

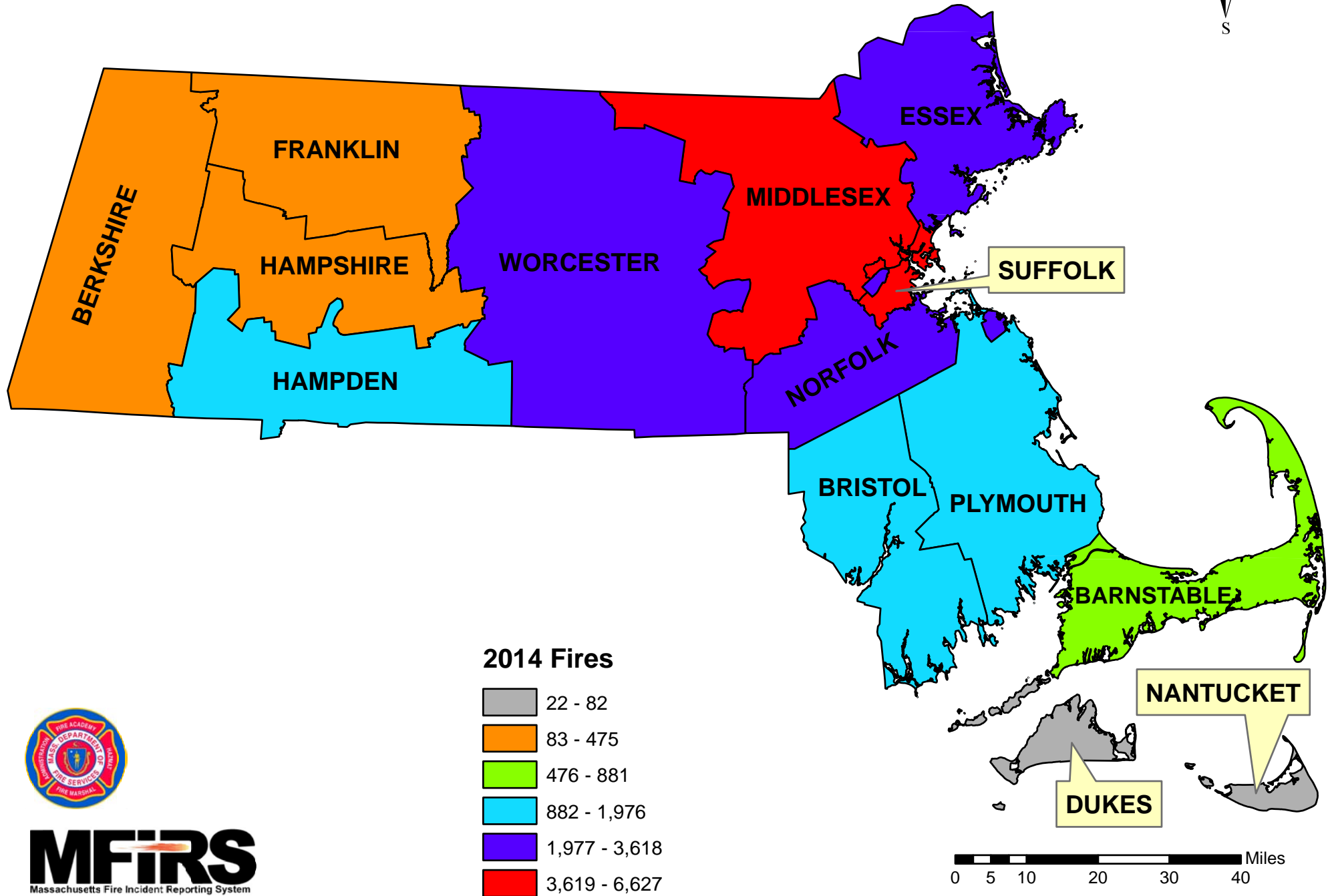


# County Profiles

## 2014 Fire Data Analysis

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

# 2014 Fires in Massachusetts Counties



**MFIRS**  
Massachusetts Fire Incident Reporting System

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Massachusetts Fire Incident Reporting System 2014

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**Hampshire County Profile**

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## 2014 Fires By County

County	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Civilian Deaths	Civilian Injuries	Fire Service Deaths	Fire Service Injuries	Dollar Loss
Barnstable	881	403	82	396	2	40	0	7	\$9,466,227
Berkshire	475	293	45	137	0	11	0	15	6,208,858
Bristol	1,976	847	262	867	5	37	0	13	16,051,757
Dukes	22	10	1	11	0	0	0	1	237,602
Essex	2,854	1,635	244	975	8	29	0	88	25,047,501
Franklin	263	115	24	124	0	2	0	3	2,435,298
Hampden	1,965	1,081	223	661	4	34	0	47	14,402,137
Hampshire	401	204	34	168	0	5	0	5	5,659,909
Middlesex	4,860	3,115	410	1,335	18	47	0	85	46,522,485
Nantucket	82	41	11	30	1	0	0	0	472,543
Norfolk	3,130	1,812	245	1,073	2	19	0	54	19,227,021
Plymouth	1,840	793	203	844	3	33	0	30	14,135,493
Suffolk	6,627	4,901	349	1,377	5	15	2	54	52,177,781
Worcester	3,618	2,153	363	1,102	6	38	0	48	29,796,111
<b>Total</b>	<b>28,999</b>	<b>17,403</b>	<b>2,496</b>	<b>9,100</b>	<b>54</b>	<b>310</b>	<b>2</b>	<b>450</b>	<b>\$241,840,723</b>

## 2014 Arsons By County

County	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons	Civilian Deaths	Civilian Injuries	Fire Service Deaths	Fire Service Injuries	Dollar Loss
Barnstable	52	7	4	41	0	0	0	0	\$415,200
Berkshire	19	3	3	13	0	0	0	1	99,800
Bristol	86	32	11	43	1	3	0	0	1,300,002
Dukes	1	0	0	1	0	0	0	0	0
Essex	79	12	7	60	1	0	0	5	850,075
Franklin	18	3	0	15	0	1	0	0	500
Hampden	55	17	6	32	1	0	0	0	631,181
Hampshire	30	2	0	28	0	0	0	0	15,056
Middlesex	72	28	9	35	0	2	0	3	500,236
Nantucket	3	0	1	2	2	1	0	0	0
Norfolk	78	11	5	62	1	0	0	1	1,288,503
Plymouth	67	25	4	38	0	0	0	2	361,050
Suffolk	159	33	8	118	0	0	0	0	446,230
Worcester	82	28	9	45	1	0	0	4	1,289,179
<b>Total</b>	<b>801</b>	<b>201</b>	<b>67</b>	<b>533</b>	<b>6</b>	<b>5</b>	<b>0</b>	<b>16</b>	<b>\$7,197,012</b>

## 2014 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	881	4.1	2	2.3	0.09	52	0.2
Berkshire	131,219	475	3.6	0	0.0	0.00	19	0.1
Bristol	548,285	1,976	3.6	5	2.5	0.09	86	0.2
Dukes	16,535	22	1.3	0	0.0	0.00	1	0.1
Essex	743,159	2,854	3.8	8	2.8	0.11	79	0.1
Franklin	71,372	263	3.7	0	0.0	0.00	18	0.3
Hampden	463,490	1,965	4.2	4	2.0	0.09	55	0.1
Hampshire	158,080	406	2.6	0	0.0	0.00	30	0.2
Middlesex	1,503,085	4,860	3.2	18	3.7	0.12	72	0.1
Nantucket	10,172	82	8.1	1	12.2	0.98	3	0.3
Norfolk	670,850	3,130	4.7	2	0.6	0.03	78	0.1
Plymouth	494,919	1,840	3.7	3	1.6	0.06	67	0.1
Suffolk	722,023	6,627	9.2	5	0.8	0.07	159	0.2
Worcester	798,552	3,618	4.5	6	1.7	0.08	82	0.1
Massachusetts	6,547,629	28,999	4.4	54	1.9	0.08	801	0.1

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

## 2014 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 <sup>1</sup> & Natural Disaster	Special Incident Type
Barnstable	38,824	44	26,554	1,964	3,096	1,874	5,087	70	135
Berkshire	10,595	12	5,808	916	1,345	505	1,921	40	48
Bristol	55,715	66	36,882	2,257	3,625	3,340	9,086	47	412
Dukes	565	0	44	48	19	131	317	0	6
Essex	98,555	93	56,442	4,247	14,239	6,565	16,123	136	710
Franklin	6,877	22	3,828	679	888	511	752	88	109
Hampden	43,969	104	26,050	1,869	3,570	5,294	6,903	30	149
Hampshire	13,605	44	8,091	729	1,465	729	2,442	22	99
Middlesex	172,734	141	100,895	9,731	18,899	9,923	27,744	203	5,198
Nantucket	2,954	3	1,348	343	155	100	999	2	4
Norfolk	81,905	127	50,205	4,526	8,120	5,180	11,958	46	1,743
Plymouth	73,547	79	49,331	3,344	6,546	5,334	8,601	65	247
Suffolk	94,321	80	51,474	4,198	13,120	8,308	16,743	75	323
Worcester	84,892	91	55,495	3,782	7,152	5,474	11,544	65	1,289
<b>Massachusetts</b>	<b>779,058</b>	<b>906</b>	<b>472,447</b>	<b>38,633</b>	<b>82,239</b>	<b>53,252</b>	<b>120,220</b>	<b>889</b>	<b>10,472</b>

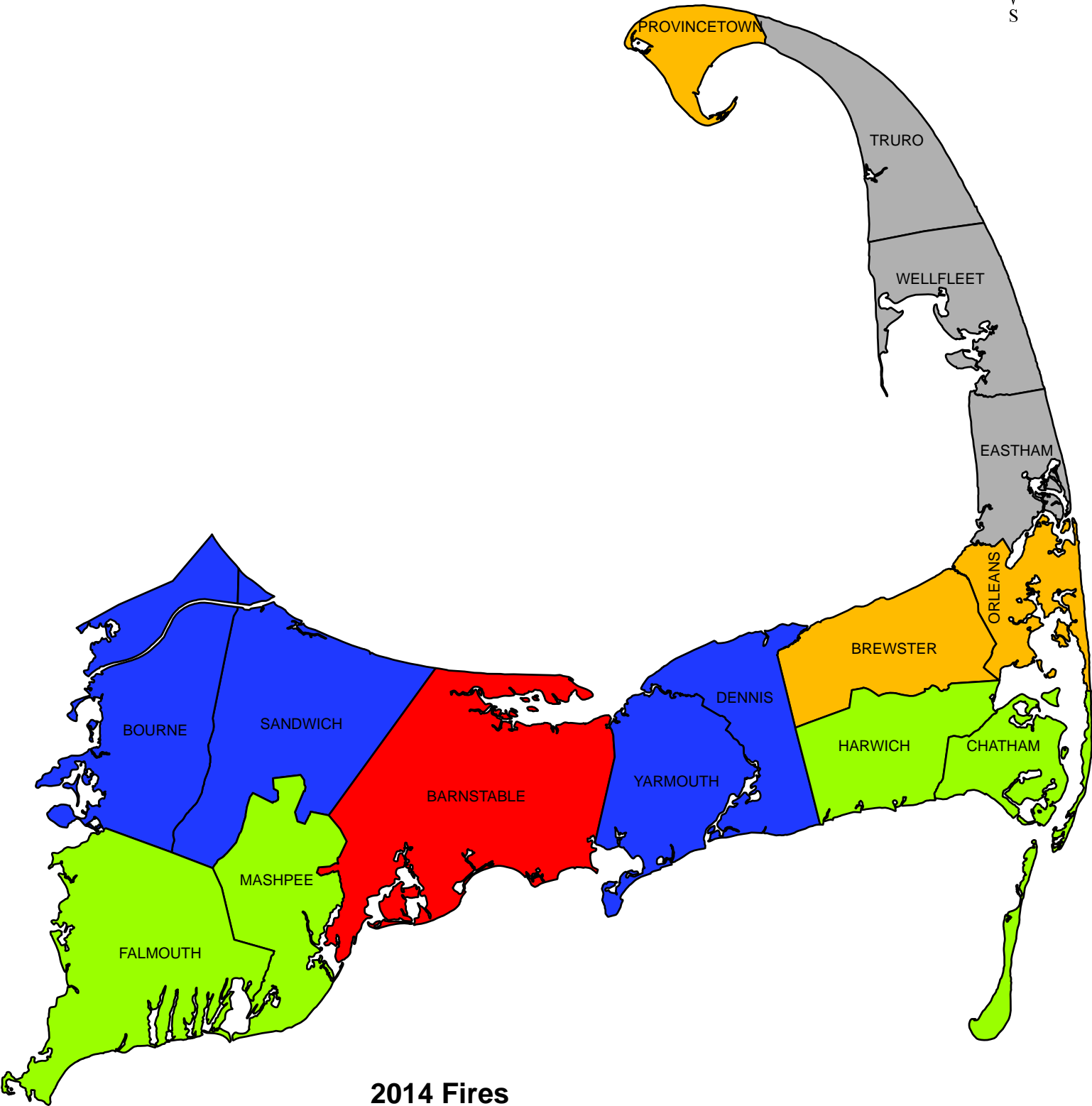
<sup>1</sup> WX is the abbreviation for Weather.



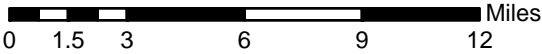
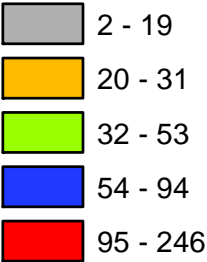
# Barnstable County

## 2014 Fire Data Analysis

# Barnstable County Fires 2014



## 2014 Fires





# Barnstable County Fires in 2014

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## **881 Total Fires — 403 Structures, 82 Vehicles & 396 Other Fires**

Barnstable County ranked ninth out of the 14 Massachusetts counties in total reported fires. Barnstable County fire departments reported 881 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 403 structure fires, 82 motor vehicle fires, 248 brush, tree, or lawn fires, 71 outside rubbish fires, 43 special outside fires, two cultivated crop or vegetation fires, and 32 unclassified fires caused two civilian deaths, 40 civilian injuries, seven fire service injuries and an estimated dollar loss of \$9.5 million. Barnstable County's fires accounted for 3% of the 28,999 Massachusetts fires reported in 2014.

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 2014.

## **Structure & Outside Fires Up**

The total number of reported fire incidents increased by 76 from the 805 reported in 2013. Reported structure fires increased by eight from the 395 reported during the previous year. Motor vehicle fires decreased by eight from the 90 reported during 2013. Outside and other fires increased by 76 from the 320 reported the year before.

## **BARNSTABLE COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	805	395	90	320	48	8	0	40
2014	881	403	82	396	52	7	4	41

## **Fire and Fire Death Rates**

Barnstable County had 4.1 fires per 1,000 population. That figure ranks Barnstable County sixth in the state and below the state rate of 4.4 fires per 1,000 population. Barnstable County also had 0.09 fire deaths per 10,000 population, ranking it tied for fourth and just above the state rate of 0.08 fire deaths per 10,000 population.

## **2 Fatal Fires in Barnstable County Fires**

In 2014, Barnstable County had two fatal fires with two accompanying fire deaths.

- On September 22, 2014, at 5:26 p.m., the Hyannis Fire Department responded to a fatal fire in a shed in the backyard of a 1-family home. Three (3) young boys were in the shed playing with a cigarette lighter and started a small fire. It is believed that one of the boys used gasoline thinking it was water to try and extinguish the fire, but this just caused the fire to grow. One (1) of the boys was trapped by the fire while the other two were able to escape the shed. The victim, an eight-year old boy was killed in the fire. His two friends were injured in this fire.

- On November 2, 2014, at 4:27 p.m., the Chatham Fire Department responded to a fatal heating fire at a single-family home. Embers from the fireplace ignited combustibles that were placed too close to it. The victim, an 80-year old physically disabled man, was overcome while he was trying to escape the fire. He was transported to a Boston hospital where he succumbed to his injuries. No one else was injured at this fire. Alarms were present, but it was undetermined if they operated. The building did not have any sprinklers. Damages from this fire were estimated to be \$300,000.

### **Hyannis & Truro Have Barnstable County's Largest Loss Fires**

In 2014 Barnstable County did not have any large loss fires over \$1 million in estimated damages. Hyannis and Truro each had a fire with the most estimated damages, which combined were 17% of the county's total dollar loss.

- On October 30, 2014, at 4:23 a.m., the Truro Fire Department responded to a fire of undetermined cause in a 23-unit motel. No one was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not equipped with sprinklers. Damages were estimated to be \$800,000.
- On November 15, 2014, at 6:17 p.m., the Hyannis Fire Department responded to a fire of undetermined cause in a 12-unit apartment building. One (1) civilian was injured at this fire. Alarms were present and alerted the occupants. The building was not equipped with sprinklers. Damages were estimated to be \$800,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 403 structure fires caused two civilian deaths, 38 civilian injuries, four fire service injuries and an estimated dollar loss of \$9 million. These incidents represented 46% of Barnstable County's reported fires in 2014. The total number of reported structure fires increased by eight, or 2%, from the 395 reported in 2013. The average estimated dollar loss per structure fire was \$22,402.

### **Arson Caused 2% of Structure Fires**

The seven structure arsons caused an estimated dollar loss of \$411,200. Arson was indicated as the cause of 2% of the structure fires and 5% of Barnstable County's structure fire dollar loss. The seven structure arsons accounted for 13% of the Barnstable County arson fires reported in 2014. The total number of reported structure arsons decreased by one from the eight reported in 2013.

### **71% of Structure Arsons Occurred in Residences**

Seventy-one percent (71%) of Barnstable County's seven structure arsons occurred in residential occupancies, and 29% occurred in mercantile or business properties.

## **BUILDING FIRES**

There were 401 building fires of different types in Barnstable County in 2014. These 401 building fires accounted for 99.5% of all building fires in Barnstable County.

### **82% of Barnstable Building Fires Occurred in People's Homes**

Three hundred and twenty-seven (327), or 82%, of Barnstable County's 401 building fires occurred in residential occupancies. Mercantile and business properties had 28 fires. Eighteen (18) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced seven fires. Seven (7) fires also took place in storage properties. Five (5) fires took place in educational facilities, and another five fires occurred in special properties. One (1) fire took place in an unclassified property in Barnstable County in 2014.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Are Down Slightly**

There were 327 reported residential building fires in Barnstable County in 2014. These 327 fires are a decrease of two, or 1%, from the 329 residential building fires reported in 2013.

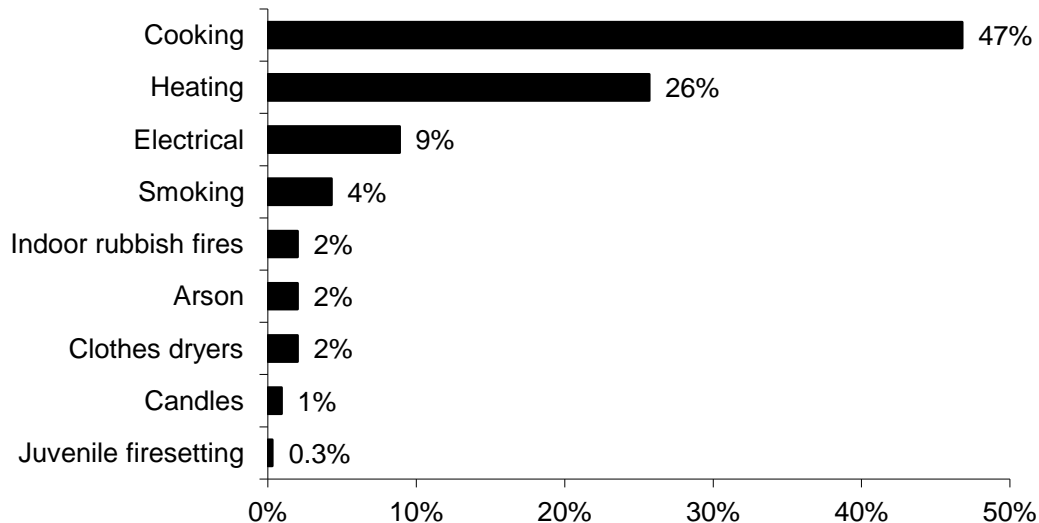
### **1- & 2-Family Homes Accounted for 78% of Residential Building Fires**

The peak fixed property use for residential building fires were one- or two-family homes, accounting for 78% of the building fires in Barnstable County; 16% occurred in apartments; 2% happened in hotels or motels; 2% occurred in rooming houses; 1% occurred in residential board and care facilities; and 1% happened in dormitories. Four (4), or 1%, 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 47% of the fires. Heating fires accounted for 26% of the fires in people's homes in 2014; 52% involved a chimney or flue and 29% involved a fuel burner or boiler. Electrical problems caused 9% of fires in residential buildings. Smoking caused 4% of these fires. Indoor rubbish fires, arson and clothes dryers were each responsible for 2%. Candles accounted for 1%. Juvenile set fires caused less than 1% of the fires in Barnstable County in 2014.

## 2014 Leading Causes of Fires in Barnstable County Homes



### 58% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

One hundred and ninety (190), or 58%, of all residential building fires were reported as confined to non-combustible containers in 2014. One hundred and twenty-four (124), or 38%, of all residential building fires reported in 2014 were cooking fires contained to a non-combustible container. Forty-two (42) of the reported fires were confined to a chimney, accounting for 13% of residential building fires. Eighteen (18), or 6%, were fires confined to a fuel burner or boiler malfunction. Six (6), or 2%, of these fires were rubbish fires contained to a non-combustible container in Barnstable County in 2014.

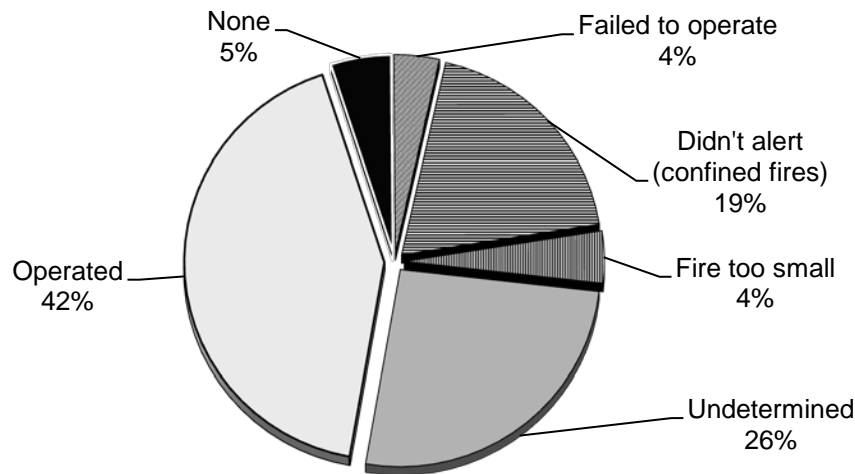
### Detectors Alerted Occupants in Only 42% of Fires

Smoke or heat detectors operated and alerted the occupants in 138, or 42%, of the residential building fires. In 19% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 4% 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 85 incidents, or 26%, of Barnstable County's residential building fires.

<sup>1</sup> 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.

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

## Detector Status in Barnstable County's Residential Structure Fires 2014



### Half of Detectors Failed from Missing or Disconnected Batteries

Of the 12 fires where smoke detectors were present but failed to operate, six, or 50%, failed because of missing or disconnected batteries. Two (2) failed because the power was shut-off or disconnected. One (1) failed because it was defective. It was undetermined in three cases, or 25%, why the detector failed.

### VACANT BUILDINGS

#### 6% of Building Fires Occurred in Vacant Buildings

Barnstable County reported 22 fires that occurred in buildings that were vacant, under construction or demolition. This represented 6% of the total 401 building fires reported to MFIRS in 2014. Fifteen (15) one- or two-family homes, two unclassified residential properties, one hotel or motel, one restaurant, one specialty shop, one high school, and one unclassified storage facility were reported as vacant building fire incidents.

Three (3), or 14%, of the vacant building fires in Barnstable County in 2014 were determined to be intentionally set. Two (2) of these fires occurred in one- or two-family homes and one in an unclassified residential property.

### JUVENILE-SET FIRES

#### 18 Juvenile-set Fires

There were 18 reported juvenile-set fires in Barnstable County in 2014. There were 13 brush fires, three special outside fires, and two structure fires. These 18 fires accounted for one civilian death, three civilian injuries, one fire service injury and \$5,800 in estimated damages.

## ARSONS

### **52 Total Arsons — 7 Structures, 4 Vehicle & 41 Other Arsons**

Fifty-two (52), or 6%, of Barnstable County's 881 fires were considered intentionally set, or, for purposes of this analysis, arson. The seven structure arsons, four motor vehicle arsons and 41 outside and other arsons caused an estimated dollar loss of \$415,200.

### **All Arson Up Slightly in 2014**

The total number of reported arson fires increased by four, or 8%, from the 48 reported in 2013. Reported structure arsons decreased by one from the eight reported in 2013. Motor vehicle arsons increased by four from none reported in 2013. Reported outside and other arsons increased by one from the 40 reported in 2013.

## ALL INCIDENTS

### **Rescue & EMS Calls Are 2/3 of All Reported Incidents**

In 2014, Barnstable County fire departments reported 38,835 responses<sup>3</sup> to MFIRS. Of these 38,835 incidents, 37,829 non-fire calls were voluntarily reported.

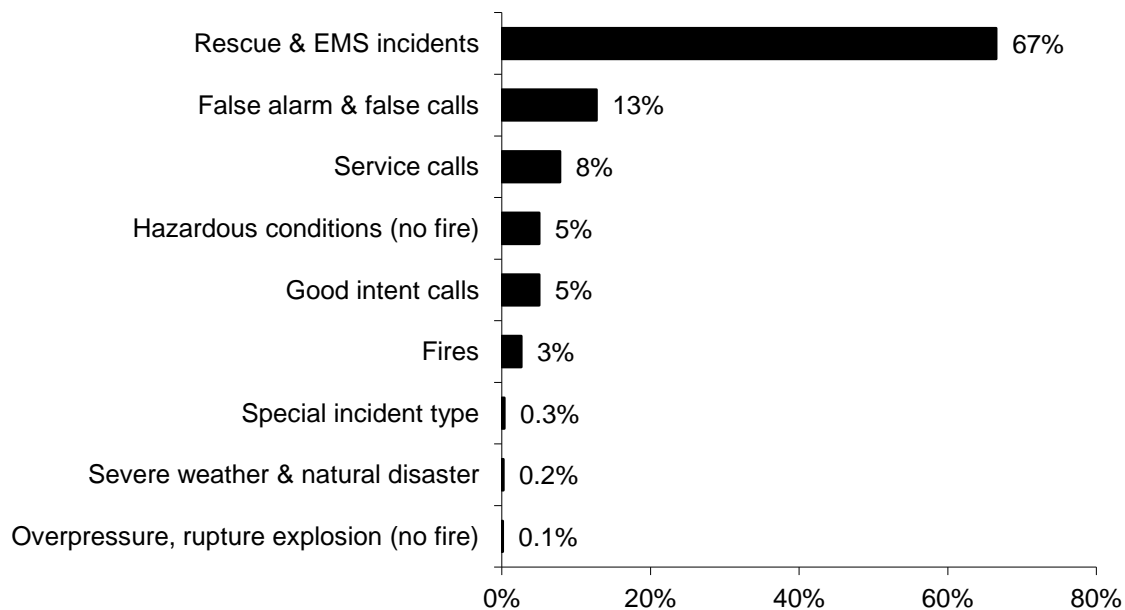
Of these 37,829 non-fire calls, 25,834, or 67%, of all of the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 4,937, or 13%, were reported false alarm or false calls; 3,029, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,936, or 5%, were reported hazardous condition calls with no fire; 1,852, or 5%, reported good intent calls; 128, or 0.3%, were special incident type calls such as citizen complaints; 70, or 0.2%, were severe weather responses; and 43, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

One thousand and six (1,006), or 3%, of the total responses submitted by Barnstable County fire departments were fires.

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

## 2014 Responses by Incident Type



### Barnstable County Departments Gave Aid 1,438 Times

In 2014, Barnstable County fire departments reported coming to the aid of other fire departments 1,438 times. Of these 1,438 responses, 743, or 54%, were for rescue or EMS incidents; 275, or 19%, were for service calls such as cover assignments; 200, or 14%, were for good intent calls; 116, or 8%, were for fires; 26, or 2%, were for hazardous conditions calls with no fire; 26, or 2%, were for false alarms or false calls; 18, or 1%, were special incident types; and one, or 0.1%, was for a severe weather incident.

### Barnstable County Received Mutual Aid in 854 Incidents

In 2014, Barnstable County fire departments received aid from surrounding departments in 854 incidents. Of these 854 incidents, 628, or 74%, were rescue and emergency medical services calls; 126, or 15%, were for fires; 29, or 3%, were good intent calls; 25, or 3%, were hazardous conditions calls with no fire; 23, or 3%, were false alarms or false calls; 14, or 2%, were service calls; five, or 1%, were overpressure, rupture, explosion or overheat calls with no fire; three, or 0.4%, were severe weather or natural disaster calls; and one, or 0.1%, was for a special incident type.

**Barnstable County****Population: 215,888****4.1 Fires/1,000 Population****Total Fires: 881                      \$9,466,227**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	403	46%	\$9,027,993
Vehicle Fires	82	9%	361,549
Other Fires	396	45%	76,685

2 Fatal Fires                      2.27 Civilian Deaths/1,000 Fires  
 2 Civilian Deaths                0.09 Civilian Deaths/10,000 Population  
 40 Civilian Injuries              7 Fire Service Injuries

**Building Fires: 401****Residential Structure Fires: 327****Residential Structure Fires Confined to Non-Combustible Containers: 190****Unconfined Residential Structure Fires: 137**

1 Civilian Death                      35 Civilian Injuries                      3 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	254	78%	Operated	138	42%
Apartments	51	13%	Didn't operate	12	4%
Hotels or motels	8	2%	None	16	5%
Rooming houses	5	2%	Fire too small	14	4%
Residential board & care	3	1%	Didn't Alert (confined)	62	19%
Dormitories	2	1%	Undetermined	85	26%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	50%	Heat from operating eq.	7%	17%
Chimney or flue	13%	Radiated heat/oper. eq.	6%	15%
Heating room or area	7%	Arcing	4%	9%
Bedroom	5%	Hot or smoldering object	2%	5%
Living room	2%	H Hot ember or ash	2%	5%
Vehicle storage area, carport	2%	Cigarette	2%	4%

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.



<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	42%	Abandoned materials	5%	11%
Film, residue (creosote)	13%	Too close to combustibles	3%	8%
Flammable or comb. liquid	6%	Equipment unattended	3%	7%
Electrical wire, cable insulation	5%	Electrical failure, malfunct.	2%	5%
Structural member, framing	4%	Accident. turned on, not off	2%	4%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	46%	Unintentional	22%	53%
None	21%	Failure of eq. or heat source	7%	16%
Chimney or flue	13%	Intentional	1%	3%
Boiler, furnace, cent. heat unit	6%	Act of nature	1%	2%
Stove, heating	2%	Undetermined	2%	5%
		Cause Under Investigation	8%	20%

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

Alerted Occupants	38%
Didn't Alert Occupants	33%
Undetermined	29%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	61	39	8	14
February	48	36	4	8
March	59	34	5	20
April	87	31	6	50
May	102	27	11	64
June	105	31	8	66
July	108	46	12	50
August	80	28	5	47
September	76	31	8	37
October	49	29	6	14
November	72	51	2	19
December	34	20	7	7

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	117	47	10	60
Monday	116	51	5	60
Tuesday	120	53	11	56
Wednesday	128	58	18	52
Thursday	124	70	8	46
Friday	126	64	19	71
Saturday	150	60	19	71

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	44	26	6	12
04:01 - 08:00	54	29	3	22
08:01 - 12:00	169	81	19	69
12:01 - 16:00	261	97	26	138
16:01 - 20:00	218	113	15	90
20:01 - 24:00	135	57	13	65

### **Motor Vehicle Fires**

Total: 82

Automobiles: 69 (84%)

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

## Arson Fires

**Total Arsons: 52**

**Dollar loss: \$415,200**

### 0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	7	2%	13%	\$411,200
Vehicle Arsons	4	5%	8%	3,000
Other Arsons	41	10%	79%	1,000

0.03 Structure arsons/1,000 population

0.02 Vehicle arsons/1,000 population

0.19 Other arsons/1,000 population

0 Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	2	29%	12:01 - 16:00	2	50%

Other Arsons	#	%
16:01 - 20:00	10	24%
20:01 - 00:00	10	24%
08:01 - 12:00	9	22%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	4	57%
General retail, other	1	14%
Residential, other	1	14%
Mercantile, business, other	1	14%

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

	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>
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
2014	24	9	6	9	0	0	0	0

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

	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>
	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>
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
2014	60	36	2	22	4	1	0	3

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

	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>
	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>
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
2014 <sup>10</sup>	10	3	0	7	2	0	0	2

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

	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>
	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>
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
2014	152	72	11	69	4	1	0	3

<sup>10</sup> Cotuit reported 10 fires after this 2014 database was closed. None of these were included in the analysis.

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	4	1	5	0	0	0	0

**Bourne****Population: 19,754**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	79	33	11	35	8	0	0	8

**Brewster****Population: 9,820**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	9	3	19	3	0	1	2

**Chatham****Population: 6,125**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	39	20	1	18	1	0	0	1

**Dennis** **Population: 14,207**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	74	24	3	47	13	1	0	12

**Eastham** **Population: 4,956**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	16	11	0	5	0	0	0	0

**Falmouth** **Population: 31,531**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	21	8	22	3	2	0	1

**Harwich** **Population: 12,243**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	49	21	8	20	2	1	0	1

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	8	2	0	6	1	0	0	1

**Mashpee Population: 14,006**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	53	33	4	16	2	0	0	2

**Orleans Population: 5,890**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	25	8	5	12	1	0	1	0

**Provincetown Population: 2,942**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	12	2	7	1	0	0	1

**Sandwich****Population: 20,675**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	94	56	9	29	4	0	1	3

**Truro****Population: 2,003**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	1	0	1	0	0	0	0

**Wellfleet****Population: 2,750**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	19	6	1	12	0	0	0	0

**Yarmouth****Population: 23,793**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	74	25	7	42	5	1	1	3



## 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	1,063	30	1	678	42	95	39	170	3	5
01036	Bourne	4,201	88	6	3,289	98	130	126	449	1	14
01041	Brewster	1,851	40	3	1,132	98	143	109	292	30	4
01055	Chatham	2,723	42	1	1,725	167	228	170	366	8	16
01921	Cotuit	485	10	1	187	28	100	48	100	1	10
01920	C.O.M.M.	2,863	65	6	2,009	103	186	93	373	6	22
01075	Dennis	4,683	85	3	3,303	355	378	121	428	3	7
01086	Eastham	1,582	21	1	1,218	51	101	50	136	1	3
01096	Falmouth	139	52	0	0	29	8	2	47	1	0
01126	Harwich	4,013	66	3	3,089	164	185	151	350	2	3
01922	Hyannis	1,251	151	8	51	232	173	104	527	0	5
01936	Joint Base Cape Cod	718	13	0	82	100	289	2	231	0	1
01172	Mashpee	3,232	63	3	2,224	69	277	164	425	2	5
01224	Orleans	1,891	32	2	1,453	82	79	50	181	3	9
01242	Provincetown	141	22	1	5	19	12	14	68	0	0
01261	Sandwich	3,260	98	1	2,369	125	241	147	259	5	15
01300	Truro	2	2	0	0	0	0	0	0	0	0
01318	Wellfleet	1,047	24	0	698	28	141	57	99	0	0
01923	West Barnstable	630	22	0	393	23	114	27	46	2	3
01351	Yarmouth	3,060	80	3	1,929	123	149	378	390	2	6
<b>Total</b>	<b>Barnstable County</b>	<b>38,835</b>	<b>1,006</b>	<b>43</b>	<b>25,834</b>	<b>1,936</b>	<b>3,029</b>	<b>1,852</b>	<b>4,937</b>	<b>70</b>	<b>128</b>

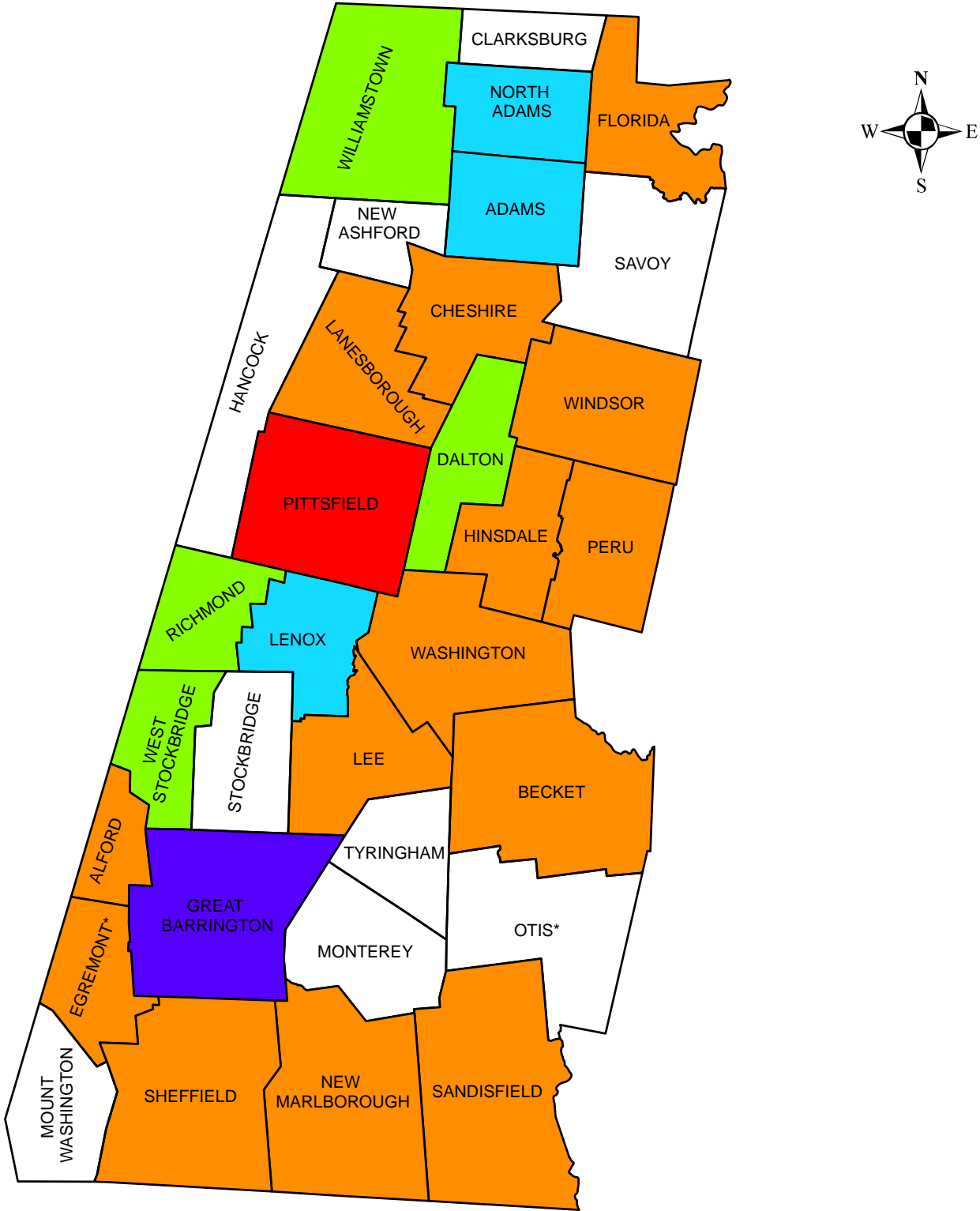
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



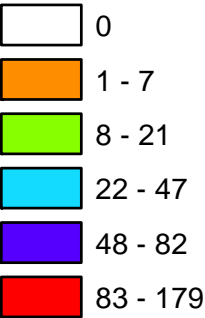
# Berkshire County

## 2014 Fire Data Analysis

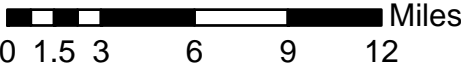
# Berkshire County Fires 2014



## 2014 Fires



\*Non-reporting Department



# Berkshire County Fires in 2014

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## **475 Total Fires — 293 Structures, 45 Vehicles & 137 Outside and Other Fires**

Berkshire County ranked tenth out of the fourteen Massachusetts counties in total reported fires. Berkshire County fire departments reported 475 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 293 structure fires, 45 motor vehicle fires, 51 brush, tree or lawn fires, 50 outside rubbish fires, 14 special outside fires, and 22 other fires caused 11 civilian injuries, 15 fire service injuries and an estimated dollar loss of \$6.2 million. Berkshire County's fires accounted for 2% of the 28,999 Massachusetts fires reported in 2014.

Thirty (30) of Berkshire County's 31 fire departments either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2014.

## **Structure & Outside & Other Fires Down Slightly**

The total number of reported fire incidents decreased by six from the 481 reported in 2013. Reported structure fires decreased by one from the 294 reported during the previous year. Motor vehicle fires increased by six from the 39 reported in 2013. Outside and other fires decreased by 11 from the 148 reported in 2013.

## **BERKSHIRE COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	481	294	39	148	13	6	0	7
2014	475	293	45	137	19	3	3	13

## **Fire and Fire Death Rates**

Berkshire County had 3.6 fires per 1,000 population. That figure ranks Berkshire County tied for tenth in the state and below the state rate of 4.4 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 0.08 fire deaths per 10,000 population.

## **0 Berkshire County Resident Died in a Fire**

There were no fatal fires in Berkshire County in 2014.

## **Sandisfield Had Berkshire County's Largest Loss Fire**

Berkshire County did not have any fires that reported a dollar loss over \$1 million. Sandisfield reported the incident that had the greatest dollar loss in Berkshire County in 2014. This fire was responsible for 13% of the total county fire loss in 2014.

- On September 9, 2014, at 5:29 a.m., the Sandisfield Fire Department was called to a fire of undetermined cause in a single-family home. No one was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from this fire were estimated to be \$827,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down Slightly**

The 293 structure fires caused nine civilian injuries, 15 fire service injuries and an estimated dollar loss of \$5.8 million. These incidents represented 62% of Berkshire County's reported fires in 2014. The average estimated dollar loss per structure fire was \$19,879. The total number of reported structure fires decreased by one, or less than 1%, from the 294 reported in 2013.

### **Arson Caused 1% of Structure Fires**

The three structure arsons caused an estimated dollar loss of \$83,000. Arson was indicated as the cause of 1% of the structure fires and 1% of Berkshire County's structure fire dollar loss. The three structure arsons accounted for 16% of the Berkshire County arson fires reported in 2014. The total number of reported structure arsons decreased by three from the six reported in 2013.

### **All 3 of Structure Arsons Occurred in Residences**

All three of Berkshire County's structure arsons occurred in residential occupancies in 2014.

## **BUILDING FIRES**

There were 292 building fires of different types in Berkshire County in 2014. These 292 building fires accounted for 99.7% of all structure fires in Berkshire County.

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

Two hundred and forty-four (244), or 84%, of Berkshire County's 292 building fires occurred in residential occupancies. Mercantile and business properties had 12 fires. Storage facilities had eight fires. Ten (10) fires took place in public assembly properties, including restaurants and churches. Nine (9) fires occurred at educational facilities. Eight (8) happened in storage facilities. Hospitals, prisons, and other institutional buildings experienced five fires. Industrial facilities and special properties, such as outbuildings or sheds, each had two fires in Berkshire County in 2014.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Up Slightly**

There were 244 reported residential building fires in Berkshire County in 2014. These 244 fires are an increase of one, or less than 1%, from the 243 residential building fires reported in 2013.

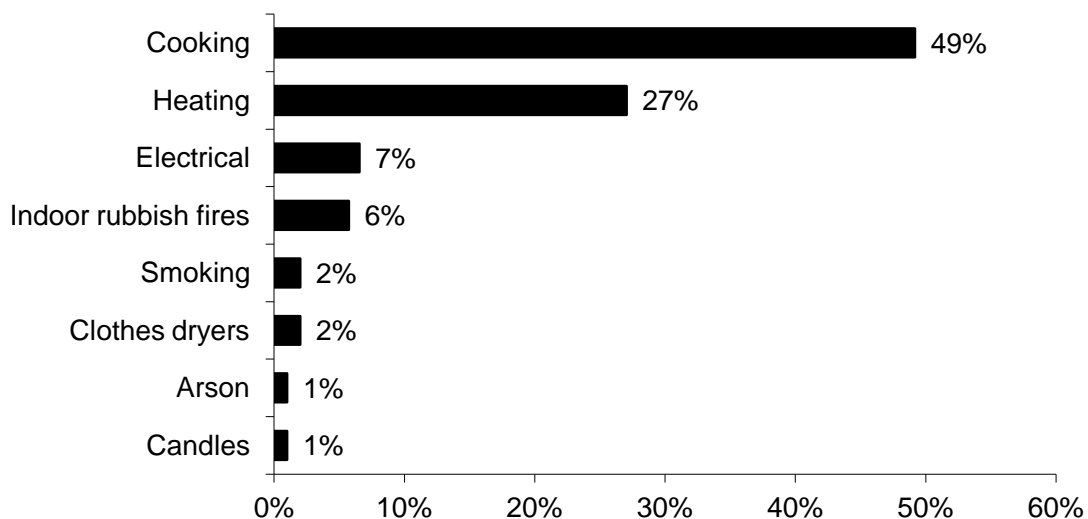
### 1- & 2-Family Homes Accounted for 59% of Residential Building Fires

The peak fixed property uses for residential building fires were one- or two-family homes, accounting for 59% of the building fires in Berkshire County; 34% occurred in apartments; 2% happened in dormitories; 1% occurred in hotels or motels; 1% occurred in residential board and care facilities; and 1% happened in rooming houses. Four (4), 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 27% of the residential building fires, of which 27, or 41%, were caused by chimney, fireplace or flue fires. Electrical fires caused 7% of the fires. Indoor rubbish fires caused 6%. Smoking and clothes dryers were each responsible for 2%; and arsons and candles each caused 1% of Berkshire County's residential building fires in 2014.

## 2014 Leading Causes of Fires in Berkshire County Homes



### 72% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

One hundred and seventy-six (176), or 72%, of these fires were confined to a non-combustible container. One hundred and twelve (112), or 46%, of all residential building

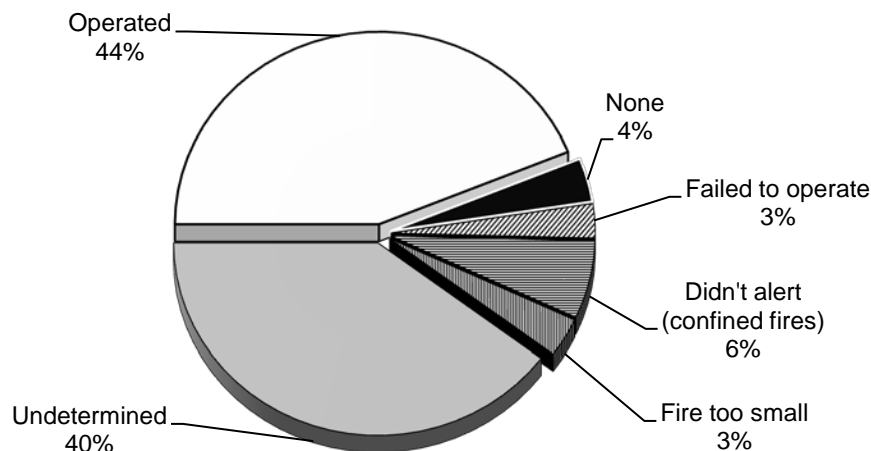
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

fires reported in 2014 were cooking fires contained to a non-combustible container. Fires confined to a fuel burner or boiler malfunction accounted for 27, or 11% of these fires. Twenty-three (23) of the reported fires were confined to a chimney, accounting for 9% of residential building fires. Fourteen (14), or 6%, of these fires.

### **Detectors Undetermined in 44% of Fires**

Smoke or heat detectors operated and alerted the occupants in 107, or 44%, of the residential building fires. In 6% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 97 incidents, or 40%, of Berkshire County's residential building fires.

### **Detector Status in Berkshire County's Residential Structure Fires 2014**



### **Over 1/2 Failed from Missing Batteries**

Of the seven fires where smoke detectors were present but failed to operate, four, or 57%, failed because the battery was either missing or disconnected. A dead battery, a power failure and improper installation were each the reason why a detectors failed in a residential fire in Berkshire County in 2014.

### **VACANT BUILDINGS**

#### **3% of Building Fires Occurred in Vacant Buildings**

Berkshire County reported nine fires that occurred in buildings that were vacant, under construction or demolition. This represented 3% of the total 292 building fires reported to

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

MFIRS in 2014. Three (3) one- or two-family homes, two apartment buildings, an unclassified residence, a warehouse, a parking garage and an outbuilding or shed were reported as vacant building fire incidents.

One (1), or 11%, of the vacant building fires in Berkshire County in 2014 was determined to be intentionally set. This was in an a single-family residence.

## **JUVENILE-SET FIRES**

### **4 Juvenile-set Fires**

There were four reported juvenile-set fires in Berkshire County in 2014. There was one structure fire and three brush fires. These four fires caused \$31,900 in estimated damages.

