185 Incidents

In 2013, Worcester County fire departments reported receiving aid from surrounding departments in 1,185 incidents. Of these 1,185 incidents, 828 or 70% were rescue and emergency medical services calls; 221, or 19%, were for fires; 45, or 4%, were false alarms or false calls; 33, or 3%, were good intent calls; 28, or 2%, were hazardous conditions calls with no fire; 26, or 2%, were service calls; two, or 0.2%, were overpressure, rupture explosions without fire calls; and two, or 0.2% were special incident types.

Worcester County

Population: 798,552

5.0 Fires/1,000 Population

Total Fires: 3,957 \$29,173,500

Situation	Fires	% of Fires	Dollar Loss
Structure Fires	2,126	54%	\$24,732,162
Vehicle Fires	357	9%	2,962,712
Other Fires	1,474	37%	1,478,626

7 Fatal Fires 1.77 Civilian Deaths/1,000 Fires
 7 Civilian Deaths 0.09 Civilian Deaths/10,000 Population
 38 Civilian Injuries 67 Fire Service Injuries

Building Fires: 2,120

Residential Structure Fires: 1,767

Residential Structure Fires Confined to Non-Combustible Containers: 1,350

Unconfined Residential Structure Fires: 417

5 Civilian Deaths 25 Civilian Injuries 52 Fire Service Injuries

Occupancy	Fires	%	Detector Status	Fires	%
Apartments	777	44%	Operated	1,021	58%
1- & 2-Family homes	751	43%	Didn't operate	27	2%
Rooming houses	111	5%	None	44	2%
Dormitories	75	4%	Fire too small	51	3%
Residential board & care	27	1%	Didn't Alert (confined)	158	9%
Hotels or motels	11	0.5%	Undetermined	466	26%

Area of Origin ⁵	%	Heat Source	%	%Unconfined ⁶
Kitchen	61%	Radiated heat from oper. eq.	3%	12%
Chimney or flue	10%	Heat from operating eq.	3%	11%
Heating room or area	9%	Hot ember or ash	2%	8%
Bedroom	2%	Arcing	2%	8%
Exterior balcony/unencl. porch	1%	Hot or smoldering object	1%	5%
Living room	1%	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 Ignited⁷	%	Factor Contrib. to Ignit.	%	%Unconfined⁸
Food, cooking materials	58%	Too close to combustibles	2%	9%
Film or residue (creosote)	10%	Abandoned materials	2%	9%
Flammable, combustible liquid	9%	Misuse of materials	2%	7%
Structural member, framing	2%	Equipment unattended	1%	5%
Rubbish, trash, waste	2%	Elec. fail., malfunc., other	1%	4%
		Mech. fail., malfunc., other	1%	4%
		Failure to clean	1%	3%

Equipment⁹	%	Cause of Ignition	%	%Unconfined¹⁰
Cooking equipment	60%	Unintentional	12%	49%
None	14%	Failure of eq. or heat source	3%	15%
Chimney or flue	10%	Intentional	1%	4%
Boiler, furnace, cent. heat. unit	9%	Act of Nature	0.3%	1%
Clothes dryer	1%	Cause under investigation	4%	19%
Fan	1%	Undetermined	3%	11%

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

Alerted Occupants	61%
Didn't Alert Occupants	12%
Undetermined	27%

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	313	209	33	71
February	311	231	41	39
March	257	181	23	53
April	518	167	25	326
May	458	166	22	270
June	260	141	29	90
July	289	138	27	124
August	316	152	24	140
September	297	177	40	80
October	323	176	28	119
November	343	190	30	123
December	272	198	35	39

Day	Total Fires	Structure Fires	Vehicle Fires	Other Fires
Sunday	615	328	50	237
Monday	539	279	59	201
Tuesday	570	293	58	219
Wednesday	536	306	51	179
Thursday	561	321	44	196
Friday	544	298	46	200
Saturday	592	301	49	242

Time	Total Fires	Structure Fires	Vehicle Fires	Other Fires
00:01 – 04:00	270	145	41	84
04:01 – 08:00	284	169	33	85
08:01 – 12:00	672	387	72	213
12:01 – 16:00	1,013	473	89	451
16:01 – 20:00	1,117	638	74	405
20:01 – 00:00	601	314	48	239

Motor Vehicle Fires

Total: 357

Automobiles: 297 (83%)

9, or (3%), of the automobile fires considered incendiary or suspicious

Arson Fires

Total Arsons: 139

Dollar loss: \$2,397,717

0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	29	1%	21%	\$674,123
Vehicle Arsons	11	3%	8%	12,951
Other Arsons	99	7%	71%	3,205