## **ARSONS**

### **19 Total Arsons — 3 Structure, 3 Vehicle & 13 Other Arsons**

Nineteen (19), or 4%, of Berkshire County's 475 fires were intentionally set, or, for purposes of this analysis, arson. The three structure arsons, three motor vehicle arsons and 13 outside and other arsons caused one fire service injury and an estimated dollar loss of \$99,800.

### **Motor Vehicle & Outside Arsons Up**

The total number of reported arson fires increased by six from the 13 reported in 2013. Reported structure arsons decreased by three from the six reported in 2013. Motor vehicle arsons increased by three from none reported in 2013. Reported outside and other arsons increased by six from the seven reported in 2013.

## **ALL INCIDENTS**

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

In 2014, Berkshire County fire departments reported 11,143 responses<sup>3</sup> to MFIRS. Of these 11,143 incidents, 10,594 non-fire incidents were voluntarily reported.

Of these 10,594 non-fire responses, 5,807, or 52%, of all the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 1,921, or 17%, were reported false alarm or false calls; 1,345, or 12%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 916, or 8%, were reported hazardous condition calls with no fire; 505, or 5%, were reported good intent calls; 48, or 0.4%, were special incident type calls such as citizen complaints; 40, or 0.4%, were severe weather responses; and 12, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

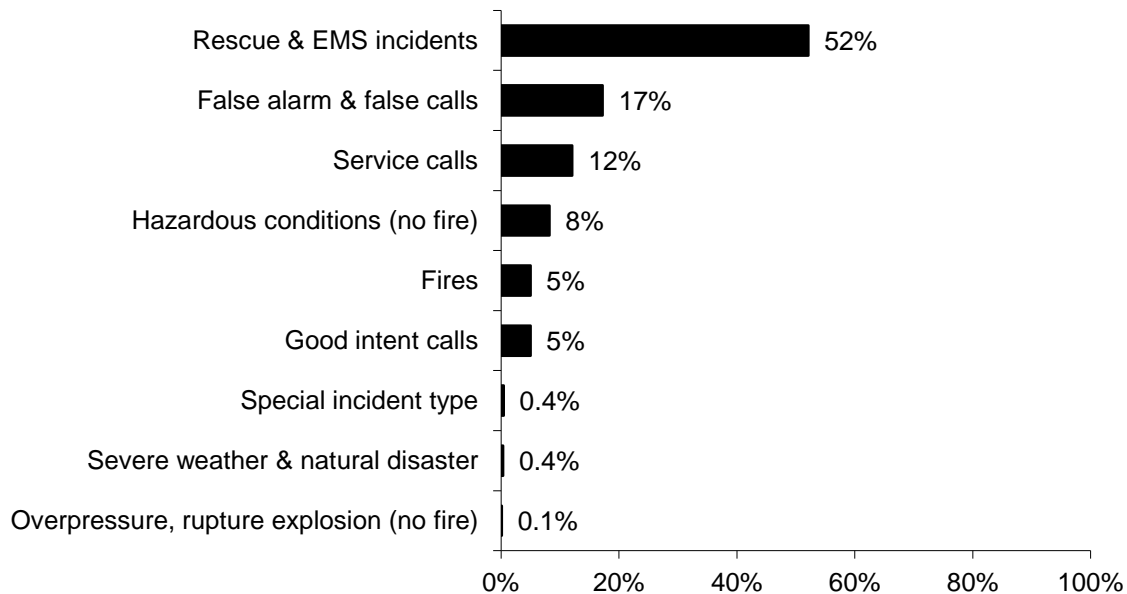
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<sup>3</sup> These figures include responses in which Berkshire County fire departments gave mutual aid to other fire departments.



Five hundred and forty-nine (549), or 5%, of the total responses submitted by Berkshire County fire departments were fires.

### 2014 Responses by Incident Type



#### Berkshire County Departments Reported Giving Mutual Aid 214 Times

In 2014, Berkshire County fire departments reported coming to the aid of other fire departments 214 times. Of these 214 responses, 70, or 33%, were for fires; 67, or 31%, were for rescue or EMS calls; 29 or 14%, were for service calls such as cover assignments; 20, or 9%, were good intent calls; 18, or 8%, were for false alarms; nine, or 4%, were for hazardous condition calls with no ensuing fire; and one, or 0.5%, was a special incident type.

#### Berkshire County Received Mutual Aid in 408 Incidents

In 2014, Berkshire County fire departments reported receiving aid from surrounding departments in 408 incidents. Of these 408 incidents, 342, or 84%, were rescue and emergency medical services calls; 42, or 10%, were for fires; eight, or 2%, were false alarms or false calls; another eight, or 2%, were hazardous conditions calls with no fire; seven, or 2%, were service calls; and one, or 0.2%, was a good intent call.

**Berkshire County****Population: 131,219****3.6 Fires/1,000 Population****Total Fires: 475 \$6,208,858**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	293	62%	\$5,824,608
Vehicle Fires	45	9%	340,600
Other Fires	137	29%	43,650

0 Fatal Fire 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Death 0.00 Civilian Deaths/10,000 Population  
 11 Civilian Injuries 15 Fire Service Injuries

**Building Fires: 292****Residential Structure Fires: 244****Residential Structure Fires Confined to Non-Combustible Containers: 176****Unconfined Residential Structure Fires: 68**

9 Civilian Injuries 15 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	143	59%	Operated	107	44%
Apartments	84	34%	Didn't operate	7	3%
Dormitories	4	2%	None	9	4%
Hotels or motels	3	1%	Fire too small	8	3%
Residential board & care	3	1%	Didn't alert (confined)	16	6%
Rooming houses		1%	Undetermined	97	40%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	51%	Radiated heat from op. eq.	4%	15%
Heating equipment room	12%	Heat from operating equip.	4%	15%
Chimney or flue	9%	Arcing	2%	9%
Substructure area, crawl space	2%	Lightning	2%	6%
Living room	2%	Cigarette	1%	3%
Wall assembly	2%	Candle	1%	3%

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	48%	Failure to clean	3%	10%
Flammable, combustible liquid	11%	Electrical failure/malfunc.	2%	7%
Film, residue (creosote)	9%	Unspec. short circuit arc	1%	4%
Rubbish, trash, waste	7%	Misuse of material or prod.	1%	3%
Struct. Component, finish, other	4%	Abandoned materials	1%	3%
Structural member, framing	2%	Improper container, storage	1%	3%
		Mechanical failure/malfunc.	1%	3%
		Storm	1%	3%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	48%	Unintentional	14%	51%
None	14%	Failure of eq. or heat source	4%	15%
Boiler, furnace, cent. heat unit	10%	Intentional	1%	3%
Chimney or flue	10%	Act of Nature	2%	6%
Clothes	2%	Undetermined	4%	15%
		Cause under investigation	3%	10%

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

Alerted occupants	44%
Didn't alert occupants	9%
Undetermined	47%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	33	24	3	6
February	40	30	6	4
March	43	35	4	4
April	59	15	4	40
May	19	10	3	6
June	45	28	7	10
July	42	24	4	14
August	37	29	1	7
September	36	20	6	10
October	26	14	3	9
November	53	31	2	20
December	42	33	2	7

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	76	51	3	22
Monday	67	34	8	25
Tuesday	71	44	13	14
Wednesday	64	44	6	14
Thursday	72	41	4	27
Friday	59	35	4	20
Saturday	66	44	7	15

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	20	16	0	40
04:01 - 08:00	33	22	3	8
08:01 - 12:00	84	59	11	14
12:01 - 16:00	119	57	15	47
16:01 - 20:00	159	96	12	51
20:01 - 00:00	60	43	4	13

### **Motor Vehicle Fires**

Total: 45

Automobiles: 35 (78%)

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

## Arson Fires

**Total Arsons: 19**

**Dollar loss: \$99,800**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	\$ Loss
Structure Arsons	3	1%	16%	83,000
Vehicle Arsons	3	7%	16%	5,300
Other Arsons	13	9%	68%	11,500

0.02 Structure arsons/1,000 population

0.02 Vehicle arsons/1,000 population

0.1 Other arsons/1,000 population

1 Fire Service Injury

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
04:01 - 08:00	1	33%	04:01 - 08:00	1	33%
08:01 - 12:00	1	33%	16:01 - 20:00	1	33%
20:01 - 00:00	1	33%	20:01 - 00:00	1	33%

Other Arsons	#	%
16:01 - 20:00	8	62%
12:01 - 16:00	3	23%
08:01 - 12:00	2	15%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	2	67%
1- and 2-Family homes	1	33%

**Adams** **Population: 8,405**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	29	22	2	5	0	0	0	0

**Alford** **Population: 494**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	1	0	1	0	0	0	0

**Becket** **Population: 1,779**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	3	3	0	0	0	0	0	0

**Cheshire** **Population: 3,235**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	0	1	1	0	0	0	0

**Clarksburg** **Population: 1,702**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	4	4	0	0	0	0	0	0
2011 <sup>10</sup>	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	1	0	0	0	0	0	0
2013 <sup>11</sup>	1	0	1	0	0	0	0	0
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Dalton** **Population: 6,756**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	14	0	7	2	0	0	2

**Egremont** **Population: 1,225**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	Fire Department in Good Standing, Certified No Reportable Fires							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	Non-Reporting Community							
2014	2	2	0	0	0	0	0	0

**Florida** **Population: 752**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	4	1	0	3	1	0	0	1

<sup>10</sup> In 2011 Clarksburg reported 5 fire calls, all these were mutual aid calls to other fire departments.

<sup>11</sup> In 2014 Clarksburg reported 3 fire calls, all these were mutual aid calls to other fire departments.

**Great Barrington****Population: 7,104**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	82	68	6	8	0	0	0	0

**Hancock****Population: 717**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Hinsdale****Population: 2,032**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	3	3	0	0	0	0	0	0

**Lanesborough****Population: 3,091**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	1	0	0	0	0	0	0



**Population: 5,943**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	5	1	4	0	0	0	0	0

**Population: 5,025**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	23	3	5	0	0	0	0

**Population: 961**

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

**Population: 228**

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

**New Marlborough****Population: 1,509**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	0	3	2	0	0	0	0

**North Adams****Population: 13,708**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	47	19	6	22	6	1	1	4

**Otis****Population: 1,612**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Non-Reporting Community							

**Peru****Population: 847**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	4	2	0	2	1	0	0	1
2011 <sup>12</sup>	Fire Department in Good Standing, Certified No Reportable Fires							
2012	7	2	1	4	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	7	3	1	3	0	0	0	0

<sup>12</sup> 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
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
2014	180	103	15	62	7	2	1	4

## Richmond

**Population: 1,475**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	10	4	2	4	0	0	0	0

## Sandisfield

**Population: 915**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	3	3	0	0	0	0	0	0

## Savoy

**Population: 692**[illegible]

**Sheffield** **Population: 3,257**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	3	2	0	1	0	0	0	0

**Stockbridge** **Population: 1,947**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Tyringham** **Population: 327**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Washington<sup>13</sup>** **Population: 7,754**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	Fire Department in Good Standing, Certified No Reportable Fires							
2011	Fire Department in Good Standing, Certified No Reportable Fires							
2012	1	0	0	0	0	0	0	0
2013	Fire Department in Good Standing, Certified No Reportable Fires							
2014	1	0	0	0	0	0	0	0

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

**West Stockbridge** **Population: 1,306**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	11	5	1	5	0	0	0	0

**Williamstown** **Population: 7,754**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	18	11	1	6	3	0	1	2

**Windsor** **Population: 899**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	6	4	0	2	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
03004	Adams	293	33	2	75	42	30	11	97	1	2
03006	Alford	2	2	0	0	0	0	0	0	0	0
03022	Becket	3	3	0	0	0	0	0	0	0	0
03058	Cheshire	260	2	1	201	14	14	9	17	0	2
03063	Clarksburg	3	3	0	0	0	0	0	0	0	0
03070	Dalton	914	26	0	630	37	58	43	105	11	4
03090	Egremont	6	3	0	2	0	0	0	1	0	0
03098	Florida	53	5	0	32	2	8	5	0	0	1
03113	Great Barrington	548	89	0	161	67	52	20	157	2	0
03121	Hancock*	0	0	0	0	0	0	0	0	0	0
03132	Hinsdale	3	3	0	0	0	0	0	0	0	0
03148	Lanesborough	49	1	0	32	2	1	5	4	0	4
03150	Lee	5	5	0	0	0	0	0	0	0	0
03152	Lenox	594	35	1	109	43	93	21	279	12	1
03193	Monterey*	0	0	0	0	0	0	0	0	0	0

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
03200	New Ashford*	0	0	0	0	0	0	0	0	0	0
03203	New Marlborough	157	11	0	84	10	1	6	45	0	0
03209	North Adams	1,181	48	2	247	154	310	89	311	3	17
03225	Otis**	0	0	0	0	0	0	0	0	0	0
03233	Peru	60	12	0	41	3	2	0	2	0	0
03236	Pittsfield	6,318	180	6	3,989	414	741	247	716	8	17
03249	Richmond	130	21	0	20	35	9	19	24	2	0
03260	Sandisfield	153	10	0	86	28	9	2	18	0	0
03263	Savoy*	0	0	0	0	0	0	0	0	0	0
03267	Sheffield	3	3	0	0	0	0	0	0	0	0
03283	Stockbridge*	0	0	0	0	0	0	0	0	0	0
03302	Tyringham*	0	0	0	0	0	0	0	0	0	0
03313	Washington	1	1	0	0	0	0	0	0	0	0
03326	West Stockbridge	126	22	0	64	9	4	0	26	1	0
03341	Williamstown	237	19	0	11	52	11	28	116	0	0
03345	Windsor	44	12	0	23	4	2	0	3	0	0
<b>Total</b>	<b>Berkshire County</b>	<b>11,143</b>	<b>549</b>	<b>12</b>	<b>5,807</b>	<b>916</b>	<b>1,345</b>	<b>505</b>	<b>1,921</b>	<b>40</b>	<b>48</b>

\* 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.

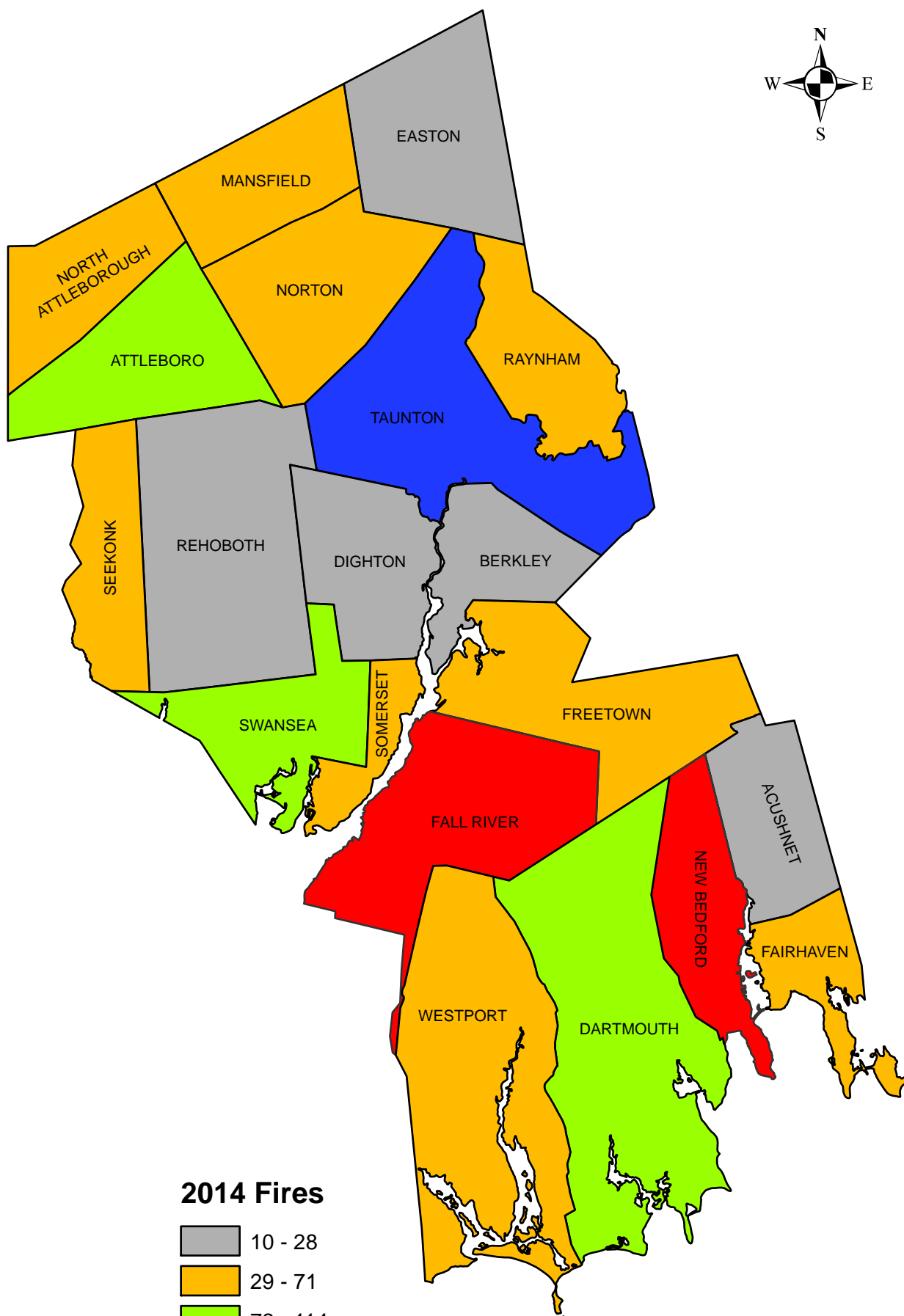
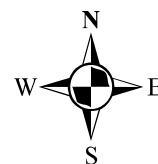


# Bristol County

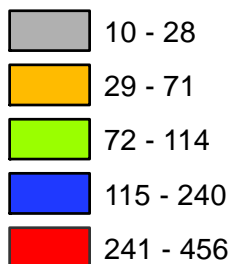
## 2014 Fire Data Analysis



# Bristol County Fires 2014



## 2014 Fires



0 1.25 2.5 5 7.5 10 Miles



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2014

# Bristol County Fires in 2014

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## **1,976 Total Fires — 847 Structures, 262 Vehicles & 867 Other Fires**

Bristol County ranked sixth out of the fourteen Massachusetts counties in total reported fires. The county reported 1,976 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 847 structure fires, 262 motor vehicle fires, 451 brush, tree or lawn fires, 251 outside rubbish fires, 62 special outside fires, two cultivated vegetation or crop fires, and 101 other fires caused five civilian deaths, 37 civilian injuries, 13 fire service injuries and an estimated dollar loss of \$16 million. Bristol County's fires accounted for 7% of the 28,999 Massachusetts fires reported in 2014.

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

## **All Fires Down**

The total number of reported fire incidents decreased by 30 from the 2,006 reported in 2013. Reported structure fires decreased by 31 from the 899 reported during the previous year. The total number of reported motor vehicle fires decreased by eight from the 270 incidents reported during 2013. Reported outside and other fires increased by 30 from the 837 reported the year before.

## **BRISTOL COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	899	270	837	90	31	4	55
2014	1,976	847	262	867	86	32	11	43

## **Fire and Fire Death Rates**

Bristol County had 3.6 fires per 1,000 population. That figure ranks Bristol County tied for tenth in the state and below the state rate of 4.4 fires per 1,000 population. Bristol County also had 0.09 fire deaths per 10,000 populations ranking it tied for fourth among Massachusetts counties and above the state rate of 0.08 fire deaths per 10,000 population.

## **5 Fires Kill 5 Bristol County Residents**

In 2014, five fires in Bristol County killed five people.

- On March 24, 2014, at 1:49 a.m., the Fall River Fire Department was dispatched to a fatal candle fire in a single-family home. A candle had ignited a chair in the living room. The victim, a 41-year old woman, was transported to a Rhode Island hospital where she succumbed to her injuries during the following week. No one else was injured at this fire. It was undetermined if alarms were present. The home did not have any sprinklers. Damages from this fire were estimated to be \$65,000.

- On April 15, 2014, at 8:26 a.m., the New Bedford Fire Department was called to a fatal arson fire in a single-family home. An incendiary device was ignited in a second floor bedroom. The victim, a 29-year old man, was physically restrained at the time of the fire. No one else was injured at this fire. It was undetermined if alarms were present. The home was not sprinklered. Damages from this fire were estimated to be \$40,000.
- On May 31 2014, at 10:48 a.m., the Dartmouth District #1 Fire Department was called to a fatal smoking fire in a single-family home. The victim was a 64-year old woman. The fire was caused by an abandoned cigarette in a bedroom on a non-upholstered chair. No one else was injured at this fire. Battery powered smoke alarms were present but failed to operate because of dead batteries. There were no sprinklers. Damages from this fire were estimated to be \$35,000.
- On September 18 2014, at 10:35 p.m., the North Attleboro Fire Department was called to a fatal smoking fire in a single-family home. The fire was caused by an abandoned cigarette on a living room sofa. The victim, a 39-year old man, was found in the kitchen with the faucet running. No one else was injured at this fire. It was undetermined if alarms were present There were no sprinklers. Damages from this fire were estimated to be \$99,500.
- On December 28, 2014, at 8:18 a.m., the Taunton Fire Department was called to a fatal smoking fire in a three-unit apartment building. The fire was started by a cigarette. The victim, a 48-year old man, was sleeping and was overcome while trying to return to the vicinity of the fire. There were no other injuries at this fire. Alarms were in the building and operated, but the home did not have any sprinklers. Damages from this fire were estimated to be \$110,000.

### **Fall River Has Bristol County's Largest Loss Fire**

In 2014 Bristol County had one incident with an estimated dollar loss over \$1 million. This one incident's dollar loss was responsible for 7% of the county's total 2014 dollar loss.

- On May 3, 2014, at 6:08 p.m., the Fall River Fire Department responded to a fire of at the Mesa 21 restaurant. The fire most likely began with a metal container filled with ashes and embers from the brick pizza oven that was left on a plastic pallet adjacent to the restaurant. The pallet began smoldering and then ignited a nearby plastic dumpster which in turn ignited the outside wall and moved to the roof. No one was injured at this fire. Alarms were present and alerted the occupants. The building did have sprinklers and they operated. Damages were estimated to be \$1.1 million. There were two exposure fires that had a combined total of \$10,800 in damages.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 847 structure fires caused all five civilian deaths, 34 civilian injuries, 12 fire service injuries and an estimated dollar loss of \$13.7 million. These incidents represented 43% of Bristol County's reported fires in 2014. The average estimated dollar loss per structure fire was \$16,178. The total number of reported structure fires decreased by 52, or 6%, from the 899 reported in 2013.

### **Structure Arsons Up 1**

The 32 structure arsons caused one civilian death, three civilian injuries and an estimated dollar loss of \$1.2 million. Arson was indicated as the cause of 4% of the structure fires and 9% of Bristol County's structure fire dollar loss. The 32 structure arsons accounted for 37% of the Bristol County arson fires reported in 2014. The total number of reported structure arsons increased by one from the 31 reported in 2013.

### **73% of Structure Arsons Occurred in Residences**

Seventy-three percent (73%) of Bristol County's 32 structure arsons occurred in residential occupancies. Public assembly properties accounted for 10%. Institutional facilities and storage facilities each accounted for 7% and special properties had 3% of these fires.

## **BUILDING FIRES**

There were 840 building fires of different types in Bristol County in 2014. These 840 building fires accounted for 99.1% of all building fires in Bristol County.

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

Seven hundred and eleven (711), or 85%, of Bristol County's 840 building fires occurred in residential occupancies. Mercantile and business properties had 33 fires. Twenty-six (26) fires took place in storage properties. Twenty-three (23) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings and manufacturing and processing facilities each experienced 13 fires. Educational facilities had eight fires. Special properties had seven fires. Three (3) fires occurred in industrial, utility, defense, agricultural or mining facilities in Bristol County in 2014. There were three building fires where the property use was undetermined or not reported.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

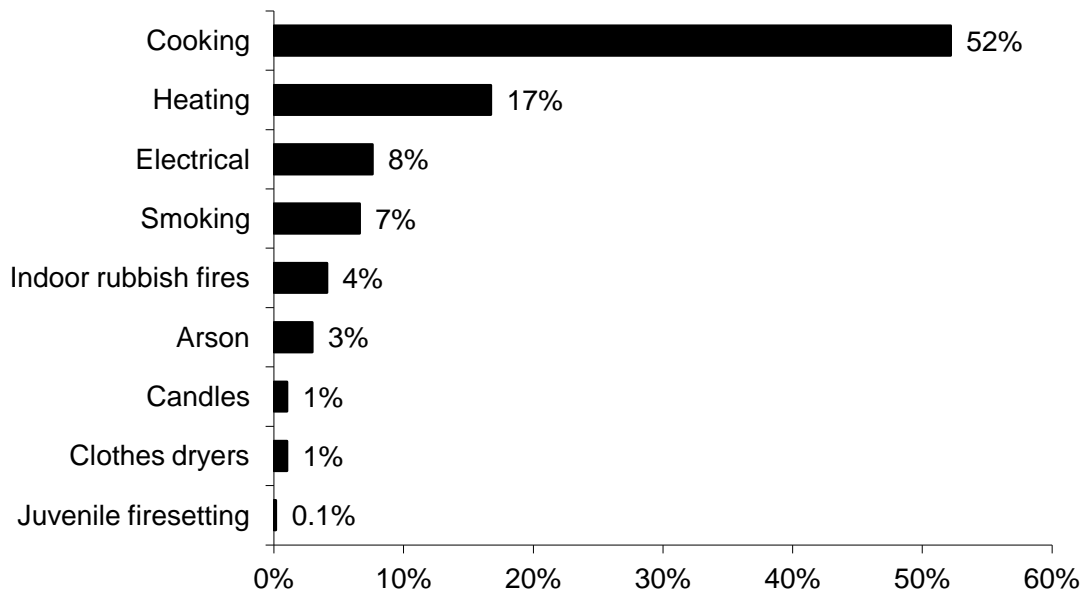
There were 711 reported residential building fires in Bristol County in 2014. These 711 fires are a decrease of 48, or 6%, from the 759 residential building fires reported in 2013.

**Apartments Accounted for 1/2 of Residential Building Fires**

The peak fixed property uses for residential building fires were apartments, accounting for 50% of the building fires in Bristol County; 46% occurred in 1- & 2-family homes; 1% occurred in residential board and care facilities; 1% happened in rooming houses; and less than 1% happened in hotels or motels. Seven (7), 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 52% of these fires. The second leading cause of residential building fires was heating equipment, accounting for 17%. Electrical problems caused 8% and smoking caused 7% of the fires in people's homes. Indoor rubbish fires were responsible for 4% of these fires. Arson caused 3%. Candles and clothes dryers each accounted for 1%. Juvenile-set fires accounted for less than 1% of Bristol County's residential building fires in 2014.

**2014 Leading Causes to Fires  
in Bristol County Homes**

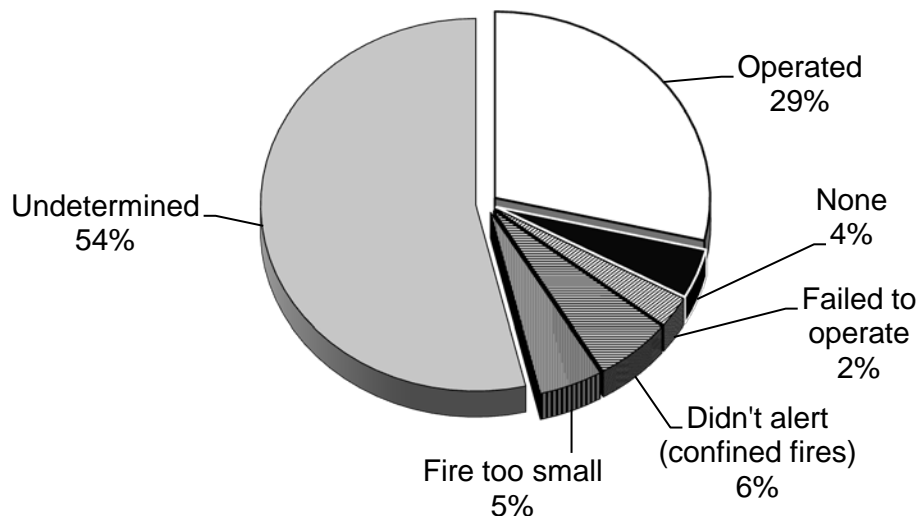
### 61% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Four hundred and thirty-six (436), or 61%, of all residential building fires were reported as confined to non-combustible containers in 2014. Three hundred and twenty-nine (329), or 46%, of all residential building fires reported in 2014 were cooking fires contained to a non-combustible container. Forty-three (43) of the reported fires were confined to a chimney, accounting for 6% of residential building fires. Thirty-six (36), or 5%, were fires confined to a fuel burner or boiler malfunction. Twenty-eight (28), or 4%, of these fires were rubbish fires in Bristol County in 2014.

### Detectors Alerted Occupants in Only 29% of Fires

Smoke or heat detectors operated and alerted the occupants in 204, or 29%, of the residential building fires. In 6% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 5% of the residential fires. Smoke detector performance was undetermined in 382 incidents, or 54%, of Bristol County's residential building fires.

### Detector Status in Bristol County's Residential Structure Fires 2014



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

Of the 19 fires where smoke detectors were present but failed to operate, three, or 16%, failed because the batteries were either missing or disconnected and two, or 11%, failed

<sup>1</sup> 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.

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

because of dead batteries. Two (2), or 11%, failed from a power failure, shutoff or disconnect. A lack of maintenance caused another two, or 11% of the detectors that failed to operate. It was undetermined or unclassified in 10 cases, or 53%, why the detectors failed to operate.

## **VACANT BUILDINGS**

### **4% of Building Fires Occurred in Vacant Buildings**

Bristol County reported 31 fires that occurred in buildings that were vacant, under construction or demolition. This represented 4% of the total 840 building fires reported to MFIRS in 2014. Nineteen (19) fires occurred in vacant residential properties. Six (6) vacant building fires occurred in storage facilities. Two (2) of these fires occurred in special properties. A public assembly property, a mercantile and business property and an industrial facility each had one of these fire incidents in Bristol County in 2014. One vacant building fire occurred in an unclassified property.

Nine (9), or 29%, of the vacant building fires in Bristol County in 2014 were determined to be intentionally set. Three (3) occurred in apartment buildings, and two occurred in one- or two-family homes. An unclassified public assembly property, an unclassified residential property, an unclassified vehicle storage property and an unclassified property each had a vacant arson in 2014.

## **JUVENILE-SET FIRES**

### **33 Juvenile-set Fires**

There were 33 reported juvenile-set fires in Bristol County in 2014. The two structure fires, 29 brush fires, one special outside fire, and one outside rubbish fire caused \$112,500 in estimated damages.

## **ARSONS**

### **86 Total Arsons — 32 Structures, 11 Vehicles & 43 Other Arsons**

Bristol County fire departments reported that 86, or 4%, of Bristol County's 1,976 fires were considered intentionally set, or, for purposes of this analysis, arson. The 32 structure arsons, 11 motor vehicle arsons and 43 outside and other arsons caused one civilian death, three civilian injuries and an estimated dollar loss of \$1.3 million.

### **Structure & MV Arsons Up Slightly**

The total number of reported arson fires decreased by four from the 90 reported in 2013. Structure arsons increased by one from 31 in 2013. Motor vehicle arsons increased by seven from the four reported last year. Outside and other arsons dropped by 12 from the 55 reported in 2013.

## ALL INCIDENTS

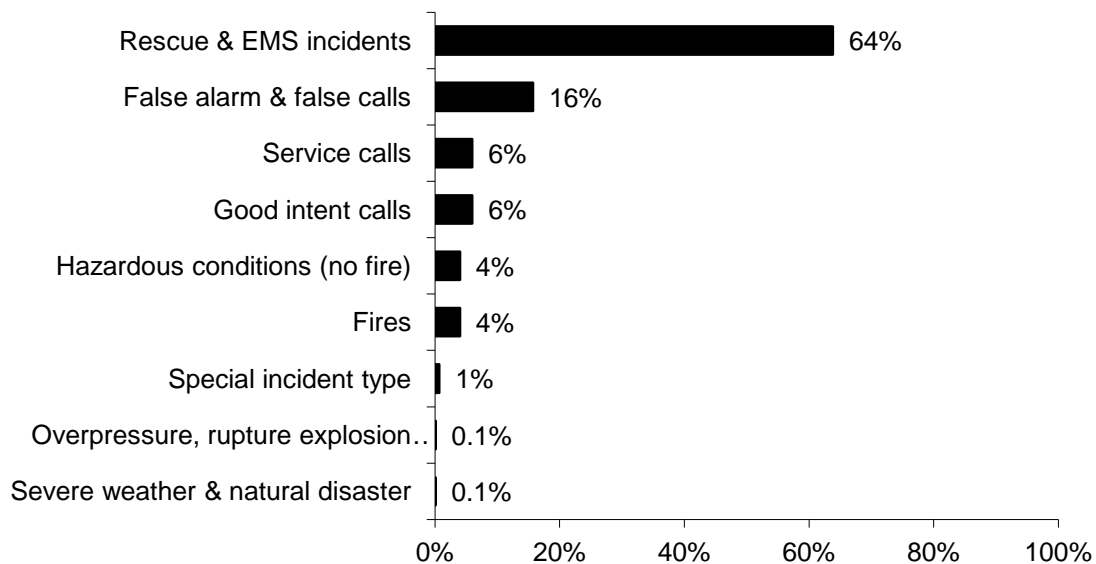
### Rescue & EMS Calls Are 64% of All Reported Responses

In 2014, fire departments in Bristol County reported 57,776 responses<sup>3</sup> to MFIRS. Of these 57,776 incidents, 55,714 non-fire calls were voluntarily reported.

Of these 55,714 non-fire calls, 36,881, or 64%, of all the reported responses were reported rescue and emergency medical services (EMS) calls; 9,086, or 16%, were reported false alarm or false calls; 3,625, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 3,340, or 6%, were reported good intent calls; 2,257, or 4%, were reported hazardous condition calls with no fire; 412, or 1%, were reported special incident type calls such as citizen complaints; 66, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 47, or 0.2%, were severe weather responses.

Two thousand and sixty-two (2,062), or 4%, of the total responses submitted by Bristol County fire departments were fires.

### 2014 Responses by Incident Type



<sup>3</sup> These figures include responses in which Bristol County fire departments gave mutual aid to other fire departments.



**Bristol County Fire Departments Gave Mutual Aid 1,463 Times**

In 2014, Bristol County fire departments reported coming to the aid of other fire departments 1,463 times. Of these 1,463 responses, 1,013, or 69%, were for rescue or EMS calls; 236, or 16%, were for good intent calls; 103, or 7%, were for service calls such as cover assignments; 85, or 6%, were for fires; 11, or less than 1%, were for hazardous conditions calls with no fire; nine, or 1%, were for false alarms or false calls; four, or less than 1%, were special incident types; and two, or less than 1%, were for overpressure, rupture, explosion or overheat calls with no fire.

**Bristol County Received Mutual Aid in 877 Incidents**

In 2014, Bristol County fire departments reported receiving aid from surrounding departments in 877 incidents. Of these 877 incidents, 731, or 83%, were rescue and emergency medical services calls; 76, or 9%, were for fires; 22, or 3%, were false alarms or false calls; 19, or 2%, were good intent calls; 13, or 1%, of the mutual aid received calls, were service calls; 12, or 1%, were hazardous conditions calls with no fire; two, or less than 1%, were for severe weather calls; one, or less than 1%, was an overpressure, rupture, explosion or overheat call with no fire; and one, or less than 1% was for a special incident.

**Bristol County****Population: 548,285****3.6 Fires/1,000 Population****Total Fires: 1,976 \$16,051,757**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	847	43%	\$13,702,806
Vehicle Fires	262	13%	1,705,148
Other Fires	867	44%	643,803

5 Fatal Fires 2.53 Civilian Deaths/1,000 Fires  
 5 Civilian Deaths 0.09 Civilian Deaths/10,000 Population  
 37 Civilian Injuries 13 Fire Service Injuries

**Building Fires: 840****Residential Structure Fires: 711****Residential Structure Fires Confined to Non-Combustible Containers: 436****Unconfined Residential Structure Fires: 275**

5 Civilian Deaths 31 Civilian Injuries 10 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	359	50%	Operated	204	29%
1- & 2-Family homes	327	46%	Didn't operate	19	3%
Residential board & care	8	1%	None	31	4%
Rooming houses	7	1%	Fire too small	34	5%
Hotels or motels	3	0.4%	Didn't alert (confined)	41	6%
			Undetermined	382	54%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	55%	Arcing	5%	14%
Chimney or flue	6%	Cigarettes	5%	12%
Heating room or area	5%	Heat from operating eq.	4%	10%
Bedroom	4%	Rad., cond. heat from op eq.	4%	10%
Living room	3%	Hot ember or ash	2%	5%
Exterior balcony, unencl. porch	3%			

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	49%	Abandoned materials	3%	7%
Film or residue (creosote)	6%	Too close to combustibles	2%	5%
Flammable or combust. liquid	5%	Failure to clean	2%	5%
Rubbish, trash, waste	5%	Electrical failure, malfunc.	2%	4%
Structural member, framing	4%	Misuse of mater. or product	1%	4%
Electrical wire, cable insulation	3%	Equipment unattended	1%	3%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	50%	Unintentional	25%	64%
None	21%	Failure of eq. or heat source	4%	9%
Chimney or flue	6%	Intentional	3%	7%
Boiler, furnace, cent. heat unit	6%	Cause under investigation	4%	9%
Electrical wiring, other	2%	Undetermined	4%	9%
Stove, heating	1%	Act of Nature	0.1%	0.4%

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

Alerted Occupants	21%
Didn't Alert Occupants	9%
Undetermined	70%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	115	65	29	21
February	104	72	13	19
March	168	90	19	59
April	202	70	22	110
May	199	58	32	109
June	213	56	27	130
July	226	71	29	126
August	199	72	17	110
September	180	71	17	92
October	95	50	14	31
November	150	90	20	40
December	125	82	23	20

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	299	140	28	131
Monday	296	116	40	140
Tuesday	279	112	44	123
Wednesday	274	120	30	124
Thursday	239	111	30	98
Friday	282	126	45	111
Saturday	307	122	45	140

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	119	67	22	30
04:01 - 08:00	122	47	33	42
08:01 - 12:00	330	152	46	132
12:01 - 16:00	554	207	52	295
16:01 - 20:00	566	247	65	254
20:01 - 24:00	285	127	44	114

### **Motor Vehicle Fires**

Total: 262

Automobiles: 207 (79%)

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

## Arson Fires

**Total Arsons: 86**

**Dollar loss: \$1,300,002**

### 0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	32	4%	37%	\$1,176,750
Vehicle Arsons	11	4%	13%	60,700
Other Arsons	43	5%	50%	62,552

0.06 Structure arsons/1,000 population

0.02 Vehicle arsons/1,000 population

0.08 Other arsons/1,000 population

1 Civilian Fire Death

3 Civilian Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
00:01 - 04:00	7	23%	00:01 - 04:00	4	36%
12:01 - 16:00	7	23%	20:01 - 00:00	3	27%
16:01 - 20:00	6	19%	12:01 - 16:00	2	18%
20:01 - 00:00	6	19%			

Other Arsons	#	%
16:01 - 20:00	13	30%
12:01 - 16:00	12	28%
20:01 - 00:00	9	21%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	15	44%
1- and 2-Family homes	4	13%
Residential, other	2	6%
Restaurant or cafeteria	2	6%

**Acushnet** **Population: 10,303**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	11	7	1	3	1	1	0	0

**Attleboro** **Population: 43,593**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	114	45	19	50	1	1	0	0

**Berkley** **Population: 6,411**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	5	4	1	0	0	0	0

**Dartmouth Fire Districts<sup>10</sup>** **Population: 34,032****Dartmouth District # 1***Est. Pop. Protected: 13,272*

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	17	5	9	0	0	0	0

<sup>10</sup> 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*

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010 <sup>11</sup>	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
2014 <sup>12</sup>	Fire Department in Good Standing							

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	77	19	17	41	2	0	1	1

**Dighton****Population: 7,086**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	8	3	4	0	0	0	0

**Easton****Population: 23,112**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	16	2	3	0	0	0	0

<sup>11</sup> In 2010, Dartmouth District #2 reported 1 service call.<sup>12</sup> In 2014, Dartmouth District #2 reported 8 calls.

**Fairhaven****Population: 15,873**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	55	22	8	25	4	0	0	4

**Fall River****Population: 88,857**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	414	232	45	137	19	12	1	6

**Freetown****Population: 8,870**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	44	20	11	13	2	2	0	0

**Mansfield****Population: 23,184**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	11	11	29	2	0	0	2



**New Bedford** **Population: 95,072**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	456	227	50	179	19	8	7	4

**North Attleboro** **Population: 28,712**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	42	16	6	20	1	1	0	0

**Norton** **Population: 19,031**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	49	40	6	33	3	0	1	2

**Raynham** **Population: 13,383**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	61	13	15	33	0	0	0	0

**Rehoboth****Population: 11,608**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	28	16	6	6	0	0	0	0

**Seekonk****Population: 13,722**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	59	10	5	44	0	0	0	0

**Somerset****Population: 18,165**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	41	14	3	24	0	0	0	0

**Swansea****Population: 15,865**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	86	38	15	33	0	0	0	0

**Taunton****Population: 55,874**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	240	77	26	137	24	7	1	16

**Westport****Population: 15,532**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	71	25	4	42	8	0	0	8

## 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	381	12	0	143	70	85	11	56	1	3
05016	Attleboro	6,585	121	8	4,646	170	427	415	778	1	19
05027	Berkley	570	15	0	432	8	17	33	65	0	0
05972	Dartmouth #1	382	31	5	22	43	45	24	185	27	0
05973	Dartmouth #2	8	0	0	2	1	2	1	2	0	0
05974	Dartmouth #3	652	85	4	114	57	100	60	229	2	1
05076	Dighton	209	24	0	36	29	7	19	93	1	0
05088	Easton	25	21	1	1	2	0	0	0	0	0
05094	Fairhaven	2,950	56	6	2,300	126	107	80	269	2	4
05095	Fall River	5,011	417	3	1,890	439	243	409	1,576	2	32
05102	Freetown	1,154	51	10	762	20	94	134	76	0	7
05167	Mansfield	2,770	51	1	1,883	96	217	138	354	0	30
05201	New Bedford	13,864	456	10	9,587	356	505	859	2,071	2	18
05211	North Attleboro	3,833	52	7	2,545	164	400	138	520	0	7
05218	Norton	2,680	52	0	1,660	102	281	35	391	0	159
05245	Raynham	820	73	4	144	42	77	99	363	0	18

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	458	31	1	138	66	59	37	125	1	0
05265	Seekonk	2,673	60	2	1,728	63	98	200	512	0	10
05273	Somerset	2,982	41	1	2,412	66	159	173	124	0	6
05292	Swansea	414	94	0	20	87	48	50	112	2	1
05293	Taunton	8,885	242	3	6,363	203	585	355	1,038	2	94
05334	Westport	470	77	0	53	47	69	70	147	4	3
	<b>Bristol County</b>	<b>57,776</b>	<b>2,062</b>	<b>66</b>	<b>36,881</b>	<b>2,257</b>	<b>3,625</b>	<b>3,340</b>	<b>9,086</b>	<b>47</b>	<b>412</b>

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.

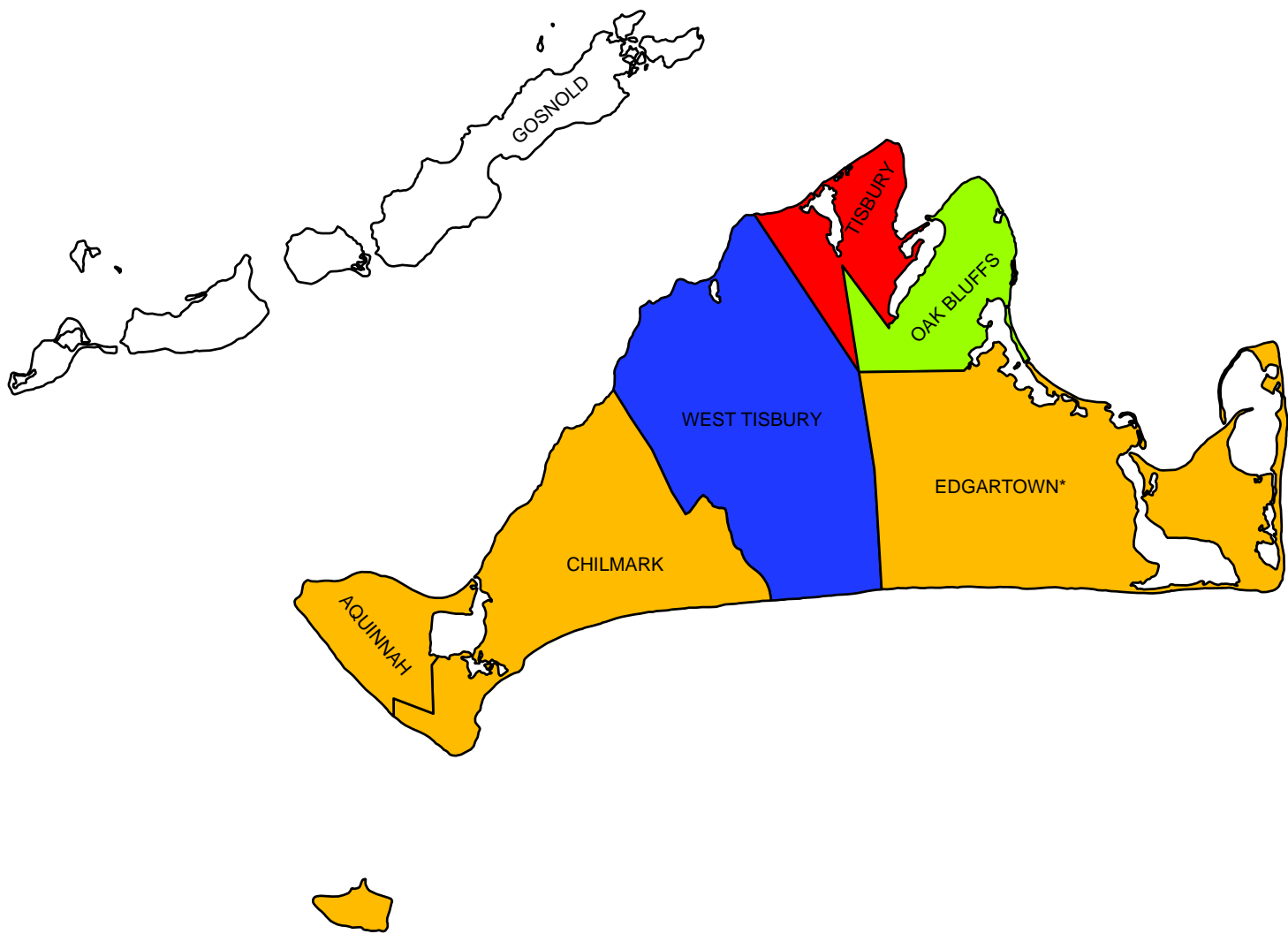


# Dukes County

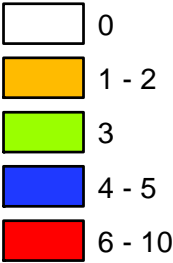
## 2014 Fire Data Analysis

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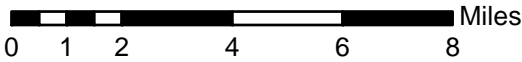
# Dukes County Fires 2014



## 2014 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System



# Dukes County Fires in 2014

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## **22 Total Fires — 10 Structures, 1 Vehicles Fires & 11 Outside & Other Fires**

Dukes County ranked last out of the fourteen Massachusetts counties in total fires. Dukes County fire departments reported 22 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2013. The reported 10 structure fires, one motor vehicle fire, two brush fires, two outside rubbish fires, and six unclassified fires caused one fire service injury and an estimated dollar loss of \$237,602. Dukes County's fires accounted for 0.1% of the 29,828 Massachusetts fires reported in 2014.

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 2014.

## **All Fires Down**

The total number of reported fire incidents decreased by 20 from the 42 reported in 2013. Reported structure fires decreased by five from the 15 reported in 2013. Motor vehicle fires decreased by six from the seven reported the previous year. Outside and other fires decreased by nine from the 20 reported in 2013.

## **DUKES COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	42	15	7	20	1	0	0	1
2014	22	10	1	11	1	0	0	1

## **Fire and Fire Death Rates**

Dukes County had 1.3 fires per 1,000 population. That figure ranks Dukes County last in the state and below the state rate of 4.4 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 0.08 fire deaths per 10,000 population.

## **Tisbury Had Dukes County Largest Loss Fire**

- On December 27, 2014, at 12:22 p.m., the Tisbury Fire Department responded to a fire in a single-family home of undetermined cause. No one was injured at this fire. Alarms were present but it was undetermined if they operated. The home did not have sprinklers. Damages were estimated at \$120,000 for this fire.



## **STRUCTURE FIRES**

### **Reported Structure Fires 45% of All Reported Fires**

There were 10 reported structure fires in Dukes County in 2014. These incidents represented 45% of Dukes County's reported fires in 2014 and the entire county's reported dollar loss. The total number of reported structure fires decreased by five, or 33%, from the 15 reported in 2013.

### **0 Reported Structure Arson in 2014**

There was no reported structure arson in Dukes County in 2014

## **BUILDING FIRES**

There were 10 building fires of different types in Dukes County in 2014. These 10 building fires accounted for all of the structure fires in Dukes County.

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

Eight (8), or 80%, of Dukes County's 10 building fires occurred in residential occupancies. Two (2) fires occurred in storage facilities.

## **RESIDENTIAL FIRES**

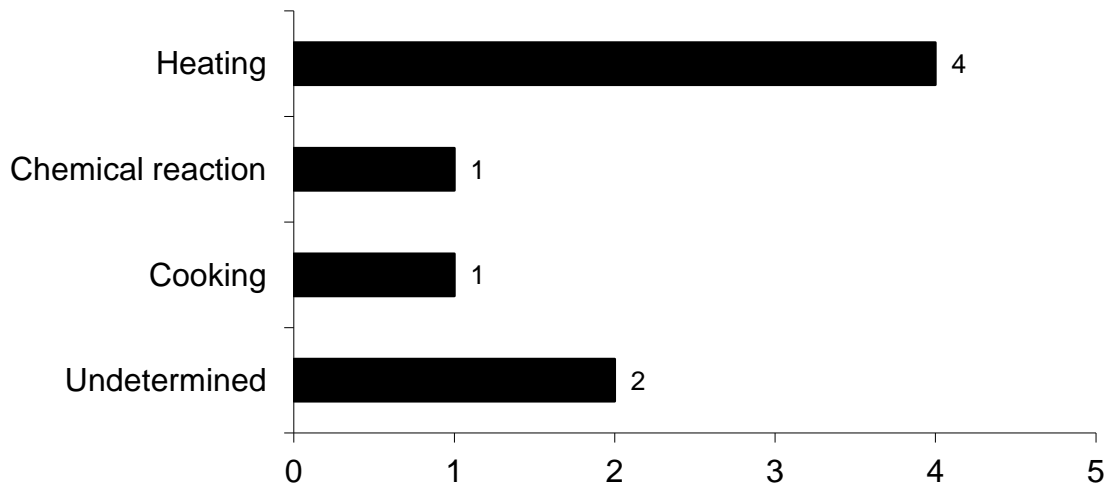
### **8 Residential Building Fires**

There were eight reported residential building fires in Dukes County in 2014. These eight fires are a decrease of four, or 33%, from the 12 residential building fires reported in 2013. They caused \$160,502 in estimated damages.

### **Heating Was the Leading Cause of Residential Fires**

Fires caused by heating equipment were the leading cause of residential building fires in Dukes County in 2014. All four of these heating fires were chimney fires. A cooking fire and a chemical reaction of oily rags were each the cause of one, or 13%, of the fires in Dukes County in 2014. The cause of the other two residential fires was undetermined.

### 2014 Leading Causes of Fires in Dukes County Homes



#### 5 Residential Building Fires Were Confined to Non-Combustible Containers<sup>1</sup>

Five (5), or 63%, of the reported fires in Dukes County were confined to a non-combustible container. Four, or 50%, of these fires were confined to a chimney or flue and one, or 13%, was a confined cooking fire.

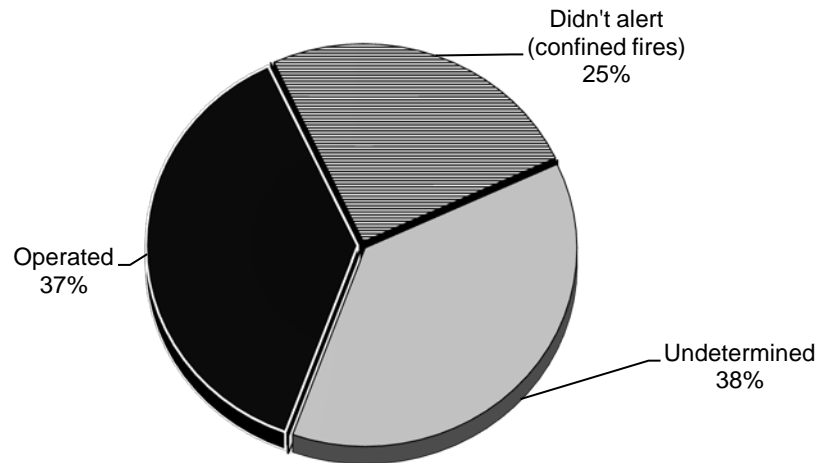
#### Detectors Operated in 34% of Fires

Smoke or heat detectors operated and alerted the occupants in three, or 37%, of the residential building fires. In two, or 25%, of these fires<sup>2</sup>, 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. There were no reported fires where the fire was too small to activate the detector. Smoke detector performance was undetermined in three incidents, or 38%, of Dukes County's residential building fires.

<sup>1</sup> 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.

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

## Detector Status in Dukes County's Residential Fires 2014



### VACANT BUILDINGS

#### 1 Vacant Building Fires

There was one reported fire in a single family home that was vacant in Dukes County in 2014.

### JUVENILE-SET FIRES

#### No Juvenile-set Fires

There were no reported juvenile-set fires in Dukes County in 2014.

### ARSONS

#### 1 Outside Arson

There was one reported arson in Dukes County in 2014. The one brush fire was the same number of reported arsons in Dukes County in 2013.

## ALL INCIDENTS

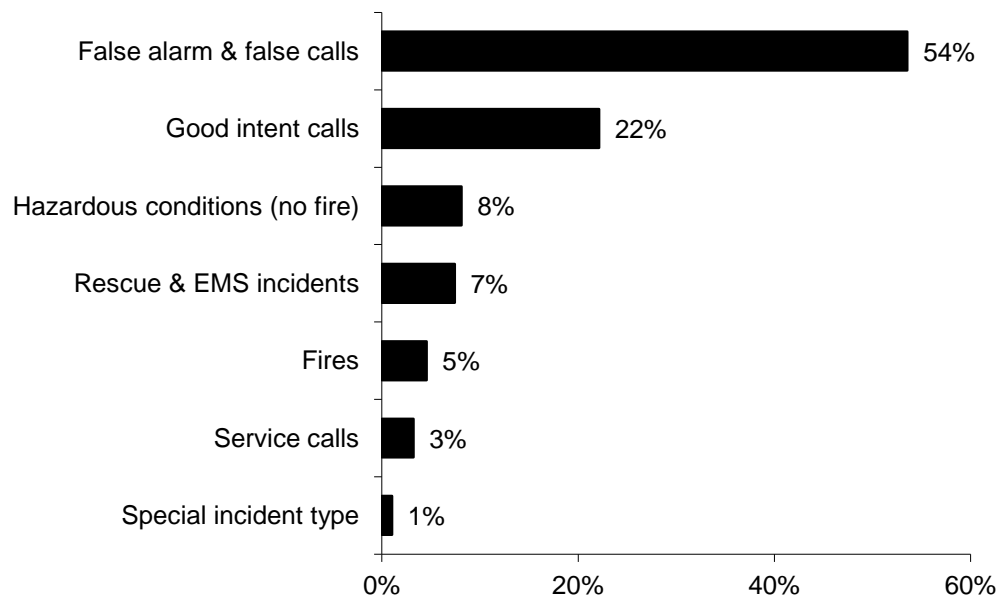
### False Alarms Are Over 1/2 of All Reported Responses

In 2014, Dukes County fire departments reported 592 responses<sup>3</sup> to MFIRS. Of these 592 incidents, 565 non-fire calls were voluntarily reported.

Of these 565 non-fire calls, 317, or 54%, were reported false alarm or false calls; 131, or 22%, were reported good intent calls; 48, or 8%, were reported hazardous condition calls with no fire; 44, or 7%, of all of the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 19, or 3%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; and six, or 1%, were special incident types.

Twenty-seven (27), or 5%, of the total incidents submitted by Dukes County fire departments were fires.

### 2013 Incidents by Incident Type



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

**Dukes County Fire Departments Gave Mutual Aid 13 Times**

In 2014, Dukes County fire departments reported coming to the aid of other fire departments 13 times. Of these responses, five, or 38%, were for fires; five, or 38%, were for good intent calls; and three, or 23%, were service calls.

**Dukes County Fire Departments Received Mutual Aid in 24 Incidents**

In 2014, Dukes County fire departments reported receiving aid from surrounding departments in 24 incidents. Eighteen (18), or 75%, were for false alarms or false calls; two (2), or 8%, of these incidents were for fires; one, or 4%, was for a rescue or EMS call; one, or 4%, was a good intent call; one, or 4%, was for a service call; and one, or 4%, was a hazardous condition call without any fire.

**Dukes County****Population: 16,535****1.3 Fires/1,000 Population****Total Fires: 22 \$237,602**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	10	45%	\$236,502
Vehicle Fires	1	5%	0
Other Fires	11	50%	1,100

1 Fire Service Injury

**Building Fires: 10****Residential Structure Fires: 8****Residential Structure Fires Confined to Non-Combustible Containers: 5****Unconfined Residential Structure Fires: 3**

No Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	7	87%	Operated	3	38%
Rooming houses	1	13%	Didn't operate	0	0%
			None	0	0%
			Fire too small	0	0%
			Didn't alert (confined)	2	25%
			Undetermined	3	38%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Chimney or flue	50%	Chemical reaction	13%	33%
Kitchen	25%			
Living room	13%			
Entrance way, lobby	13%			

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Film, residue (creosote)	50%	Abandoned materials	13%	33%
Cooking materials	13%	Failure to clean	13%	33%
Oily rags	13%	High wind	13%	33%
Exterior sidewall covering	13%			

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Chimney or flue	50%	Unintentional	25%	67%
None	37%	Failure of eq. or heat source	0%	0%
Kitchen & cooking equipment	13%	Undetermined	0%	0%
		Cause under investigation	13%	33%

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

Alerted occupants	60%
Didn't alert occupants	40%
Undetermined	0%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	2	1	0	1
February	1	0	0	1
March	2	1	0	1
April	4	2	0	2
May	1	0	0	1
June	2	1	0	1
July	2	0	0	2
August	1	0	0	1
September	1	1	0	0
October	1	1	0	0
November	3	2	0	1
December	2	1	1	0

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

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

### **Motor Vehicle Fires**

Total: 1

Automobiles: 1 (100%)

0 (0%) of the automobile fires were incendiary in 2014.



**Arson Fires****Total Arsons: 1****Dollar loss: \$0****0.12 Arson Fires/1,000 Population**

<b>Situation</b>	<b>Arsons</b>	<b>% Situation</b>	<b>% Arson</b>	<b>Loss</b>
Structure Arsons	0	0%	0%	\$0
Vehicle Arsons	0	0%	0%	0
Other Arsons	1	9%	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:**

<b>Structure Arsons</b>	<b>#</b>	<b>%</b>	<b>Vehicle Arsons</b>	<b>#</b>	<b>%</b>
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<b>Other Arsons</b>	<b>#</b>	<b>%</b>
16:01 – 20:00	1	100%

<b>Peak Fixed Property Uses for Structure Arsons</b>	<b>#</b>	<b>%</b>
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**Oak Bluffs****Population: 4,067**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	2	0	1	0	0	0	0

**Tisbury****Population: 3,959**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	7	0	3	0	0	0	0

**West Tisbury****Population: 2,740**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	0	1	4	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	3	1	0	0	0	0	0	2	0	0
07062	Chilmark	1	1	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	56	3	0	0	3	4	7	39	0	0
07296	Tisbury	333	15	0	29	38	13	38	199	0	1
07327	West Tisbury	197	5	0	15	7	2	86	77	0	5
<b>Total</b>	<b>Dukes County</b>	<b>592</b>	<b>27</b>	<b>0</b>	<b>44</b>	<b>48</b>	<b>19</b>	<b>131</b>	<b>317</b>	<b>0</b>	<b>6</b>

\* Certified no reportable fires.

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.

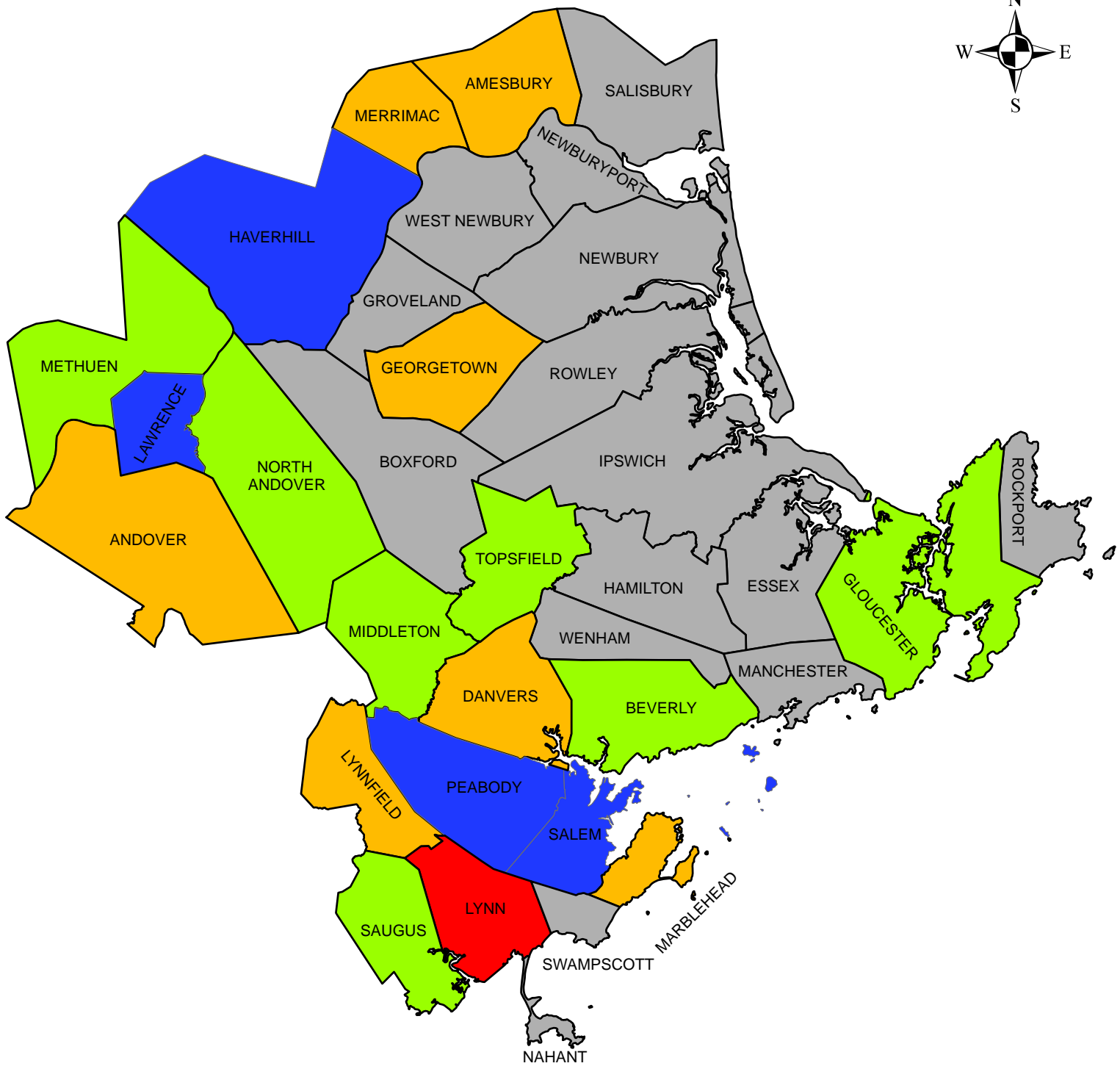


# Essex County

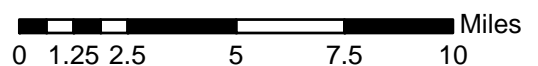
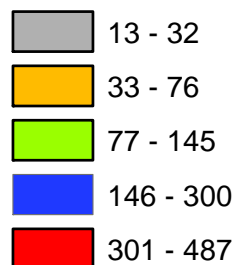
## 2014 Fire Data Analysis

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# Essex County Fires 2014



## 2014 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2014

# Essex County Fires in 2014

## 2,854 Total Fires — 1,635 Structures, 244 Vehicles & 975 Other Fires

Essex County ranked fifth out of the fourteen Massachusetts counties in total reported fires. The county reported 2,854 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 1,635 structure fires, 244 motor vehicle fires, 526 brush, tree or lawn fires, 240 outside rubbish fires, 83 special outside fires, four cultivated crop or vegetation fires, and 122 other fires caused eight civilian deaths, 29 civilian injuries, 88 fire service injuries and an estimated dollar loss of \$25 million. Essex County's fires accounted for 10% of the 28,999 Massachusetts fires reported in 2014.

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 2014.

## Structure Fires Up

The total number of reported fire incidents decreased by 98 incidents from the 2,952 that were reported in 2013. Reported structure fires increased by 123 from the 1,512 reported during the previous year. The total number of motor vehicle fires decreased by 24 from the 268 incidents reported during 2013. Reported outside and other fires decreased by 197 from the 1,172 reported the year before.

## ESSEX COUNTY FIRES FROM 2010 TO 2014

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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	2,952	1,512	268	1,172	111	21	10	80
2014	2,854	1,635	244	975	79	12	7	60

## Fire and Fire Death Rates

Essex County had 3.8 fires per 1,000 population. That figure ranks Essex County seventh in the state and below the state rate of 4.6 fires per 1,000 population. Essex County had 0.11 fire deaths per 10,000 population making it third among Massachusetts counties and above the state rate of 0.08 deaths per 10,000 population.

## 8 Residents Died in 5 Essex County Fires

In 2014 there were five fatal fires in Essex County that killed eight people.<sup>1</sup>

- On February 26, 2014, at 3:10 a.m., the Methuen Fire Department responded to a fatal heating fire at a single-family home. The cause of the fire was the ignition of

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

combustible materials too close to the fireplace. The victims, an 82-year old man and his 78-year old wife, were asleep at the time of the fire and were overcome by the heat and smoke when they attempted to escape. No one else was injured at this fire. It was undetermined if alarms were present, and the building was not sprinklered. Damages from this fire were not estimated.

- On April 14, 2014, at 3:35 a.m., the Methuen Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire originated in the first floor living room where the victim, a 48-year old woman, was asleep at the time of the fire. No one else was injured at this fire. An alarm that was on a piece of furniture was present and operated. The building was not sprinklered. Damages from the blaze were not estimated.
- On October 19, 2014, at 6:04 p.m., the Middleton Fire Department was called to a fatal motor vehicle crash with ensuing fire. The car, a Ferrari 458 Italia, crashed into a tree and ignited. Neither the driver nor his passengers were able to escape the car. The victims, a 50-year old man and a 40-year old man died at the scene. Damages were estimated to be \$257,000.
- On October 21, 2014, at 3:40 a.m., the Lawrence Fire Department was called to a fatal electrical fire in a six-unit apartment building. The fire was started by arcing of a circuit in the ceiling and floor assembly. The victims, a 4-year old boy and his 9-year old brother were sleeping and trapped by the fire. One (1) civilian and two firefighters were injured at this fire. It was undetermined if alarms were present. There were no sprinklers. The fire caused an estimated \$525,000 worth of damage.
- On November 11, 2014, at 3:11 a.m., the Danvers Fire Department was dispatched to a fatal motor vehicle fire in a parking lot at the Double Tree Hotel. The victim, a 45-year old man, parked his car and ignited it in a suicide attempt. No one else was injured at this fire. Damages from this fire were estimated to be \$11,000.

#### **Marblehead Had Largest Loss Fire in 2014**

In 2014, Essex County had three fires that were considered large loss, or greater than \$1 million in estimated damages. These three fires caused \$5 million in combined loss account for 20% of all dollar loss for the county in 2014.

- On June 12, 2014, at 11:54 p.m., the Marblehead Fire Department was dispatched to an electrical fire at a yacht club. There were no injuries at this fire. Alarms were present and operated. The building had sprinklers and operated. Damages from this fire were estimated to be \$3 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 1,635 structure fires caused five civilian deaths, 23 civilian injuries, 81 fire service injuries and an estimated dollar loss of \$21.8 million. These incidents represented 57% of Essex County's reported fires in 2014. The average estimated dollar loss per structure fire



was \$13,337. The total number of reported structure fires increased by 123, or 8%, from the 1,512 reported in 2013.

#### **Arson Caused 1% of Structure Fires**

The 12 structure arsons caused five fire service injuries and an estimated dollar loss of \$791,500. Arson was indicated as the cause of 1% of the structure fires and 4% of Essex County's structure fire dollar loss. The 12 structure arsons accounted for 15% of the Essex County arson fires reported in 2014. The number of reported structure arsons decreased by nine from the 21 reported in 2013.

#### **Over 1/2 of Structure Arsons Occurred in Residences**

Fifty-eight percent (58%) of Essex County's 12 structure arsons occurred in residential occupancies. Seventeen percent (17%) took place in educational facilities and storage facilities also accounted for 17% of these arsons. Eight percent (8%) of Essex County's structure arsons in 2014 were in institutional facilities.

### **BUILDING FIRES**

There were 1,629 building fires of different types in Essex County in 2014. These 1,629 building fires accounted for 99.3% of all structure fires in Essex County.

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

One thousand four hundred and four (1,404), or 86%, of Essex County's 1,629 building fires occurred in residential occupancies. Mercantile and business properties had 61 fires. Hospitals, prisons, and other institutional buildings experienced 47 fires. Forty (40) fires took place in public assembly properties, including restaurants and churches. Twenty-one (21) fires took place in storage properties. Seventeen (17) fires took place in manufacturing and processing facilities. Fifteen (15) building fires took place on educational properties. Fourteen (14) building fires in Essex County occurred in special properties such as outbuildings, bus stop shelters and toll booths. Three (3) fires happened in industrial facilities, and two fires occurred in unclassified properties in Essex County in 2014.

### **RESIDENTIAL FIRES**

#### **Residential Building Fires Up in 2014**

There were 1,404 reported residential building fires in Essex County in 2014. These 1,404 fires are an increase of 131, or 10%, from the 1,273 residential building fires reported in 2013.

#### **Apartments Accounted for 49% of Residential Building Fires**

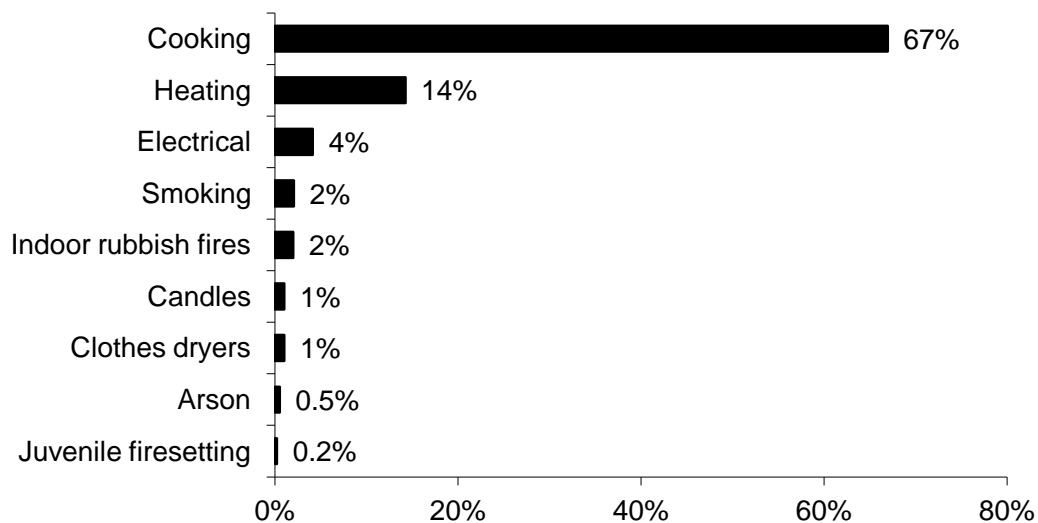
The peak fixed property uses for residential building fires were apartments accounting for almost half, or 49%, of the building fires in Essex County; 43% occurred in 1- and 2-family homes; 3% happened in rooming houses; 1% took place in residential board and care facilities, 1% occurred in dormitories; and 1% happened in hotels or

motels. Thirty-three (33), 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 caused 4%. Smoking and indoor rubbish fires each caused 2% of these fires. Candles and clothes dryers each caused 1% of these fires; and arson and juvenile-set fires each caused less than 1% of the fires in people's homes in Essex County in 2014.

### **2014 Leading Causes of Fires in Essex County Homes**



### **76% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>**

One thousand and seventy-four (1,074), or 76%, of all residential building fires were reported as confined to non-combustible containers in 2014. Eight hundred and eighty-eight (888), or 63%, of all residential building fires reported in 2014 were cooking fires contained to a non-combustible container. One hundred and one (101), or 7%, were fires confined to a fuel burner or boiler malfunction. Fifty-seven (57) of the reported fires were confined to a chimney, accounting for 4% of residential building fires. Twenty-six (26), or 2%, of these fires were rubbish fires contained to a non-combustible container. There was one reported incinerator overload or malfunction and one confined commercial

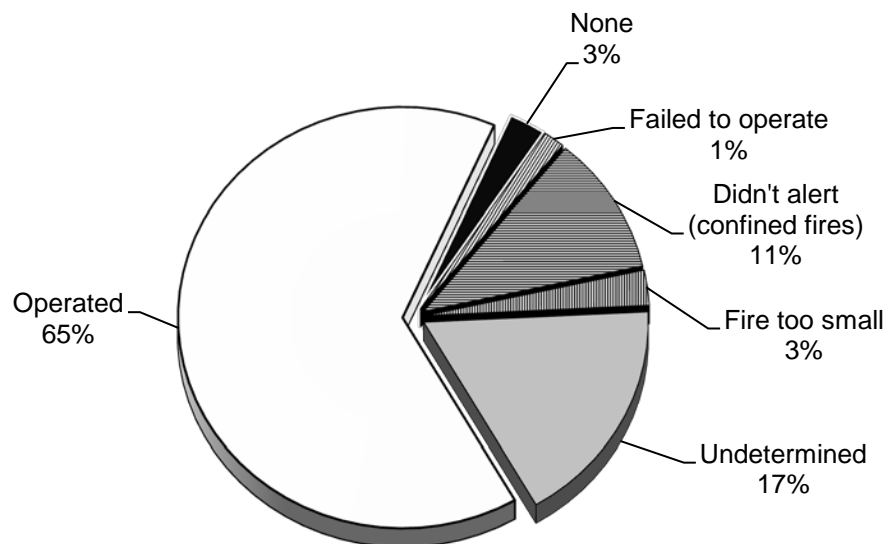
<sup>2</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

compactor fire, each accounting for less than 1% of Essex County's residential fires in 2014.

### **Detectors Operated in 65% of Fires**

Smoke or heat detectors operated and alerted the occupants in 913, or 65%, of the residential building fires. In 11% of these fires<sup>3</sup>, 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 3% of the residential fires. Smoke detector performance was undetermined in 245 incidents, or 17%, of Essex County's residential building fires.

### **Detector Status in Essex County's Residential Structure Fires 2014**



### **5 Failed Detectors Had Missing or Dead Batteries**

Of the 22 fires where smoke detectors were present but failed to operate, four, or 18%, failed because the batteries were either missing or disconnected. One (1), or 5%, did not operate because of dead batteries. One (1), or 5%, failed because of power failures, shutoffs or disconnects. One (1) detector, or 5%, failed because of improper installation or placement. Another detector, or 5%, failed from a lack of maintenance. It was undetermined or unclassified in 14 cases, or 64%, why the detectors failed to operate.

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<sup>3</sup> 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**

Essex County reported 30 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 1,629 building fires reported to MFIRS in 2014. Eighteen (18) fires occurred in vacant residential properties. Storage facilities accounted for six vacant building fire incidents. Vacant manufacturing or processing facilities had three fires. Public assembly facilities, educational facilities and mercantile or business facilities each had one vacant building fire incident in Essex County in 2014.

Three (3) of the vacant building fires in Essex County in 2014 were determined to be intentionally set. One (1) single-family home, one unclassified storage facility and one unclassified vehicle storage building had a vacant building arson.

## **JUVENILE-SET FIRES**

### **12 Juvenile-set Fires**

There were 12 reported juvenile-set fires in Essex County in 2014. The four structure fires, one motor vehicle fire and seven brush fires caused two fire service injuries and \$435,012 in estimated damages.

## **ARSONS**

### **79 Total Arsons — 12 Structures, 7 Vehicles & 60 Other Arsons**

Seventy-nine (79), or 3%, of Essex County's 2,854 fires were considered intentionally set, or, for purposes of this analysis, arson. The 12 structure arsons, seven motor vehicle arsons and 60 outside and other arsons caused one civilian death<sup>4</sup>, five fire service injuries and an estimated dollar loss of \$850,075.

### **All Arsons Down**

The total number of reported arson fires decreased by 32 from the 111 reported in 2013. Reported structure arsons decreased by nine from the 21 reported in 2013. Motor vehicle arsons decreased by three from the 10 reported in 2013. Outside and other arsons decreased by 20 from 80 reported the year before.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 55% of All Reported Responses**

In 2014, fire departments in Essex County reported 101,499 responses<sup>5</sup> to MFIRS. Of these 101,499 incidents, 98,537 non-fire calls were voluntarily reported.

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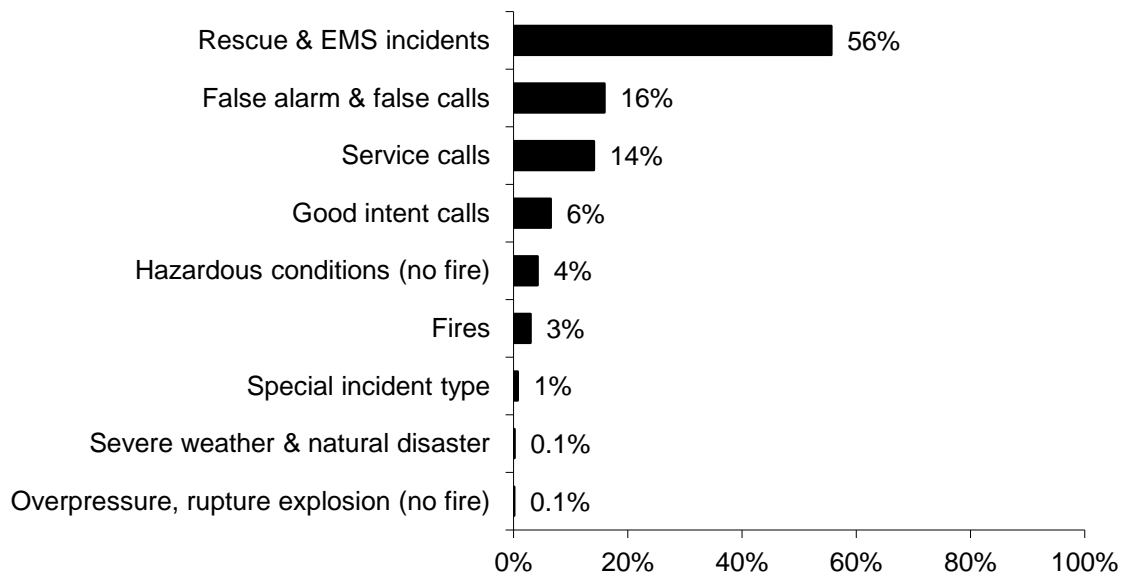
<sup>4</sup> This death was a suicide in a motor vehicle.

<sup>5</sup> These figures include responses in which Essex County fire departments gave mutual aid to other fire departments.

Of these 98,537 non-fire calls, 56,442, or 56%, of all the reported responses in 2014 were reported rescue and emergency medical services (EMS) calls; 16,122, or 16%, were reported false alarm or false calls; 14,238, or 14%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 6,565, or 6%, were reported good intent calls; 4,247, or 4%, were reported hazardous condition calls with no fire; 694, or 1%, were special incident type calls such as citizen complaints; 136, or 0.1%, were severe weather responses and 93, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Two thousand nine hundred and sixty-two (2,962), or 3%, of the total incidents submitted by Essex County fire departments were fires.

### 2014 Responses by Incident Type



### Essex County Fire Departments Reported Giving Mutual Aid 1,148 Times

In 2014, Essex County fire departments reported coming to the aid of other fire departments 1,148 times. Of these 1,148 responses, 493, or 43%, were for service calls such as cover assignments; 267, or 23%, were for rescue or EMS calls; 179, or 16%, were for good intent calls; 104, or 9%, were for fires; 87, or 8%, were for false alarms or false calls; 13, or 1%, were for hazardous conditions calls with no fire; three, or 0.3%, were special incident types; one, or 0.1%, was a severe weather call; and one, or 0.1%, was for an overpressure, rupture explosion with no fire call.

### Essex County Received Mutual Aid in 911 Incidents

In 2014, Essex County fire departments reported receiving aid from surrounding departments in 911 incidents. Of these 911 incidents, 527, or 58%, were rescue and emergency medical services calls; 189, or 21%, were for fires; 109, or 12%, were false

alarms or false calls; 36, or 4%, were hazardous conditions calls with no fire; 26, or 3%, were good intent calls; 18, or 2%, were service calls; four, or 0.4%, were reported overpressure, rupture, explosion or overheat calls with no fire; one, or 0.1%, was a severe weather call; and another one, or 0.1%, was for a special incident type call.

**Essex County****Population: 743,159****3.8 Fires/1,000 Population****Total Fires: 2,854 \$25,805,603**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	1,635	57%	\$21,805,603
Vehicle Fires	244	9%	2,368,593
Other Fires	975	34%	873,305

5 Fatal Fires 2.80 Civilian Deaths/1,000 Fires  
 8 Civilian Deaths 0.11 Civilian Deaths/10,000 Population  
 29 Civilian Injuries 88 Fire Service Injuries

**Building Fires: 1,629****Residential Structure Fires: 1,404****Residential Structure Fires Confined to Non-Combustible Containers: 1,074****Unconfined Residential Structure Fires: 330**

5 Civilian Deaths 22 Civilian Injuries 68 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	692	49%	Operated	913	65%
1- & 2-Family homes	601	43%	Didn't operate	22	1%
Rooming houses	44	3%	None	37	3%
Residential board & care	18	1%	Fire too small	38	3%
Dormitories	11	1%	Didn't alert (confined)	149	11%
Hotels/motels	5	0.4%	Undetermined	245	17%

<b>Area of Origin<sup>6</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Kitchen	69%	Heat from operating equip.	3%	12%
Heating equipment room	7%	Cigarette	2%	10%
Chimney or flue	4%	Radiated heat from oper. eq.	2%	8%
Bedroom	2%	Arcing	1%	6%
Bathroom	1%	Hot or smoldering obj., other	1%	6%
Exterior balcony/unencl. porch	1%			

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<b>Item First Ignited<sup>8</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Food, cooking materials	66%	Abandoned materials	2%	8%
Flammable/comb. liquid	7%	Too close to combustibles	1%	5%
Film, residue (creosote)	4%	Electrical failure, malfunc.	1%	5%
Rubbish, trash, waste	3%	Misuse of materials or prod.	1%	4%
Structural member, framing	2%	Equipment unattended	1%	4%
		Failure to clean	1%	2%

<b>Equipment<sup>10</sup></b>		<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>11</sup></b>
Kitchen & cooking equipment	65%	Unintentional	15%	63%
None	14%	Failure of eq. or heat source	1%	6%
Boiler, furnace, cent. heat. unit	7%	Intentional	0.5%	2%
Chimney, flue	4%	Undetermined	2%	7%
Electrical wiring, other	1%	Cause under investigation	5%	19%
Clothes dryer	1%	Act of Nature	0.4%	2%

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

Alerted occupants	70%
Didn't alert occupants	14%
Undetermined	16%

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<sup>10</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>11</sup> 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.



<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	213	164	21	28
February	191	147	21	23
March	224	152	21	51
April	281	128	9	144
May	304	147	20	137
June	308	119	20	169
July	255	120	22	113
August	265	124	30	111
September	209	116	20	73
October	189	122	19	48
November	233	156	27	48
December	182	140	14	28

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	454	260	35	159
Monday	441	249	28	164
Tuesday	362	191	45	126
Wednesday	402	233	36	133
Thursday	393	236	37	120
Friday	375	219	37	119
Saturday	427	247	26	154

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	179	107	28	44
04:01 - 08:00	178	106	27	45
08:01 - 12:00	467	291	50	126
12:01 - 16:00	761	387	53	321
16:01 - 20:00	846	513	53	280
20:01 - 00:00	423	231	33	159

### **Motor Vehicle Fires**

Total: 244

Automobiles: 208 (85%)

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

## Arson Fires

**Total Arsons: 79**

**Dollar loss: \$850,075**

### 0.11 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	12	1%	15%	\$791,500
Vehicle Arsons	7	3%	9%	56,510
Other Arsons	60	6%	76%	2,065

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.08 Other arsons/1,000 population

1 Civilian Death

5 Fire Service Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
20:01 - 00:00	4	33%	00:01 - 04:00	4	57%
00:01 - 04:00	2	17%	04:01 - 08:00	1	14%
04:01 - 08:00	2	17%	16:00 - 20:00	1	14%
16:01 - 20:00	2	17%	20:00 - 00:00	1	14%

Other Arsons	#	%
12:01 - 16:00	17	28%
16:01 - 20:00	13	22%
08:01 - 12:00	11	18%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartment buildings	3	25%
1- and 2-Family homes	3	25%

**Amesbury****Population: 16,283**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	74	43	8	23	1	0	0	1

**Andover****Population: 33,201**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	17	12	22	1	0	0	1

**Beverly****Population: 39,502**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	93	35	3	55	6	2	0	4

**Boxford****Population: 7,965**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	9	8	4	0	0	0	0

**Danvers****Population: 26,493**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	69	18	11	40	5	1	1	3

**Essex****Population: 3,504**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	9	1	5	0	0	0	0

**Georgetown****Population: 8,183**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	48	42	3	3	0	0	0	0

**Gloucester****Population: 28,789**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	113	64	4	45	5	1	0	4

**Groveland****Population: 6,459**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	6	0	9	2	0	0	2

**Hamilton****Population: 7,764**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	27	21	0	6	3	1	0	2

**Haverhill****Population: 60,879**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	245	140	28	77	2	1	0	1

**Ipswich****Population: 13,175**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	23	8	5	10	0	0	0	0

**Lawrence****Population: 76,377**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	300	171	30	99	10	3	4	3

**Lynn****Population: 90,329**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	487	374	28	85	1	1	0	0

**Lynnfield****Population: 11,596**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	76	55	4	17	3	0	0	3

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	18	10	2	6	1	0	0	1

**Marblehead****Population: 19,808**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	34	18	2	14	2	0	0	2

**Merrimac****Population: 6,338**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	39	20	4	15	6	0	0	6

**Methuen****Population: 47,255**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	114	38	15	61	6	0	0	6

**Middleton****Population: 8,987**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	119	97	5	17	1	0	0	1

**Nahant****Population: 3,410**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	2	0	13	1	0	0	1

**Newbury****Population: 6,666**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	25	10	1	14	6	0	0	6

**Newburyport****Population: 17,416**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	14	7	4	3	0	0	0	0

**North Andover****Population: 28,352**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	97	65	12	20	4	0	0	4



**Peabody****Population: 51,251**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	179	67	12	20	4	0	0	4

**Rockport****Population: 6,952**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	18	10	1	7	0	0	0	0

**Rowley****Population: 5,856**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	23	16	2	5	0	0	0	0

**Salem****Population: 41,340**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	161	70	11	80	0	0	0	0

**Salisbury****Population: 8,283**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	32	4	5	23	2	0	0	2

**Saugus****Population: 26,628**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	145	61	10	74	2	1	1	0

**Swampscott****Population: 13,787**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	32	20	2	10	0	0	0	0

**Topsfield****Population: 6,085**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	106	90	1	15	3	0	0	3

**Wenham** **Population: 4,875**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	13	9	0	4	1	0	0	1

**West Newbury** **Population: 4,235**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	13	9	1	3	3	0	1	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
09007	Amesbury	4,112	78	5	2,287	162	966	257	355	0	2
09009	Andover	2,240	51	0	861	185	238	42	569	1	293
09030	Beverly	4,433	97	19	2,482	219	331	268	996	7	14
09038	Boxford	681	25	1	366	46	42	35	162	3	1
09071	Danvers	7,126	69	4	2,788	169	2,955	245	852	6	38
09092	Essex	196	20	0	46	23	28	16	57	3	3
09105	Georgetown	1,644	48	2	594	57	750	55	134	4	0
09107	Gloucester	4,450	116	0	2,986	147	463	229	490	7	12
09116	Groveland	236	17	1	132	8	26	17	35	0	0
09119	Hamilton	390	27	0	27	52	79	32	164	6	3
09128	Haverhill	8,068	248	2	4,987	307	789	438	1,287	0	10
09144	Ipswich	1,717	23	0	927	113	169	188	295	1	1
09149	Lawrence	6,022	307	7	2,957	239	400	461	1,629	0	22
09163	Lynn	12,418	492	5	7,655	349	1,199	829	1,872	7	10
09164	Lynnfield	1,618	86	4	986	64	171	63	237	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
09166	Manchester	962	21	3	440	92	155	57	188	0	6
09168	Marblehead	2,526	36	1	1,062	116	447	409	446	3	6
09180	Merrimac	812	46	0	524	35	58	67	78	4	0
09181	Methuen	7,064	115	4	5,031	237	591	258	802	6	20
09184	Middleton	1,817	129	4	808	45	278	157	383	1	12
09196	Nahant	536	17	2	294	28	117	21	56	0	1
09205	Newbury	690	26	2	253	34	233	33	95	5	9
09206	Newburyport	15	14	0	0	1	0	0	0	0	0
09210	North Andover	4,159	101	3	2,720	181	383	127	563	12	69
09229	Peabody	8,509	179	6	5,447	307	375	827	1,349	6	13
09252	Rockport	193	20	1	7	61	12	1	90	0	1
09254	Rowley	591	31	0	303	24	40	95	96	2	0
09258	Salem	6,431	161	4	3,582	378	536	402	1,350	15	3
09259	Salisbury	1,972	33	1	1,387	97	151	80	215	3	5
09262	Saugus	4,621	149	6	2,484	221	361	654	602	14	130

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
09291	Swampscott	1,663	40	4	869	117	254	82	293	1	3
09298	Topsfield	2,291	108	2	544	67	1,388	31	147	2	2
09320	Wenham	793	13	0	380	43	138	57	160	1	1
09324	West Newbury	503	19	0	226	23	115	32	75	13	0
	<b>Essex County</b>	<b>101,499</b>	<b>2,962</b>	<b>93</b>	<b>56,442</b>	<b>4,247</b>	<b>14,238</b>	<b>6,565</b>	<b>16,122</b>	<b>136</b>	<b>694</b>

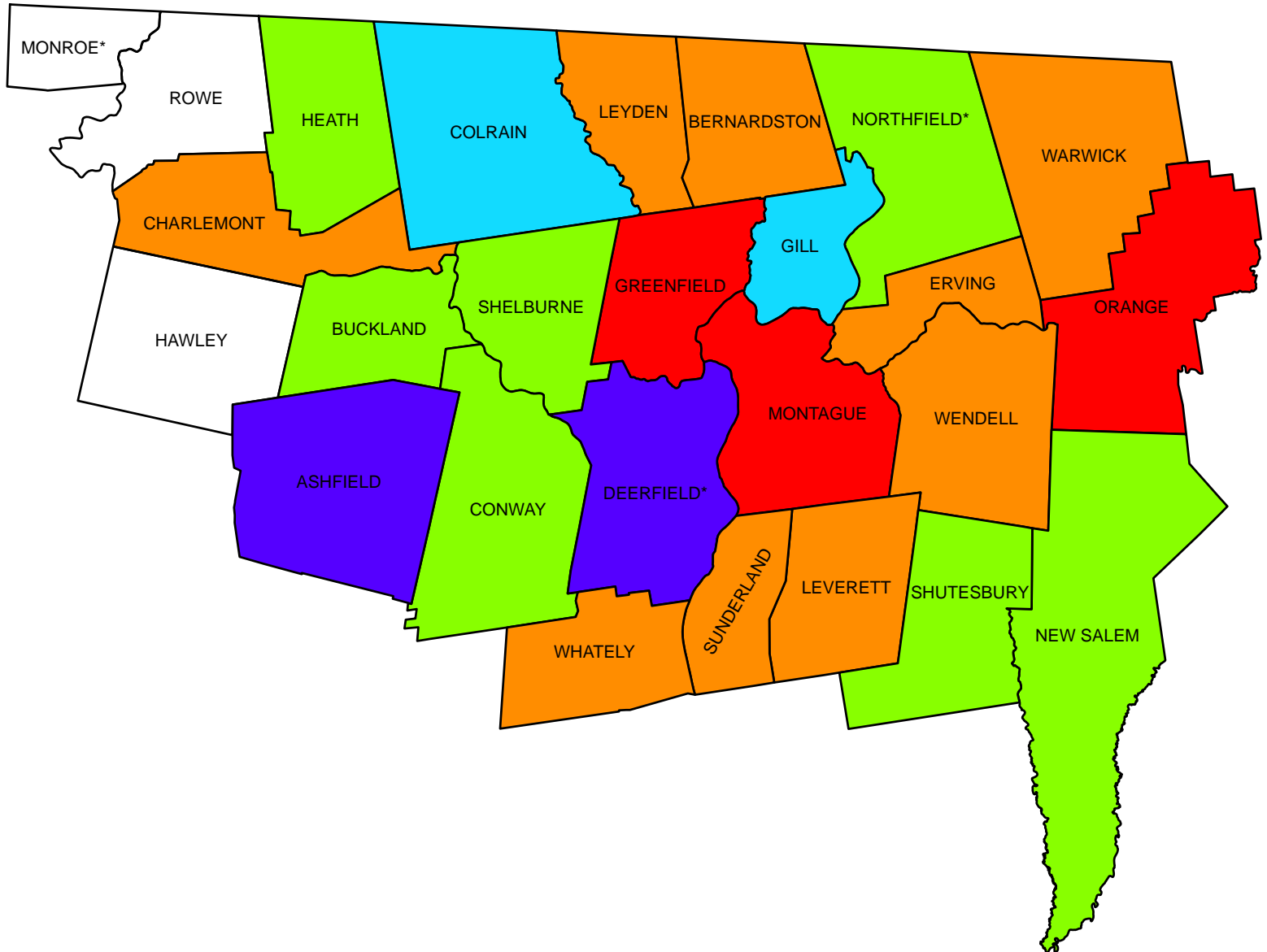
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



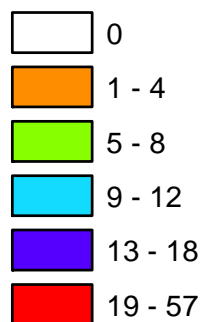
# Franklin County

## 2014 Fire Data Analysis

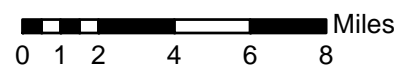
# Franklin County Fires 2014



## 2014 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2014



# Franklin County Fires in 2014

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## **263 Total Fires — 115 Structures, 24 Motor Vehicles & 124 Outside or Other Fires**

Franklin County ranked twelfth out of the fourteen Massachusetts counties in total fires. Franklin County fire departments reported 263 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 115 structure fires, 24 motor vehicle fires, 68 brush, tree or lawn fires, 28 outside rubbish fires, eight special outside fires, two cultivated vegetation and crop fires; and 18 unclassified fires caused two civilian injuries, three fire service injuries and an estimated dollar loss of \$2.4 million. Franklin County's fires accounted for 1% of the 28,999 Massachusetts fires reported in 2014.

Twenty-seven (27) of the 29, or 93.1%, fire departments in Franklin County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2014.

## **All Fires Down**

The total number of reported fire incidents decreased by 65, or 20%, from the 328 reported in 2013. Reported structure fires decreased by 45 from the 160 reported during the previous year. Motor vehicle fires decreased by 10 from the 34 reported in 2013. Outside and other fires decreased by 10 from the 134 reported the year before.

## **FRANKLIN COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	328	160	34	134	20	1	0	19
2014	263	115	24	124	18	3	0	15

## **Fire and Fire Death Rates**

Franklin County had 3.7 fires per 1,000 population. That figure ranks Franklin County tied for eighth in the state and below the state rate of 4.4 fires per 1,000 population. Franklin County had 0.0 fire deaths per 10,000 population ranking it tied for eleventh among Massachusetts counties and below the state rate of 0.08 fire deaths per 10,000 population.

## **No Civilian Fire Deaths in Franklin County**

There were no civilian fire deaths in Franklin County in 2014.

## **Ashfield Has Franklin County's Largest Loss Fire**

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

- On January 1, 2014, at 2:18 a.m., the Ashfield Fire Department was called to a fire of undetermined cause in a two-family home. No one was injured at this fire. Alarms were present and operated. There were no sprinklers. Damages from this fire were estimated to be \$481,500.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 115 structure fires caused one civilian injury, three fire service injuries, and an estimated dollar loss of \$2.4 million. These incidents represented 44% of Franklin County's reported fires in 2014. The average estimated dollar loss per structure fire was \$20,534. The total number of reported structure fires decreased by 45, or 28%, from the 160 reported in 2013.