0.04 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.12 Other arsons/1,000 population

1 Civilian Death

1 Civilian Injury

1 Fire Service Injury

Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
20:01 – 00:00	10	34%	00:01 – 04:00	3	27%
16:01 – 20:00	8	31%	16:01 – 20:00	3	27%
00:01 – 04:00	5	17%	20:01 – 00:00	3	27%

Other Arsons	#	%
16:01 – 20:00	31	31%
12:01 – 16:00	25	25%
20:01 – 00:00	17	17%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	11	38%
1- or 2-Family homes	7	24%
Manufacturing, processing	2	7%
Hospital – medical or psychiatric	2	7%

Ashburnham					Population: 6,081			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	13	7	3	3	1	1	0	0
2010	12	7	2	3	0	0	0	0
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

Athol					Population: 11,584			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	56	21	5	30	7	1	0	6
2010	58	20	7	31	0	0	0	0
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

Auburn					Population: 16,188			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	50	23	11	16	0	0	0	0
2010	67	20	20	27	2	1	0	1
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

Barre					Population: 5,398			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	26	11	2	13	0	0	0	0
2010	32	15	2	15	2	2	0	0
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

Berlin					Population: 2,886			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	16	5	2	9	0	0	0	0
2010	29	12	6	11	7	3	1	3
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

Blackstone					Population: 9,026			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	18	5	18	2	0	0	2
2010	35	13	2	20	0	0	0	0
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

Bolton					Population: 4,897			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	5	2	12	0	0	0	0
2010	29	7	10	12	0	0	0	0
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

Boylston					Population: 4,355			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	3	1	1	0	0	0	0
2010	5	1	3	1	0	0	0	0
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

Brookfield					Population: 3,390			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	3	3	0	0	0	0	0	0
2010	5	3	0	2	0	0	0	0
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

Charlton					Population: 12,981			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	59	37	6	16	2	1	0	1
2010	65	36	8	21	2	1	0	1
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

Clinton					Population: 13,606			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	149	127	0	22	1	0	0	1
2010	169	128	7	34	0	0	0	0
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

Douglas					Population: 8,471			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	33	22	3	8	0	0	0	0
2010	41	29	1	11	0	0	0	0
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

Dudley					Population: 11,390			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	80	24	7	49	7	0	1	6
2010	60	15	5	40	5	0	0	5
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

East Brookfield					Population: 2,183			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	6	1	0	5	1	0	0	1
2010	5	4	0	1	0	0	0	0
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

Fitchburg					Population: 40,318			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	366	293	19	54	14	5	2	7
2010	412	308	26	78	7	2	0	5
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

Gardner					Population: 20,228			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	89	41	10	38	3	1	0	2
2010	80	53	8	19	1	1	0	0
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

Grafton					Population: 17,765			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	37	17	7	13	2	0	0	2
2010	28	17	7	4	0	0	0	0
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

Hardwick					Population: 2,990			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	8	5	0	3	0	0	0	0
2010	6	3	0	3	1	0	0	1
2011	15	8	0	7	0	0	0	0
2012	Non-Reporting Community							
2013	1	1	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
2009	24	6	2	16	1	0	0	1
2010	32	11	1	20	2	0	0	2
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

Holden					Population: 17,346			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	34	24	3	7	0	0	0	0
2010	50	30	6	14	0	0	0	0
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

Hopedale					Population: 5,911			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	5	0	0	0	0	0	0
2010	9	8	0	1	0	0	0	0
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

Hubbardston					Population: 4,382			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	10	0	9	0	0	0	0
2010	21	9	2	10	0	0	0	0
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

Lancaster					Population: 8,055			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	19	10	3	6	3	0	0	3
2010	25	5	8	12	1	1	0	0
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

Leicester					Population: 10,970			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	29	6	9	14	1	1	0	0
2010	20	6	2	12	0	0	0	0
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

Leominster					Population: 40,759			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	203	120	25	58	8	0	6	2
2010	217	108	22	87	20	4	0	16
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

Lunenburg					Population: 10,086			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	26	1	14	0	0	0	0
2010	48	28	3	17	0	0	0	0
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

Mendon					Population: 5,839			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	18	4	4	10	6	1	0	5
2010	21	5	1	15	7	0	0	7
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

Milford					Population: 27,999			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	117	67	20	30	5	3	1	1
2010	98	43	13	42	3	0	2	1
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