### **Arson Caused 3% of Structure Fires**

The three structure arsons caused an estimated dollar loss of \$500. Arson was indicated as the cause of 3% of the structure fires and less than 1% of Franklin County's structure fire dollar loss. The three structure arsons accounted for 17% of the Franklin County arson fires reported in 2014. The total number of reported structure arsons increased by two, or 200%, from the one reported in 2013.

### **2 Structure Arsons Occurred in Residences**

Two (2) of Franklin County's structure arsons in 2014 occurred in residential properties. The other arson occurred in a special property.

## **BUILDING FIRES**

There were 115 building fires of different types in Franklin County in 2014. These 115 building fires accounted for all structure fires in Franklin County.

### **85% of Franklin Building Fires Occurred in People's Homes**

Ninety-eight (98), or 85%, of Franklin County's 115 building fires occurred in residential occupancies. Mercantile or business properties had six fires. Special properties had four fires. Storage facilities had three fires. Two (2) fires occurred in public assembly properties and institutional facilities and manufacturing facilities each had one fire.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

There were 98 reported residential building fires in Franklin County in 2014. These 98 fires are a decrease of 37, or 27%, from the 135 residential building fires reported in 2013.

### **1- & 2-Family Homes Accounted for Almost 3/4 of Residential Building Fires**

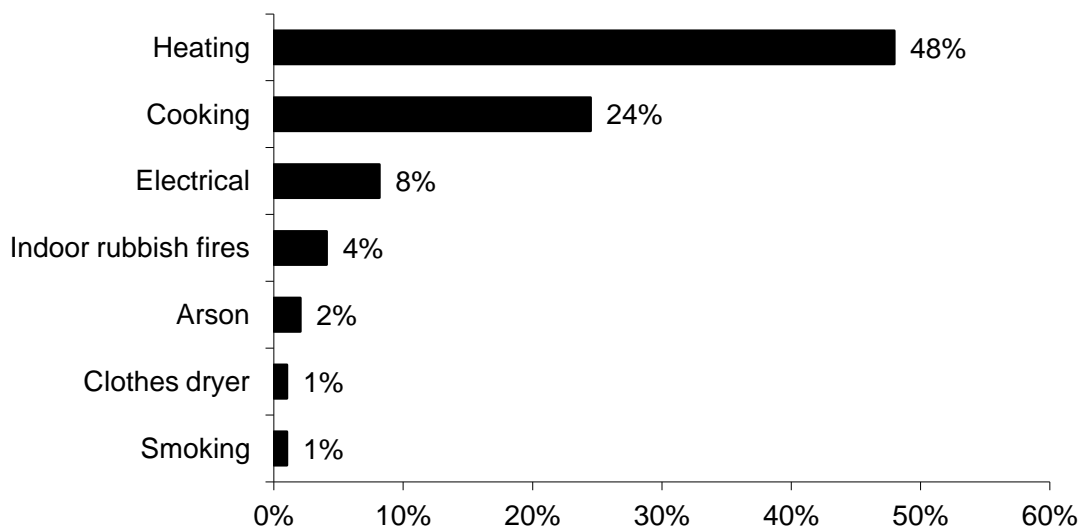
The peak fixed property uses for residential building fires were one- & two-family homes, accounting for 72% of the building fires in Franklin County; 24% occurred in

apartments; 1% in residential board and care facilities; and 2% happened in unclassified residential properties.

### Heating Leading Cause of Residential Fires

Heating was the leading cause of residential fires in Franklin County in 2014. Forty-eight percent (48%) of the residential fires were caused by heating. Ninety-one percent (91%) of these heating fires involved chimneys. Franklin County was the only county where cooking was not the leading cause of residential fires in 2014. Unattended cooking and other unsafe cooking practices accounted for 24% of the fires in people's homes. Indoor rubbish fires caused 4% of these fires. Electrical fires accounted for 8% of the residential building fires. Arson caused 2% of these fires. Clothes dryers and smoking fires each caused 1% of the fires in people's homes in Franklin County in 2014.

### 2014 Leading Causes of Fires in Franklin County Homes



### 69% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Sixty-eight (68), or 69%, of these fires were confined to a non-combustible container. Forty-one (41), or 42%, of all residential building fires reported in 2014 were fires confined to a chimney or flue. Nineteen (19) of the reported fires were cooking fires contained to a non-combustible container accounting for 19% of residential building fires. Four (4), or 4%, were fires confined to a fuel burner or boiler malfunction. Another

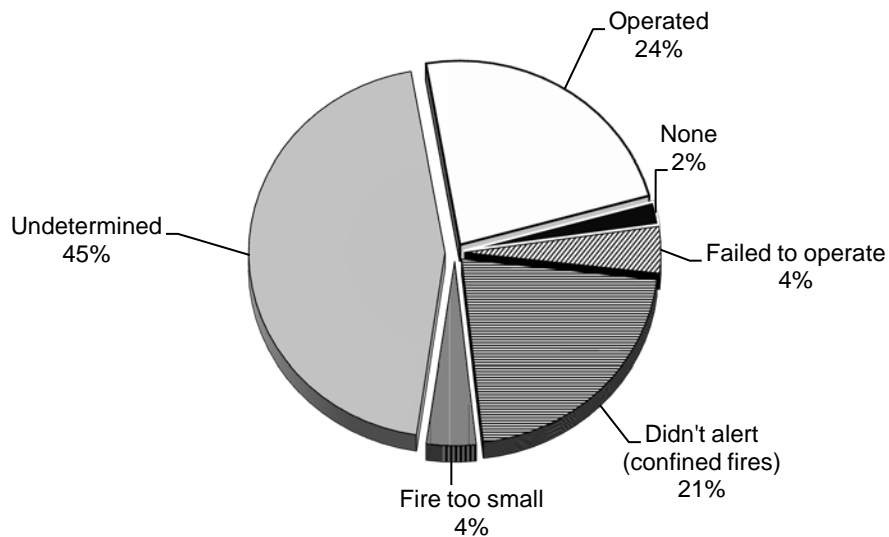
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

four, or 4%, of these fires were indoor rubbish fires contained to a non-combustible container in Franklin County in 2014.

### **Detector Operation Undetermined in 45% of Fires**

Smoke or heat detectors operated and alerted the occupants in 23, or 24%, of the residential building fires. In 21% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 4% 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 45%, of Franklin County's residential building fires.

### **Detector Status in Franklin County's Residential Structure Fires 2014**



### **VACANT BUILDINGS**

#### **4% of Building Fires Occurred in Vacant Buildings**

Franklin County reported five fires that occurred in buildings that were vacant, under construction or demolition. This represented 4% of the total 115 building fires reported to MFIRS in 2014. Two (2) fires occurred at vacant residences; two occurred at vacant business properties; and one occurred at a storage facility.

None of the vacant building fires in Franklin County in 2014 was determined to be intentionally set.

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

## **JUVENILE-SET FIRES**

### **5 Juvenile-set Fires**

There were five reported juvenile-set fires in Franklin County in 2014. Three were brush fires and two were outside trash fires.

## **ARSONS**

### **18 Total Arsons — 3 Structure & 15 Other Arsons**

Eighteen (18), or 7%, of Franklin County's 263 fires were intentionally set, or, for purposes of this analysis, arson. The three structure arsons and 15 outside and other arsons caused an estimated dollar loss of \$500.

### **All Arson Down**

The number of arsons decreased by two, or 10%, from the 20 reported in 2013. Structure arsons increased by two from one reported in 2013. Motor vehicle arsons remained the same with none reported either in 2013 or 2014. Outside and other arsons decreased by four from the 19 reported in 2013.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 52% of All Reported Responses**

In 2014, Franklin County fire departments reported 7,306 responses<sup>3</sup> to MFIRS. Of these 7,306 incidents, 6,877 non-fire calls were voluntarily reported.

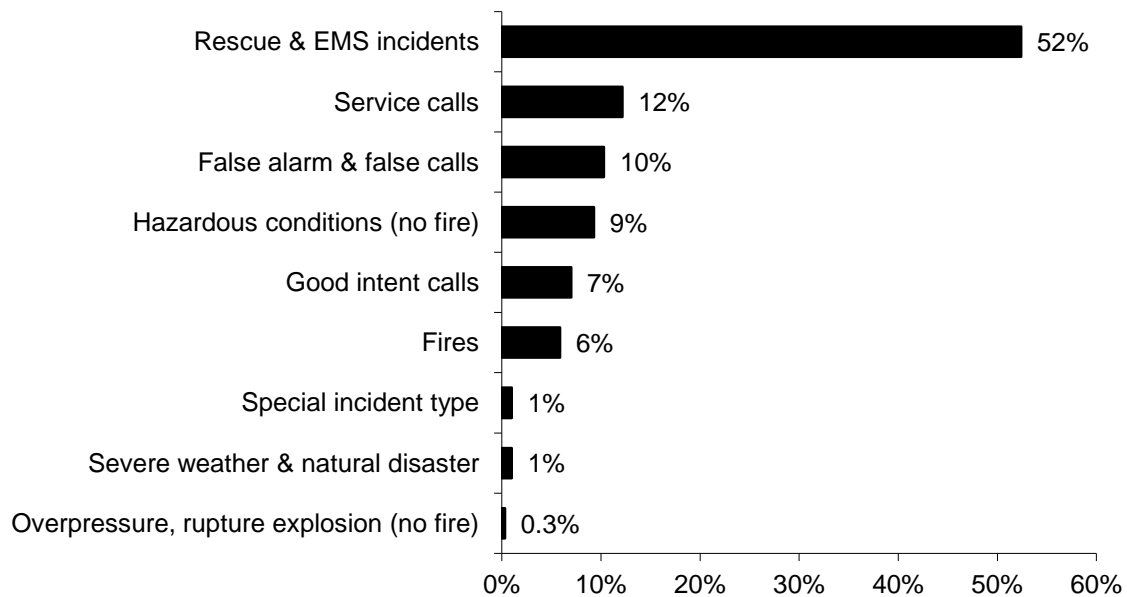
Of these 6,877 non-fire calls, 3,828, or 52%, of all of the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 888, or 12%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 752, or 10%, were reported false alarm or false calls; 679, or 9%, were reported hazardous condition calls with no fire; 511, or 7%, were reported good intent calls; 109, or 1%, were special incident type calls such as citizen complaints; 88, or 1%, were severe weather responses; and 22, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Four hundred and twenty-nine (429), or 6%, of the total incidents submitted by Franklin County fire departments were fires.

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

## 2014 Responses by Incident Type



### Franklin County Fire Departments Gave Mutual Aid 523 Times

In 2014, Franklin County fire departments reported coming to the aid of other fire departments 523 times. Of these 523 responses, 263, or 50%, were for rescue or EMS calls; 161, or 31%, were for fires; 43, or 8%, were for service calls such as cover assignments; 35, or 7%, were for good intent calls; 16, or 3%, were for hazardous conditions calls with no fire; four, or 1%, were for false alarms or false calls; and one, or 0.2%, was a special incident type.

### Franklin County Received Mutual Aid in 427 Incidents

In 2014, Franklin County fire departments reported receiving aid from surrounding departments in 427 incidents. Of these 427 incidents, 350, or 82%, were rescue and emergency medical services calls; 47, or 11%, were for fires; 14, or 3%, were hazardous conditions calls with no fire; six, or 1%, were false alarm or false calls; four, or 1%, were service calls; four, or 1%, were good intent calls; and two, or 0.5%, were severe weather or natural disaster calls.

**Franklin County****Population: 71,372****3.7 Fires/1,000 Population****Total Fires: 263 \$2,435,298**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	115	44%	\$2,361,410
Vehicle Fires	24	9%	60,348
Other Fires	124	47%	13,540

0 Fatal Fires 0.00 Civilian Deaths/1,000 Fires

0 Civilian Deaths 0.00 Civilian Deaths/10,000 Population

2 Civilian Injuries 3 Fire Service Injuries

**Building Fires: 115****Residential Structure Fires: 98****Residential Structure Fires Confined to Non-Combustible Containers: 68****Unconfined Residential Structure Fires: 30**

1 Fire Service Injury

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	71	72%	Operated	23	24%
Apartments	24	24%	Didn't operate	4	4%
Residential board & care	1	1%	None	2	2%
Residential, other	2	2%	Fire too small	4	4%
			Didn't Alert (confined)	21	21%
			Undetermined	44	45%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Chimney or flue	42%	Radiated heat from oper. eq.	3%	10%
Kitchen	26%	Heat from oper. equipment	3%	10%
Heating room or area	4%	Hot or smoldering object	2%	7%
Attic	3%	Arcing	2%	7%
Living room	3%			

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Film, residue (creosote)	42%	Equipment unattended	9%	30%
Cooking materials	21%	Electrical failure, malfunc.	5%	17%
Electrical wire, cable insulation	5%	Failure to clean	5%	17%
Rubbish, trash, waste	5%	Misuse of material or prod.	3%	10%
Flamm. or combustible liquid	4%			
Structural member, framing	4%			

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Chimney or flue	44%	Unintentional	10%	33%
Cooking equipment	22%	Failure of eq. or heat source	5%	17%
None	18%	Intentional	1%	3%
Boiler, furnace, cent. heat. unit	4%	Act of nature	1%	3%
		Cause under investigation	9%	30%
		Undetermined	4%	13%

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

Alerted occupants	24%
Didn't alert occupants	31%
Undetermined	46%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.



<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	24	20	0	4
February	22	13	2	7
March	22	9	3	10
April	49	13	0	36
May	15	5	2	8
June	20	7	3	10
July	15	6	3	6
August	14	7	3	4
September	17	5	3	9
October	26	11	2	13
November	26	11	2	13
December	13	8	1	4

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	44	18	1	25
Monday	39	11	1	27
Tuesday	31	14	3	14
Wednesday	35	18	4	13
Thursday	38	20	3	15
Friday	32	16	5	11
Saturday	44	18	7	19

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	18	9	2	7
04:01 - 08:00	18	7	3	8
08:01 - 12:00	51	25	5	21
12:01 - 16:00	58	23	4	31
16:01 - 20:00	88	36	10	42
20:01 - 00:00	30	15	0	15

### **Motor Vehicle Fires**

Total: 24

Automobiles: 18 (75%)

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

## Arson Fires

**Total Arsons: 18**

**Dollar loss: \$500**

### 0.3 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	3	3%	17%	\$500
Vehicle Arsons	0	0%	0%	0
Other Arsons	15	12%	83%	0

0.02 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.21 Other arsons/1,000 population

No Injuries

### Peak Times of Day for:

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

Other Arsons	#	%
08:01 - 12:00	5	33%
16:01 - 20:00	4	27%
12:01 - 16:00	3	20%
20:01 - 00:00	3	20%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family homes	1	50%
Apartments	1	50%

**Ashfield****Population: 1,737**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	17	8	1	8	0	0	0	0

**Bernardston****Population: 2,129**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	4	1	0	3	0	0	0	0

**Buckland****Population: 1,902*****Buckland Fire District******Est. Pop. Protected: 951***

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	6	3	0	3	2	0	0	2

**Charlemont****Population: 1,266**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	0	1	2	0	0	0	0

<b>Colrain</b>					<b>Population: 1,671</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	12	7	0	5	0	0	0	0

<b>Conway</b>					<b>Population: 1,897</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	4	0	1	0	0	0	0

<b>DEERFIELD FIRE DISTRICTS</b>					<b>Population: 5,125</b>			
<b>Deerfield</b>					<b>Est. Pop. Protected: 2,819</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	5	1	0	4	0	0	0	0
2011	Non-Reporting Community				0	0	0	0
2012	7	2	1	4	0	0	0	0
2013	5	2	1	2	0	0	0	0
2014	Non-Reporting Community							

<b>South Deerfield</b>					<b>Est. Pop. Protected: 2,306</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	18	4	3	11	1	0	0	1





**MONTAGUE FIRE DISTRICTS****Population: 8,437****Montague Center****Est. Pop. Protected: 2,109**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	17	4	0	13	2	0	0	2

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	19	9	1	9	4	1	0	3

**New Salem****Population: 990**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	8	3	1	4	1	0	0	1

**Northfield****Population: 3,032**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	Non-Reporting Community							
2011	Non-Reporting Community							
2012	Non-Reporting Community							
2013	21	8	1	12	1	0	0	1
2014	8	4	1	3	0	0	0	0

**Orange****Population: 7,839**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	37	15	3	19	1	0	0	1

**Rowe****Population: 393**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**SHELBURNE FIRE DISTRICTS****Population: 1,893*****Shelburne Center******Est. Pop. Protected: 965***

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	1	1	3	0	0	0	0



<b>Shutesbury</b>					<b>Population: 1,771</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	7	0	0	0	0	0	0

<b>Sunderland</b>					<b>Population: 3,684</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	4	3	1	0	0	0	0	0

<b>Warwick</b>					<b>Population: 780</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	1	1	0	0	0	0	0	0

<b>Wendell</b>					<b>Population: 848</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	1	0	1	0	0	0	0

Whately					Population: 1,496			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	4	1	3	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
11013	Ashfield	194	20	1	115	11	16	3	18	10	0
11029	Bernardston	299	19	0	185	30	27	17	10	11	0
11047	Buckland	37	9	0	2	16	3	2	4	1	0
11053	Charlemont	73	10	0	28	5	7	2	15	6	0
11066	Colrain	215	24	0	115	41	27	2	3	3	0
11068	Conway	52	11	1	4	23	6	4	3	0	0
11975	Deerfield**	0	0	0	0	0	0	0	0	0	0
11091	Erving	124	11	0	97	5	4	0	7	0	0
11106	Gill	114	16	0	18	15	36	8	17	4	0
11114	Greenfield	2,106	68	4	1,190	224	147	159	294	11	9
11129	Hawley	12	4	0	5	2	1	0	0	0	0
11130	Heath	53	11	1	28	5	6	0	2	0	0
11154	Leverett	2	2	0	0	0	0	0	0	0	0
11156	Leyden	22	4	0	2	4	0	3	3	6	0
11190	Monroe**	0	0	0	0	0	0	0	0	0	0
11192	Montague Center	182	25	0	41	36	9	66	4	0	1

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
11204	New Salem	160	18	0	72	29	13	7	11	9	1
11217	Northfield	142	17	4	15	31	12	6	54	2	1
11223	Orange	1,841	46	6	1,085	55	373	72	90	22	92
11253	Rowe	25	5	0	15	1	1	1	2	0	0
11990	Shelburne Ctr.*	0	0	0	0	0	0	0	0	0	0
11989	Shelburne Falls	76	11	1	4	12	16	5	26	1	0
11272	Shutesbury	47	16	0	18	1	2	5	5	0	0
11976	South Deerfield	184	31	2	21	40	15	21	53	0	1
11289	Sunderland	84	6	0	45	6	3	14	10	0	0
11984	Turners Falls	1,156	30	2	678	72	153	111	106	0	4
11312	Warwick	2	1	0	0	1	0	0	0	0	0
11319	Wendell	61	4	0	31	12	5	2	6	1	0
11337	Whately	43	10	0	14	2	6	1	9	1	0
<b>Total</b>	<b>Franklin County</b>	<b>7,306</b>	<b>429</b>	<b>22</b>	<b>3,828</b>	<b>679</b>	<b>888</b>	<b>511</b>	<b>752</b>	<b>88</b>	<b>109</b>

\* Certified no reportable fires.

\*\*Non reporting department.

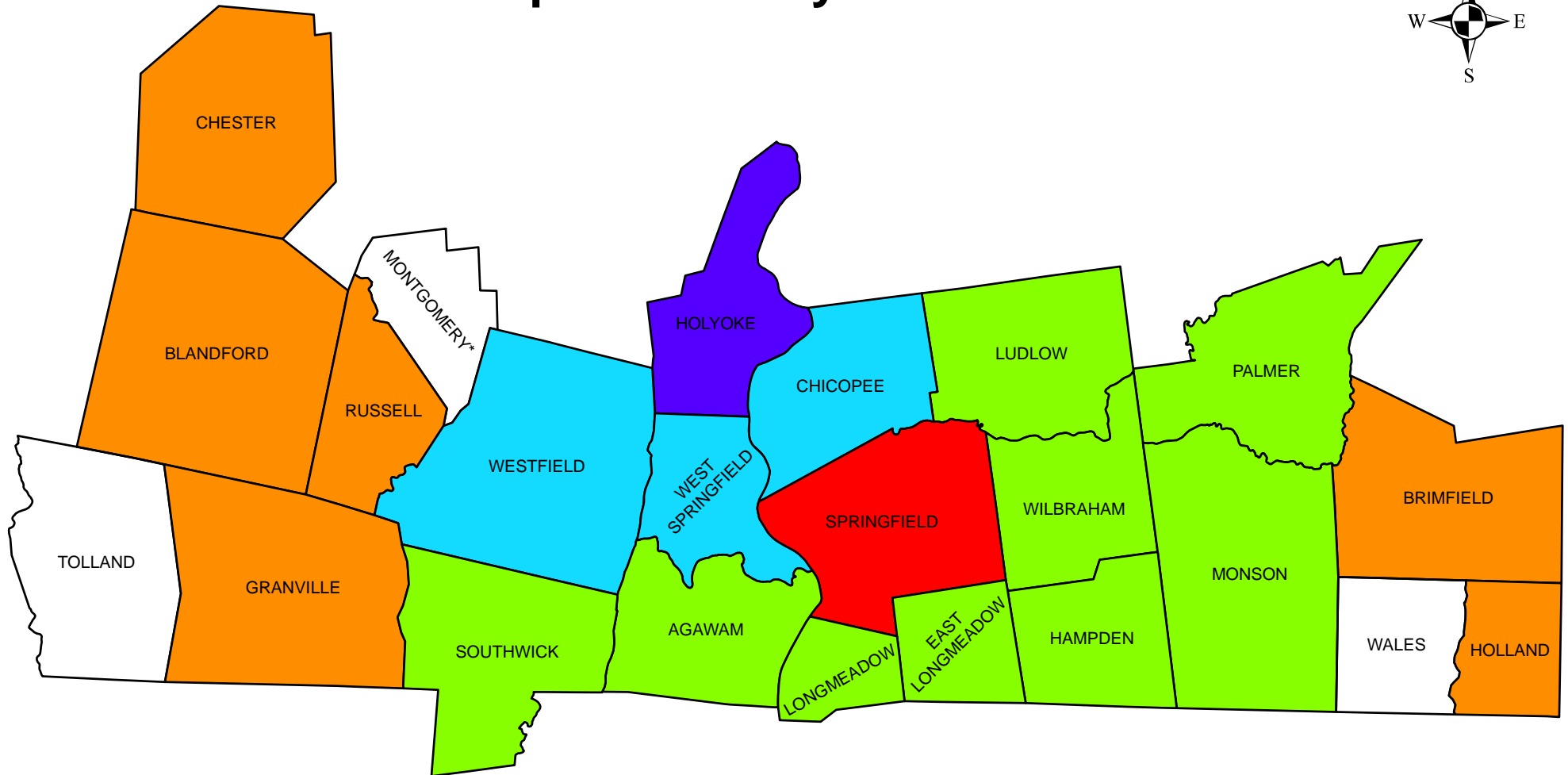
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that want to send all of their responses to do so.



# Hampden County

## 2014 Fire Data Analysis

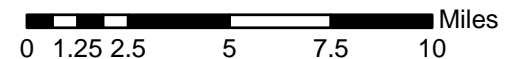
# Hampden County Fires 2014



## 2014 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

# Hampden County Fires in 2014

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## **1,965 Total Fires — 1,081 Structures, 223 Vehicles & 661 Other Fires**

Hampden County ranked seventh out of the fourteen Massachusetts counties in total reported fires. Hampden County fire departments reported 1,965 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 1,081 structure fires, 223 motor vehicle fires, 259 brush, tree or lawn fires, 279 outside rubbish fires, 44 special outside fires, two cultivated vegetation or crop fires, and 77 other fires caused four civilian fire deaths, 34 civilian injuries, 47 fire service injuries and an estimated dollar loss of \$14.4 million. Hampden County's 1,965 fires accounted for 7% of the 28,999 fire incidents reported to MFIRS in 2014.

Twenty-three (23), or 92%, 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 2014.

## **All Fires Down**

The total number of reported fire incidents decreased by 92 from the 2,057 reported in 2013. Reported structure fires decreased by seven from the 1,088 reported during the previous year. Motor vehicle fires decreased by 17 from the 240 reported during 2013. Outside and other fires decreased by 68 from the 729 reported the year before.

## **HAMPDEN COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	2,057	1,088	240	729	60	13	19	28
2014	1,965	1,081	223	661	55	17	6	32

## **Fire and Fire Death Rates**

Hampden County had 4.2 fires per 1,000 population. That figure ranks Hampden County fifth in the state and just below the state rate of 4.4 fires per 1,000 population. Hampden County also had 0.09 fire deaths per 10,000 population ranking it tied for fourth among Massachusetts counties and above the state rate of 0.08 fire deaths per 10,000 population.

## **4 People Died in 4 Hampden County Fires**

In 2014, Hampden County had four fatal fires that killed four people.

- On January 22, 2014, at 1:04 a.m., the Springfield Fire Department was called to a fatal fire in a two-family home of undetermined cause. The fire originated on the second floor. The victim, a 70-year old woman, was overcome by the heat and smoke while she was escaping when her escape route was blocked by the fire. No one else was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from the blaze were estimated to be \$140,000.

- On August 3, 2014, at 3:52 a.m., the Springfield Fire Department was called to a fatal electrical fire in a 13-unit apartment building. The fire was started by an electrical arcing in the structural area of a third floor bathroom. The victim, a 49-year old woman was overcome by the heat and smoke while she was escaping. She was transported to a local hospital where she succumbed to her injuries. One (1) other civilian was injured at this fire. There were alarms present in the building but they failed to operate because of dead batteries. There were no sprinklers. The fire caused an estimated \$30,000 worth of damage.
- On September 6, 2014, at 12:58 a.m., the Springfield Fire Department was called to a fatal outside fire in a backyard. The victim, a 33-year old woman, poured gasoline on herself and lit her clothing on fire in a suicide attempt. She was transported to a local hospital where she later succumbed to her injuries. No one else was injured in this fire.
- On October 23, 2014, at 3:32 p.m., the Springfield Fire Department was called to a fatal candle fire in a single-family home. The candle ignited a living room chair. The victim, a 64-year old physically disabled woman, was overcome by the smoke generated by the fire. She was transported to a local hospital where she succumbed to her injuries. No one else was injured at this fire. Alarms were present but did not operate because of missing batteries. The building was not sprinklered. Damages from the blaze were estimated to be \$75,000.

#### **Agawam Had Largest Loss Fire in Hampden County**

- On November 9, 2014, at 3:41 p.m., the Agawam Fire Department was dispatched to a fire of undetermined cause in a 72-unit apartment building. One (1) firefighter was injured at this fire. It was undetermined if alarms were present. The building did not have sprinklers. Damages from this fire were estimated to be \$700,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down Slightly**

The 1,081 structure fires caused three civilian deaths, 29 civilian injuries, 41 fire service injuries and an estimated dollar loss of \$12.5 million. These incidents represented 55% of Hampden County's reported fires in 2014. The average estimated dollar loss per structure fire was \$11,590. The total number of reported structure fires decreased by seven, or 1%, from the 1,088 reported in 2013.

### **Arson Caused 2% of Structure Fires**

The 17 structure arsons caused an estimated dollar loss of \$607,521. Arson was indicated as the cause of 2% of the structure fires and 5% of Hampden County's structure fire dollar loss. The 17 structure arsons accounted for 31% of the Hampden County arson fires reported in 2014. The total number of reported structure arsons increased by four, or 31%, from the 13 reported in 2013.



**71% of Structure Arsons Occurred in Residences**

Seventy-one percent (71%) of Hampden County's 17 structure arsons occurred in residential occupancies. Eighteen percent (18%) occurred in educational facilities and 12% each occurred in storage facilities and manufacturing or processing facilities.

**BUILDING FIRES**

There were 1,075 building fires of different types in Hampden County in 2014. These 1,075 building fires accounted for 99.4% of all structure fires in Hampden County.

**87% of Hampden Building Fires Occurred in People's Homes**

Nine hundred and thirty-two (932), or 87%, of Hampden County's 1,075 building fires occurred in residential occupancies. Mercantile and business properties experienced 36 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. Special properties had eight fires. Six (6) fires took place in manufacturing and processing facilities. One (1) fire occurred in an industrial, utility, defense, agricultural or mining facility in Hampden County in 2014. The property use of one building fire was not reported.

**RESIDENTIAL FIRES****Residential Building Fires Up Slightly**

There were 932 reported residential building fires in Hampden County in 2014. These 932 fires are an increase of three, or less than 1%, from the 929 residential building fires reported in 2013.

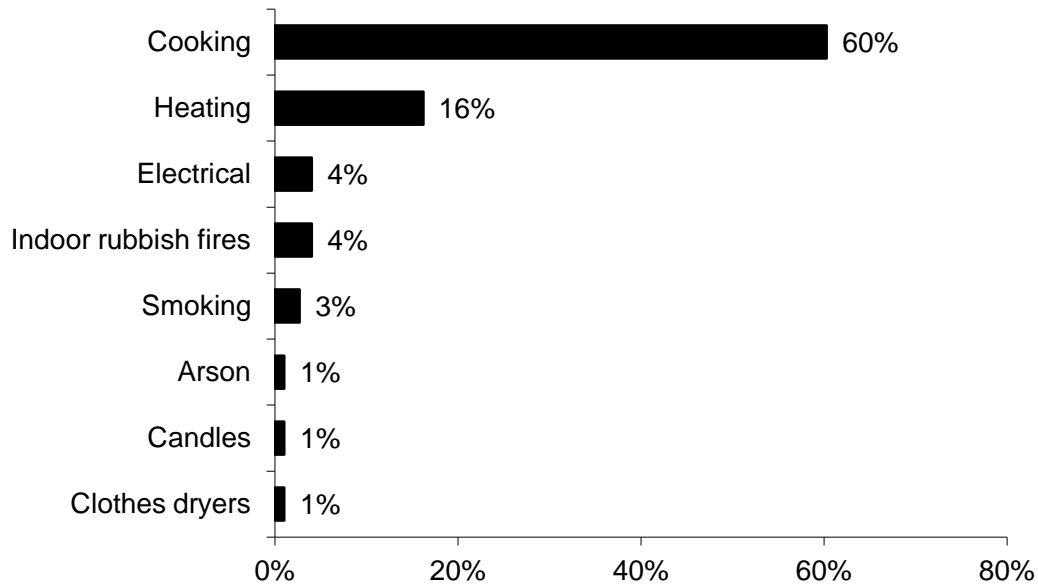
**1- & 2-Family Homes Accounted for Almost 1/2 of Residential Building Fires**

The peak fixed property uses for residential building fires were 1- & 2-family homes, accounting for almost half, or 49%, of the building fires in Hampden County; 45% occurred in apartments; 2% happened in residential board and care facilities; 2% happened in hotels or motels; another 2% happened in dormitories; and 1% occurred in rooming houses;. Six (6), or less than 1%, of the residential building fires in Hampden County occurred in unclassified residential buildings.

**Cooking Causes 60% of Residential Fires**

The leading cause of residential building fires in Hampden County was unattended cooking and other unsafe cooking practices, accounting for 60% of these fires. Heating was the second leading cause of fires in people's homes, accounting for 16% of these fires. Electrical problems and indoor rubbish fires each caused 4%. Smoking started 3% of these fires. Candles, arson and clothes dryers each caused 1% of the residential fires in Hampden County in 2014.

## 2014 Leading Causes of Fires in Hampden County Homes



### 73% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Six hundred and eighty-three (683), or 73% of all residential building fires, were reported as confined to non-combustible containers in 2014. Five hundred and twenty-one (521) of the reported fires were cooking fires contained to a non-combustible container, accounting for 56% of residential building fires. Seventy (70), or 8%, were fires confined to a fuel burner or boiler malfunction. Fifty-five (55), or 6%, of all residential building fires reported in 2014 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 a confined commercial compactor fire.

### Detectors Alerted Occupants in 42% of Fires

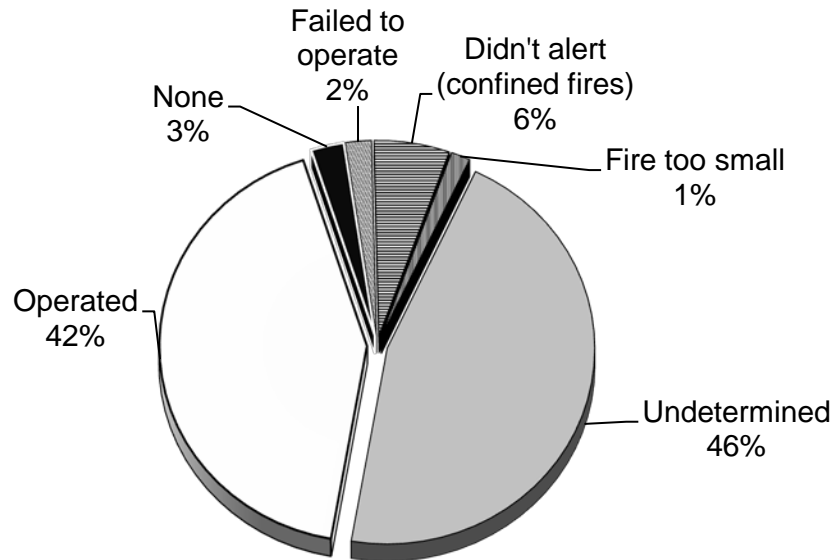
Smoke or heat detectors operated and alerted the occupants in 395, or 42%, of the residential building fires. In 6% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 1% of the

<sup>1</sup> 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.

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

residential fires. Smoke detector performance was undetermined in 428 incidents, or 42%, of Hampden County's residential building fires.

### Detector Status in Hampden County's Residential Structure Fires 2014



#### Over 1/3 of Failed Detectors Had Missing or Disconnected Batteries

Of the 19 fires where smoke detectors were present but failed to operate, four, or 21%, failed because the batteries were either missing or disconnected. In three incidents, or 16%, the detectors failed because the battery was dead. In one fire, or 5%, the detector failed because of a power failure, shutoff or disconnect. Eleven (11), or 58%, of the detectors failed for unclassified or undetermined reasons.

### VACANT BUILDINGS

#### 2% of Building Fires Occurred in Vacant Buildings

Hampden County reported 24 fires that occurred in buildings that were vacant, under construction or demolition. This represents 2% of the total 1,075 building fires reported to MFIRS in 2014. Seventeen (17) fires occurred in vacant residential properties. Four (4) fires in storage facilities were reported as vacant building fires. Public assembly properties, educational facilities, and mercantile and business properties each accounted for one vacant building fire.

Five (5), or 21%, of the vacant building fires in Hampden County in 2014 were determined to be intentionally set.

## JUVENILE-SET FIRES

### 2 Juvenile-set Fires

There were two reported juvenile-set fires in Hampden County in 2014. There was one structure fire and one unclassified fire.

## ARSONS

### 55 Total Arsons — 17 Structures, 6 Vehicles & 32 Other Arsons

Fifty-five (55), or 3%, of Hampden County's 1,965 fires were considered intentionally set, or, for purposes of this analysis, arson. The 17 structure arsons, six motor vehicle arsons and 32 outside and other arsons caused one civilian death and an estimated dollar loss of \$631,181.

### MV Arson Down

The total number of reported arson fires decreased by five from the 60 reported in 2013. Structure arsons increased by four from the 13 reported in 2013. Motor vehicle arsons decreased by 13 from 19 reported in 2013. Outside and other fires increased by four from the 28 reported the year before.

## ALL INCIDENTS

### Rescue & EMS Calls Are 57% of All Reported Responses

In 2014, fire departments in Hampden County reported 45,953 responses<sup>3</sup> to MFIRS. Of these 45,953 incidents, 43,914 non-fire calls were voluntarily reported.

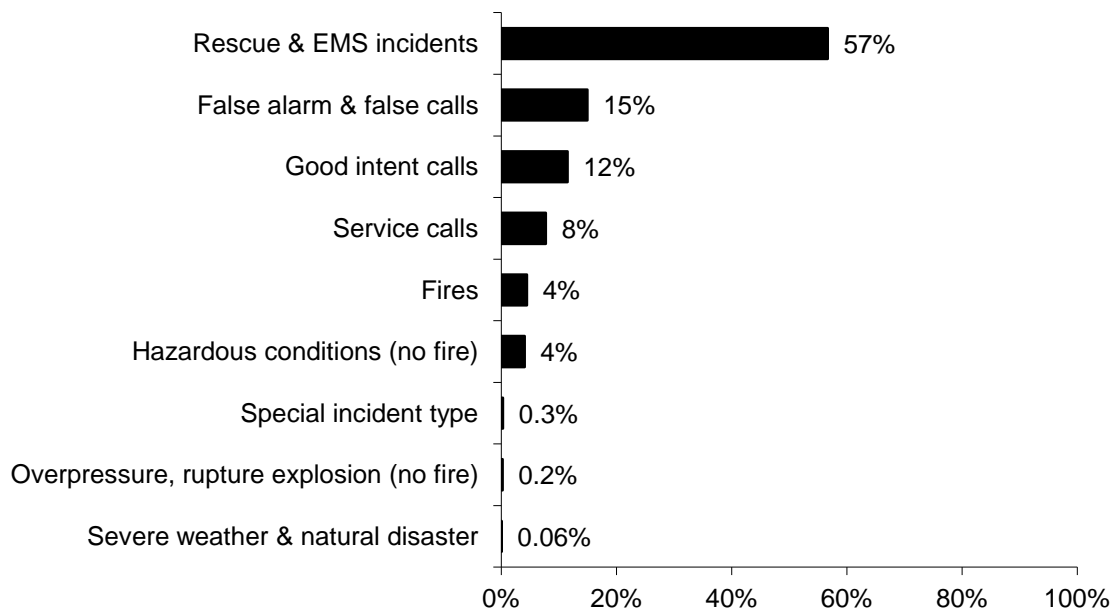
Of these 43,914 non-fire calls, 26,044, or 57% of all reported responses in 2014, were reported rescue and emergency medical services (EMS) calls; 6,880, or 15%, were reported false alarm or false calls; 5,285, or 12%, were reported good intent calls; 3,563, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 1,862, or 4%, were reported hazardous condition calls with no fire; 147, or 0.3%, were special incident type calls such as citizen complaints; 104, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 29, or 0.1%, were severe weather responses.

Two thousand and thirty-nine (2,039), or 4%, of the total responses submitted by Hampden County fire departments were fires.

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<sup>3</sup> These figures include responses in which Hampden County fire departments gave mutual aid to other fire departments.

## 2014 Responses by Incident Type



### Hampden County Fire Departments Gave Mutual Aid 356 Times

In 2014, Hampden County fire departments reported coming to the aid of other fire departments 356 times. Of these 356 responses, 140, or 39%, were for rescue or EMS calls; 90, or 25%, were for service calls such as cover assignments; 70, or 20%, were for fires; 25, or 7%, were for good intent calls; 23, or 6%, were for hazardous conditions calls with no fire; seven, or 2%, were for false alarms or false calls; and one, or less than 1%, was a severe weather call.

### Hampden County Received Mutual Aid in 404 Incidents

In 2014, Hampden County fire departments reported receiving aid from surrounding departments in 404 incidents. Of these 404 incidents, 293, or 73%, were rescue and emergency medical services calls; 57, or 14%, were for fires; 20, or 5%, were false alarms or false calls; 14, or 3%, were hazardous conditions calls with no fire; 11, or 3%, were service calls; and nine, or 2%, were good intent calls.

**Hampden County****Population: 463,490****4.2 Fires/1,000 Population****Total Fires: 1,965 \$14,402,137**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	1,081	55%	\$12,529,083
Vehicle Fires	223	11%	1,554,518
Other Fires	661	34%	318,536

4 Fatal Fires 2.04 Civilian Deaths/1,000 Fires  
 4 Civilian Deaths 0.09 Civilian Deaths/10,000 Population  
 34 Civilian Injuries 47 Fire Service Injuries

**Building Fires: 1,075****Residential Structure Fires: 932****Residential Structure Fires Confined to Non-Combustible Containers: 683****Unconfined Residential Structure Fires: 249**

3 Civilian Deaths 26 Civilian Injuries 40 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	457	49%	Operated	395	42%
Apartments	417	45%	Didn't operate	19	2%
Dormitories	16	2%	None	24	3%
Rooming houses	14	2%	Fire too small	14	1%
Hotels or motels	14	2%	Didn't alert (confined)	22	6%
Residential board & care	8	1%	Undetermined	428	46%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	61%	Heat from operating equip.	4%	15%
Heating room or area	8%	Rad., cond. heat/oper. eq.	3%	10%
Chimney, flue	6%	Arcing	2%	8%
Bedroom	3%	Hot or smoldering object	2%	6%
Exterior balcony/unencl. porch	2%	Hot ember or ash	1%	5%
Living room	1%	Cigarette	1%	4%

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	58%	Too close to combustibles	2%	6%
Flammable or combust. liquid	8%	Abandoned materials	2%	6%
Film, residue (creosote)	6%	Misuse of mat./prod. other	1%	4%
Rubbish, trash, waste	4%	Failure to clean	1%	4%
Structural member, framing	2%	Equipment unattended	1%	3%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	59%	Unintentional	12%	49%
None	15%	Failure of eq./heat source	2%	9%
Boiler, furnace, cent. heat unit	8%	Intentional	1%	3%
Chimney or flue	6%	Act of Nature	0.3%	1%
Electrical wiring, other	1%	Undetermined	2%	8%
		Cause under investigation	7%	27%

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

Alerted occupants	43%
Didn't alert occupants	8%
Undetermined	49%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup>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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	158	108	30	20
February	137	99	15	23
March	144	93	14	37
April	302	111	21	170
May	153	79	12	62
June	168	82	17	69
July	158	68	20	70
August	142	61	19	62
September	146	76	22	48
October	140	92	19	29
November	185	121	19	45
December	132	91	15	26

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	328	177	28	123
Monday	282	145	29	108
Tuesday	271	142	37	92
Wednesday	252	146	34	72
Thursday	262	153	32	77
Friday	266	152	31	83
Saturday	304	166	32	106

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	180	92	27	61
04:01 – 08:00	123	64	27	32
08:01 – 12:00	283	161	42	80
12:01 – 16:00	503	278	50	175
16:01 – 20:00	543	300	43	200
20:01 – 00:00	333	186	34	113

### **Motor Vehicle Fires**

Total: 223

Automobiles: 169 (76%)

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



## Arson Fires

**Total Arsons: 55**

**Dollar loss: \$631,181**

### 0.12 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	17	2%	31%	\$607,521
Vehicle Arsons	6	3%	11%	20,600
Other Arsons	32	5%	58%	3,060

0.04 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.07 Other arsons/1,000 population

1 Civilian Death

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	6	35%	16:01 - 20:00	2	33%
20:01 - 00:00	5	29%	20:01 - 00:00	2	33%
04:01 - 08:00	3	18%	00:01 - 04:00	1	17%
			04:01 - 08:00	1	17%

Other Arsons	#	%
12:01 - 16:00	11	34%
20:01 - 00:00	8	25%
16:00 - 20:00	7	22%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	7	41%
Apartment buildings	4	24%
High/junior high/middle schools	2	12%

**Agawam** **Population: 28,438**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	87	38	12	31	1	1	0	0

**Blandford** **Population: 1,233**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	1	0	1	0	0	0	0

**Brimfield** **Population: 3,609**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	6	0	9	1	0	0	1

**Chester** **Population: 1,337**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	2	0	1	0	0	0	0

**Chicopee** **Population: 55,298**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	164	95	17	52	2	0	0	2

**East Longmeadow** **Population: 15,720**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	25	3	23	7	2	0	5

**Granville** **Population: 1,566**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	6	3	0	3	0	0	0	0

**Hampden** **Population: 5,139**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	36	27	0	9	0	0	0	0

**Holland****Population: 2,481**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	4	2	1	1	0	0	0	0

**Holyoke****Population: 39,880**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	324	181	29	114	11	5	0	6

**Longmeadow****Population: 15,784**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	21	12	4	21	5	0	0	5
2011	42	18	4	20	4	0	0	4
2012	34	13	3	18	1	1	0	0
2013	32	16	6	10	1	0	0	1
2014	35	15	6	14	1	0	0	1

**Ludlow****Population: 21,103**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	45	18	12	15	2	0	1	1

**Monson****Population: 8,560**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	34	15	2	17	5	0	0	5

**Montgomery****Population: 838**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Non-Reporting Community							

**Town of Palmer Fire Districts****Population: 12,140****Bondsville****Est. Pop. Protected: 2,792**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Non-Reporting Community							

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	36	19	7	10	2	1	0	1

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Russell****Population: 1,775**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	8	3	1	4	0	0	0	0

**Southwick****Population: 9,502**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	32	17	2	13	2	0	0	2

**Springfield****Population: 153,060**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	779	439	87	253	18	6	5	7

**Tolland****Population: 485**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Wales****Population: 1,838**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**West Springfield****Population: 28,391**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	124	67	20	37	1	0	0	1

**Westfield****Population: 41,094**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	141	89	17	35	2	2	0	0

Wilbraham					Population: 14,219			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	39	19	7	13	0	0	0	0



## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
13005	Agawam	2,064	87	0	1,247	59	349	119	180	2	21
13033	Blandford	25	2	1	20	1	0	0	1	0	0
13043	Brimfield	315	18	0	209	16	20	10	40	2	0
13059	Chester	96	7	0	64	8	9	3	5	0	0
13061	Chicopee	6,162	166	19	3,623	175	787	610	736	3	43
13085	East Longmeadow	617	51	5	22	100	74	56	302	3	4
13112	Granville	109	6	0	80	2	6	10	2	0	3
13120	Hampden	114	40	0	15	20	11	5	22	1	0
13135	Holland	119	6	1	81	10	13	0	8	0	0
13137	Holyoke	4,827	324	8	2,990	160	216	157	955	1	16
13159	Longmeadow	2,283	37		1,521	104	208	112	300	0	1
13161	Ludlow	827	49	2	284	72	79	101	224	3	13
13191	Monson	226	38	2	42	31	40	19	47	2	5
13986	Palmer #1	374	36	1	19	67	115	62	72	1	1
13256	Russell	149	23	0	89	8	9	2	18	0	0

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
13279	Southwick	288	36	3	43	40	24	32	107	1	2
13281	Springfield	15,703	782	53	7,733	614	722	3,170	2,608	3	18
13297	Tolland	55	15	0	23	14	0	0	1	2	0
13325	West Springfield	6,445	126	5	5,171	172	300	234	422	1	14
13329	Westfield	2,710	147	4	1,107	125	369	402	549	1	6
13339	Wilbraham	2,445	43	0	1,661	64	212	181	281	3	0
	<b>Hampden County</b>	<b>45,953</b>	<b>2,039</b>	<b>104</b>	<b>26,044</b>	<b>1,862</b>	<b>3,563</b>	<b>5,285</b>	<b>6,880</b>	<b>29</b>	<b>147</b>

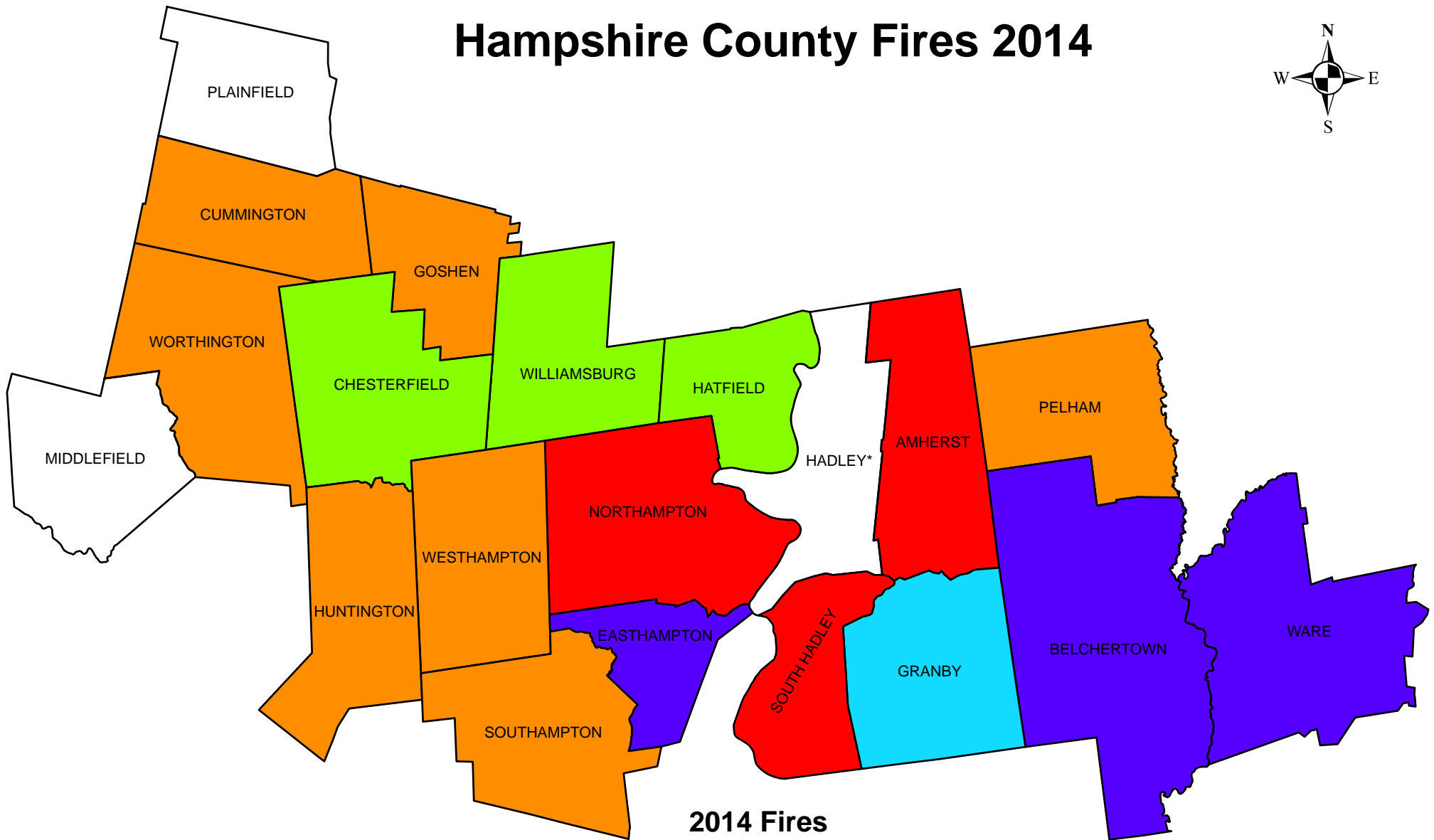
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



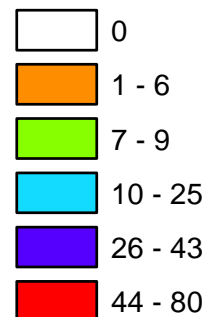
# Hampshire County

## 2014 Fire Data Analysis

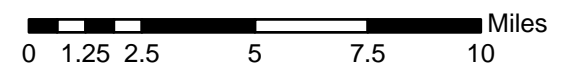
# Hampshire County Fires 2014



## 2014 Fires



\*Non-reporting Department



Massachusetts Fire Incident Reporting System 2014



**MFIRS**  
Massachusetts Fire Incident Reporting System

# Hampshire County Fires in 2014

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## **406 Total Fires — 204 Structures, 34 Vehicles & 168 Other Fires**

Hampshire County ranked eleventh out of the fourteen Massachusetts counties in total reported fires. Hampshire County fire departments reported 406 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 204 structure fires, 42 motor vehicle fires, 75 brush, tree or lawn fires, 39 outside rubbish fires, 16 special outside fires, one cultivated vegetation or crop fire, and 37 other fires caused five civilian injuries, five fire service injuries and an estimated dollar loss of \$5.7 million. Hampshire County's 406 total reported fires accounted for 1% of the 28,999 fires reported to MFIRS in 2014.

Twenty (20), or 95.2%, of the 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 2014.

## **All Fires Down**

The total number of reported fire incidents decreased by 106 from the 512 reported in 2013. Reported structure fires decreased by 40 from the 244 reported during the previous year. Motor vehicle fires decreased by eight from 42 the year before. The number of outside and other fires decreased by 58 from 226 in 2013.

## **HAMPSHIRE COUNTY FIRES FROM 2010 TO 2014**

	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>	<b>Total</b>	<b>Structure</b>	<b>Vehicle</b>	<b>Other</b>
<b>Year</b>	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Fires</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>	<b>Arsons</b>
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	512	244	42	226	33	5	0	28
2014	406	204	34	168	30	2	0	28

## **Fire and Fire Death Rates**

Hampshire County had 2.6 fires per 1,000 population. That figure ranks Hampshire County thirteenth in the state and below the state rate of 4.4 fires per 1,000 population. Hampshire County also had zero fire deaths per 10,000 population, ranking it tied for eleventh among Massachusetts counties and below the state rate of 0.08 fire deaths per 10,000 population.

## **Hampshire County Has 0 Fire Deaths in 2014**

There were no reported fire deaths in Hampshire County in 2014.

## **Northampton Has County's Largest Loss Fire**

There was one reported fire in Hampshire County with a dollar loss greater than \$1 million in 2014. This one fire was responsible for 35% of the county's total dollar loss in 2014.

- On July 24, 2014, at 2:49 a.m., the Northampton Fire Department was dispatched to a fire in a single-family home that was caused by a lightning strike. One (1) firefighter was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from this fire were estimated to be \$2 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 204 structure fires caused three civilian injuries, three fire service injuries and an estimated dollar loss of \$4.9 million. These incidents represent 50% of Hampshire County's reported fires in 2014. The average estimated dollar loss per structure fire was \$24,238. The total number of reported structure fires decreased by 40, or 16%, from the 244 reported in 2013.

### **2 Structure Arsons**

Two (2) structure arsons caused an estimated dollar loss of \$15,050. Arson was indicated as the cause of 1% of the structure fires and less than 1% of Hampshire County's structure fire dollar loss. The two structure arsons accounted for 7% of the Hampshire County arson fires reported in 2014. The total number of reported structure arsons decreased by three, or 60%, from five reported in 2013.

## **BUILDING FIRES**

There were 204 building fires of different types in Hampshire County in 2014. These 204 building fires accounted for all structure fires in Hampshire County.

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

One hundred and seventy-five (175), or 86%, of Hampshire County's 204 building fires occurred in residential occupancies. Storage facilities experienced eight fires. Six (6) fires took place in public assembly properties, including restaurants and churches. Six (6) fires occurred in educational facilities. Mercantile and business properties also had six fires. Manufacturing and processing facilities had one fire. An industrial facility and a special property each had one fire in Hampshire County in 2014.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

There were 174 reported residential building fires in Hampshire County in 2014. Residential fires decreased by 37 from the 211 reported in 2013.

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

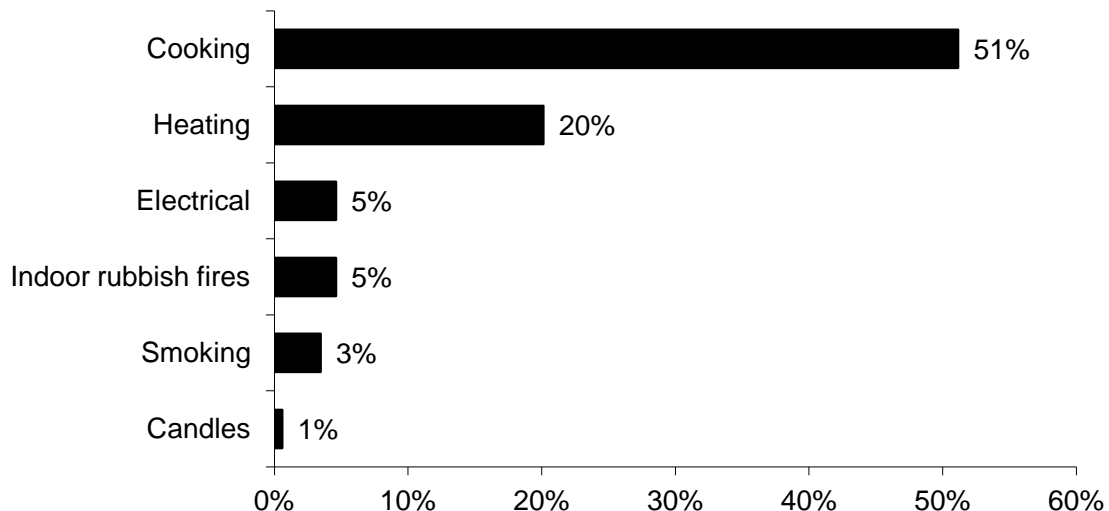
The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 60% of the residential building fires in Hampshire County; 24% occurred in apartments; 15% occurred in dormitories; and 1% happened in hotels or motels. One percent (1%) of the residential building fires 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-six (26), or 15%, of Hampshire County's residential fires occurred in dormitories. Dormitory fires make up smaller percentages of the other counties' fires.

### **Cooking Causes Over 1/2 of Residential Fires**

Unattended cooking and other unsafe cooking practices was the leading cause of the 174 residential building fires in Hampshire County, accounting for 51% of these fires. Heating equipment fires accounted for 20% of home fires. Electrical problems caused 5% of the residential fires. Indoor rubbish fires also caused 5%. Smoking fires were responsible for 3% of these fires. Candles accounted for 1% of the residential fires in Hampshire County in 2014.

### **2014 Leading Causes of Fires in Hampshire County Homes**



### **70% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>**

One hundred and twenty-one (121), or 70%, of all residential building fires were reported as confined to non-combustible containers in 2014. Eighty-three (83) of the reported fires were cooking fires contained to a non-combustible container, accounting for 48% of residential building fires. Twenty-six (26), or 15%, of all residential building fires reported in 2014 were fires confined to a chimney. Eight (8), or 5%, were fires confined

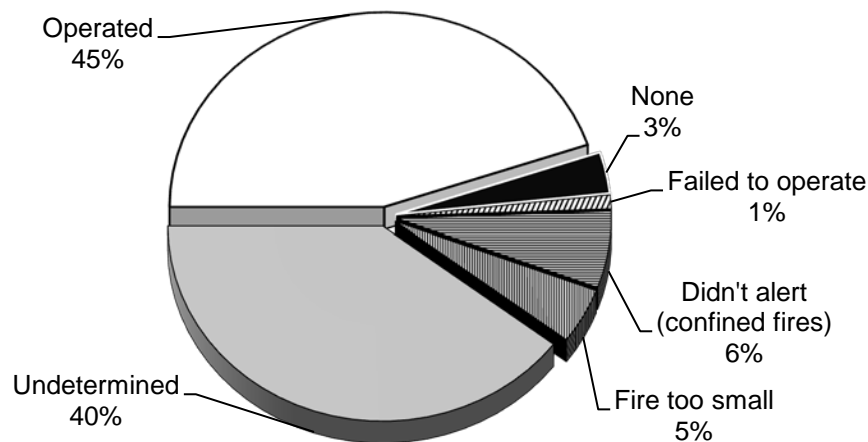
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

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 2014.

### **Detectors Operated in Only 45% of Fires**

Smoke or heat detectors operated and alerted the occupants in 78, or 45%, of the residential building fires. In 6% of these fires<sup>2</sup>, 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 5% of the residential fires. Smoke detector performance was undetermined in 69 incidents, or 40%, of Hampshire County's residential building fires.

### **Detector Status in Hampshire County's Residential Structure Fires 2014**



### **2 Detectors Failed From Missing Batteries**

Two (2) detectors failed because the battery was missing.

### **VACANT BUILDINGS**

#### **3 Building Fires Occurred in Vacant Buildings**

Hampshire County reported three fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the 204 building fires reported to MFIRS in 2014. One (1) of these vacant building fires occurred each in a storage facility, a business and a manufacturing or processing facility.

None of the vacant building fires in Hampshire County in 2014 were determined to be intentionally set.

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



## JUVENILE-SET FIRES

### 3 Juvenile-set Fires

There were three reported juvenile-set fires in Hampshire County in 2014. One (1) was a building fire and two were brush fires. These three fires caused an estimated dollar loss of \$2.

## ARSONS

### 30 Total Arsons — 2 Structures, 0 Motor Vehicle & 28 Other Arsons

Thirty (30), or 7%, of Hampshire County's 406 fires were intentionally set, or, for purposes of this analysis, arson. The two structure arsons, 21 brush arsons, two outside rubbish arsons, four special outside arsons, and one unclassified arson caused an estimated dollar loss of \$15,056.

### All Arsons Down

The total number of reported arson fires decreased by three from the 33 reported in 2013. Structure arsons decreased by three from five reported the previous year. Motor vehicle arsons remained the same with none reported in both 2013 and 2014. Reported outside and other arsons remained the same with 28 reported in both 2013 and 2014.

## ALL INCIDENTS

### Rescue & EMS Calls Are 57% of All Reported Responses

In 2014, Hampshire County fire departments reported 13,991 responses<sup>3</sup> to MFIRS. Of these 13,991 incidents, 13,517 non-fire calls were voluntarily reported.

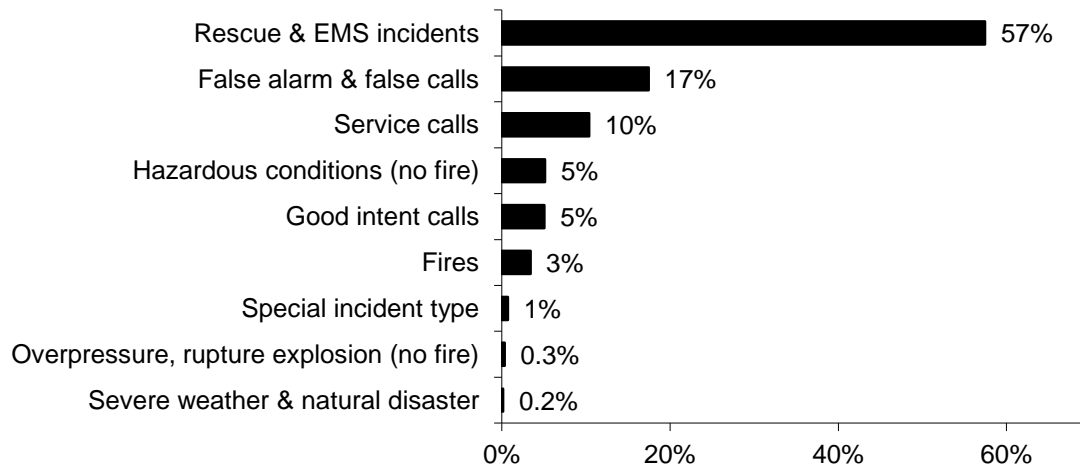
Of these 13,517 non-fire calls, 8,039, or 57%, of all the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 2,439, or 17%, were reported false alarm or false calls; 1,450, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 718, or 5%, were reported hazardous condition calls with no fire; 707, or 5%, were reported good intent calls; 99, or 1%, were special incident type calls such as citizen complaints; 44, or 0.3%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 21, or 0.2%, were severe weather responses.

Four hundred and seventy-four (474), or 3%, of the total responses submitted by Hampshire County fire departments were fires.

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<sup>3</sup> These figures include responses in which Hampshire County fire departments gave mutual aid to other fire departments.

## 2014 Responses by Incident Type



### Hampshire County Fire Departments Gave Mutual Aid 281 Times

In 2014, Hampshire County fire departments reported coming to the aid of other fire departments 281 times. Of these 281 responses, 118, or 42%, were for rescue or EMS calls; 64, or 23%, were for fires; 43, or 15%, were for service calls such as cover assignments; 31, or 11%, were for good intent calls; 12, or 4%, were for false alarms or false calls; eight, or 3%, were hazardous conditions calls with no fire; three calls, or 1%, were for special incident types; one, or 0.4% was a severe weather call; and one, or 0.4%, was a reported overpressure, rupture, explosion or overheat call with no fire.

### Hampshire County Received Mutual Aid in 131 Incidents

In 2014, Hampshire County fire departments received aid from surrounding departments in 131 incidents. Of these 131 incidents, 69, or 53%, were rescue and emergency medical services calls; 41, or 31%, were for fires; 10, or 8%, were hazardous conditions calls with no fire; six, or 5%, were false alarm or false calls; two were good intent calls accounting for 2%; two, or 2%, were service calls; and one, or 1%, was a reported overpressure, rupture, explosion or overheat call with no fire in Hampshire County in 2014.

**Hampshire County****Population: 158,080****2.6 Fires/1,000 Population****Total Fires: 406 \$5,659,909**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	204	50%	\$4,944,568
Vehicle Fires	34	8%	142,814
Other Fires	168	41%	572,527

0 Fatal Fire 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Death 0.00 Civilian Deaths/10,000 Population  
 5 Civilian Injuries 5 Fire Service Injuries

**Building Fires: 204****Residential Structure Fires: 174****Residential Structure Fires Confined to Non-Combustible Containers: 121****Unconfined Residential Structure Fires: 53**

3 Civilian Injuries 3 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	105	60%	Operated	78	45%
Apartments	41	24%	Didn't operate	2	1%
Dormitories	26	15%	None	6	3%
Rooming houses	1	1%	Fire too small	8	5%
Residential, other	1	1%	Didn't alert (confined)	11	6%
			Undetermined	69	40%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	55%	Radiated, con. Heat op. eq.	3%	9%
Chimney or flue	15%	Lightning	2%	8%
Heating room or area	3%	Cigarette	2%	8%
Living room	3%	Heat from operating eq.	2%	8%
Bedroom	2%	Hot embers or ash	2%	6%
Wall assembly, concealed space	2%	Hot or smoldering object	2%	6%
		Arcing	2%	6%

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	49%	Abandoned materials	2%	8%
Film, residue (creosote)	15%	Elec. fail., malfunc, other	2%	8%
Rubbish, trash, waste	5%	Too close to combustibles	2%	8%
Flamm. or combustible liquid	2%	Storm	2%	6%
Electrical wire, cable insulation	2%	Construction deficiency	1%	4%
		Failure to clean	1%	4%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	52%	Unintentional	15%	49%
None	21%	Failure of eq. or heat source	5%	15%
Chimney or flue	16%	Intentional	0%	0%
Boiler, furnace, cent. heat unit	2%	Cause under investigation	3%	11%
		Undetermined	5%	11%
		Act of nature	2%	8%

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

Alerted occupants	52%
Didn't alert occupants	9%
Undetermined	39%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	37	26	3	8
February	28	14	2	12
March	28	17	5	6
April	76	27	3	46
May	40	18	1	21
June	20	10	2	8
July	33	14	4	15
August	17	8	1	8
September	40	20	5	15
October	27	19	3	5
November	32	17	2	13
December	28	14	3	11

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	55	30	1	24
Monday	58	25	7	26
Tuesday	62	35	5	22
Wednesday	50	30	3	17
Thursday	56	28	9	19
Friday	62	24	7	31
Saturday	63	32	2	29

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	19	11	1	7
04:01 - 08:00	25	19	1	5
08:01 - 12:00	63	26	7	30
12:01 - 16:00	108	40	13	55
16:01 - 20:00	111	59	9	43
20:01 - 00:00	80	49	3	28

### **Motor Vehicle Fires**

Total: 34

Automobiles: 29 (85%)

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

## Arson Fires

**Total Arsons: 30**

**Dollar loss: \$19,056**

### 0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	2	1%	7%	\$15,050
Vehicle Arsons	0	0%	0%	0
Other Arsons	28	17%	93%	6

0.01 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	100%			

Other Arsons	#	%
16:01 - 20:00	13	46%
08:01 - 12:00	5	18%
20:01 - 00:00	5	18%
12:01 - 16:00	3	11%

Peak Fixed Property Uses for Structure Arsons	#	%
Outbuilding or shed	1	50%
High/junior high/middle school	1	50%

**Amherst****Population: 37,819**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	80	44	9	27	5	1	0	4

**Belchertown****Population: 14,649**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	37	14	2	21	8	0	0	8

**Chesterfield****Population: 1,222**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	3	0	4	2	0	0	2

**Cummington****Population: 872**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	0	0	1	0	0	0	0

**Population: 16,053****Goshen** **Population: 1,054****Population: 1,054**

<b>Granby</b>	<b>Population: 6,240</b>
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**Population: 6,240**

<b>Hadley</b>	<b>Population: 5,250</b>
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**Population: 5,250**[illegible]



**Hatfield** **Population: 3,279**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	9	3	0	6	1	0	0	1

**Huntington** **Population: 2,180**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	6	2	1	3	0	0	0	0

**Middlefield** **Population: 521**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Northampton** **Population: 28,549**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	67	24	7	36	0	0	0	0

**Pelham****Population: 1,321**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	2	0	0	0	0	0	0

**Plainfield****Population: 648**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**SOUTH HADLEY FIRE DISTRICTS****Population: 17,514*****South Hadley District # 1******Est. Pop. Protected: 11,734***

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	18	3	10	1	1	0	0

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

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	35	34	0	1	0	0	0	0

**Southampton** **Population: 5,792**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	1	0	4	0	0	0	0

**Ware** **Population: 9,872**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	36	7	3	26	11	0	0	11

**Westhampton** **Population: 1,607**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	6	3	0	3	1	0	0	1

**Williamsburg** **Population: 2,482**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	9	5	1	3	0	0	0	0

<b>Worthington</b>					<b>Population: 1,156</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	2	0	1	0	0	0	0

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
15008	Amherst	1,427	88	1	222	105	70	123	810	3	5
15024	Belchertown	297	40	0	10	55	56	5	125	1	5
15060	Chesterfield	98	18	0	53	5	5	6	9	1	1
15069	Cummington	1	1	0	0	0	0	0	0	0	0
15087	Easthampton	2,617	52	0	2,061	49	160	82	197	5	11
15108	Goshen	99	10	0	66	6	5	2	9	0	1
15111	Granby	188	26	0	6	32	31	25	65	2	1
15117	Hadley**	0	0	0	0	0	0	0	0	0	0
15127	Hatfield	152	9	0	20	32	14	13	52	3	9
15143	Huntington	130	9	0	80	17	14	4	6	0	0
15183	Middlefield*	0	0	0	0	0	0	0	0	0	0
15214	Northampton	6,857	72	33	4,679	207	737	289	798	2	40
15230	Pelham	2	2	0	0	0	0	0	0	0	0
15237	Plainfield*	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 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
15978	South Hadley #1	437	40	3	13	87	79	57	149	0	9
15979	South Hadley #2	740	43	0	383	28	157	40	77	2	10
15276	Southampton	315	6	5	224	19	32	5	23	1	0
15309	Ware	240	37	0	9	38	38	43	70	0	5
15331	Westhampton	100	8	0	44	16	18	2	12	0	0
15340	Williamsburg	288	10	2	169	22	34	11	37	1	2
15349	Worthington	3	3	0	0	0	0	0	0	0	0
<b>Total</b>	<b>Hampshire County</b>	<b>13,991</b>	<b>474</b>	<b>44</b>	<b>8,039</b>	<b>718</b>	<b>1,450</b>	<b>707</b>	<b>2,439</b>	<b>21</b>	<b>99</b>

\* Certified no reportable fires.

\*\*Non reporting department.

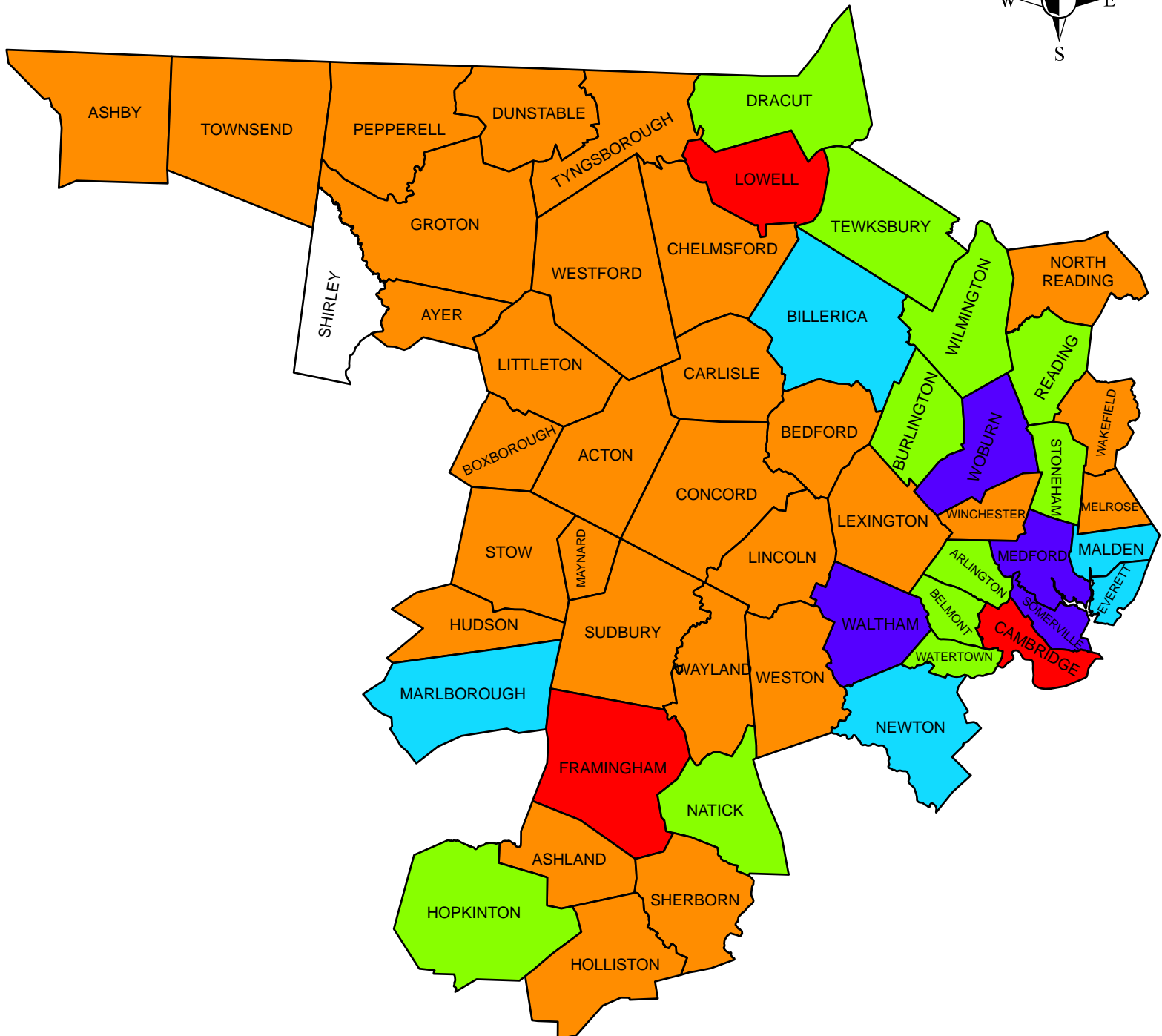
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



# Middlesex County

## 2014 Fire Data Analysis

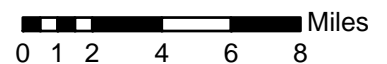
# Middlesex County Fires 2014



## 2014 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System



Massachusetts Fire Incident Reporting System 2014



# Middlesex County Fires in 2014

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## **4,860 Total Fires — 3,115 Structures, 410 Vehicles & 1,335 Other Fires**

Middlesex County ranked second out of the fourteen Massachusetts counties in total reported fires. Middlesex County fire departments reported 4,860 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 3,115 structure fires, 410 motor vehicle fires, 641 brush fires, 399 outside rubbish fires, 112 special outside fires, six cultivated vegetation or crop fires, and 177 unclassified fires caused 18 civilian deaths, 47 civilian injuries, 85 fire service injuries and an estimated dollar loss of \$46.5 million. Middlesex County's fires accounted for 17% of the 29,828 Massachusetts fires reported in 2014.

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 2014.

## **Structure Fires Up**

The total number of reported fire incidents decreased by 194 from the 5,054 reported in 2013. Reported structure fires increased by 115 from 3,000 in the previous year. Motor vehicle fires decreased by 19 from the 429 reported during 2013. Reported outside and other fires decreased by 290 from 1,625 the year before.

## **MIDDLESEX COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	5,054	3,000	429	1,625	109	33	11	65
2014	4,860	3,115	410	1,335	72	28	9	35

## **Fire and Fire Death Rates**

Middlesex County had 3.2 fires per 1,000 population. That figure ranks Middlesex County tied for twelfth in the state and below the state rate of 4.4 fires per 1,000 population. Middlesex County also had 0.12 fire deaths per 10,000 population ranking it second among Massachusetts counties and above the state rate of 0.08 fire deaths per 10,000 population.

## **11 Fatal Fires Killed 18 Middlesex County Residents**

In 2014, 11 fatal fires killed 18 people in Middlesex County.

- On February 4, 2014, at 1:49 a.m., the Lowell Fire Department was called to a fatal smoking fire in a six-unit apartment building. The victim, a 41-year old woman, fell asleep while she was smoking in bed. No one else was injured at this fire. Alarms

were present but they failed to operate because of dead batteries. Sprinklers were not present. Damages were estimated to be \$30,000.

- On February 12, 2014, at 3:56 a.m., the Cambridge Fire Department responded to a fatal heating fire at a three-unit apartment building. The fire began with an electrical malfunction of an electrical baseboard heater in a bedroom on the second floor. The victim, a 40-year old woman was trapped by the fire. No one else was injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from this fire were estimated to be \$900,000.
- On February 14, 2014, at 3:13 a.m., the Concord Fire Department was dispatched to a fire in a single-family home of undetermined cause. The victims, an 89-year old man, and his 83-year old wife were trapped inside their home. There were no other injuries associated with this fire. It was undetermined if alarms were present and the building was not sprinklered. Damages from this fire were estimated to be \$500,000.
- On April 4, 2014, at 3:08 p.m., the Waltham Fire Department was called to a fatal smoking fire in a 12-unit rooming house. The 51-year old male victim fell asleep and his cigarette started the fire. There were no other injuries at this fire. The alarm in the victim's room was dismantled but the hard-wired alarms in the common areas were present and alerted the other occupants of the building. There were no sprinklers. Damages from this fire were estimated to be \$70.
- On April 21, 2014, at 2:24 a.m., the Marlborough Fire Department was dispatched to a fire in a single-family home of undetermined cause. The fire began in a first floor bedroom. The victim, a 45-year old physically disabled woman, was in the area of fire origin. She was transported to a local hospital where she later succumbed to her injuries. There were three other civilian injuries and one firefighter injury associated with this fire. Alarms were present and alerted the occupants to the fire. The building was not sprinklered. Damages from this fire were estimated to be \$250,000.
- On May 5, 2014, at 11:57 p.m., the Weston Fire Department was called to a fatal electrical fire in a single-family home. The fire began in a detached garage with an apartment in the back. The cause of the fire was an overheated extension cord that was being used to power a 'trickle' charger for a pickup truck that was parked nearby. The cord ran under several pieces of heavy equipment inside the garage. The victim, a 68-year old man, was not able to escape and was overcome by the heat and smoke of the fire. No one else was injured at this fire. It was undetermined if alarms were present in the garage. There were no sprinklers. The fire caused an estimated \$150,000 worth of damage. It also spread to the nearby pickup truck causing \$10,000 in estimated damages.
- On May 27, 2014, at 12:50 p.m., the Everett Fire Department was called to a fatal cooking fire in an apartment building. The victim, a 91-year old woman, was cooking on the stove when the clothes she was wearing ignited. No one else was injured at this fire. She was transported to a local hospital where she succumbed to her injuries

about a month later. Alarms were present but the fire was too small to activate them. The home was not sprinklered. Damages from this fire were not estimated.

- On July 10, 2014, at 3:59 a.m., the Lowell Fire Department was called to a fatal electrical fire in a nine-unit apartment building. The fire began in a concealed wall space between the second and third floors caused by arcing in the building's wiring. There were seven victims of this fire living in two different apartments. A 7-year old girl, a 9-year old boy, a 12-year old boy, a 32-year old man, a 37-year old woman, a 44-year old woman, and a 72-year old man all died in this fire because their exits were blocked by the ferocity of the fire and they were trapped above the fire. No one else was injured at this fire. Alarms were present in the home but it was undetermined if they operated. Sprinklers were not present. Damages were estimated to be \$500,000.
- On December 3, 2014, at 10:19 a.m., the Winchester Fire Department was called to a fatal cooking fire in a 300-unit apartment building. The victim, a 63-year old woman, was most likely cooking when her clothing ignited. No one else was injured at this fire. Alarms were present and alerted the other occupants of the building. The building was sprinklered but the fire was too small to activate them. Damages from this fire were estimated to be \$10,000.
- On December 9, 2014, at 9:23 a.m., the Waltham Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by a cigarette on the living room couch. The victim, a 53-year old man, was overcome while trying to escape the fire. There were no other injuries at this fire. There were no alarms, and the home did not have any sprinklers. Damages from this fire were estimated to be \$250,000.
- On December 29, 2014, at 8:58 p.m., the Chelmsford Fire Department was called to a fatal smoking fire at a residential board and care facility. The fire was started by a cigarette on the living room couch. The victim, a 76-year old man, was smoking in bed when he ignited his bedding. There were no other injuries at this fire. Alarms were present and alerted the other occupants to the fire. The building did have sprinklers and they suppressed the fire until firefighters could arrive and fully extinguish it. Damages from this fire were estimated to be \$70,000.

#### **Largest Loss Fire in 2014**

In 2014, Middlesex County fire departments reported six fires with a reported dollar loss of \$1 million or greater. The combined dollar loss of these six fires totaled \$17.4 million, or 37%, of the county's total dollar loss.

- On April 13, 2014, at 9:42 p.m., the Burlington Fire Department was called to a fire of undetermined cause at a bowling alley that was under construction. The fire started on the first floor. No one was injured at this fire. It was undetermined if detectors were present. The building did not have sprinklers. Damages from this fire were estimated to be \$12 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Increase**

The 3,115 structure fires caused 18 civilian deaths, 39 civilian injuries, 74 fire service injuries and an estimated dollar loss of \$38.9 million. These incidents represented 64% of Middlesex County's reported fires in 2014. The average estimated dollar loss per structure fire was \$12,473. The total number of reported structure fires increased by 115, or 4%, from the 3,000 reported in 2013.

### **Arson Caused of 1% of Structure Fires**

The 28 structure arsons caused one civilian injury, one fire service injury and an estimated dollar loss of \$451,442. Arson was indicated as the cause of 1% of the structure fires and 1% of Middlesex County's structure fire dollar loss. The 28 structure arsons accounted for 39% of the Middlesex County arson fires reported in 2014. The total number of reported structure arsons decreased by five, or 15%, from 33 in 2013.

### **64% of Structure Arsons Occurred in Residences**

Sixty-four percent (64%) of Middlesex County's 28 structure arsons occurred in residential occupancies. Mercantile and business facilities and educational facilities each accounted for 11% of these fires. Public assembly properties were at 7% while storage facilities and industrial properties each accounted for 4% of structure arsons in Middlesex County in 2014.

## **BUILDING FIRES**

There were 3,106 building fires of different types in Middlesex County in 2014. These 3,106 building fires accounted for 99.5% of all structure fires in Middlesex County.

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

Two thousand five hundred and thirty-three (2,533), or 82%, of Middlesex County's 3,106 building fires occurred in residential occupancies. Mercantile and business properties had 146 fires. One hundred and forty (140) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 112 fires. Sixty-five (65) building fires took place in educational facilities. Thirty-four (34) building fires in Middlesex County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Thirty-two (32) fires took place in storage properties. Twenty-two (22) fires occurred in manufacturing and processing facilities. Fifteen (15) fires in Middlesex County in 2014 took place in industrial, utility, defense, agricultural or mining facilities. One (1) fire took place in a building coded as 'Other'.

## RESIDENTIAL FIRES

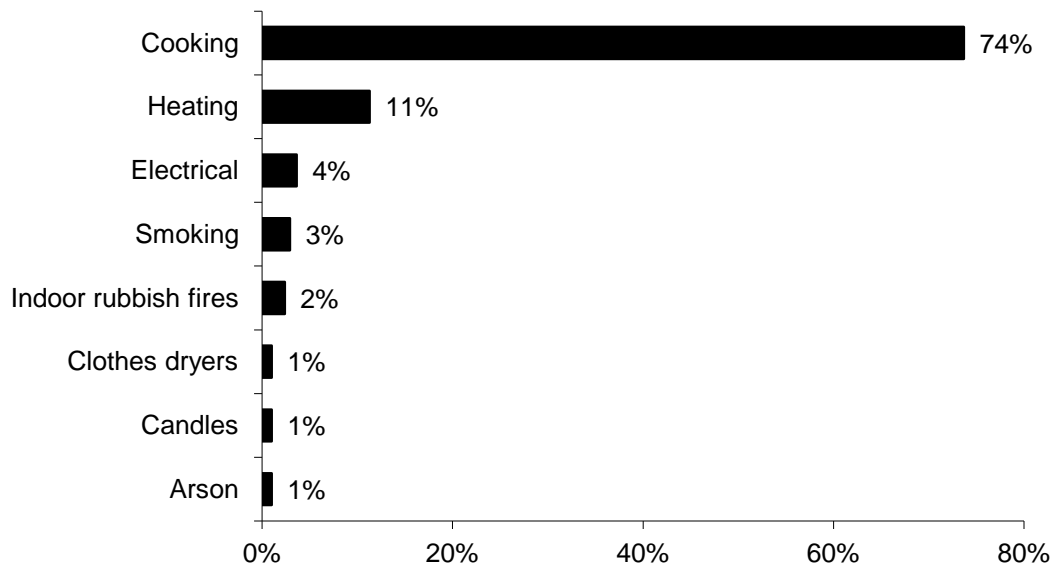
### Residential Building Fires Are Up

There were 2,533 reported residential building fires in Middlesex County in 2014. These 2,533 fires are an increase of 83, or 3%, from the 2,450 residential building fires reported in 2013.

### Unsafe Cooking Causes Almost 3/4 of All Residential Fires

The leading cause of residential building fires in Middlesex County was unattended cooking and other unsafe cooking practices, accounting for 74% of these fires. Heating caused 11% of fires in people's homes. Electrical problems caused 4%. Smoking caused 3% and indoor rubbish fires accounted for 2% of these fires. Candles, clothes dryers, and arsons each caused 1% of the residential fires in Middlesex County in 2014.

### 2014 Leading Causes of Fires in Middlesex County Homes



### 82% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Two thousand sixty-eight (2,068), or 86%, of all residential building fires were reported as confined to non-combustible containers in 2014. One thousand seven hundred and ninety-two (1,792) of the reported fires were cooking fires contained to a non-

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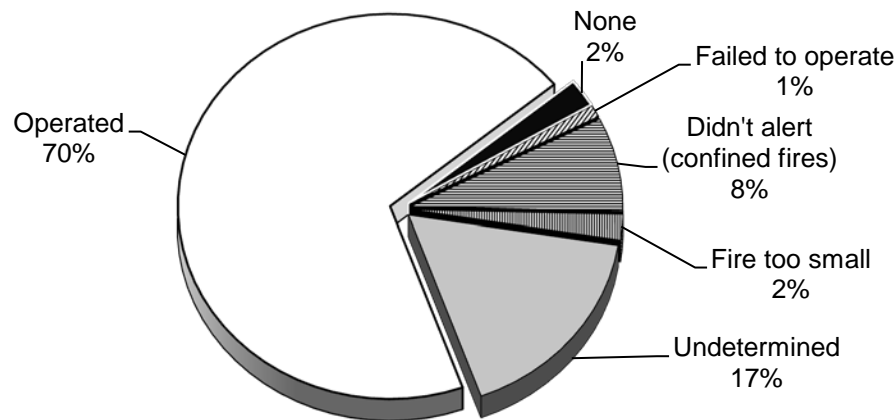
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

combustible container accounting for 71% of residential building fires. One hundred and forty-seven (147), or 3%, were fires confined to a fuel burner or boiler malfunction. Sixty-five (65), or 3%, of all residential building fires reported in 2014 were fires confined to a chimney. Sixty (60), or 2%, of these fires were rubbish fires contained to a non-combustible container. Three (3) 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 2014.

### **Alarms Alerted Occupants in 70% of Fires**

Smoke or heat alarms operated and alerted the occupants in 1,764, or 70%, of the residential building fires. In 8% of these fires<sup>2</sup>, the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In 2% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 2% of the residential fires. Smoke alarm performance was undetermined in 429 incidents, or 17%, of Middlesex County's residential building fires.

### **Detector Status in Middlesex County's Residential Structure Fires 2014**



### **38% of Failed Alarms Had Missing or Dead Batteries**

Of the 26 fires where smoke alarms were present but failed to operate, eight, or 31%, failed because the batteries were either missing or disconnected. In two, or 8%, of these cases the batteries were dead. Two (2), or 8%, failed because of a power failure, shutoff or disconnect. Two (2) units, or 8%, failed because of improper installation or placement; and another alarm, or 4%, failed because it was defective. It was undetermined or

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

unclassified in 11 cases, or 42%, why the alarms failed to operate.

## **VACANT BUILDINGS**

### **1% of Building Fires Occurred in Vacant Buildings**

Middlesex County reported 29 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 3,106 building fires reported to MFIRS in 2014. Twelve (12) fires occurred in vacant residential properties. Mercantile and business properties had six of these fires. Three (3) vacant building fires occurred each in storage facilities and manufacturing and processing facilities. Public assembly facilities had two vacant building fires. Institutional, educational facilities and special properties each had one vacant fire incident in Middlesex County in 2014.

Only one, or 3%, of the vacant building fires in Middlesex County in 2014 was determined to be intentionally set. This fire occurred in a manufacturing or processing facility.

## **JUVENILE-SET FIRES**

### **40 Juvenile-set Fires**

There were 40 reported juvenile-set fires in Middlesex County in 2014. The two structure fires and 38 brush fires caused one civilian injury and an estimated \$265 in damages.

## **ARSONS**

### **72 Total Arsons — 28 Structures, 9 Vehicles & 35 Other Arsons**

Seventy-two (72), or 1%, of Middlesex County's 4,860 fires were considered intentionally set, or, for purposes of this analysis, arson. The 28 structure arsons, nine motor vehicle arsons and 35 outside and other arsons caused two civilian injuries, three fire service injuries and an estimated dollar loss of \$500,236.

### **All Arson Down**

The total number of reported arson fires decreased by 37 from the 109 reported in 2013. Reported structure arsons decreased by five from the 33 reported in the previous year. Motor vehicle arsons decreased by two from 11 in 2013. Reported outside and other arsons decreased by 30 from 67 the year before.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 57% of All Reported Responses**

In 2014, fire departments in Middlesex County reported 177,779 responses<sup>3</sup> to MFIRS. This is a 15% increase from the 154,119 responses reported in 2013. Of these 177,779 incidents, 172,721 non-fire calls were voluntarily reported.

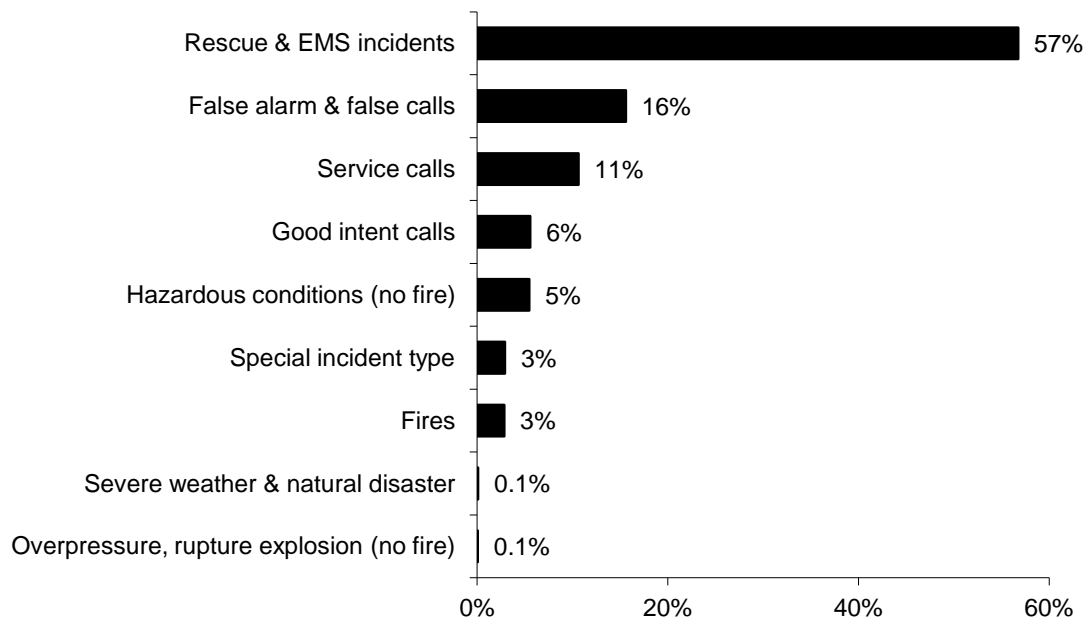
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<sup>3</sup> These figures include incidents in which Middlesex County fire departments gave mutual aid to other fire departments.

Of these 172,721 non-fire calls, 100,890, or 57%, of all the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 27,740, or 16%, were reported false alarm or false calls; 18,898, or 11%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 9,921, or 6%, were reported good intent calls; 9,730, or 5%, were reported hazardous condition calls with no fire; 5,198, or 3%, were special incident type calls such as citizen complaints; 203, or 0.1%, were severe weather responses; and 141, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Five thousand two hundred and eighty-three (5,058), or 3%, of the total responses submitted by Middlesex County fire departments were fires.

### 2014 Responses by Incident Type



### Middlesex County Fire Departments Gave Mutual Aid 2,846 Times

In 2014, Middlesex County fire departments reported coming to the aid of other fire departments 2,846 times. Of these 2,846 responses, 1,386, or 49%, were for rescue or EMS calls; 620, or 22%, were for service calls such as cover assignments; 468, or 16%, were for good intent calls; 227, or 8%, were for fires; 70, or 2%, were for false alarms or false calls; 57, or 2%, were for hazardous conditions calls with no fire; 16, or 1%, were special incident types; and two, or less than 1%, were for a reported overpressure, rupture, explosion or overheat calls with no fire.



**Middlesex County Received Mutual Aid in 1,677 Incidents**

In 2014, Middlesex County fire departments reported receiving aid from surrounding departments in 1,677 incidents. Of these 1,677 incidents, 1,196, or 71%, were rescue and emergency medical services calls; 239, or 14%, were for fires; 114, or 7%, were false alarms or false calls; 42, or 3%, were hazardous conditions calls with no fire; 41, or 2%, were good intent calls; 34, or 2%, were service calls; seven, or less than 1%, were severe weather calls; three, or less than 1%, were for a reported overpressure, rupture, explosion or overheat calls with no fire; and one, or less than 1%, was a special incident type.

**Middlesex County****Population: 1,503,085****3.2 Fires/1,000 Population****Total Fires: 4,860 \$46,522,485**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	3,115	64%	\$38,852,679
Vehicle Fires	410	8%	6,516,657
Other Fires	1,335	27%	1,153,149

11 Fatal Fires                      3.70 Civilian Deaths/1,000 Fires  
 18 Civilian Deaths                0.12 Civilian Deaths/10,000 Population  
 47 Civilian Injuries                85 Fire Service Injuries

**Building Fires: 3,106****Residential Building Fires: 2,533****Residential Building Fires Confined to Non-Combustible Containers: 2,068****Unconfined Residential Building Fires: 465**

18 Civilian Deaths      34 Civilian Injuries      59 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	1,221	48%	Operated	1,764	70%
1- & 2-Family homes	895	25%	Didn't operate	26	1%
Dormitories	181	7%	None	60	2%
Rooming houses	58	2%	Fire too small	54	2%
Residential board & care	40	2%	Didn't alert (confined)	200	8%
Hotels or motels	25	1%	Undetermined	429	17%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	75%	Heat from operating eq.	3%	17%
Heating equipment room	6%	Cigarette	2%	11%
Chimney or flue	3%	Radiated heat/oper. eq.	2%	10%
Bedroom	2%	Arcing	2%	10%
Exterior balcony/unencl. porch	1%	Hot ember or ash	1%	5%

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Food, cooking materials	72%	Too close to combustibles	2%	9%
Flammable, combustible liquid	6%	Abandoned materials	2%	8%
Film, residue (creosote)	3%	Elec. failure or malfunction	1%	6%
Rubbish, trash, waste	3%	Misuse of material or prod.	1%	5%
Structural member, framing	1%	Equipment unattended	1%	4%
Electrical wire, cable insulation	1%	Failure to clean	0.4%	2%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	73%	Unintentional	11%	58%
None	10%	Failure of eq. or heat source	3%	17%
Boiler, furnace, cent. heat unit	6%	Intentional	1%	3%
Chimney or flue	3%	Act of nature	1%	3%
Clothes dryer	1%	Undetermined	2%	8%
		Cause under investigation	2%	8%

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

Alerted occupants	74%
Didn't alert occupants	10%
Undetermined	17%

<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	388	315	37	36
February	313	252	33	28
March	312	220	25	67
April	530	294	36	200
May	509	292	35	182
June	427	201	42	184
July	448	240	32	176
August	385	216	31	138
September	444	257	46	141
October	357	259	26	72
November	401	302	31	68
December	346	267	36	43

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	745	483	52	210
Monday	729	427	68	234
Tuesday	662	418	66	178
Wednesday	663	421	60	182
Thursday	707	478	59	170
Friday	669	435	57	177
Saturday	685	453	48	184

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	280	208	25	47
04:01 - 08:00	283	172	47	64
08:01 - 12:00	838	528	101	209
12:01 - 16:00	1,292	723	103	466
16:01 - 20:00	1,386	939	80	367
20:01 - 00:00	781	545	54	182

### **Motor Vehicle Fires**

Total: 410

Automobiles: 335 (82%)

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

## Arson Fires

**Total Arsons: 72**

**Dollar loss: \$500,236**

### 0.05 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	28	1%	39%	\$451,442
Vehicle Arsons	9	2%	13%	46,800
Other Arsons	35	1%	49%	1,994

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.02 Other arsons/1,000 population

2 Civilian Injuries

3 Fire Service Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
00:01 - 04:00	9	32%	20:01 - 00:00	4	44%
16:01 - 20:00	8	29%	00:01 - 04:00	2	22%
12:01 - 16:00	5	18%			

Other Arsons	#	%
20:01 - 00:00	11	31%
12:01 - 16:00	9	26%
08:01 - 12:00	5	14%
16:01 - 20:00	5	14%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartment buildings	9	32%
1- & 2-Family homes	5	18%
High/junior high/middle school	2	7%
Dormitory type residence, other	2	7%

**Acton** **Population: 21,924**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	38	18	3	17	3	0	0	3

**Arlington** **Population: 42,844**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	62	32	7	23	3	1	0	2

**Ashby** **Population: 3,074**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	3	0	0	0	0	0	0

**Ashland** **Population: 16,593**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	1	0	0	0	0	0	0

					Population: 7,427			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	14	8	0	6	1	0	0	1

					Population: 13,320			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	23	12	3	8	2	0	0	2

					Population: 24,729			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	97	74	5	18	2	0	0	2

					Population: 40,243			
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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
2014	103	47	17	39	5	4	1	0

**Boxborough****Population: 4,996**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	16	3	2	11	0	0	0	0

**Burlington****Population: 24,498**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	74	33	7	34	0	0	0	0

**Cambridge****Population: 105,162**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	824	741	10	73	4	2	0	2

**Carlisle****Population: 4,852**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	1	1	0	0	0	0	0



**Chelmsford****Population: 33,802**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	24	9	12	3	0	0	0	0

**Concord****Population: 17,668**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	44	17	8	19	2	0	0	2

**Devens****Population: 3,290**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	24	1	2	18	0	0	0	0

**Dracut****Population: 29,457**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	53	24	12	17	3	1	1	1

<b>Dunstable</b>					<b>Population: 3,179</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	12	7	1	4	0	0	0	0

<b>Everett</b>					<b>Population: 41,667</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	128	78	10	40	7	3	0	4

<b>Framingham</b>					<b>Population: 68,318</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	494	401	27	66	2	0	1	1

<b>Groton</b>					<b>Population: 10,646</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	1	0	0	0	0	0	0

**Holliston****Population: 13,547**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	5	4	1	0	0	0	0	0

**Hopkinton****Population: 14,925**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	24	5	22	2	0	1	1

**Hudson****Population: 19,063**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	30	15	3	12	3	1	1	1

**Lexington****Population: 31,394**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	26	16	8	2	0	0	0	0

<b>Lincoln</b>					<b>Population: 6,362</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	36	35	1	0	1	1	0	0

<b>Littleton</b>					<b>Population: 8,924</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	28	12	6	10	0	0	0	0

<b>Lowell</b>					<b>Population: 106,519</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	478	307	43	128	11	8	2	1

<b>Malden</b>					<b>Population: 59,450</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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 <sup>10</sup>	97	61	10	26	0	0	0	0
2014	148	94	9	45	0	0	0	0

<sup>10</sup> Malden only reported the last 6 months of runs for 2013.