Millbury					Population: 13,261			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	49	31	8	10	2	1	1	0
2010	66	43	8	15	0	0	0	0
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

Millville					Population: 3,190			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	4	0	5	0	0	0	0
2010	7	5	0	2	0	0	0	0
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

New Braintree					Population: 999			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	Non-Reporting Community							
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	9	1	0	8	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							

North Brookfield					Population: 4,680			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	22	6	3	13	4	0	1	3
2010	23	9	0	14	3	0	0	3
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

Northborough					Population: 14,155			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	27	5	10	12	0	0	0	0
2010	43	15	7	21	2	0	0	2
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

Northbridge					Population: 15,707			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	43	29	3	11	0	0	0	0
2010	82	45	6	31	2	1	0	1
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

Oakham					Population: 1,902			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	4	0	5	0	0	0	0
2010	17	4	0	13	0	0	0	0
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

Oxford					Population: 13,709			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	54	35	7	12	2	2	0	0
2010	60	32	10	18	2	1	0	1
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

Paxton					Population: 4,806			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	5	3	0	2	0	0	0	0
2010	12	7	2	3	0	0	0	0
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

Petersham					Population: 1,234			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	11	9	0	2	0	0	0	0
2010	5	2	0	3	0	0	0	0
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							

Phillipston					Population: 1,682			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	1	1	0	0	0	0	0	0
2010	2	0	0	2	1	0	0	1
2011 ¹¹	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

Princeton					Population: 3,413			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	12	3	2	7	3	2	1	0
2010	22	7	2	13	2	1	0	1
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

¹¹ 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
2009	6	4	1	1	1	1	0	0
2010	2	2	0	0	0	0	0	0
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

Rutland					Population: 7,973			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	30	10	1	19	4	1	0	3
2010	24	10	1	13	0	0	0	0
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

Shrewsbury					Population: 35,608			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	107	71	11	25	4	0	0	4
2010	126	64	13	49	2	0	1	1
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

Southborough					Population: 9,767			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	25	15	6	4	0	0	0	0
2010	29	10	10	9	0	0	0	0
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

Southbridge					Population: 16,719			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	76	55	7	14	3	2	1	0
2010	82	48	6	28	2	0	0	2
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

Spencer					Population: 11,688			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	68	40	8	20	4	1	1	2
2010	91	58	5	28	3	1	0	2
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

Sterling					Population: 7,808			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	41	15	6	20	4	1	1	2
2010	33	10	3	20	0	0	0	0
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

Sturbridge					Population: 9,268			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	40	17	7	16	1	0	0	1
2010	43	15	9	19	3	0	0	3
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

Sutton					Population: 8,963			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	20	10	2	8	1	0	0	1
2010	16	4	3	9	1	0	0	1
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

Templeton					Population: 8,013			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	47	26	4	17	3	0	0	3
2010	42	32	0	10	2	1	0	1
2011	31	25	2	4	1	0	1	0
2012	4	4	0	0	0	0	0	0
2013	Non-Reporting Community							

Upton					Population: 7,542			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	42	23	6	13	9	0	0	9
2010	37	20	5	12	0	0	0	0
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

Uxbridge					Population: 13,457			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	58	35	6	17	3	0	0	3
2010	45	18	10	17	3	1	0	2
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

Warren					Population: 5,135			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	11	3	7	2	1	0	1
2010	24	11	3	10	0	0	0	0
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

Webster					Population: 16,767			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	46	12	3	31	5	0	0	5
2010	69	22	6	41	10	2	0	8
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

West Boylston					Population: 7,669			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	21	6	0	15	3	0	0	3
2010	26	7	7	12	2	0	0	2
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

West Brookfield					Population: 3,701			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2009	9	7	0	2	0	0	0	0
2010 ¹²	Fire Department in Good Standing, Certified No Reportable Fires							
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

¹² In 2010, West Brookfield did not report any fires, but they did report 1 Hazardous condition call with no fire, and 1 severe weather response.