**Marlborough****Population: 38,499**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	130	56	23	51	1	1	0	0

**Maynard****Population: 10,106**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	19	17	1	1	0	0	0	0

**Medford****Population: 56,173**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	225	125	15	85	0	0	0	0

**Melrose****Population: 26,983**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	26	19	4	3	1	1	0	0

**Natick****Population: 33,006**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	86	31	8	47	0	0	0	0

**Newton****Population: 85,146**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	118	61	14	43	0	0	0	0

**North Reading****Population: 14,892**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	12	11	0	1	0	0	0	0

**Pepperell****Population: 11,497**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	35	15	4	16	0	0	0	0

<b>Reading</b>					<b>Population: 24,747</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	62	39	7	16	2	0	0	2

<b>Sherborn</b>					<b>Population: 4,119</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	5	2	8	0	0	0	0

<b>Shirley</b>					<b>Population: 7,211</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014 <sup>11</sup>	Fire Department in Good Standing, Certified No Reportable Fires							

<b>Somerville</b>					<b>Population: 75,754</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	370	275	14	81	2	0	1	1

<sup>11</sup> In 2014 Shirley did not report any fires but they did report 1 Hazardous conditions with no fire incident.

**Stoneham****Population: 21,437**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	67	52	9	6	0	0	0	0

**Stow****Population: 6,590**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	13	8	0	5	0	0	0	0

**Sudbury****Population: 17,659**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	12	3	6	2	1	0	1

**Tewksbury****Population: 28,961**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	84	30	13	41	2	0	0	2



**Townsend****Population: 8,926**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	4	1	2	0	0	0	0

**Tyngsborough****Population: 11,292**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	35	6	5	24	0	0	0	0

**Wakefield****Population: 24,932**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	46	38	7	1	0	0	0	0

**Waltham****Population: 60,632**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	167	73	16	78	3	1	1	1

**Watertown** **Population: 31,915**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	63	16	5	42	2	0	0	2

**Wayland** **Population: 12,994**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	20	8	3	9	0	0	0	0

**Westford** **Population: 21,951**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	29	5	3	21	0	0	0	0

**Weston** **Population: 11,261**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	38	20	11	7	1	1	0	0

**Wilmington** **Population: 22,325**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	67	35	12	20	1	0	0	1

**Winchester** **Population: 21,374**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	39	22	1	16	2	1	0	1

**Woburn** **Population: 38,120**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	230	114	26	90	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
17002	Acton	4,662	38	7	1,548	150	442	110	306	0	2,061
17010	Arlington	3,500	68	2	2,171	283	297	133	508	34	4
17012	Ashby	13	9	0	0	0	3	1	0	0	0
17014	Ashland	1	1	0	0	0	0	0	0	0	0
17019	Ayer	651	19	0	65	67	279	71	143	2	5
17023	Bedford	2,931	34	2	1,458	152	212	84	415	6	568
17026	Belmont	2,700	102	0	1,425	124	321	216	495	12	5
17031	Billerica	4,305	104	6	2,818	282	427	81	562	17	8
17037	Boxborough	452	18	0	135	23	124	23	117	2	10
17048	Burlington	3,921	81	1	2,488	135	425	164	620	7	0
17049	Cambridge	12,615	826	10	5,645	719	676	1,922	2,807	1	9
17051	Carlisle	3	2	0	0	1	0	0	0	0	0
17056	Chelmsford	31	24	2	0	5	0	0	0	0	0
17067	Concord	3,131	48	0	1,768	171	250	146	724	9	15
17919	Devens	695	29	1	198	36	263	32	129	4	3
17079	Dracut	2,882	60	2	1,854	127	317	57	458	2	5
17081	Dunstable	236	18	1	122	12	35	13	32	1	2
17093	Everett	5,510	132	2	3,524	230	350	437	827	6	2
17100	Framingham	9,941	498	2	6,640	246	861	599	1,092	1	2
17115	Groton	482	2	17	104	71	61	23	200	4	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	5	5	0	0	0	0	0	0	0	0
17139	Hopkinton	1,711	63	0	1,023	122	149	110	231	1	12
17141	Hudson	3,594	36	6	1,686	297	574	122	451	11	411
17155	Lexington	31	26	0	0	5	0	0	0	0	0
17157	Lincoln	947	41	1	407	69	84	32	255	8	50
17158	Littleton	1,536	39	0	967	67	164	98	194	3	4
17160	Lowell	15,719	489	14	9,513	648	1,670	799	2,485	5	96
17165	Malden	6,887	150	3	4,856	170	510	215	955	7	21
17170	Marlborough	6,067	131	7	3,547	283	508	484	1,066	4	37
17174	Maynard	1,575	27	1	862	56	163	128	199	0	139
17176	Medford	9,237	241	4	5,845	605	911	463	1,151	7	10
17178	Melrose	33	30	1	0	2	0	0	0	0	0
17198	Natick	4,876	88	3	3,074	272	453	253	711	3	19
17207	Newton	9,186	118	7	4,729	605	1,453	328	1,945	1	0
17213	North Reading	547	13	0	305	32	86	47	61	2	1
17232	Pepperell	1,104	35	1	708	30	107	48	170	2	3
17246	Reading	215	62	0	7	73	17	23	29	1	3
17269	Sherborn	487	17	0	264	26	54	48	78	0	0
17270	Shirley	1	0	0	0	1	0	0	0	0	0
17274	Somerville	12,984	370	13	6,388	907	2,053	686	2,260	1	306

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17284	Stoneham	3,062	67	0	2,052	379	213	102	247	2	0
17286	Stow	676	16	0	441	20	66	35	94	1	3
17288	Sudbury	1,574	23	0	922	95	102	101	292	2	37
17295	Tewksbury	4,253	84	8	2,595	100	771	225	446	2	22
17299	Townsend	498	8	0	344	20	59	32	35	0	0
17301	Tyngsborough	1,312	35	0	528	225	231	58	233	1	1
17305	Wakefield	129	46	0	0	9	0	0	74	0	0
17308	Waltham	8,455	175	5	4,904	510	920	441	1,448	6	46
17314	Watertown	4,425	69	3	2,823	209	473	133	675	5	35
17315	Wayland	3,205	23	2	1,038	255	454	68	182	1	1,182
17330	Westford	1,292	30	1	784	43	158	42	227	0	7
17333	Weston	2,395	43	1	1,213	186	224	105	615	8	0
17342	Wilmington	2,804	67	0	1,943	120	121	272	273	3	5
17344	Winchester	2,107	45	2	1,097	313	191	97	358	2	2
17347	Woburn	6,195	233	3	4,065	143	616	215	867	6	47
<b>Middlesex County</b>		<b>177,786</b>	<b>5,058</b>	<b>141</b>	<b>100,893</b>	<b>9,731</b>	<b>18,898</b>	<b>9,922</b>	<b>27,742</b>	<b>203</b>	<b>5,198</b>

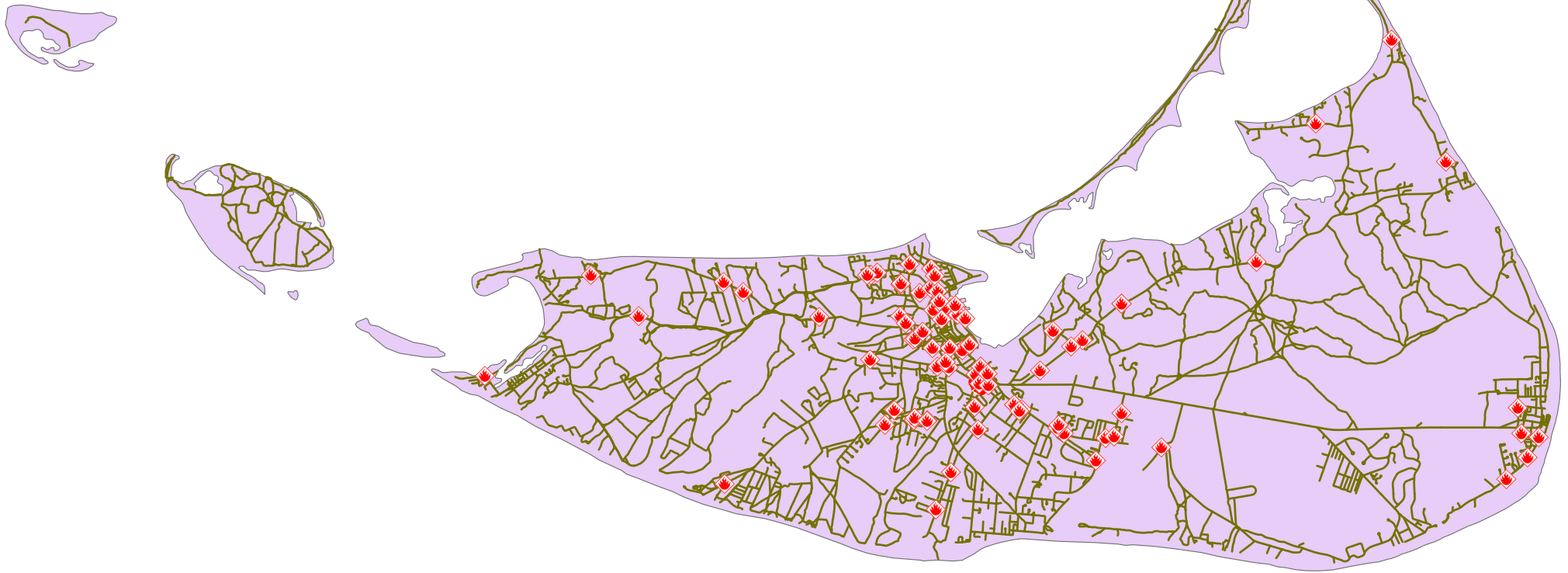
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.





# Nantucket County

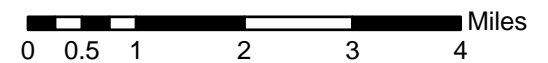
## 2014 Fire Data Analysis

# Nantucket County Fires 2014



## 2014 Nantucket Fires

-  2014 Nantucket Fires
-  Fire Stations





# Nantucket County Fires in 2014

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## **82 Total Fires — 41 Structures, 11 Vehicles & 30 Outside and Other Fires**

Nantucket County ranked thirteenth out of the fourteen Massachusetts counties in total reported fires. The Nantucket Fire Department reported 82 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 41 structure fires, six brush fires, five special outside fires, and 19 unclassified fires caused one civilian death and an estimated dollar loss of \$472,543. Nantucket County's fires accounted for 0.3% of the 28,999 Massachusetts fires reported in 2014.

## **All Fires Up**

The total number of reported fire incidents increased by 46 from the 36 fires reported in 2013. Structure fires increased by five from the 36 reported in 2013. Motor vehicle fires increased by 11 from none reported the previous year. Reported outside and other fires increased by 20 from the 10 reported in 2013.

Nantucket is an island community with a small year round population. During the summer months, the population increases immensely. Consequently, 62% of Nantucket's fires occurred between the months of May and September.

## **NANTUCKET FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	46	36	0	10	0	0	0	0
2014	82	41	11	30	3	0	1	2

## **Fire and Fire Death Rates**

Nantucket County had 8.1 fires per 1,000 population. That figure ranks Nantucket County second in the state and above the state rate of 4.4 fires per 1,000 population. Nantucket County also had 0.98 fire deaths per 10,000 population, ranking it first among Massachusetts counties and above the state rate of 0.08 fire deaths per 10,000 population.

## **1 Reported Fire Death in Nantucket County**

There was one fire death in 2014 in Nantucket County. This was a self-immolation in a car.

- On October 30, 2014, at 10:05 a.m., the Nantucket Fire Department was dispatched to a fatal motor vehicle fire in a parking lot near Low Beach. The victim, a 63-year old man, parked his van and ignited it in an apparent suicide attempt. No one else was injured at this fire.

**1-Family Home Fire Largest Dollar Loss in 2014**

In 2014 Nantucket none of their 82 fires had a dollar loss greater than \$1 million. There was one fire with a dollar loss greater than \$100,000. This fire caused \$448,400 in estimated damages and was responsible for 95% of the total dollar for Nantucket in 2014.

- On June 23, 2014, at 1:43 a.m., the Nantucket Fire Department was called to a fire in a single-family home of undetermined cause. No one was injured at this fire. Alarms were present and alerted the occupants. The home did not have any sprinklers. Damages to the building were estimated to be \$448,400.

**STRUCTURE FIRES****Reported Structure Fires Up**

There were 41 structure fires in Nantucket in 2014. These incidents represented 50% of Nantucket County's reported fires in 2014. These 41 fires caused \$458,400 in estimated losses in 2014. The total number of reported structure fires increased by five from the 36 reported in 2013.

**No Reported Structure Arsons**

Nantucket County did not report any structure arsons in 2014. The last year that Nantucket reported a structure arson was 2003.

**BUILDING FIRES**

There were 41 building fires of different types in Nantucket County in 2014. These 41 building fires accounted for all of the structure fires in Nantucket County.

**95% of Nantucket Building Fires Occurred in People's Homes**

Thirty-nine (39), or 95%, of Nantucket County's 41 building fires occurred in residential occupancies. One (1) happened at public assembly property and another fire took place in an unclassified property.

**RESIDENTIAL FIRES****Residential Building Fires Up**

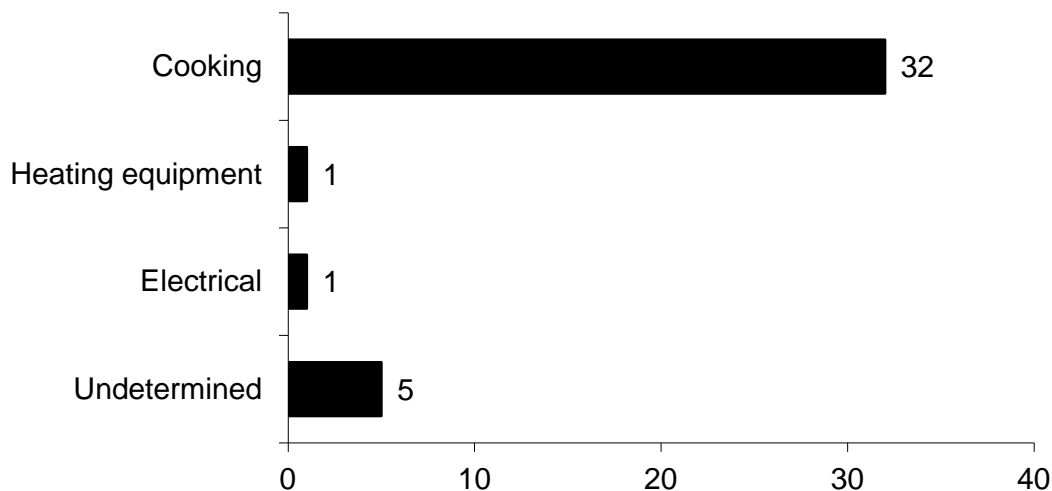
There were 39 reported residential building fires in Nantucket County in 2014. These 39 fires are an increase of nine, or 30%, over the 30 reported in 2013. Thirty (30), or 77%, occurred in one- or two-family homes; three, or 8%, happened in hotels or motels; another three, or 8%, occurred in dormitories; one, or 3%, happened in an apartment; one, or 3%, occurred in a residential board and care facility; and one, or 3%, happened in a rooming house.

**Cooking Fires Cause 32 of 39 Residential Fires**

The leading cause of residential building fires in Nantucket County was unattended cooking and other unsafe cooking practices, accounting for 32, or 82%, of these fires. Heating equipment caused one, or 3%, of these fires. An electrical problem was the cause

of one, or 3%, of Nantucket's 2014 residential fires. The cause was not determined for the other five residential fires.

### 2014 Leading Causes of Fires in Nantucket Homes



### 33 Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Thirty-three (33), or 85%, of all residential building fires were reported as confined to non-combustible containers in 2014. Thirty-two (32) of the reported fires were cooking fires contained to a non-combustible container accounting for 82% of the residential fires. One (1), or 3%, of Nantucket's residential fires was a fuel burner or boiler malfunction.

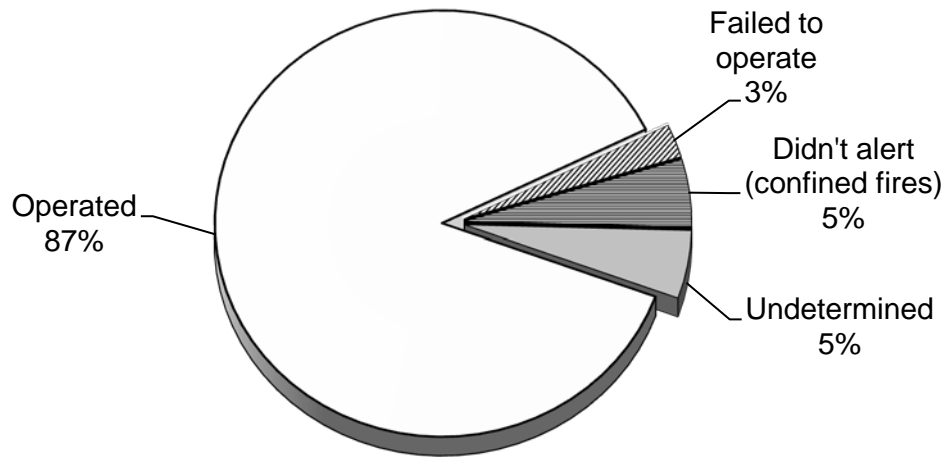
### Detectors Alerted Occupants in 87% of Fires

Smoke or heat detectors operated and alerted the occupants in 34, or 87%, of the residential building fires. In two, or 5%, of these fires<sup>2</sup> the detectors did not alert the occupants. In one, or 3%, of these fires, the detector failed to operate because of a lack of maintenance. There were no reported fires where there were no detectors. There were no reported fires where the fire was too small to activate the detector. Detector performance was undetermined in two, or 5%, of Nantucket's residential fires.

<sup>1</sup> 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.

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

### Detector Status in Nantucket County's Residential Fires 2014



### VACANT BUILDING FIRES

#### 2% of Building Fires Occurred in Vacant Buildings

Nantucket County reported 3 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 41 building fires reported to MFIRS in 2014. Three (3) fires occurred in vacant residential properties. One (1) vacant building fire occurred in an unclassified property.

None of the vacant building fires in Nantucket County in 2014 were determined to be intentionally set.

### JUVENILE-SET FIRES

#### No Juvenile-set Fires

Nantucket County did not report any juvenile-set fires in 2014.

### ARSONS

#### 3 Total Arsons<sup>3</sup> — 2 Outside & 1 Vehicle Arsons

<sup>3</sup> 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.

Three (3), or 4%, of Nantucket County's 82 fires were considered intentionally set, or, for purposes of this analysis, arson. The one motor vehicle arson and two outside and other arsons caused one civilian death.

### All Arson Up

The total number of arsons increased by three because Nantucket did not report any in 2013. Motor vehicle arsons increased by one from the none reported in 2013. Outside and other arsons increased by two from none reported the previous year.

## ALL INCIDENTS

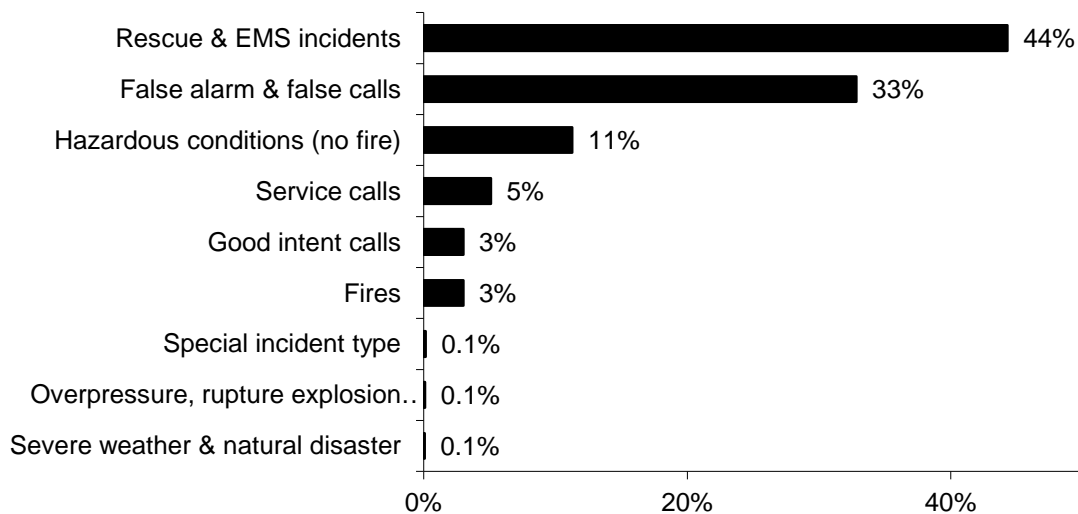
### Rescue & EMS Calls Are 44% of All Reported Incidents

In 2014, Nantucket County reported 3,044 responses to MFIRS. Of these 3,044 incidents, 2,954 non-fire calls were voluntarily reported.

Of these 2,954 non-fire calls, 1,348, or 44%, of the total responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 999, or 33%, were reported false alarm or false calls; 343, or 11%, were reported hazardous condition calls with no fire; 155, or 5%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 100, or 3%, were reported good intent calls; four, or 0.1%, were special incident types; three, or 0.1%, were overpressure, rupture or explosion calls with no fire; and two, or 0.1%, were severe weather calls.

Ninety (90), or 3%, of the total responses submitted by the Nantucket Fire Department were fires.

### 2014 Incidents by Incident Type



**Nantucket County****Population: 10,172****8.1 Fires/1,000 Population****Total Fires: 82 \$472,543**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	41	50%	\$458,400
Vehicle Fires	11	13%	14,143
Other Fires	30	37%	0

1 Fatal Fire 12.20 Civilian Deaths/1,000 Fires  
 1 Civilian Death 0.98 Civilian Deaths/10,000 Population  
 No Injuries

**Building Fires: 41****Residential Structure Fires: 39****Residential Structure Fires Confined to Non-Combustible Containers: 33****Unconfined Residential Structure Fires: 6**

No Casualties

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	30	77%	Operated	34	87%
Dormitories	3	8%	Didn't operate	1	3%
Hotels, motels	3	8%	None	0	0%
Apartments	1	3%	Fire too small	0	0%
Rooming houses	1	3%	Didn't alert (confined)	2	5%
Residential board & care	1	3%	Undetermined	2	5%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	85%	Undetermined	13%	83%
Heating room or area	5%	Heat from oper. eq., other	3%	17%
Bedroom	3%			
Exterior balcony, unencl. porch	3%			
Substructure area, crawl space	3%			

<sup>4</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>5</sup> 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.

<b>Item First Ignited<sup>6</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Cooking materials	82%	Storm	3%	17%
Undetermined	10%			
Mattress, pillow	3%			
Electrical wire, cable insulation	3%			
Flammable, combustible liquid	3%			

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Cooking equipment	82%	Unintentional	3%	17%
None	13%	Act of nature	0%	0%
Boiler, furnace, cent. heat. unit	3%	Failure of eq. or heat source	0%	0%
Generator	3%	Cause under investigation	10%	67%
		Undetermined	3%	17%
		Intentional	0%	0%

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

Alerted Occupants	91%
Didn't Alert Occupants	6%
Undetermined	3%

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<sup>6</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>7</sup> 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.

<sup>8</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>9</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	1	0	0	1
February	5	1	1	3
March	8	5	1	2
April	3	0	0	3
May	12	6	1	5
June	7	3	2	2
July	14	6	4	4
August	12	8	1	3
September	6	2	0	4
October	8	5	1	2
November	0	0	0	0
December	6	5	0	1

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	10	6	0	4
Monday	8	4	1	3
Tuesday	10	6	0	4
Wednesday	12	8	0	4
Thursday	14	4	5	5
Friday	13	7	1	5
Saturday	15	6	4	5

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	4	1	1	2
04:01 - 08:00	4	1	0	3
08:01 - 12:00	14	10	1	3
12:01 - 16:00	24	9	4	11
16:01 - 20:00	17	8	3	6
20:01 - 00:00	19	12	2	5

### **Motor Vehicle Fires**

Total: 11

Automobiles: 7 (64%)

1, or (14%), of the automobile fires were considered intentionally set.



**Arson Fires****Total Arsons: 3****Dollar loss: \$0****0.3 Arson Fires/1,000 Population**

<b>Situation</b>	<b>Arsons</b>	<b>% Situation</b>	<b>% Arson</b>	<b>Loss</b>
Structure Arsons	0	0%	0%	\$0
Vehicle Arsons	1	9%	33%	0
Other Arsons	2	7%	67%	0

0.00 Structure arsons/1,000 population

0.10 Vehicle arsons/1,000 population

0.20 Other arsons/1,000 population

1 Civilian Death

**Peak Times of Day for:**

<b>Structure Arsons</b>	<b>#</b>	<b>%</b>	<b>Vehicle Arsons</b>	<b>#</b>	<b>%</b>
			08:01 – 12:00	1	100%

<b>Other Arsons</b>	<b>#</b>	<b>%</b>
12:01 – 16:00	1	50%
16:01 – 20:00	1	50%

## Responses Reported to MFIRS by Month

<b>Incident Type</b>	<b># of Incidents</b>	<b>January</b>	<b>February</b>	<b>March</b>	<b>April</b>	<b>May</b>	<b>June</b>	<b>July</b>	<b>August</b>	<b>September</b>	<b>October</b>	<b>November<sup>10</sup></b>	<b>December</b>
Fires	90	1	5	8	3	12	7	14	12	6	8	8	6
Overpressure, rupture explosion (no fire)	3	0	0	0	0	0	1	1	0	1	0	0	0
Rescue & EMS incidents	1,348	107	67	87	76	127	137	196	180	106	65	102	98
Hazardous conditions (no fire)	343	31	25	21	16	34	32	38	48	32	25	22	19
Service calls	155	22	4	7	5	10	6	35	18	11	11	11	15
Good intent calls	100	12	7	11	6	10	11	10	9	11	3	5	5
False alarm & false calls	999	68	43	71	72	103	88	128	108	80	80	77	81
Severe weather & natural disaster	2	0	0	0	0	0	0	2	0	0	0	0	0
Special incident type	4	0	0	0	0	0	0	0	2	1	0	1	0
<b>Total</b>	<b>3,044</b>	<b>241</b>	<b>151</b>	<b>205</b>	<b>178</b>	<b>296</b>	<b>282</b>	<b>424</b>	<b>377</b>	<b>248</b>	<b>192</b>	<b>226</b>	<b>224</b>

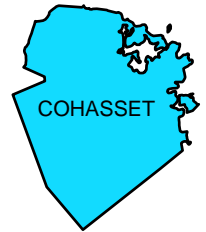
<sup>10</sup> Because of computer issues, the November data was submitted after the 2014 MFIRS database was closed for analysis and these runs were not included in this analysis.

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



# Norfolk County

## 2014 Fire Data Analysis



Legend for the number of children in the household:

- 0
- 1 - 25
- 26 - 50
- 51 - 100
- 101 - 220
- 221 - 699

0 1 2 4 6 8 Miles



# Norfolk County Fires in 2014

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## **3,130 Total Fires — 1,812 Structures, 245 Vehicles & 1,073 Other Fires**

Norfolk County ranked fourth out of the fourteen Massachusetts counties in total reported fires. Norfolk County fire departments reported 3,130 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 1,812 structure fires, 245 motor vehicle fires, 665 brush, tree or lawn fires, 187 outside rubbish fires, 109 special outside fires, 11 cultivated vegetation or crop fires, and 101 other fires caused two civilian deaths, 19 civilian injuries, 54 fire service injuries and an estimated dollar loss of \$19.2 million. Norfolk County's fires accounted for 11% of the 28,999 Massachusetts fires reported in 2014.

Twenty-seven (27) of the 28 fire departments in Norfolk County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2014. This represents 96.4% of all Norfolk County fire departments.

## **All Fires Up**

The total number of reported fire incidents increased by 244 from the 2,886 reported in 2013. Reported structure fires increased 12 from the 1,800 reported during the previous year. Motor vehicle fires increased by five from the 240 reported the year before. Reported outside and other fires increased 227 from the 846 reported a year earlier.

## **NORFOLK COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	2,886	1,800	240	846	59	6	4	49
2014	3,130	1,812	245	1,073	78	11	5	62

## **Fire and Fire Death Rates**

Norfolk County had 4.7 fires per 1,000 population. That figure ranks Norfolk County third in the state and above the state rate of 4.4 fires per 1,000 population. Norfolk County also had 0.03 fire deaths per 10,000 population ranking it tenth among Massachusetts counties and below the state rate of 0.08 fire deaths per 10,000 population.

## **2 Norfolk Fires Kill 2 People**

In 2014, two fires killed two Norfolk County residents.

- On February 2, 2014, at 2:40 a.m., the Quincy Fire Department was called to a fatal fire in a small wooded lot. The victim, a 50-year old homeless man, was using a fire to cook with and keep warm when he slipped or tripped too close to the fire and his clothing ignited. His body was discovered while firefighters extinguished the fire.

- On August 28, 2014, at 3:56 p.m., the Norwood Fire Department was dispatched to a motor vehicle fire on the side of the road. The driver and only occupant of the vehicle had poured gasoline inside his pick-up truck and then ignited it in a suicide attempt. The victim, a 75-year old man was transported to a local hospital where he succumbed to his injuries. No one else was injured in this fire. Damages from this fire were estimated to be \$45,000

### **Canton Has Norfolk County's Largest Loss Fire in 2014**

There were three fires in Norfolk County that caused over \$1 million in estimated damages. These three fires accounted for \$5.4 million in estimated damages and 28% of the total dollar loss for the county.

- The Canton Fire Department was dispatched to a fire at the Shaw's Supermarket at 1:06 a.m. on September 24, 2014. The fire started in a refrigeration unit. One (1) civilian employee of the store was injured at this fire. Alarms were present and alerted the occupants of the store. There were sprinklers and they suppressed the fire. Damages from this fire were estimated to be \$3 million mostly from the smoke and water damage to the food products.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 1,812 structure fires caused 14 civilian injuries, 44 fire service injuries and an estimated dollar loss of \$17.2 million. These incidents represented 58% of Norfolk County's reported fires in 2014. The average estimated dollar loss per structure fire was \$9,495. The total number of reported structure fires increased by 12, or 1%, from the 1,800 reported in 2013.

### **Arson Caused 1% of Structure Fires**

The 11 structure arsons caused an estimated dollar loss of \$1.2 million. Arson was indicated as the cause of 1% of the structure fires and 7% of Norfolk County's structure fire dollar loss. The 11 structure arsons accounted for 14% of the Norfolk County arson fires reported in 2014. The total number of reported structure arsons increased by five, or 83%, from six in 2013.

### **7 of 11 Structure Arsons Occur in Residential Properties**

Seven, or 64%, of Norfolk County's 11 structure arsons occurred in residential occupancies. One (1) fire, or 9%, happened each at an educational facility, an institutional facility, a mercantile or business property, and a manufacturing or processing facility.

## **BUILDING FIRES**

There were 1,806 building fires of different types in Norfolk County in 2014. These 1,806 building fires accounted for 99.7% of all structure fires in Norfolk County.

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

One thousand five hundred and fifty-nine (1,559), or 86%, of Norfolk County's 1,806 building fires occurred in residential occupancies. Mercantile and business properties had 79 fires. Fifty-nine (59) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 50 fires. Thirty-three (33) building fires took place in educational properties. Eleven (11) fires took place in storage properties. Nine (9) building fires in Norfolk County occurred in special properties such as outbuildings, bus stop shelters and telephone booths. Seven (7) fires took place in manufacturing and processing facilities and one fire occurred in an industrial facility. One (1) fire occurred in an unclassified building in Norfolk County in 2014.

**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 52% of the residential building fires in Norfolk County; 37% occurred in 1- or 2-family homes; 4% happened in rooming houses; 2% occurred in dormitories; 1% occurred in residential board and care facilities; and 1% happened in hotels or motels. Fifty-two (52), or 3%, of the residential building fires in Norfolk County occurred in unclassified residential buildings.

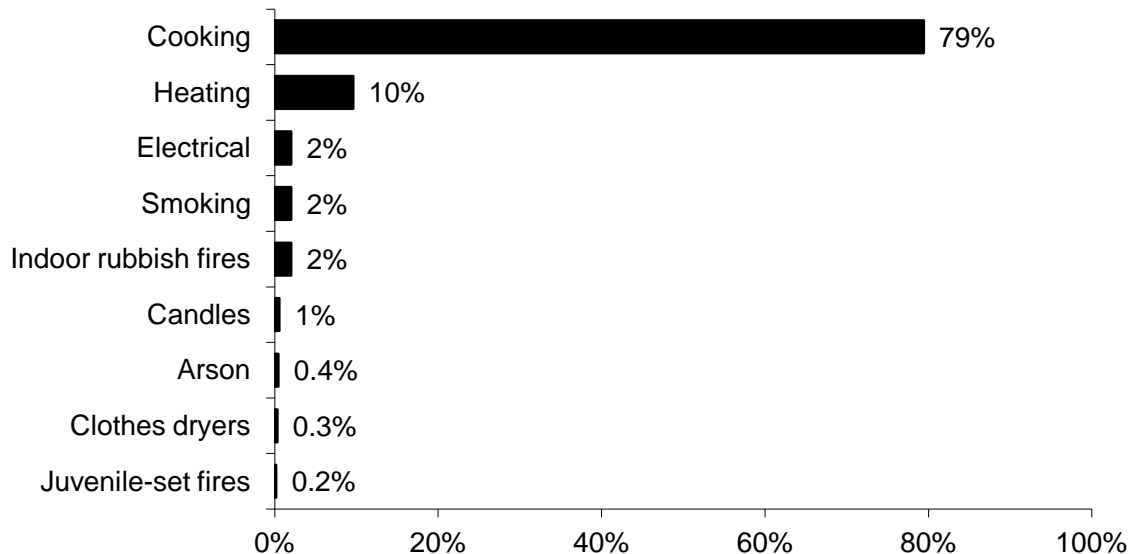
**Residential Building Fires Increased**

There were 1,559 reported residential building fires in Norfolk County in 2014. These 1,559 fires are an increase of 19, or 1%, from the 1,540 residential building fires reported in 2013.

**Cooking Caused 79% of Residential Fires**

The leading cause of residential building fires in Norfolk County was unattended cooking and other unsafe cooking practices, accounting for 79% of the fires. Heating caused 10% of fires in people's homes. Electrical problems, smoking and indoor rubbish fires each caused 2% of these fires. Candles caused 1% of these fires. Arson, clothes dryers and juvenile-set fires each caused less than 1% of the residential building fires in Norfolk County in 2014.

## 2014 Leading Causes of Fires in Norfolk County Homes



### 88% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

One thousand three hundred and sixty-seven (1,367), or 88%, of all residential building fires were reported as confined to non-combustible containers in 2014. One thousand two hundred and fifteen (1,215) of the reported fires were cooking fires contained to a non-combustible container, accounting for 78% of residential building fires. Seventy-one (71), or 5%, were fires confined to a fuel burner or boiler malfunction. Fifty-four (54), or 3%, of all residential building fires reported in 2014 were fires confined to a chimney. Twenty-six (26), or 2% of Norfolk County's residential fires in 2014 were contained rubbish fires. A commercial compactor fire 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 972, or 62%, of the residential building fires. In 13% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 1% of these incidents. In 1% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 2% of the

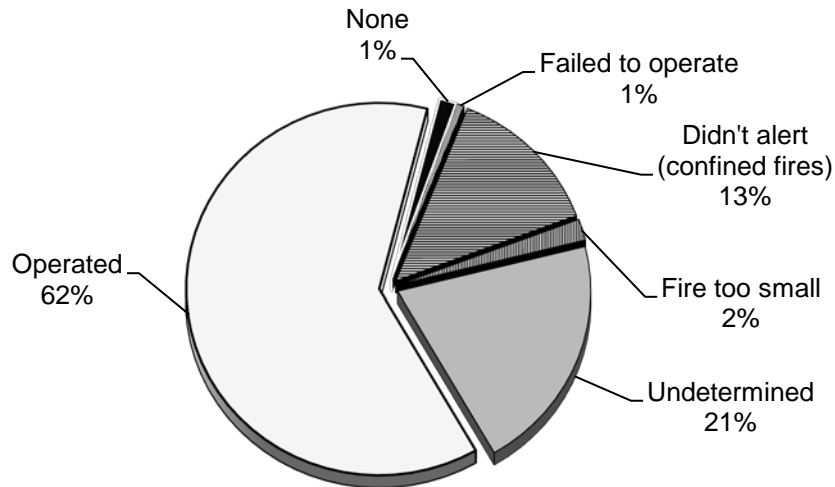
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

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



residential fires. Smoke detector performance was undetermined in 320 incidents, or 21%, of Norfolk County's residential building fires.

### Detector Status in Norfolk County's Residential Structure Fires 2014



#### 3 Detectors Failed from Missing Batteries

Of the 10 fires where smoke detectors were present but failed to operate, three, or 30%, failed because of missing or disconnected batteries. One (1), or 10%, failed because the power was shut-off or disconnected. A lack of maintenance was responsible for one incident of a detector that failed to operate, or 10%. It was undetermined or unclassified in five cases, or 50%, why the detectors failed to operate.

#### VACANT BUILDINGS

##### 1% of Building Fires Occurred in Vacant Buildings

Norfolk County reported 15 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 1,806 building fires reported to MFIRS in 2014. Nine (9) fires occurred in vacant residential properties. Two (2) fires occurred at vacant businesses. A vacant public assembly facility, a storage property and a manufacturing or processing facility each had one fire. And an 'Other' property reported one vacant building fire.

One (1), or 7%, of the vacant building fires in Norfolk County in 2014 were determined to be intentionally set. The one vacant building arson occurred in a manufacturing or processing facility.

## JUVENILE-SET FIRES

### 16 Juvenile-set Fires

There were 16 reported juvenile-set fires in Norfolk County in 2014. The three structure fires, 11 brush fires, and two other fires caused two civilian injuries and \$100,000 in estimated damage.

## ARSONS

### 78 Total Arsons - 11 Structures, 5 Vehicles & 62 Other Arsons

Seventy-eight (78), or 2%, of Norfolk County's 3,130 fires were intentionally set, or, for purposes of this analysis, arson. The 11 structure arsons, five motor vehicle arsons and 62 outside and other arsons caused one civilian death<sup>3</sup>, one fire service injury and an estimated loss of \$1.3 million.

### All Arsons Up

The total number of reported arson fires increased by 19 from the 59 reported in 2013. Reported structure arsons increased by five from the six reported the previous year. Motor vehicle arsons increased by one from the four reported in 2013. Reported outside and other arsons increased by 13 from 49 the year before.

## ALL INCIDENTS

### Rescue & EMS Calls Are 59% of All Reported Incidents

In 2014, fire departments in Norfolk County reported 84,557 responses<sup>4</sup> to MFIRS. Of these 84,557 incidents, 81,297 non-fire calls were voluntarily reported.

Of these 81,297 non-fire incidents, 49,841, or 59%, of all the incidents reported in 2014 were reported rescue and emergency medical services (EMS) calls; 11,864, or 14%, were reported false alarm or false calls; 8,049, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,132, or 6%, were reported good intent calls; 4,499, or 5%, were reported hazardous condition calls with no fire; 1,740, 2%, were special incident type calls such as citizen complaints; 126, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 46, or 0.1%, were severe weather responses.

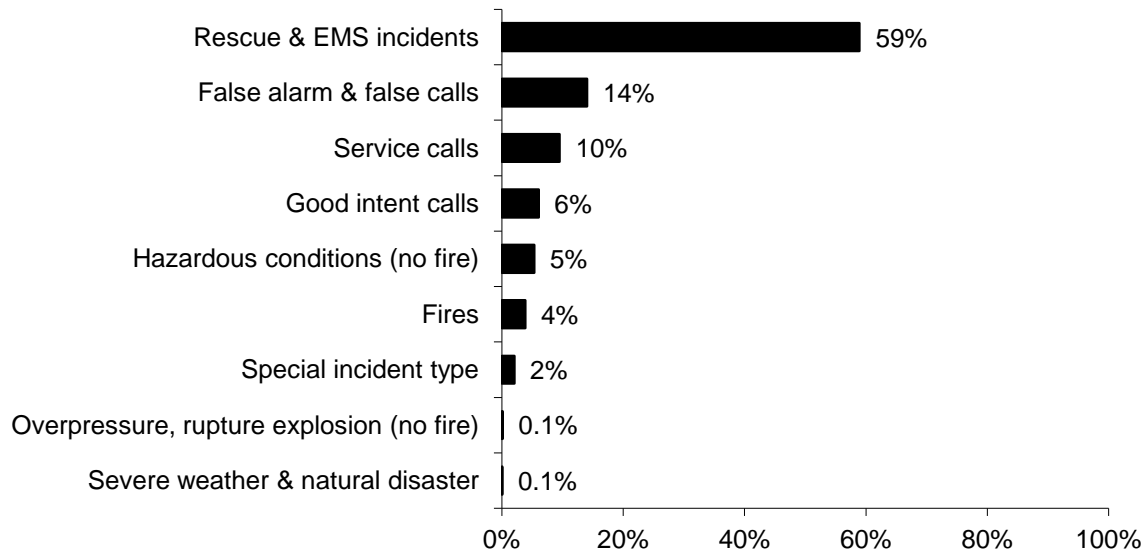
Three thousand two hundred and sixty (3,260), or 4%, of the total responses submitted by Norfolk County fire departments were fires.

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<sup>3</sup> This death was a suicide.

<sup>4</sup> These figures include responses in which Norfolk County fire departments gave mutual aid to other fire departments.

## 2014 Responses by Incident Type



### Norfolk County Fire Departments Gave Mutual Aid 2,829 Times

In 2014, Norfolk County fire departments reported coming to the aid of other fire departments 2,829 times. Of these 2,829 responses, 1,570, or 55%, were for rescue or EMS calls; 539, or 19%, were for good intent calls; 400, or 14%, were for service calls such as cover assignments; 128, or 5%, were for fires; 125, or 4%, were for false alarms or false calls; 34, or 1%, were special incident types; and 33, or 1%, were for hazardous conditions calls with no fire.

### Norfolk County Received Mutual Aid in 1,725 Incidents

In 2014, Norfolk County fire departments reported receiving aid from surrounding departments in 1,901 incidents. Of these 1,725 incidents, 1,321, or 77%, were rescue and emergency medical services calls; 152, or 9%, were for fires; 150, or 9%, were false alarms or false calls; 52, or 3%, were good intent calls; 24, or 1%, were hazardous conditions calls with no fire; 23 or 1%, were service calls; two, or 0.1%, were overpressure, rupture explosions with no after fire; and one, or 0.1% was a severe weather call.

**Norfolk County****Population: 670,850****4.7 Fires/1,000 Population****Total Fires: 3,130 \$15,564,682**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	1,812	58%	\$17,204,245
Vehicle Fires	245	8%	1,486,413
Other Fires	1,073	34%	536,363

2 Fatal Fires 0.64 Civilian Deaths/1,000 Fires  
 2 Civilian Deaths 0.03 Civilian Deaths/10,000 Population  
 19 Civilian Injuries 54 Fire Service Injuries

**Building Fires: 1,806****Residential Structure Fires: 1,559****Residential Structure Fires Confined to Non-Combustible Containers: 1,367****Unconfined Residential Structure Fires: 192**

12 Civilian Injuries 41 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	814	52%	Operated	972	62%
1- & 2-Family homes	572	37%	Didn't operate	10	1%
Rooming houses	64	4%	None	22	2%
Dormitories	28	2%	Fire too small	29	2%
Residential board & care	21	1%	Didn't alert (confined)	206	13%
Hotels or motels	8	1%	Undetermined	320	21%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	81%	Radiated heat from oper. eq.	2%	13%
Heating equipment room	5%	Arcing	1%	11%
Chimney or flue	3%	Heat from operating equip.	1%	9%
Ext. balcony, unenclosed porch	1%	Cigarette	1%	8%
Bedroom	1%	Hot ember or ash	1%	6%
Wall assembly, concealed space	1%	Hot or smoldering object	1%	6%
Laundry room	1%			

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

<sup>6</sup> 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.

<b>Item First Ignited<sup>7</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>8</sup></b>
Food, cooking materials	78%	Too close to combustibles	1%	9%
Flammable/comb. liquid	5%	Abandoned materials	1%	8%
Film, residue (creosote)	3%	Electrical failure, malfunc.	1%	7%
Rubbish, trash, waste	2%	Equipment unattended	1%	5%
Structural member, framing	1%	Unspec. Short-circuit arc	0.4%	4%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Kitchen & cooking equipment	79%	Unintentional	7%	60%
None	7%	Failure of eq. or heat source	2%	14%
Boiler, furnace, cent. heat. unit	5%	Intentional	0.3%	3%
Chimney, flue	3%	Act of nature	0.1%	1%
Electrical wiring, other	1%	Cause under investigation	2%	16%
		Undetermined	1%	5%

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

Alerted occupants	64%
Didn't alert occupants	15%
Undetermined	21%

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

<sup>8</sup> 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.

<sup>9</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>10</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	211	164	27	20
February	187	148	20	19
March	227	155	21	51
April	287	156	20	111
May	312	171	11	130
June	294	117	19	158
July	315	115	29	171
August	284	123	24	137
September	319	136	9	174
October	220	158	25	37
November	253	190	22	42
December	221	179	19	23

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	480	297	29	154
Monday	477	269	22	186
Tuesday	401	219	34	148
Wednesday	429	242	38	149
Thursday	424	256	38	130
Friday	415	252	41	122
Saturday	504	277	43	184

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	140	95	12	33
04:01 - 08:00	203	110	17	76
08:01 - 12:00	489	300	44	145
12:01 - 16:00	776	432	55	289
16:01 - 20:00	805	385	72	348
20:01 - 00:00	990	606	57	327

### **Motor Vehicle Fires**

Total: 245

Automobiles: 197 (80%)

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

## Arson Fires

**Total Arsons: 78**

**Dollar loss: \$1,288,503**

### 0.12 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	11	1%	14%	\$1,229,501
Vehicle Arsons	5	2%	6%	55,000
Other Arsons	62	6%	79%	4,02

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.09 Other arsons/1,000 population

1 Civilian Death

1 Fire Service Injury

### Peak Times of Day for

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	3	30%	04:01 - 08:00	2	40%
16:01 - 20:00	3	30%	00:01 - 04:00	1	20%
00:01 - 04:00	2	20%	08:01 - 12:00	1	20%
04:01 - 08:00	2	20%	12:01 - 16:00	1	20%

Other Arsons	#	%
16:01 - 20:00	20	32%
20:01 - 00:00	16	26%
12:01 - 16:00	13	21%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	4	36%
Apartments	3	27%
High/junior high/middle school	1	9%
General retail, other	1	9%
Hospital – medical or psychiatric	1	9%
Manufacturing, processing	1	9%

**Avon** **Population: 4,356**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	3	2	1	0	1	0	1	0

**Bellingham** **Population: 16,332**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	50	25	4	21	0	0	0	0

**Braintree** **Population: 35,744**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	128	27	21	80	5	2	1	2

**Brookline** **Population: 58,732**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	442	377	8	57	3	1	0	2



<b>Canton</b>					<b>Population: 21,561</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	35	14	13	8	0	0	0	0

<b>Cohasset</b>					<b>Population: 7,542</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	73	43	6	24	4	0	0	4

<b>Dedham</b>					<b>Population: 24,729</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	206	123	16	64	12	1	1	10

<b>Dover</b>					<b>Population: 5,589</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	1	0	0	0	0	0	0

**Foxborough****Population: 16,865**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	43	11	10	22	1	0	0	1

**Franklin****Population: 31,635**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	46	16	7	23	1	0	0	1

**Holbrook****Population: 10,791**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	67	32	6	29	1	1	0	0

**Medfield****Population: 12,024**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	20	6	0	14	8	0	0	8

**Medway** **Population: 12,752**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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 <sup>11</sup>	Fire Department in Good Standing							
2014	4	2	0	2	0	0	0	0

**Millis** **Population: 7,891**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Non-Reporting Community							

**Milton** **Population: 27,003**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	169	121	17	31	8	0	1	7

**Needham** **Population: 28,886**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	39	10	6	23	0	0	0	0

<sup>11</sup> Medway only reported 95 total incidents in 2013. None of these were fires, and almost all were in December.

**Norfolk** **Population: 11,227**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	51	38	7	6	0	0	0	0

**Norwood** **Population: 28,602**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	98	33	3	62	2	1	1	0

**Plainville** **Population: 8,264**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	40	15	4	21	2	0	0	2

**Quincy** **Population: 92,271**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	699	389	27	283	17	0	0	17

**Randolph****Population: 32,112**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	220	146	18	56	2	0	0	2

**Sharon****Population: 17,612**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	47	27	4	16	2	1	0	1

**Stoughton****Population: 26,962**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	86	45	19	22	2	0	0	2

**Walpole****Population: 24,070**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	83	43	9	31	1	0	0	1

**Wellesley** **Population: 27,982**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	50	30	6	14	1	0	0	1

**Westwood** **Population: 14,618**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	97	70	9	18	2	1	0	1

**Weymouth** **Population: 53,743**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	322	160	20	142	3	3	0	0

**Wrentham** **Population: 10,955**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	11	6	1	4	0	0	0	0

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
21018	Avon	201	5	0	122	2	28	20	24	0	0
21025	Bellingham	1,986	50	0	1,402	53	160	145	173	0	3
21040	Braintree	5,445	128	63	2,734	245	827	646	784	4	14
21046	Brookline	7,298	442	11	4,176	440	584	230	1,406	2	7
21050	Canton	38	36	0	0	2	0	0	0	0	0
21065	Cohasset	2,355	74	1	1,019	173	690	148	225	10	15
21073	Dedham	4,582	211	13	3,096	271	184	201	592	3	11
21078	Dover	43	1	0	6	2	5	3	26	0	0
21099	Foxborough	751	47	4	160	91	71	77	300	0	1
21101	Franklin	2,023	60	2	1,431	64	86	107	265	1	7
21133	Holbrook	2,439	70	0	1,347	97	444	285	191	0	5
21175	Medfield	1,014	20	0	561	91	168	39	128	2	5
21177	Medway	13	4	0	4	0	2	1	2	0	0
21189	Milton	3,698	173	0	1,935	201	315	103	522	2	447

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	3,059	39	1	1,658	137	437	165	611	0	11
21208	Norfolk	1,536	80	0	961	201	36	6	252	0	0
21220	Norwood	5,344	103	1	3,825	267	321	177	630	7	13
21238	Plainville	2,734	41	1	1,017	73	164	101	213	4	1,120
21243	Quincy	9,481	701	10	5,569	589	823	426	1,346	5	12
21244	Randolph	5,093	227	1	3,462	225	453	237	484	0	4
21266	Sharon	2,269	64	3	1,290	144	221	248	293	0	6
21285	Stoughton	5,139	97	3	3,142	155	486	486	731	1	38
21307	Walpole	2,920	87	1	1,967	131	201	164	361	3	5
21317	Wellesley	4,094	51	2	1,937	271	406	323	1,100	1	3
21335	Westwood	2,648	116	3	1,515	143	311	213	346	0	1
21336	Weymouth	6,628	322	5	4,321	353	431	505	679	0	12
21350	Wrentham	1,726	11	1	1,184	78	195	76	180	1	0
<b>Norfolk County</b>		<b>84,557</b>	<b>3,260</b>	<b>126</b>	<b>49,841</b>	<b>4,499</b>	<b>8,049</b>	<b>5,132</b>	<b>11,864</b>	<b>46</b>	<b>1,740</b>

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.

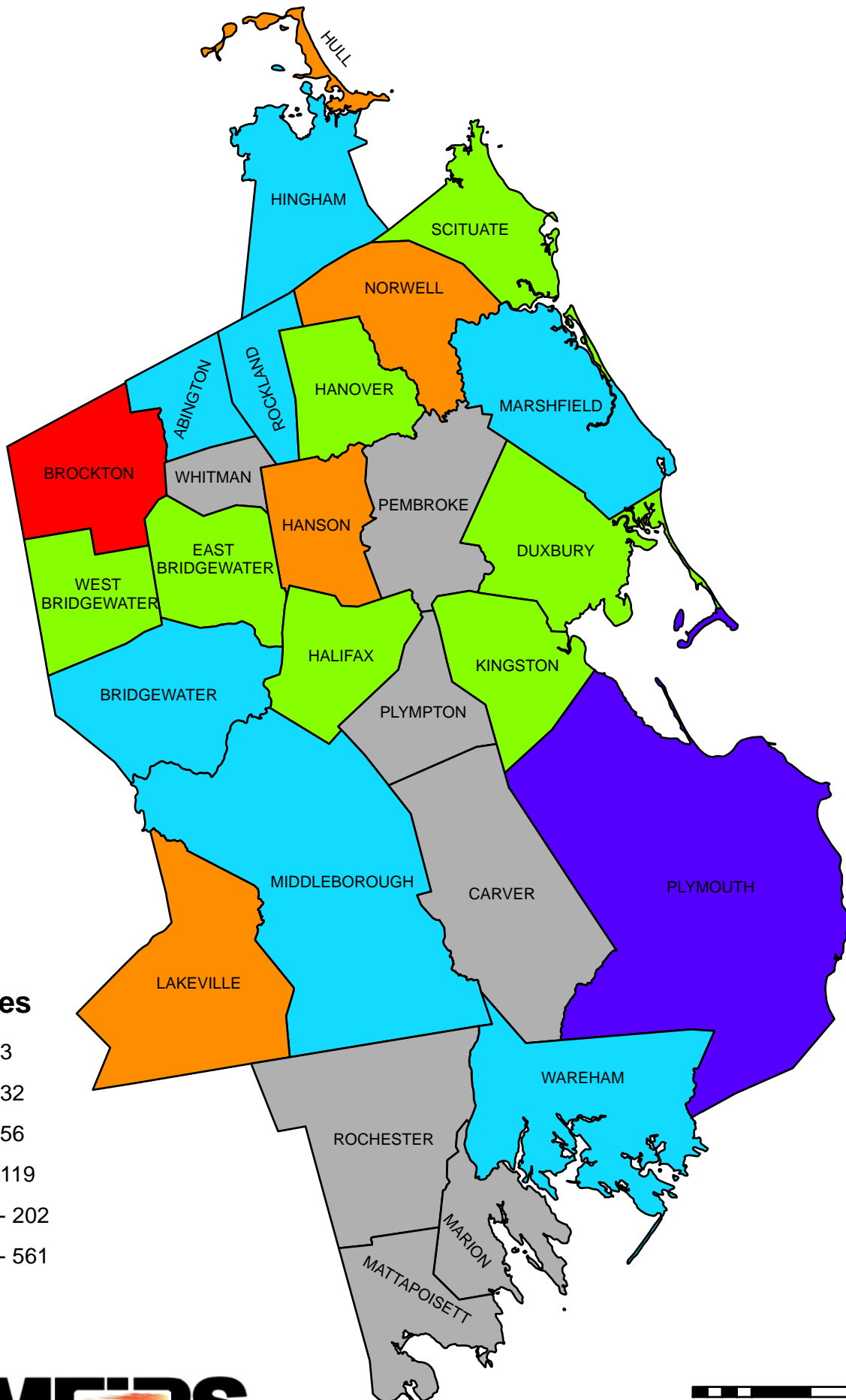




# Plymouth County

## 2014 Fire Data Analysis

# Plymouth County Fires 2014



## 2014 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System

0 1 2 4 6 8 Miles

Massachusetts Fire Incident Reporting System 2014

# Plymouth County Fires in 2014

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## **1,840 Total Fires — 793 Structures, 203 Vehicles & 844 Other Fires**

Plymouth County ranked eighth out of the fourteen Massachusetts counties in total reported fires. Plymouth County fire departments reported 1,840 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 793 structure fires, 203 motor vehicle fires, 518 brush, tree or lawn fires, 164 outside rubbish fires, 101 special outside fires, five cultivated vegetation or crop fires and 56 other fires caused three civilian deaths, 33 civilian injuries, 30 fire service injuries and an estimated dollar loss of \$17.8 million. Plymouth County's fires accounted for 6% of the 28,999 Massachusetts fires reported in 2014.

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 2014.

## **Structure & MV Fires Down**

The total number of reported fire incidents decreased by 52, or 3%, from the 1,892 reported in 2013. Reported structure fires decreased by 31 from 824 the year before. Motor vehicle fires decreased by 27 from 230 the previous year. Reported outside and other fires increased by six from 838 in 2013.

## **PLYMOUTH COUNTY FIRES FROM 2010 TO 2014**

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
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	1,892	824	230	838	73	12	8	53
2014	1,840	793	203	844	47	25	4	18

## **Fire and Fire Death Rates**

Plymouth County had 3.7 fires per 1,000 population. That figure ranks Plymouth County tied for eighth in the state and below the state rate of 4.6 fires per 1,000 population. Plymouth County also had 0.06 fire deaths per 10,000 population ranking it ninth among Massachusetts counties and below the state rate of 0.08 fire deaths per 10,000 population.

## **2 Plymouth County Fatal Fires Killed 3 Civilians in 2014**

Three (3) people died in two fatal fires in Plymouth County in 2014.

- On May 5, 2014, at 6:15 p.m., the Brockton Fire Department responded to a fatal fire in a wooded area. It is believed that the two homeless victims, a 55-year old woman and her 48-year old male companion were living in a tent and using a camping stove to keep warm. No one else was injured at this fire. The most probable cause was that the stove somehow ignited the tent and the victims were unable to escape.

- On August 24, 2014, at 3:03 p.m., the Duxbury Fire Department was called to a fatal motor vehicle crash with ensuing fire in the median on Route 3. The vehicle hit a tree head on in the median. The driver and only occupant of the vehicle, a 33-year old woman, was trapped in the vehicle and died in the fire. Damages from this fire were estimated to be \$15,500.

### **Brockton Has Plymouth County's Largest Loss Fire in 2014**

In 2014, there was only one large loss fire in Plymouth County. This fire accounted for 9% of the total dollar loss for Plymouth County in 2014.

- On May 4, 2014, at 9:23 a.m., the Brockton Fire Department responded to a fire in 26-unit apartment building of undetermined cause. One (1) firefighter was injured at this fire. Detectors were present and alerted the occupants. The building had a sprinkler system that operated but the fire started on an exterior balcony. Total damages were estimated to be \$1.25 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down Slightly**

The 793 structure fires caused two civilian deaths, 30 civilian injuries, 27 fire service injuries and an estimated dollar loss of \$12.8 million. These incidents represented 43% of Plymouth County's reported fires in 2014. The average estimated dollar loss per structure fire was \$16,147. The total number of reported structure fires decreased by 31, or 4%, from the 824 reported in 2013.

### **Structure Arsons More Than Double**

The 25 structure arsons caused two fire service injuries and an estimated dollar loss of \$344,600. Arson was indicated as the cause of 3% of the structure fires and 3% of Plymouth County's structure fire dollar loss. The 25 structure arsons accounted for 53% of the Plymouth County arson fires reported in 2014. The total number of reported structure arsons increased by 13, or 108%, from 12 in 2013.

### **68% of Structure Arsons Occurred in Residences**

Sixty-eight percent (68%) of Plymouth County's 25 structure arsons occurred in residential occupancies; 16% happened in storage facilities; and 4% each occurred in mercantile or business properties, public assembly properties, educational facilities, and special properties.

## **BUILDING FIRES**

There were 784 building fires of different types in Plymouth County in 2014. These 784 building fires accounted for 98.9% of all structure fires in Plymouth County.

### **83% of Plymouth Building Fires Occurred in People's Homes**

Six hundred and fifty-two (652), or 83%, of Plymouth County's 784 building fires occurred in residential occupancies. Mercantile and business properties had 32 fires. Twenty-seven (27) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 23 fires.

Twenty (20) fires took place in storage facilities. Nine (9) building fires took place in educational facilities. Eight (8) building fires in Plymouth County occurred in special properties such as outbuildings and sheds. Six (6) fires took place in manufacturing and processing facilities. Four (4) fires occurred in industrial, utility, defense, agricultural or mining facilities. There were three fires in unclassified properties in Plymouth County in 2014.

## RESIDENTIAL FIRES

### Residential Building Fires Down

There were 652 reported residential building fires in Plymouth County in 2014. These 652 fires are a decrease of 52, or 7%, from the 704 residential building fires reported in 2013.

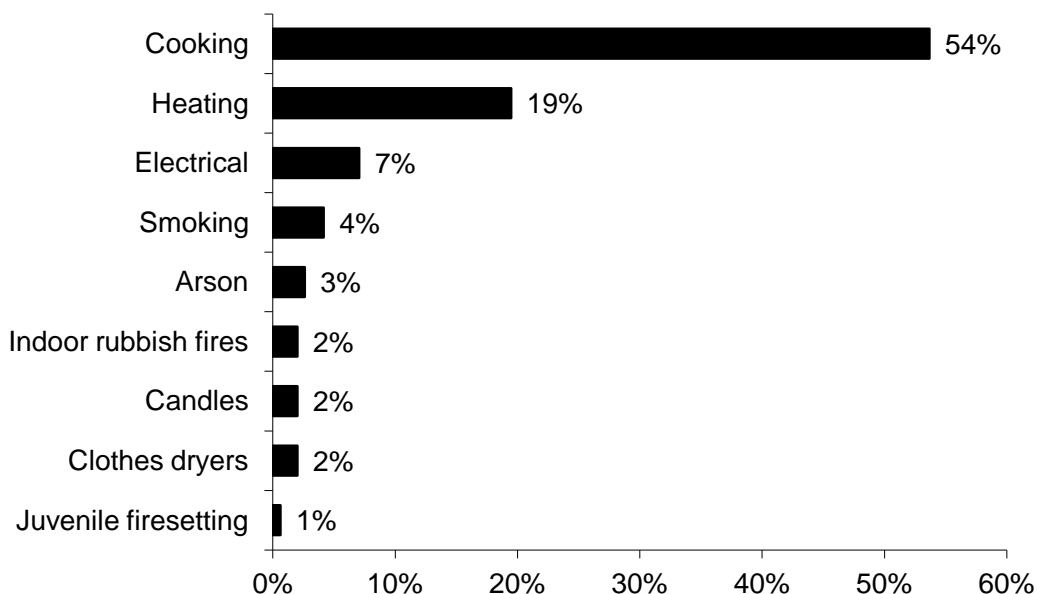
### 1- & 2-Family Homes Accounted for 56% of Residential Building Fires

The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 56% of the residential building fires in Plymouth County; 37% occurred in apartments. Rooming houses had 3% of these fires. Residential board and care facilities, dormitories, and hotels or motels each had 1% of these fires. Eight (8), or 1%, 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 652 residential building fires in Plymouth County was unattended cooking and other unsafe cooking practices, accounting for 54% of these fires. Heating problems caused 19% of the fires in people's homes. Electrical problems caused 7% and smoking caused 4% of these fires. Arsons were responsible for 3%. Indoor rubbish fires, clothes dryers and candles each caused 2% of these fires. Juvenile-set fires caused 1% of residential fires in Plymouth County in 2014.

## 2014 Leading Causes of Fires in Plymouth County Homes



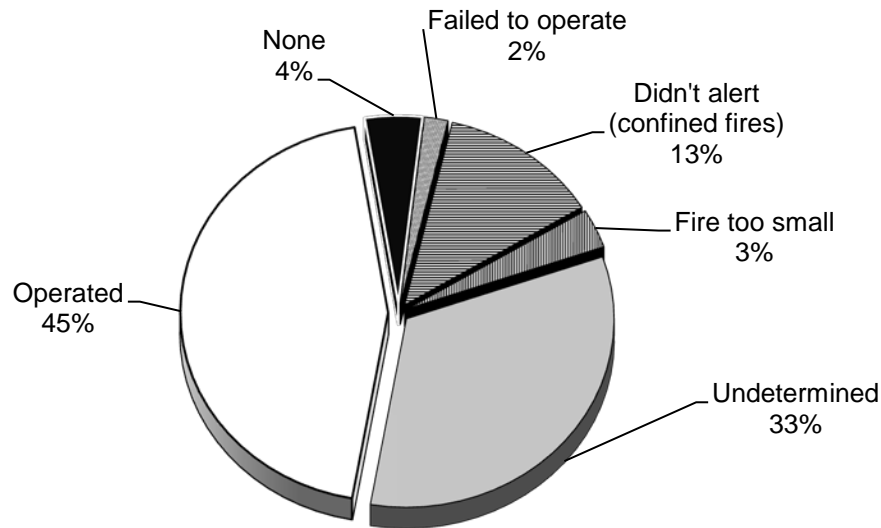
### 68% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Four hundred and forty-one (441), or 68%, of all residential building fires were reported as confined to non-combustible containers in 2014. Three hundred and twenty-two (322) of the reported fires were cooking fires contained to a non-combustible container, accounting for 49% of residential building fires. Fifty-four (54), or 8%, of all residential building fires reported in 2014 were fires confined to a chimney. Fifty-two (52), or 8%, were fires confined to a fuel burner or boiler malfunction. Twelve (12), or 2%, of these fires were contained rubbish fires; and one, or 0.2%, was an incinerator overload or malfunction.

### Detectors Alerted Occupants in Less Than 1/2 of Fires

Smoke or heat detectors operated and alerted the occupants in 291, or 45%, of the residential building fires. In 13% of these fires<sup>2</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 216 incidents, or 33%, of Plymouth County's residential building fires.

### Detector Status in Plymouth County's Residential Structure Fires 2014



<sup>1</sup> 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.

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

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

Of the 12 fires where smoke detectors were present but failed to operate, three, or 25%, failed because the batteries were either missing or disconnected. Two (2) detectors, or 17%, failed from a lack of maintenance. One (1), or 8%, was defective; and another, or 8%, failed because of a power shut off or failure. It was undetermined or unclassified in five cases, or 42%, why the detectors failed to operate.

**VACANT BUILDINGS****5% of Building Fires Occurred in Vacant Buildings**

Plymouth County reported 36 fires that occurred in buildings that were vacant, under construction or demolition<sup>3</sup>. This represented 5% of the total 784 building fires reported to MFIRS in 2014. Sixteen (16) fires occurred in vacant residential properties. Twelve (12) vacant building fires occurred in storage facilities. Two (2) fires occurred in industrial facilities. A public assembly property, a mercantile and business property, an educational property, a special property and an unclassified property each had one of these fires in Plymouth County in 2014.

Six (6), or 17%, of the vacant building fires in Plymouth County in 2014 were determined to be intentionally set. Two (2) occurred in one- or two-family homes; another two occurred in detached residential parking garages. One (1) each happened in an unclassified residential property and a parking garage.

**JUVENILE-SET FIRES****28 Juvenile-set Fires**

There were 28 reported juvenile-set fires in Plymouth County in 2014. The six structure fires, 14 brush fires, five special outside fires, one cultivated vegetation or crop fire and two unclassified fires caused two civilian injuries and \$18,001 in estimated damages.

**ARSONS****47 Total Arsons — 25 Structures, 4 Vehicles & 18 Other Arsons**

Forty-seven (47), or 3%, of Plymouth County's 1,840 fires were considered intentionally set, or, for purposes of this analysis, arson. The 25 structure arsons, four motor vehicle arsons and 18 outside and other arsons caused three fire service injuries and an estimated dollar loss of \$361,050.

**Structure Arsons Up**

The total number of reported arson fires decreased by 26 from the 73 reported in 2013. Reported structure arsons increased by 13 from the 12 reported in 2013. Motor vehicle

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<sup>3</sup> 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.

arsons decreased by four from eight in 2013. Reported outside and other arsons decreased by 35 from 53 reported the year before.

## ALL INCIDENTS

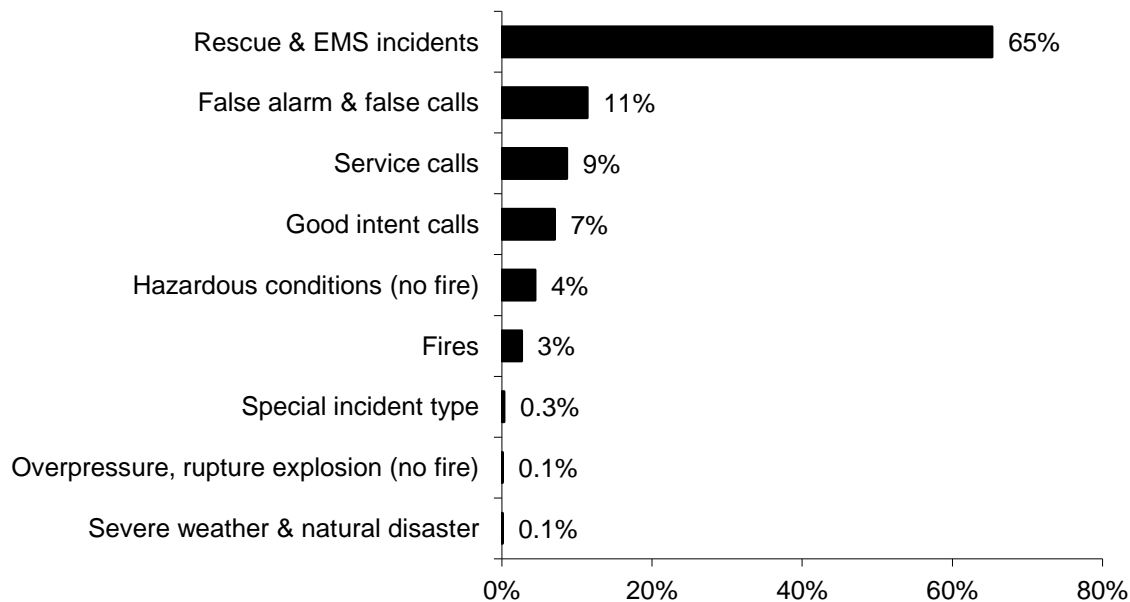
### Rescue & EMS Calls Are 65% of All Reported Responses

In 2014, Plymouth County fire departments reported 75,534 responses<sup>4</sup> to MFIRS. Of these 75,534 incidents, 73,547 non-fire calls were voluntarily reported.

Of these 73,547 non-fire calls, 49,331, or 65%, of the total responses reported in 2014, were reported rescue and emergency medical services (EMS) calls; 8,601 or 11%, were reported false alarm or false calls; 6,546, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,334, or 7%, were reported good intent calls; 3,344, or 4%, were reported hazardous condition calls with no fire; 247, or 0.3%, were special incident type calls such as citizen complaints; 79, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 65, or 0.1%, were severe weather responses.

One thousand nine hundred and eighty-seven (1,987), or 3%, of the total responses submitted by Plymouth County fire departments were fires.

### 2014 Responses by Incident Type



<sup>4</sup> These figures include responses in which Plymouth County fire departments gave mutual aid to other fire departments.



**Plymouth County Fire Departments Gave Mutual Aid 2,404 Times**

In 2014, Plymouth County fire departments reported coming to the aid of other fire departments 2,404 times. Of these 2,404 responses, 1,555, or 65%, were for rescue or EMS calls; 382, or 16%, were for good intent calls; 249, or 10%, were for service calls such as cover assignments; 142, or 6%, were for fires; 38, or 2%, were for false alarms or false calls; 36, or 1%, were for hazardous conditions calls with no fire; and two, or 0.1%, were for a special incident type calls.

**Plymouth County Received Mutual Aid in 2,030 Incidents**

In 2014, Plymouth County fire departments received aid from surrounding departments in 2,030 incidents. Of these 2,030 incidents, 1,745, or 86%, were rescue and emergency medical services calls; 128, or 6%, were for fires; 51, or 3%, were hazardous conditions calls with no fire; 49, or 2%, were good intent calls; 33, or 2%, were service calls; 21, or 1%, were false alarms or false calls; two, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and one, or 0.05%, was a special incident type call.

**Plymouth County****Population: 494,919****3.7 Fires/1,000 Population****Total Fires: 1,840 \$14,135,493**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	793	43%	\$12,804,196
Vehicle Fires	203	11%	1,229,375
Other Fires	844	46%	101,922

2 Fatal Fires 1.63 Civilian Deaths/1,000 Fires  
 3 Civilian Deaths 0.06 Civilian Deaths/10,000 Population  
 33 Civilian Injuries 30 Fire Service Injuries

**Building Fires: 784****Residential Building Fires: 652****Residential Building Fires Confined to Non-Combustible Containers: 441****Unconfined Residential Building Fires: 211**

28 Civilian Injuries 20 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	365	56%	Operated	291	45%
Apartments	244	37%	Didn't operate	12	2%
Rooming houses	18	3%	None	29	4%
Dormitories	7	1%	Fire too small	22	3%
Hotels or motels	6	1%	Didn't Alert (confined)	82	13%
Residential board & care	4	1%	Undetermined	216	33%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	57%	Arcing	5%	17%
Heating room or area	8%	Radiated, cond./heat op. eq.	4%	11%
Chimney or flue	8%	Cigarette	2%	8%
Bedroom	4%	Heat from operating eq.	2%	7%
Ceiling & floor assembly	2%	Hot ember or ash	2%	6%

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

<sup>6</sup> 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.

<b>Item First Ignited<sup>7</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>8</sup></b>
Food, cooking materials	52%	Abandoned materials	3%	9%
Film, residue (creosote)	8%	Too close to combustibles	2%	6%
Flammable or combust. liquid	8%	Electrical failure, malfunc.	2%	5%
Electrical wire, cable insulation	4%	Misuse of material or prod.	1%	3%
Rubbish, trash, waste	3%	Mechanical failure, malfunc.	1%	3%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	53%	Unintentional	20%	61%
None	18%	Failure of eq. or heat source	4%	12%
Chimney or flue	8%	Intentional	2%	7%
Boiler, furnace, cent. heat. unit	8%	Act of Nature	1%	2%
Electrical wiring, other	2%	Cause under investigation	2%	7%
		Undetermined	3%	9%

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

Alerted Occupants	45%
Didn't Alert Occupants	19%
Undetermined	37%

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

<sup>8</sup> 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.

<sup>9</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>10</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	123	83	14	26
February	88	58	17	13
March	145	68	19	58
April	198	76	23	9
May	201	72	19	110
June	172	48	22	102
July	201	63	19	119
August	194	56	19	119
September	176	57	12	107
October	101	61	10	30
November	123	75	15	33
December	118	76	14	28

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	309	128	31	150
Monday	265	106	28	131
Tuesday	262	105	32	125
Wednesday	226	93	23	110
Thursday	269	128	33	108
Friday	234	101	26	107
Saturday	275	132	30	113

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	126	65	17	44
04:01 - 08:00	130	58	16	56
08:01 - 12:00	298	136	33	129
12:01 - 16:00	542	189	65	288
16:01 - 20:00	496	222	47	227
20:01 - 00:00	248	123	25	100

### **Motor Vehicle Fires**

Total: 203

Automobiles: 164 (81%)

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

## Arson Fires

**Total Arsons: 47**

**Dollar loss: \$361,050**

### 0.09 Arson Fires/1,000 Population

<b>Situation</b>	<b>Arsons</b>	<b>% Situation</b>	<b>% Arson</b>	<b>Dollar Loss</b>
Structure Arsons	25	3%	53%	\$344,600
Vehicle Arsons	4	2%	9%	11,500
Other Arsons	18	2%	38%	4,950

0.05 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.04 Other arsons/1,000 population

3 Fire Service Injuries

### Peak Times of Day for:

<b>Structure Arsons</b>	<b>#</b>	<b>%</b>	<b>Vehicle Arsons</b>	<b>#</b>	<b>%</b>
16:01 – 20:00	8	32%	08:01 – 12:00	2	50%
00:01 – 04:00	7	28%	04:01 – 08:00	1	25%
12:01 – 16:00	6	24%	12:01 – 16:00	1	25%

<b>Other Arsons</b>	<b>#</b>	<b>%</b>
16:01 – 20:00	11	29%
20:01 – 00:00	11	29%
12:01 – 16:00	8	21%

<b>Peak Fixed Property Uses for Structure Arsons</b>	<b>#</b>	<b>%</b>
1- and 2-Family homes	13	52%
Apartments	2	8%
Parking garage (detached residential)	2	8%

<b>Abington</b>					<b>Population: 15,985</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	86	18	8	60	0	0	0	0

<b>Bridgewater</b>					<b>Population: 26,563</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	119	44	20	55	3	3	0	0

<b>Brockton</b>					<b>Population: 93,810</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	561	300	50	211	23	12	0	11

<b>Carver</b>					<b>Population: 11,509</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	5	2	0	0	0	0	0

**Duxbury****Population: 15,059**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	39	16	6	17	0	0	0	0

**East Bridgewater****Population: 13,794**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	53	29	2	22	0	0	0	0

**Halifax****Population: 7,518**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	46	22	2	22	6	2	0	1

**Hanover****Population: 13,879**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	56	23	5	28	3	3	0	0

<b>Hanson</b>					<b>Population: 10,209</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	9	2	20	4	0	0	4

<b>Hingham</b>					<b>Population: 22,157</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	68	27	8	33	1	0	0	1

<b>Hull</b>					<b>Population: 10,293</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	22	12	2	8	0	0	0	0

<b>Kingston</b>					<b>Population: 12,629</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	41	7	7	27	3	1	0	2



<b>Lakeville</b>					<b>Population: 10,602</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	32	2	5	25	1	0	0	1

<b>Marion</b>					<b>Population: 4,907</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	3	2	5	1	0	0	1

<b>Marshfield</b>					<b>Population: 25,132</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	69	42	3	24	2	1	0	1

<b>Mattapoisett</b>					<b>Population: 6,045</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	2	1	7	0	0	0	0

**Middleborough****Population: 23,116**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	91	36	17	38	3	1	0	2

**Norwell****Population: 10,506**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	16	2	13	3	0	0	3

**Pembroke****Population: 17,837**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	6	2	2	2	0	0	0	0

**Plymouth****Population: 56,468**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	202	70	27	105	4	1	2	1

<b>Plympton</b>					<b>Population: 2,820</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010 <sup>11</sup>	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
2014	13	4	2	7	2	0	0	2

<b>Rochester</b>					<b>Population: 5,232</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	2	2	0	0	0	0	0	0

<b>Rockland</b>					<b>Population: 17,489</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	65	26	8	31	5	0	1	4

<b>Scituate</b>					<b>Population: 18,133</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	44	13	2	29	1	0	0	1

<sup>11</sup> 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**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	30	20	3	7	2	0	1	1

**Wareham District****Est. Pop. Protected: 17,021**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	58	32	8	18	1	0	0	1

**West Bridgewater****Population: 6,916**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	45	12	8	25	2	1	0	1

**Whitman****Population: 14,489**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	1	0	6	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	3,496	88	4	2,353	112	346	198	366	0	29
23042	Bridgewater	2,667	128	6	1,524	138	146	212	472	0	41
23044	Brockton	22,409	567	20	16,819	384	1,330	691	2,560	2	36
23052	Carver	7	7	0	0	0	0	0	0	0	0
23082	Duxbury	2,201	45	3	1,372	147	216	88	319	6	5
23083	East Bridgewater	2,307	65	1	1,774	113	96	51	203	1	3
23118	Halifax	1,368	50	0	915	71	157	59	114	0	2
23122	Hanover	2,705	60	3	1,638	144	383	218	250	3	6
23123	Hanson	1,430	40	2	973	90	154	44	125	0	2
23131	Hingham	3,932	74	2	2,377	247	369	400	432	28	3
23142	Hull	2,558	25	1	1,694	199	294	92	248	3	2
23145	Kingston	2,372	43	3	1,742	105	135	84	248	2	10
23146	Lakeville	973	44	1	680	33	72	45	91	2	5
23169	Marion	949	12	0	614	30	66	58	147	3	19
23171	Marshfield	2,856	71	4	1,821	197	396	83	274	3	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
23173	Mattapoisett	432	11	0	20	94	94	10	194	1	8
23182	Middleborough	3,501	95	5	896	104	299	1,746	347	1	8
23219	Norwell	1,809	37	1	1,041	208	177	127	215	3	0
23993	Onset	1,502	50	2	796	84	420	70	79	1	0
23231	Pembroke	7	6	0	0	1	0	0	0	0	0
23239	Plymouth	7,135	211	10	4,533	261	493	605	1,015	1	6
23240	Plympton	452	15	2	300	23	42	27	34	0	9
23250	Rochester	2	2	0	0	0	0	0	0	0	0
23251	Rockland	2,864	74	0	2,153	138	129	56	312	0	2
23264	Scituate	1,437	46	1	920	95	152	66	156	0	1
23992	Wareham	2,077	61	5	1,069	229	198	257	241	3	14
23322	West Bridgewater	1,491	51	3	921	65	288	25	109	2	27
23338	Whitman	595	9	0	386	32	94	22	50	0	2
<b>Total</b>	<b>Plymouth County</b>	<b>75,534</b>	<b>1,987</b>	<b>79</b>	<b>49,331</b>	<b>3,344</b>	<b>6,546</b>	<b>5,334</b>	<b>8,601</b>	<b>65</b>	<b>247</b>

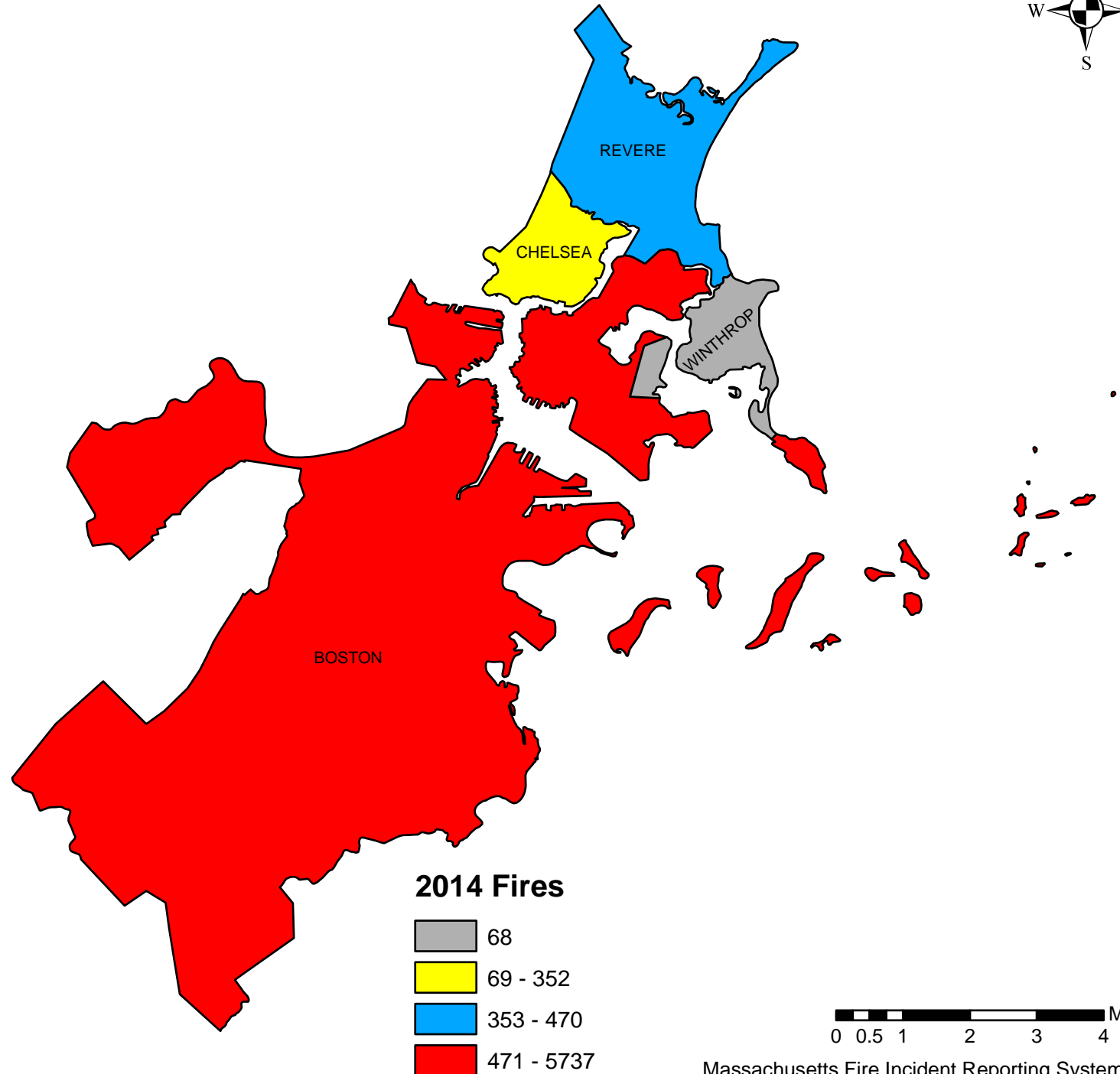
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



# Suffolk County

## 2014 Fire Data Analysis

# Suffolk County Fires 2014





# Suffolk County Fires in 2014

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## **6,627 Total Fires — 4,901 Structures, 349 Vehicles & 1,377 Other Fires**

Suffolk County ranked first out of the fourteen Massachusetts counties in total reported fires. Suffolk County fire departments reported 6,627 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 4,901 structure fires, 349 motor vehicle fires, 595 brush fires, 530 outside rubbish fires, 98 special outside fires, four cultivated vegetation or crop fires, and 150 unclassified fires caused five civilian deaths, two fire service deaths, 15 civilian injuries, 54 fire service injuries and an estimated dollar loss of \$52.1 million. Suffolk County's fires accounted for 23% of the 28,999 Massachusetts fires reported in 2014.

All four fire departments in Suffolk County reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS).

## **All Fires Down**

Total fires decreased by 258, or 4%, from 6,885 incidents in 2013. Reported structure fires decreased by 90 from the 4,991 reported during the previous year. Motor vehicle fires remained the same with 349 reported in 2014 as well as 2013. Outside and other fires decreased by 168, or 11%, from 1,545 the year before.

## **SUFFOLK COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	6,810	4,861	422	1,527	141	38	19	84
2011	6,453	4,907	369	1,527	157	43	16	98
2012	6,678	4,827	349	1,526	169	33	22	114
2013	6,885	4,991	349	1,545	151	31	8	112
2014	6,627	4,901	349	1,377	159	33	8	118

## **Fire and Fire Death Rates**

Suffolk County had 9.2 fires per 1,000 population. That figure ranks Suffolk County first in the state and above the state rate of 4.4 fires per 1,000 population. Suffolk County also had 0.07 fire deaths per 10,000 population ranking it eighth among Massachusetts counties and just below the state rate of 0.08 fire deaths per 10,000 population.

## **5 Residents Died in 5 Suffolk County Fires**

Suffolk County had five of its residents die in five fires in 2014. Four (4) of these deaths occurred in building fires.

- On January 25, 2014, at 7:54 p.m., the Boston Fire Department was called to a fatal electrical fire in a single-family home. The fire was started by an extension cord in the basement. The victim, an 81-year old woman was found inside the home by a neighbor and brought outside. Efforts to resuscitate her failed. No one else was injured at this fire. There were no alarms present in the building. There were no sprinklers. The fire caused an estimated \$150,000 worth of damage.

- On February 22, 2014, at 9:07 p.m., the Boston Fire Department was called to a fatal electrical fire in a three-unit apartment building. Electrical wiring in a second floor bedroom was the cause of the fire. The victim, a 90-year old man, was overcome by smoke inhalation. His 88-year old wife was also injured at this fire. Alarms were present but it was undetermined if they operated. There were no sprinklers in the home. The fire caused an estimated \$100,000 worth of damage.
- On April 8, 2014 at 3:29 a.m., the Boston Fire Department was dispatched to a car fire on the side of the road. After extinguishing the fire, they found the victim, a 25-year old man, inside the vehicle. Damages were estimated to be \$15,000. The fire spread to a nearby vehicle and caused another \$15,000 in estimated damages.
- On August 9, 2014, at 10:42 p.m., the Revere Fire Department was called to a fatal fire in an 8-unit apartment building of undetermined cause. The most probable cause was either the careless disposal of smoking materials or an electrical problem in the room of origin. The fire started on the third floor. The victim, a 64-year old man, was in the area of origin when the fire began. One other civilian and six firefighters were also injured at this fire. Alarms were present and alerted the other occupants of the building. The building was not sprinklered. Damages from the blaze were estimated to be \$700,000. The fire spread to two other buildings causing \$700,000 and \$12,000 in estimated damages.
- On August 21, 2014, at 7:32 a.m., the Boston Fire Department was called to a fatal electrical fire in a three-unit apartment building. The fire was started by an electrical cord or plug in the first floor kitchen. The victim, a 40-year old man was found in the basement. Neighbors said that they saw him helping others escape the fire. No one else was injured at this fire. Alarms were present and operated. There were no sprinklers. The fire caused an estimated \$700,000 worth of damage. It also spread to an adjacent building and caused an estimated \$150,000 in damages.

**LT Edward J. Walsh & FF Michael R. Kennedy Killed in Apartment Fire**

- On Wednesday, March 26, 2014, Boston Fire Department Lt. Ed Walsh and Firefighter Michael Kennedy were at a working building fire in a four-story brownstone at 298 Beacon St. The fire started in the basement and members of the crews from Engine 33 and Ladder 15 went in to attack the fire. Extremely high winds and below average temperatures complicated suppression and rescue efforts. Lt. Walsh and FF Kennedy became trapped in the basement as the fire flared up around them and they initiated a “May Day” call. FF Kennedy was pulled from the building and transported to Massachusetts General Hospital where he succumbed to his injuries; he was 33 years old. Lt. Walsh’s body was recovered hours later; he was 43-years old. Smoke

**Boston Has Suffolk County's Largest Loss Fire in 2014**

In 2014, Suffolk County fire departments reported eight fires with a reported dollar loss of \$1 million or greater. Six (6) of these eight fires occurred in Boston, and one each in Chelsea and Revere. The total dollar loss of these eight fire totaled \$15.2 million, or 29%, of the county's total dollar loss.

- On November 2, 2014, at 1:22 a.m., the Boston Fire Department was called to an electrical fire at the 877 Beacon St. The fire began with arcing in a wall switch in the main lobby. No one was injured at this fire. It was undetermined if smoke alarms were present and sprinklers were not present. Damages from this fire were estimated to be \$3.25 million.

**STRUCTURE FIRES****Reported Structure Fires Down**

The 4,901 structure fires caused four civilian deaths, both fire service deaths, 14 civilian injuries, 50 fire service injuries and an estimated dollar loss of \$42.7 million. These incidents represented 74% of Suffolk County's reported fires in 2014. The average estimated dollar loss per structure fire was \$8,715. The total number of reported structure fires decreased by 90, or 2%, from the 4,991 reported in 2013.

**Arson Caused 1% of Structure Fires**

The 33 structure arsons caused an estimated dollar loss of \$347,600. Arson was indicated as the cause of 1% of the structure fires and 1% of Suffolk County's structure fire dollar loss. The 33 structure arsons accounted for 21% of the Suffolk County arson fires reported in 2014. The total number of reported structure arsons increased by two, or 6%, from the 31 reported in 2013.

**55% of Structure Arsons Occurred in Residences**

Fifty-five percent (55%) of Suffolk County's 33 structure arsons occurred in residential occupancies; 15% in educational facilities; 9% each happened in mercantile and business properties and special properties; 6% occurred in public assembly properties; and 3% each happened in institutional facilities and manufacturing or processing facilities.

**BUILDING FIRES**

There were 4,892 building fires of different types in Suffolk County in 2014. These 4,892 building fires accounted for 99.8% of all structure fires in Suffolk County.

**86% of Suffolk Building Fires Occurred in People's Homes**

Four thousand two hundred and eight (4,208), or 86%, of Suffolk County's 4,892 building fires occurred in residential occupancies. Mercantile and business properties had 209 fires. Two hundred and five (205) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 150 fires. Eighty-three (83) building fires took place in educational properties. Thirteen (13) fires took place in storage properties. Six (6) fires occurred in

industrial, utility, defense, agricultural or mining facilities. Five (5) fires took place in manufacturing and processing facilities. Three (3) building fires in Suffolk County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. There were 10 fires whose property use were codes as *Other*.

## RESIDENTIAL FIRES

### Residential Building Fires Were Up

There were 4,208 reported residential building fires in Suffolk County in 2014. These 4,208 fires are an increase of 86, or 2%, from the 4,122 residential building fires reported in 2013.

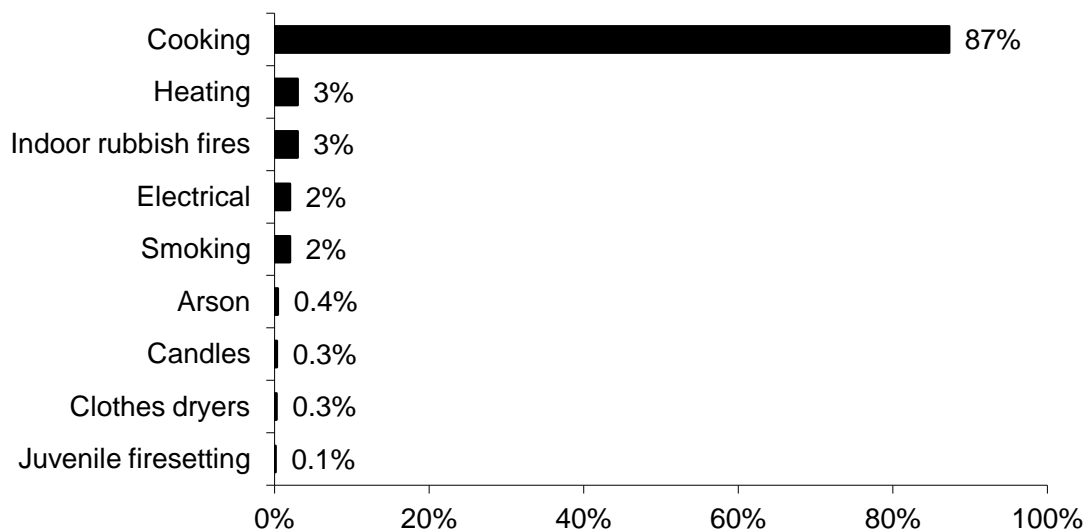
### Apartments Accounted for Over 2/3 of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 69% of the residential building fires in Suffolk County; 12% occurred in one- or two-family homes; 5% occurred in dormitories; 2% happened in rooming houses; 2% occurred in residential board and care facilities; less than 1% happened in hotels or motels. Three hundred and ninety-four (394), or 9%, of the residential building fires in Suffolk County occurred in unclassified residential buildings.

### Unattended Cooking Caused 87% of Residential Fires

The leading cause of residential building fires in Suffolk County was unattended cooking and other unsafe cooking practices, accounting for 87% of these fires. Heating and indoor rubbish fires each caused 3% of fires in people's homes. Electrical problems and smoking each accounted for 2% of these fires. Arson, candles, clothes dryers and juvenile-set fires each caused less than 1% of these fires in 2014.

## 2014 Leading Causes of Fires in Suffolk County Homes



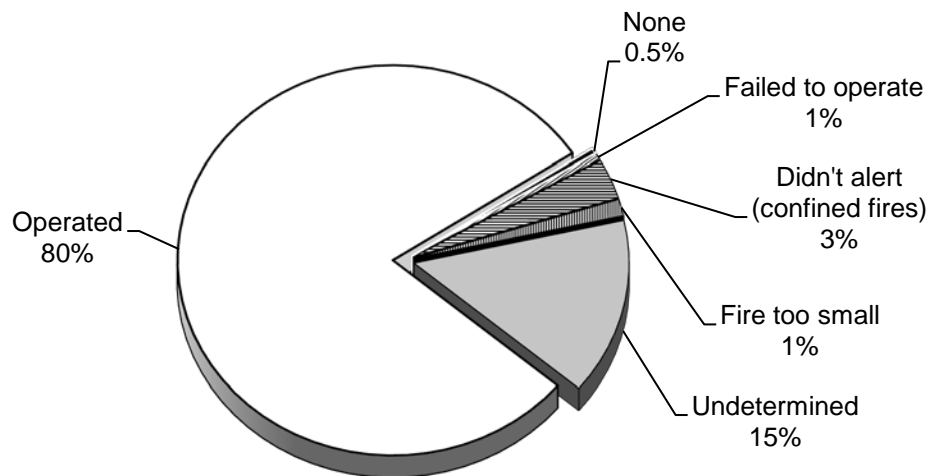
### 90% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>

Three thousand seven hundred and eighty-one (3,781), or 90%, of all residential building fires were reported as confined to non-combustible containers in 2014. Three thousand five hundred and eighty-six (3,586) of the reported fires were cooking fires contained to a non-combustible container, accounting for 85% of residential building fires. One hundred and six (106), or 3%, of the residential building fires in Suffolk County in 2014 were contained rubbish fires. Sixty-six (66), or 2%, were fires confined to a fuel burner or boiler malfunction. Nineteen (19), or 1%, of all residential building fires reported in 2014 were confined to a chimney. Three (3), or less than 1%, were confined to an incinerator overload or malfunction, and one fire, or less than 1%, was a confined commercial compactor fire.