Westborough					Population: 18,272			
	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	59	29	10	20	2	0	0	2
2010	64	37	5	22	3	2	0	1
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

Westminster					Population: 7,277			
	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	24	10	4	10	3	1	1	1
2010	40	15	6	19	0	0	0	0
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

Winchendon					Population: 10,300			
	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	26	20	2	4	0	0	0	0
2010	49	27	2	20	0	0	0	0
2011	42	33	4	5	3	0	1	2
2012	56	28	4	24	2	0	1	1
2013								

Worcester					Population: 181,045			
	Total	Structure	Vehicle	Other	Total	Structure	Vehicle	Other
	Fires	Fires	Fires	Fires	Arsons	Arsons	Arsons	Arsons
2009	1,232	696	111	425	56	13	12	31
2010	1,430	730	95	605	58	13	6	39
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

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	240	33	0	47	15	37	23	83	0	2
27015	Athol	615	56	3	87	69	157	99	126	3	15
27017	Auburn	3,089	61	0	2,270	153	166	148	270	1	20
27021	Barre	251	25	0	124	10	27	21	42	0	2
27028	Berlin	445	37	0	62	20	13	18	100	0	195
27032	Blackstone	409	35	1	156	31	22	49	111	3	1
27034	Bolton	148	15	1	13	17	19	23	60	0	0
27039	Boylston	79	19	1	18	4	8	3	26	0	0
27045	Brookfield	6	6	0	0	0	0	0	0	0	0
27054	Charlton	1,839	78	1	1,254	190	106	98	106	5	1
27064	Clinton	1,852	89	3	1,135	53	144	39	368	0	21
27077	Douglas	195	37	2	58	22	13	17	41	3	2
27080	Dudley	377	56	0	33	60	45	77	94	7	5
27084	East Brookfield	102	19	0	12	35	12	6	14	1	3
27097	Fitchburg	4,144	399	3	1,735	185	541	331	942	0	8

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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	3,033	112	5	1,204	124	558	72	610	1	347
27110	Grafton	366	51	2	36	28	36	34	178	0	1
27124	Hardwick	1	1	0	0	0	0	0	0	0	0
27125	Harvard	206	29	0	34	11	50	13	69	0	0
27134	Holden	1,859	50	2	1,318	35	115	122	213	3	1
27138	Hopedale	737	29	2	522	21	73	25	64	0	1
27140	Hubbardston	495	18	0	342	14	42	31	45	1	2
27147	Lancaster	353	26	0	119	22	36	18	116	0	16
27151	Leicester	233	47	0	7	22	47	19	89	1	1
27153	Leominster	5,658	154	1	3,783	195	397	161	588	0	379
27162	Lunenburg	410	51	1	61	43	80	37	130	2	5
27179	Mendon	764	18	1	522	13	42	95	73	0	0
27185	Milford	4,566	166	1	2,948	157	655	186	423	5	25
27186	Millbury	264	55	3	17	31	19	26	111	2	0
27188	Millville	332	29	0	193	9	21	56	23	0	1

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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
27212	North Brookfield	160	29	0	19	39	16	2	52	0	3
27215	Northborough	1,959	46	1	1,177	91	282	107	255	0	0
27216	Northbridge	815	74	1	192	65	79	99	296	9	0
27222	Oakham	189	8	1	141	4	8	16	10	1	0
27226	Oxford	539	36	0	113	43	85	100	153	1	8
27228	Paxton	122	26	0	17	14	8	11	44	1	1
27235	Phillipston	43	1	0	12	3	10	3	13	0	1
27241	Princeton	275	12	3	169	10	30	14	37	0	0
27255	Royalston	3	2	0	1	0	0	0	0	0	0
27257	Rutland	846	24	1	590	21	77	49	84	0	0
27271	Shrewsbury	3,645	121	4	2,572	169	250	75	447	0	7
27277	Southborough	1,223	34	5	731	65	125	65	197	0	1
27278	Southbridge	964	81	1	377	63	103	81	242	1	15
27280	Spencer	381	100	0	14	85	31	37	104	6	4
27282	Sterling	1,137	60	0	693	14	142	83	144	0	1

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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
27287	Sturbridge	560	48	3	91	65	131	69	150	2	1
27290	Sutton	491	51	0	282	17	39	18	82	1	1
27303	Upton	307	38	0	55	75	55	9	67	1	7
27304	Uxbridge	2,008	59	1	1,470	50	127	97	200	0	4
27311	Warren	199	33	0	34	22	34	18	58	0	0
27316	Webster	487	52	2	24	95	90	49	172	0	3
27321	West Boylston	1,102	37	1	821	20	63	55	105	0	0
27323	West Brookfield	3	3	0	0	0	0	0	0	0	0
27328	Westborough	2,545	65	1	1,725	132	114	117	389	0	2
27332	Westminster	836	29	0	355	41	158	82	165	1	5
27343	Winchendon	1,703	34	1	1,181	46	183	114	141	0	3
27348	Worcester	28,894	1,456	30	20,751	852	637	2,137	3,017	0	14
Total	Worcester County	84,504	4,360	89	51,717	3,690	6,358	5,354	11,739	62	1,135

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