### Alarms Alerted Occupants in 80% of Fires

Smoke or heat alarms operated and alerted the occupants in 3,351, or 80%, of the residential building fires. In 3% of these fires<sup>2</sup>, the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In less than 1% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 1% of the residential fires. Smoke alarm performance was undetermined in 616 incidents, or 15%, of Suffolk County's residential building fires.

### Detector Status in Suffolk County's Residential Structure Fires 2014



<sup>1</sup> 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.

<sup>2</sup> These represent confined fires where it was reported that the alarm did not alert the occupants.



**13% of Failed Alarms Had Missing or Dead Batteries**

Of the 24 fires where smoke alarms were present but failed to operate, three, or 13%, failed because the batteries were either missing or disconnected. Two (2), or 8%, failed because the batteries were dead. Another two, or 8%, failed from a power failure, shutoff or disconnect. Improper installation or placement caused one, or 4%, of the alarms to fail. It was undetermined or unclassified in 16 cases, or 67%, why the alarms failed to operate.

**VACANT BUILDINGS****Less Than 1% of Building Fires Occurred in Vacant Buildings**

Suffolk County reported 24 fires that occurred in buildings that were vacant, under construction or demolition. This represented less than 1% of the total 4,892 building fires reported to MFIRS in 2014. Fourteen (14) fires occurred in vacant residential properties. Four (4) of these fires occurred in mercantile or business properties. Manufacturing or processing facilities and educational facilities each accounted for two of these fires. One (1) vacant building fire occurred in a storage facility. One (1) vacant building fire occurred in an institutional facility, and another occurred in an industrial facility in Suffolk County in 2014.

Two (2), or 8%, of the vacant building fires in Suffolk County in 2014 were determined to be intentionally set. A motor vehicle or boat sales facility and a manufacturing or processing facility each accounted for one of the reported vacant structure arsons in 2014.

**JUVENILE-SET FIRES****20 Juvenile-set Fires**

There were 20 reported juvenile-set fires in Suffolk County in 2014. The 11 structure fires, one motor vehicle fire, two brush fires, two outside rubbish fires, and four unclassified fires caused \$81,750 in estimated damages.

**ARSONS****159 Total Arsons<sup>3</sup> — 33 Structures, 8 Vehicles & 118 Other Arsons**

One hundred and fifty-nine (159), or 5%, of Suffolk County's 6,627 fires were considered intentionally set, or, for purposes of this analysis, arson. The 33 structure arsons, eight motor vehicle arsons and 118 outside and other arsons caused an estimated dollar loss of \$446,230. Suffolk County's arson fires accounted for 8% of the state's total arson fires and 7% of the state's total dollar losses from arson.

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<sup>3</sup> In MFIRS v5 a fire is considered an arson if the Cause of Ignition = 1 (Intentional) and the Age of Person (Fire Module) is greater than 17 or if the field is blank; or if the Wildland Module is used, the Wildland Fire Cause = 7 (Incendiary) and the Age of the Person (Wildland Module) is greater than 17 or if the field is left blank.

### All Arson Up

The total number of arsons increased by eight from 151 in 2013. Reported structure arsons increased by two from the 31 reported in 2013. Motor vehicle arsons remained the same with eight reported in both 2013 and 2014. Outside and other arsons increased by six from the 112 reported last year.

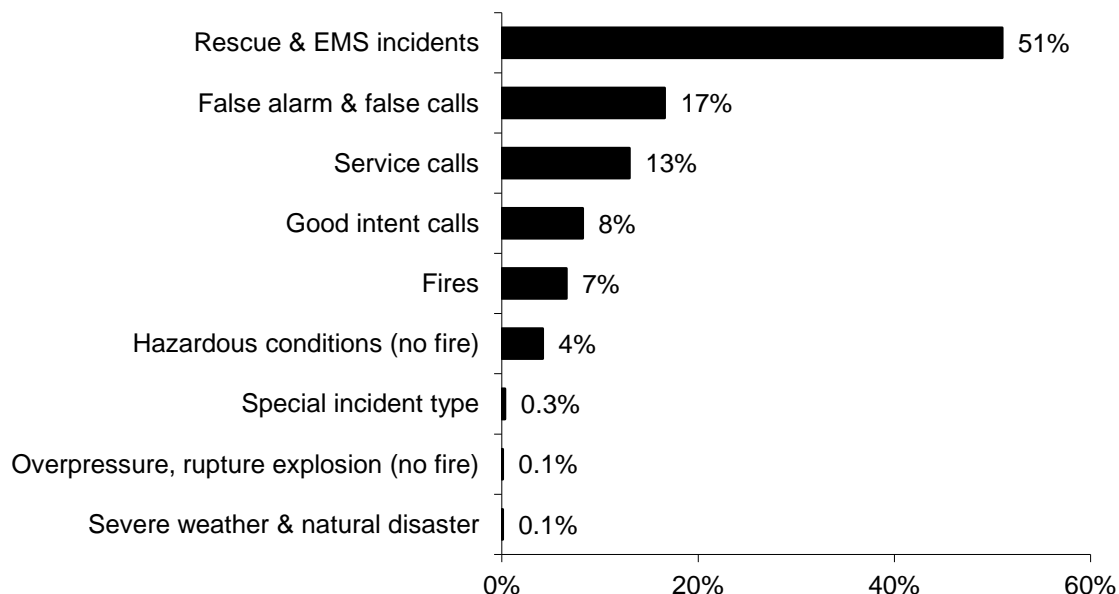
### ALL INCIDENTS

#### Rescue & EMS Calls Are 51% of All Reported Responses

In 2014, fire departments in Suffolk County reported 100,967 responses<sup>4</sup> to MFIRS. This is an increase of 2,979 runs, or 3%, over the 97,988 reported in 2013. Of these 100,967 responses, 94,321 non-fire calls were voluntarily reported.

Of these 94,321 non-fire calls, 51,474, or 51%, of all the responses reported in 2014, were reported rescue and emergency medical services (EMS) calls; 16,743, or 17%, were reported false alarm or false calls; 13,120, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 8,308, or 8%, were reported good intent calls; 4,198, or 4%, reported hazardous condition calls with no fire; 323, or 0.3%, were special incident type calls such as citizen complaints; 80, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 75, or 0.1%, were severe weather calls.

### 2014 Responses by Incident Type



<sup>4</sup> These figures include responses in which Suffolk County fire departments gave mutual aid to other fire departments.



Six thousand one hundred and ninety-eight (6,198), or 7%, of the total responses submitted by Suffolk County fire departments were fires.

**Suffolk County Fire Departments Reported Giving Mutual Aid 156 Times**

In 2014, Suffolk County fire departments reported coming to the aid of other fire departments 156 times. Of these 156 responses, 81, or 52%, were for service calls such as cover assignments; 19, or 12%, were for rescue or EMS incidents; 19, or 12%, were for fires; 12, or 8%, were for hazardous conditions calls with no fire; 11, or 7%, were for false alarms or false calls; 10, or 6%, were for good intent calls; two, or 1%, were special incident types; one, or 1% was an overpressure, rupture explosion with no fire call; and one, or 1%, was a severe weather call.

**Suffolk County Fire Departments Received Mutual Aid in 180 Incidents**

In 2014, Suffolk County fire departments reported receiving aid from surrounding departments in 180 incidents. Of these 180 incidents, 63 or 35% were rescue and emergency medical services calls; 45, or 25%, were hazardous conditions calls with no fire; 30, or 17%, were for fires; 19, or 11%, were false alarms or false calls; 19, or 11%, were service calls; three, or 2%, were good intent calls; and one, or 1%, was a severe weather call.

**Suffolk County****Population: 722,023****9.2 Fires/1,000 Population****Total Fires: 6,627 \$52,177,781**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	4,901	74%	\$42,710,263
Vehicle Fires	349	5%	9,177,126
Other Fires	1,377	21%	290,392

5 Fatal Fires 0.75 Civilian Deaths/1,000 Fires  
 5 Civilian Deaths 0.07 Civilian Deaths/10,000 Population  
 2 Fire Service Deaths 38 Civilian Injuries 48 Fire Service Injuries

**Building Fires: 4,892****Residential Structure Fires: 4,208****Residential Structure Fires Confined to Non-Combustible Containers: 3,781****Unconfined Residential Structure Fires: 427**

4 Civilian Deaths 2 Fire Service Deaths 13 Civilian Injuries 44 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	2,896	69%	Operated	3,351	80%
1- & 2-Family homes	498	12%	Didn't operate	24	1%
Dormitories	200	4%	None	20	0.5%
Rooming houses	103	2%	Fire too small	58	1%
Residential board & care	77	2%	Didn't Alert (confined)	139	3%
Hotels or motels	40	1%	Undetermined	616	15%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	88%	Radiated heat from oper. eq.	1%	14%
Heating room or area	2%	Heat from operating eq.	1%	12%
Bedroom	1%	Arcing	1%	12%
Exterior balcony/unencl. porch	1%	Hot or smoldering object	1%	9%
Bathroom	1%	Cigarette	1%	7%

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

<sup>6</sup> 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.

<b>Item First Ignited<sup>7</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>8</sup></b>
Food, cooking materials	86%	Abandoned materials	1%	13%
Rubbish, trash, waste	3%	Too close to combustibles	1%	8%
Flammable, combustible liquid	2%	Misuse of materials	1%	7%
Structural member, framing	1%	Elec. fail., malfunc., other	1%	7%
Electrical wire, cable insulation	1%	Unspec. short-circuit arc	1%	6%
		Equipment unattend	1%	5%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	86%	Unintentional	6%	62%
None	6%	Failure of eq. or heat source	1%	14%
Boiler, furnace, cent. heat. unit	2%	Intentional	0.4%	4%
Electrical wiring, other	1%	Act of Nature	0.02%	0.2%
Chimney or flue	0.5%	Cause under investigation	1%	10%
Clothes dryer	0.3%	Undetermined	1%	8%

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

Alerted Occupants	83%
Didn't Alert Occupants	4%
Undetermined	13%

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

<sup>8</sup> 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.

<sup>9</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>10</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	533	469	33	31
February	509	446	26	37
March	580	464	34	82
April	578	397	30	151
May	615	422	27	166
June	592	351	26	215
July	499	300	28	171
August	474	303	28	143
September	599	407	37	156
October	530	405	30	95
November	574	477	22	75
December	544	460	28	56

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	1,059	790	41	228
Monday	934	649	62	223
Tuesday	925	695	53	177
Wednesday	909	689	42	178
Thursday	871	658	48	165
Friday	845	640	43	162
Saturday	1,084	780	60	244

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	476	308	55	113
04:01 – 08:00	427	301	37	89
08:01 – 12:00	1,088	877	62	149
12:01 – 16:00	1,545	1,081	74	390
16:01 – 20:00	1,879	1,446	71	362
20:01 – 00:00	1,212	888	50	274

### **Motor Vehicle Fires**

Total: 349

Automobiles: 275 (79%)

8, or (3%), of the automobile fires considered incendiary or suspicious

## Arson Fires

**Total Arsons: 159**

**Dollar loss: \$446,230**

### 0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	33	1%	21%	\$347,600
Vehicle Arsons	8	2%	5%	94,000
Other Arsons	118	9%	74%	4,630

0.05 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.16 Other arsons/1,000 population

No Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 – 20:00	11	33%	00:01 – 04:00	2	25%
12:01 – 16:00	7	21%	04:01 – 08:00	2	25%
00:01 – 04:00	5	15%	12:01 – 16:00	2	25%
20:01 – 00:00	5	15%			

Other Arsons	#	%
20:01 – 00:00	52	44%
16:01 – 20:00	34	29%
12:01 – 16:00	13	11%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	14	42%
High/junior high/middle school	3	9%
Restaurant or cafeteria	2	6%
Motor vehicle or boat sales, service, repair	2	6%
Bridge or trestle	2	6%

**Boston** **Population: 617,594**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	5,812	4,187	378	1,247	123	31	17	75
2011	5,539	4,249	327	963	138	36	13	89
2012	5,693	4,192	280	1,221	150	27	18	105
2013	5,831	4,303	295	1,233	136	22	6	108
2014	5,682	4,243	298	1,141	152	31	8	113

**Chelsea** **Population: 35,177**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	376	254	17	105	15	8	0	7
2011	326	243	23	60	11	5	2	4
2012	425	307	20	98	12	4	4	4
2013	435	277	18	140	10	7	1	2
2014	352	267	19	66	6	1	0	5

**Massport** **Population: 0**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	66	7	15	44	0	0	0	0
2011	82	8	5	69	3	0	0	3
2012	121	5	7	109	1	0	0	1
2013	69	8	10	51	1	0	0	1
2014	55	4	16	35	0	0	0	0

**Revere** **Population: 51,755**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	468	368	9	91	1	0	1	0
2011	445	369	13	63	2	1	1	0
2012	398	300	16	82	4	2	0	2
2013	469	345	23	101	3	2	0	1
2014	470	339	16	115	1	1	0	0

**Winthrop** **Population: 17,497**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	88	45	3	40	6	0	0	6
2011	61	37	1	23	2	0	0	2
2012	41	22	2	17	2	0	0	2
2013	82	59	3	20	1	0	1	0
2014	68	48	0	20	0	0	0	0

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
25035	Boston	75,118	5,682	58	33,578	3,297	11,005	7,137	14,136	14	211
25057	Chelsea	9,524	352	8	6,946	262	504	418	988	15	31
25935	Massport	3,402	72	10	2,442	330	115	124	304	0	5
25248	Revere	10,027	472	2	6,593	210	1,121	453	1,061	46	69
25346	Winthrop	2,896	68	2	1,915	99	375	176	254	0	7
<b>Total</b>	<b>Suffolk County</b>	<b>100,967</b>	<b>6,646</b>	<b>80</b>	<b>51,474</b>	<b>4,198</b>	<b>13,120</b>	<b>8,308</b>	<b>16,743</b>	<b>75</b>	<b>323</b>

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



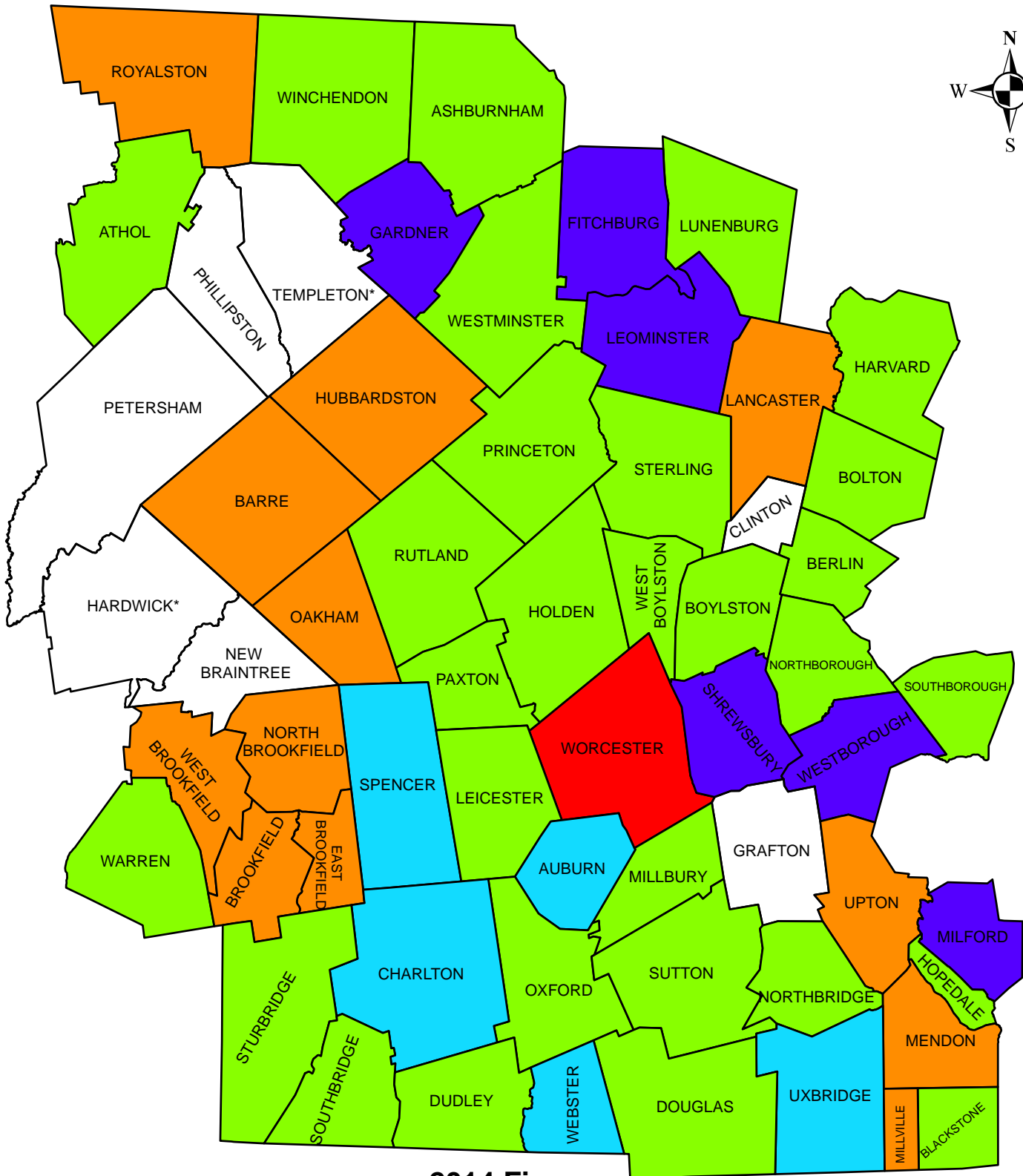
# Worcester County

## 2014 Fire Data Analysis

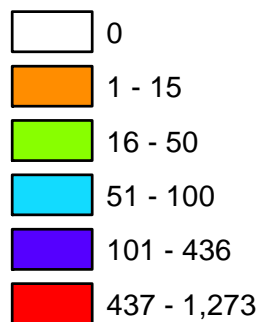
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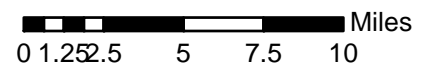
# Worcester County Fires 2014



## 2014 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2014

# Worcester County Fires in 2014

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## **3,618 Total Fires — 2,153 Structures, 363 Vehicles & 1,102 Other Fires**

Worcester County ranked third out of the fourteen Massachusetts counties in total reported fires. Worcester County fire departments reported 3,618 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2014. The 2,153 structure fires, 363 motor vehicle fires, 521 brush fires, 451 outside rubbish fires, 66 special outside fires, and 64 unclassified fires caused six civilian deaths, 38 civilian injuries, 48 fire service injuries and an estimated dollar loss of \$29.8 million. Worcester County's fires accounted for 12% of the 28,999 Massachusetts fires reported in 2014.

Fifty-eight (58), or 96.7%, 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 2014.

## **Outside & Other Fires Down**

Total fires decreased by 337, or 9%, from 3,955 incidents in 2013. Reported structure fires increased by 29 from the 2,124 reported during the previous year. Motor vehicle fires increased by six from 357 the year before. Outside and other fires decreased by 372 from 1,474 the year before.

## **WORCESTER COUNTY FIRES FROM 2010 TO 2014**

<b>Year</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	3,955	2,124	357	1,474	139	29	11	99
2014	3,618	2,153	363	1,102	82	28	9	45

## **Fire and Fire Death Rates**

Worcester County had 4.5 fires per 1,000 population. That figure ranks Worcester County fourth in the state and above the state rate of 4.4 fires per 1,000 population. Worcester County also had 0.08 fire deaths per 10,000 population ranking it seventh among Massachusetts counties and tied with the state rate of 0.08 fire deaths per 10,000 population.

## **6 Residents Died in 5 Worcester County Fires**

Worcester County had six of its residents die in five fires in 2014. All six of the deaths occurred in building fires.

- On January 9, 2014, at 11:46 a.m., the Lunenburg Fire Department was dispatched to a fire in a single-family home of undetermined cause. The fire began in the first floor living room. The victim, an 85-year old physically disabled man, was overcome while he tried to escape. There were no other injuries associated with this fire. Smoke

alarms were present but failed to operate due to a missing battery. The building was not sprinklered. Damages from this fire were estimated to be \$105,000.

- On January 24, 2014, 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. Alarms were not present. There were no sprinklers in the home. The fire caused an estimated \$195,000 worth of damage.
- On March 30, 2014, at 11:21 p.m., the Fitchburg Fire Department was called to a fatal smoking fire in a single-family home. The victims, a 40-year old woman and a 22-year old man were sleeping at the time of the fire. Another civilian was injured at this fire. Alarms were present. There were no sprinklers. Damages from this fire were estimated to be \$110,000. The fire spread to a neighboring building causing an additional \$20,000 in damages.
- On September 26, 2014, at 5:37 p.m., the Ashburnham Fire Department was called to a fatal electrical fire in a single-family home. The fire was started by an electrical outlet that had a power strip plugged into it in a children's bedroom. The victim, an 88-year old physically disabled woman was overcome by the heat and smoke. Three (3) other civilians were injured at this fire. It was undetermined if there were alarms present in the building. There were no sprinklers. The fire caused an estimated \$500,000 worth of damage.
- On October 26, 2014, at 12:10 p.m., the Holden Fire Department was called to a fatal self-immolation fire in a single-family home. The victim, a 51-year old man, went into a basement closet and ignited gasoline that he had poured around himself. One (1) firefighter was injured at this fire. Alarms were present and they did operate, but the victim was intimately involved with the ignition of the fire. The home was not sprinklered. Damages from this fire were estimated to be \$336,400.

#### **Largest Loss Fire in 2014**

In 2014, Worcester County fire departments reported one fire with a reported dollar loss of \$1 million or greater. The dollar loss of this fire totaled \$5.5 million, or 18%, of the county's total dollar loss.

- On March 5, 2014, at 8:38 p.m., the Worcester Fire Department was called to a fire at the 166 Harding St. The fire began with a chemical reaction in the shipping and receiving area. One (1) firefighter was injured at this fire. Alarms were not present. Sprinklers were also not present. Damages from this fire were estimated to be \$5.5 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 2,153 structure fires caused all six civilian deaths, 34 civilian injuries, 42 fire service injuries and an estimated dollar loss of \$29.8 million. These incidents represented 60% of Worcester County's reported fires in 2014. The average estimated dollar loss per structure fire was \$12,101. The total number of reported structure fires increased by 29, or 1%, from the 2,124 reported in 2013.

### **Arson Caused 1% of Structure Fires**

The 28 structure arsons caused one civilian injury, three fire service injuries and an estimated dollar loss of \$1 million. Arson was indicated as the cause of 1% of the structure fires and 4% of Worcester County's structure fire dollar loss. The 28 structure arsons accounted for 34% of the Worcester County arson fires reported in 2014. The total number of reported structure arsons decreased by 1, or 3%, from the 29 reported in 2013.

### **57% of Structure Arsons Occurred in Residences**

Fifty-seven percent (57%) of Worcester County's 28 structure arsons occurred in residential occupancies; 21% happened in mercantile and business properties, 11% in educational facilities; 7% happened in institutional facilities; and 4% occurred in special properties.

## **BUILDING FIRES**

There were 2,149 building fires of different types in Worcester County in 2014. These 2,149 building fires accounted for 99.8% of all structure fires in Worcester County.

### **86% of Worcester Building Fires Occurred in People's Homes**

One thousand eight hundred and forty-four (1,844), or 86%, of Worcester County's 2,149 building fires occurred in residential occupancies. Seventy-seven (77) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 76 fires. Hospitals, prisons, and other institutional buildings experienced 45 fires. Thirty-eight (38) building fires took place in educational properties. Twenty-seven (27) fires took place in storage properties. Twenty-five (25) fires took place in manufacturing and processing facilities. Ten (10) 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 one fire occurred in unclassified buildings in Worcester County in 2014.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Were Up**

There were 1,844 reported residential building fires in Worcester County in 2014. These 1,844 fires are an increase of 78, or 4%, from the 1,766 residential building fires reported in 2013.

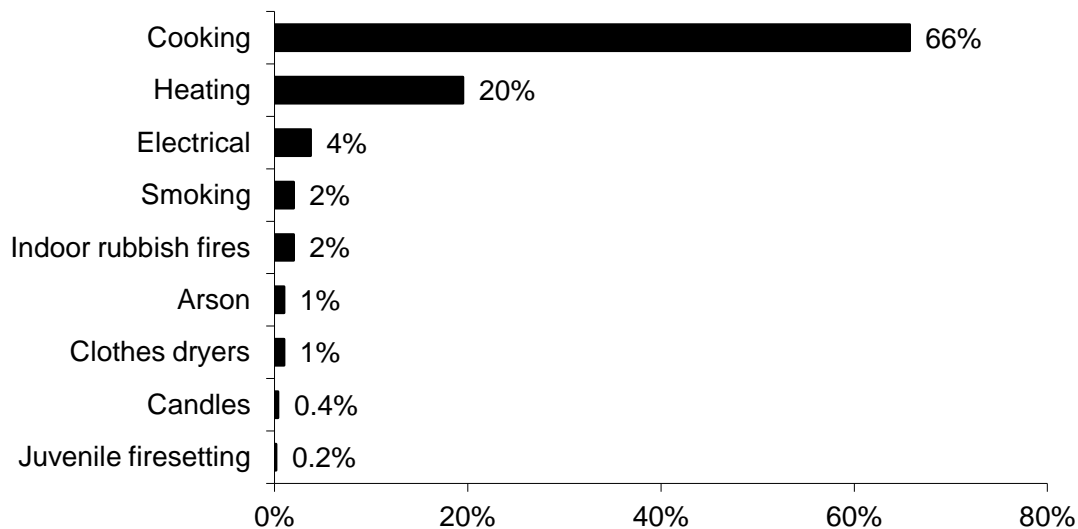
### **Apartments Accounted for 46% of Residential Building Fires**

The peak fixed property uses for residential building fires were apartments, accounting for 46% of the residential building fires in Worcester County; 39% occurred in one- or two-family homes; 6% happened in rooming houses; 5% occurred in dormitories; 2% occurred in residential board and care facilities; and less than 1% happened in hotels or motels. Eighteen (18), or 1%, of the residential building fires in Worcester County occurred in unclassified residential buildings.

### **Unattended Cooking Caused 66% of Residential Fires**

The leading cause of residential building fires in Worcester County was unattended cooking and other unsafe cooking practices, accounting for 66% of these fires. Heating caused 20% of fires in people's homes. Electrical problems accounted for 4% of these fires. Smoking and indoor rubbish fires each caused 2%. Arson and clothes dryers each caused 1% of the fires in people's homes in Worcester County in 2014. Candles and juvenile-set fires each caused less than 1% of these fires in 2014.

## **2014 Leading Causes of Fires in Worcester County Homes**



### **80% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>1</sup>**

One thousand four hundred and eighty (1,480), or 80%, of all residential building fires were reported as confined to non-combustible containers in 2014. One thousand one

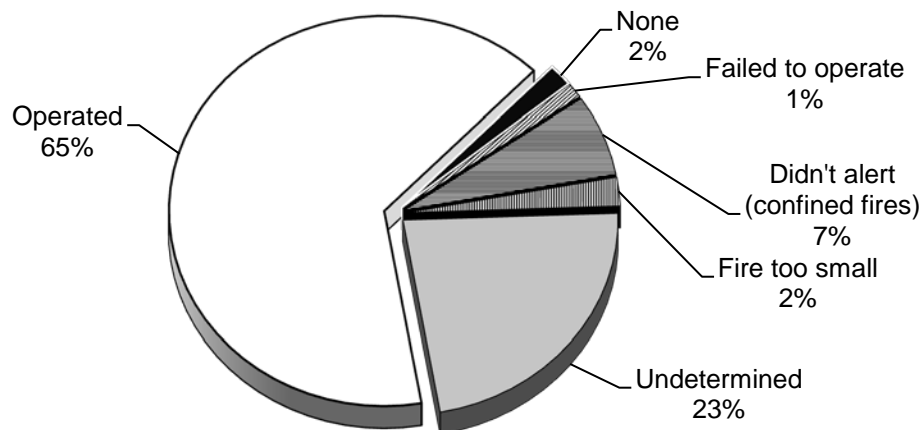
<sup>1</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

hundred and fifty-eight (1,158) of the reported fires were cooking fires contained to a non-combustible container, accounting for 63% of residential building fires. One hundred and fifty-nine (159), or 9%, were fires confined to a fuel burner or boiler malfunction. One hundred and thirty-five (135), or 7%, of all residential building fires reported in 2014 were confined to a chimney. Twenty-seven (27), or 1%, of the residential building fires in Worcester County in 2014 were contained rubbish fires; and one fire, or less than 1%, was an incinerator overload or malfunction.

### **Alarms Alerted Occupants in 65% of Fires**

Smoke or heat alarms operated and alerted the occupants in 1,199, or 65%, of the residential building fires. In 7% of these fires<sup>2</sup>, the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In 2% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 2% of the residential fires. Smoke alarm performance was undetermined in 420 incidents, or 23%, of Worcester County's residential building fires.

### **Detector Status in Worcester County's Residential Structure Fires 2014**



### **43% of Failed Alarms Had Missing or Dead Batteries**

Of the 23 fires where smoke alarms were present but failed to operate, six, or 26%, failed because the batteries were either missing or disconnected. Five (5), or 17%, failed because the batteries were dead. Three (3), or 13%, failed from a power failure, shutoff or disconnect. Improper installation or placement caused two, or 9%, of the alarms to fail. It was undetermined or unclassified in eight cases, or 35%, why the alarms failed to operate.

<sup>2</sup> These represent confined fires where it was reported that the alarm did not alert the occupants.

## **VACANT BUILDINGS**

### **2% of Building Fires Occurred in Vacant Buildings**

Worcester County reported 38 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 2,149 building fires reported to MFIRS in 2014. Twenty-two (22) fires occurred in vacant residential properties. Seven (7) vacant building fires occurred in storage facilities. Three (3) of these fires occurred in mercantile or business properties. Manufacturing or processing facilities and educational facilities each accounted for two of these fires. One (1) vacant building fire occurred in an institutional facility, and another occurred in an industrial facility in Worcester County in 2014.

Three (3), or 8%, of the vacant building fires in Worcester County in 2014 were determined to be intentionally set. A one- or two-family home, an apartment building, and a business office each accounted for one of the reported vacant structure arsons in 2014.

## **JUVENILE-SET FIRES**

### **28 Juvenile-set Fires**

There were 28 reported juvenile-set fires in Worcester County in 2014. The five structure fires, 19 brush fires, one outside rubbish fire, two special outside fires, and one unclassified fire caused three civilian injuries and \$13,600 in estimated damages.

## **ARSONS**

### **82 Total Arsons<sup>3</sup> — 28 Structures, 9 Vehicles & 45 Other Arsons**

Eighty-two (82), or 2%, of Worcester County's 3,618 fires were considered intentionally set, or, for purposes of this analysis, arson. The 28 structure arsons, nine motor vehicle arsons and 9,459 outside and other arsons caused one civilian death, one civilian injury, four fire service injuries and an estimated dollar loss of \$1.3 million. Worcester County's arson fires accounted for 10% of the state's total arson fires and 18% of the state's total dollar losses from arson.

### **All Arson Down**

The total number of arsons decreased by 57 from 139 in 2013. Reported structure arsons decreased by one from the 29 reported in 2013. Motor vehicle arsons decreased by two from the 11 reported in 2013. Outside and other arsons decreased by 54 from the 99 reported last year.

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<sup>3</sup> In MFIRS v5 a fire is considered an arson if the Cause of Ignition = 1 (Intentional) and the Age of Person (Fire Module) is greater than 17 or if the field is blank; or if the Wildland Module is used, the Wildland Fire Cause = 7 (Incendiary) and the Age of the Person (Wildland Module) is greater than 17 or if the field is left blank.

## ALL INCIDENTS

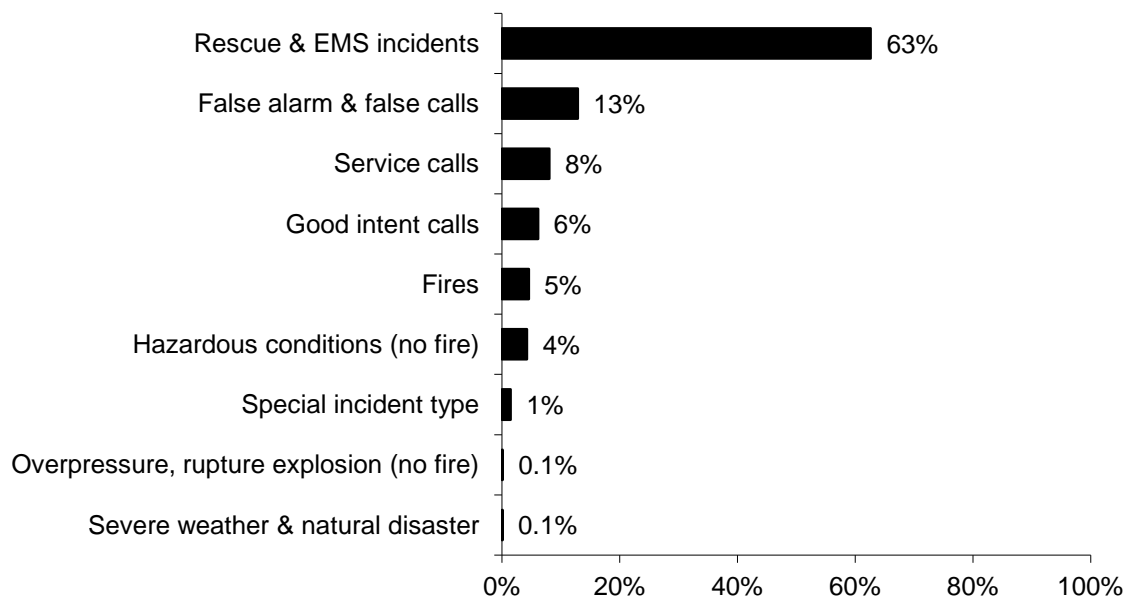
### Rescue & EMS Calls Are 63% of All Reported Responses

In 2014, fire departments in Worcester County reported 88,551 responses<sup>4</sup> to MFIRS. This is an increase of 4,048 runs, or 5%, over the 84,503 reported in 2013. Of these 88,551 responses, 84,533 non-fire calls were voluntarily reported.

Of these 84,533 non-fire calls, 55,451, or 63%, of all the responses reported in 2014 were reported rescue and emergency medical services (EMS) calls; 11,336, or 13%, were reported false alarm or false calls; 7,100, or 8%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,432, or 6%, were reported good intent calls; 3,741, or 4%, reported hazardous condition calls with no fire; 1,287, or 1%, were special incident type calls such as citizen complaints; 91, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 65, or 0.1%, were severe weather calls..

Four thousand and eighteen (4,018), or 5%, of the total responses submitted by Worcester County fire departments were fires.

### 2014 Responses by Incident Type



### Worcester County Fire Departments Reported Giving Mutual Aid 1,782 Times

In 2014, Worcester County fire departments reported coming to the aid of other fire departments 1,782 times. Of these 1,782 responses, 810, or 45%, were for rescue or EMS

<sup>4</sup> These figures include responses in which Worcester County fire departments gave mutual aid to other fire departments.



incidents; 387, or 22%, were for service calls such as cover assignments; 344, or 19%, were for fires; 155, or 9%, were for good intent calls; 48, or 3%, were for false alarms or false calls; 32, or 2%, were for hazardous conditions calls with no fire; four, or 0.2%, were special incident types; one, or 0.1% was an overpressure, rupture explosion with no fire call; and one, or 0.1%, was a severe weather call.

**Worcester County Fire Departments Received Mutual Aid in 1,089 Incidents**

In 2014, Worcester County fire departments reported receiving aid from surrounding departments in 1,089 incidents. Of these 1,089 incidents, 754 or 69% were rescue and emergency medical services calls; 199, or 18%, were for fires; 44, or 4%, were false alarms or false calls; 36, or 3%, were service calls; 30, or 3%, were good intent calls; 23, or 2%, were hazardous conditions calls with no fire; two, or 0.2% were special incident types; and one, or 0.1%, was an overpressure, rupture explosions without fire call.

**Worcester County****Population: 798,552****4.5 Fires/1,000 Population****Total Fires: 3,618 \$29,796,111**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	2,153	60%	\$26,054,072
Vehicle Fires	363	10%	3,369,509
Other Fires	1,102	30%	372,530

5 Fatal Fires 1.66 Civilian Deaths/1,000 Fires  
 6 Civilian Deaths 0.08 Civilian Deaths/10,000 Population  
 38 Civilian Injuries 48 Fire Service Injuries

**Building Fires: 2,149****Residential Structure Fires: 1,844****Residential Structure Fires Confined to Non-Combustible Containers: 1,480****Unconfined Residential Structure Fires: 364**

6 Civilian Deaths 34 Civilian Injuries 36 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	846	46%	Operated	1,199	65%
1- & 2-Family homes	712	39%	Didn't operate	23	1%
Rooming houses	108	5%	None	34	2%
Dormitories	97	5%	Fire too small	44	2%
Hotels or motels	43	2%	Didn't Alert (confined)	124	7%
Residential board & care	20	1%	Undetermined	420	23%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	67%	Radiated heat from oper. eq.	3%	16%
Chimney or flue	9%	Arcing	2%	11%
Heating room or area	7%	Heat from operating eq.	1%	7%
Bedroom	2%	Hot or smoldering object	1%	7%
Exterior balcony/unencl. porch	1%	Spark/ember/flame op. eq.	1%	5%
Living room	1%	Hot ember or ash	1%	5%

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

<sup>6</sup> 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.

<b>Item First Ignited<sup>7</sup></b>	<b>%</b>	<b>Factor Contrib. to Ignit.</b>	<b>%</b>	<b>%Unconfined<sup>8</sup></b>
Food, cooking materials	64%	Abandoned materials	1%	7%
Film or residue (creosote)	9%	Too close to combustibles	1%	6%
Flammable, combustible liquid	7%	Failure to clean	1%	5%
Rubbish, trash, waste	2%	Equipment unattended	1%	5%
Structural member, framing	1%	Elec. fail., malfunc., other	1%	4%
		Mech. fail., malfunc., other	1%	4%
		Misuse of materials	1%	3%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	65%	Unintentional	12%	62%
None	10%	Failure of eq. or heat source	3%	13%
Chimney or flue	9%	Intentional	2%	12%
Boiler, furnace, cent. heat. unit	8%	Act of Nature	0.3%	1%
Clothes dryer	1%	Cause under investigation	2%	8%
		Undetermined	3%	13%

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

Alerted Occupants	69%
Didn't Alert Occupants	8%
Undetermined	22%

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

<sup>8</sup> 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.

<sup>9</sup> This field does not need to be completed for confined fires. Certain codes are inferred from the Incident Type.

<sup>10</sup> 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.

<b>Month</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
January	299	244	31	24
February	205	155	37	13
March	262	188	31	43
April	410	173	28	209
May	327	153	37	137
June	347	174	35	138
July	294	138	28	128
August	311	159	24	128
September	313	176	37	100
October	274	195	29	50
November	336	211	25	100
December	240	187	21	32

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	538	320	38	180
Monday	516	278	57	181
Tuesday	535	328	50	157
Wednesday	510	308	61	141
Thursday	492	301	61	130
Friday	504	307	52	145
Saturday	523	311	44	168

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	233	130	36	67
04:01 – 08:00	250	154	32	64
08:01 – 12:00	566	378	61	127
12:01 – 16:00	955	515	101	339
16:01 – 20:00	1,050	634	83	333
20:01 – 00:00	564	342	50	172

### **Motor Vehicle Fires**

Total: 363

Automobiles: 287 (79%)

6, or (2%), of the automobile fires considered incendiary or suspicious

## Arson Fires

**Total Arsons: 82**

**Dollar loss: \$1,289,179**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	28	1%	34%	\$1,014,128
Vehicle Arsons	9	2%	11%	105,036
Other Arsons	45	4%	55%	170,015

0.04 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.06 Other arsons/1,000 population

1 Civilian Injury

4 Fire Service Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 – 20:00	7	25%	20:01 – 00:00	4	44%
12:01 – 16:00	6	21%	04:01 – 08:00	2	22%
00:01 – 04:00	5	18%	00:01 – 04:00	1	11%
20:01 – 00:00	5	18%	08:01 – 12:00	1	11%
			16:01 – 20:00	1	11%

Other Arsons	#	%
16:01 – 20:00	16	36%
12:01 – 16:00	11	24%
20:01 – 00:00	8	18%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	9	32%
1- or 2-Family homes	6	21%
High/junior high/middle school	3	11%
Mercantile, business, other	2	7%

<b>Ashburnham</b>					<b>Population: 6,081</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	23	8	1	14	0	0	0	0

<b>Athol</b>					<b>Population: 11,584</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	42	19	4	19	4	0	0	4

<b>Auburn</b>					<b>Population: 16,188</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	53	23	12	18	3	0	1	2

<b>Barre</b>					<b>Population: 5,398</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	8	4	3	1	0	0	0	0

<b>Berlin</b>					<b>Population: 2,886</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	10	5	6	0	0	0	0

<b>Blackstone</b>					<b>Population: 9,026</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	17	7	1	9	1	0	0	1

<b>Bolton</b>					<b>Population: 4,897</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	20	7	8	5	1	0	0	1

<b>Boylston</b>					<b>Population: 4,355</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	17	10	2	5	0	0	0	0

**Brookfield** **Population: 3,390**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1	1	0	0	0	0	0	0

**Charlton** **Population: 12,981**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	57	26	12	19	3	0	0	3

**Clinton** **Population: 13,606**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	33	25	2	6	0	0	0	0

**Douglas** **Population: 8,471**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	30	18	1	11	0	0	0	0



<b>Dudley</b>					<b>Population: 11,390</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	33	24	3	6	0	0	0	0

<b>East Brookfield</b>					<b>Population: 2,183</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	12	2	1	9	0	0	0	0

<b>Fitchburg</b>					<b>Population: 40,318</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	436	331	31	74	5	3	0	2

<b>Gardner</b>					<b>Population: 20,228</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	153	121	12	20	2	1	0	1

<b>Grafton</b>					<b>Population: 17,765</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014 <sup>11</sup>	0	0	0	0	0	0	0	0

<b>Hardwick</b>					<b>Population: 2,990</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	Non-Reporting Community							

<b>Harvard</b>					<b>Population: 6,520</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	38	16	5	17	2	0	0	2

<b>Holden</b>					<b>Population: 17,346</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	49	26	3	20	3	3	0	0

<sup>11</sup> Grafton reported only 14 incidents in 2014. Non of them were fires.

**Hopedale** **Population: 5,911**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	19	7	3	9	3	0	0	3

**Hubbardston** **Population: 4,382**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	15	9	3	3	0	0	0	0

**Lancaster** **Population: 8,055**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	13	3	3	7	1	0	0	1

**Leicester** **Population: 10,970**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	31	12	5	14	2	1	0	1

**Leominster****Population: 40,759**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	153	91	20	42	2	0	0	2

**Lunenburg****Population: 10,086**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	45	29	5	11	1	0	1	0

**Mendon****Population: 5,839**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	13	6	1	6	0	0	0	0

**Milford****Population: 27,999**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	104	50	11	43	1	1	0	0

**Millbury** **Population: 13,261**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	47	23	10	14	3	2	1	0

**Millville** **Population: 3,190**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	7	4	0	3	0	0	0	0

**New Braintree** **Population: 999**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**North Brookfield** **Population: 4,680**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	10	8	0	2	0	0	0	0

**Northborough****Population: 14,155**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	37	10	7	20	1	1	0	0

**Northbridge****Population: 15,707**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	41	24	3	14	0	0	0	0

**Oakham****Population: 1,902**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	8	7	0	1	0	0	0	0

**Oxford****Population: 13,709**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	43	21	6	16	1	1	0	0

**Paxton** **Population: 4,806**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	20	11	5	4	0	0	0	0

**Petersham** **Population: 1,234**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Fire Department in Good Standing, Certified No Reportable Fires							

**Phillipston** **Population: 1,682**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010	2	0	0	2	1	0	0	1
2011 <sup>12</sup>	Fire Department in Good Standing, Certified No Reportable Fires							
2012	3	2	0	1	0	0	0	0
2013	1	0	0	1	0	0	0	0
2014	1	1	0	0	0	0	0	0

**Princeton** **Population: 3,413**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	17	12	2	3	0	0	0	0

<sup>12</sup> In 2011 Phillipston reported 19 incidents, none of them fires.

<b>Royalston</b>					<b>Population: 1,258</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	9	5	2	2	0	0	0	0

<b>Rutland</b>					<b>Population: 7,973</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	21	13	2	6	0	0	0	0

<b>Shrewsbury</b>					<b>Population: 35,608</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	119	64	14	41	5	2	0	3

<b>Southborough</b>					<b>Population: 9,767</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	16	7	1	8	0	0	0	0



<b>Southbridge</b>							<b>Population: 16,719</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	41	18	8	15	2	1	0	1

<b>Spencer</b>							<b>Population: 11,688</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	71	52	7	12	2	1	0	1

<b>Sterling</b>							<b>Population: 7,808</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	22	7	6	9	0	0	0	0

<b>Sturbridge</b>							<b>Population: 9,268</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	42	22	10	10	1	0	0	1

<b>Sutton</b>					<b>Population: 8,963</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	37	16	5	16	1	0	0	1

<b>Templeton</b>					<b>Population: 8,013</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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							
2014	Non-Reporting Community							

<b>Upton</b>					<b>Population: 7,542</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	9	2	2	5	0	0	0	0

<b>Uxbridge</b>					<b>Population: 13,457</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	69	23	9	37	5	0	0	5

<b>Warren</b>					<b>Population: 5,135</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	18	8	8	2	0	0	0	0

<b>Webster</b>					<b>Population: 16,767</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	57	31	6	20	3	1	0	2

<b>West Boylston</b>					<b>Population: 7,669</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	19	6	6	7	2	0	0	2

<b>West Brookfield</b>					<b>Population: 3,701</b>			
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2010 <sup>13</sup>	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
2014	2	2	0	0	0	0	0	0

<sup>13</sup> 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.

<b>Westborough</b>							<b>Population: 18,272</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	110	82	9	19	0	0	0	0

<b>Westminster</b>							<b>Population: 7,277</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	34	15	5	14	0	0	0	0

<b>Winchendon</b>							<b>Population: 10,300</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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	34	26	5	3	1	1	0	0
2014	38	24	1	13	1	0	0	1

<b>Worcester</b>							<b>Population: 181,045</b>	
	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
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
2014	1,273	791	76	406	21	10	6	5

## 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	295	26	0	52	35	40	47	94	0	1
27015	Athol	727	50	2	118	86	217	81	157	3	13
27017	Auburn	3,164	68	0	2,321	151	201	176	228	1	18
27021	Barre	271	9	0	169	10	19	20	42	1	1
27028	Berlin	474	26	0	41	17	7	23	104	1	255
27032	Blackstone	268	18	2	88	17	24	32	83	1	3
27034	Bolton	167	20	0	13	14	22	22	73	3	0
27039	Boylston	87	21	0	28	13	10	2	10	1	2
27045	Brookfield	1	1	0	0	0	0	0	0	0	0
27054	Charlton	1,796	68	0	1,222	179	120	81	124	0	2
27064	Clinton	971	38	2	572	29	76	24	218	0	12
27077	Douglas	285	52	2	92	23	31	19	60	5	1
27080	Dudley	392	53	5	60	41	33	72	128	0	0
27084	East Brookfield	106	20	0	13	28	3	7	32	1	2
27097	Fitchburg	4,432	450	5	1,842	176	579	394	970	2	14

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27103	Gardner	4,534	160	4	2,568	165	605	130	497	0	405
27110	Grafton	14	0	0	3	2	1	0	8	0	0
27125	Harvard	260	40	0	59	15	28	23	95	0	0
27134	Holden	1,896	50	0	1,340	48	124	122	209	2	1
27138	Hopedale	618	29	0	435	24	52	22	53	2	1
27140	Hubbardston	569	15	0	371	21	56	32	72	1	1
27147	Lancaster	438	13	0	256	14	37	32	80	0	6
27151	Leicester	261	46	2	11	39	43	8	110	0	2
27153	Leominster	6,072	164	1	4,042	180	395	228	629	1	432
27162	Lunenburg	407	49	0	76	58	60	25	128	7	4
27179	Mendon	756	13	0	536	17	48	67	74	0	1
27185	Milford	4,605	125	0	3,031	156	636	206	422	9	20
27186	Millbury	270	54	4	9	37	26	34	105	1	0
27188	Millville	261	16	1	132	7	37	47	19	1	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	151	14	0	14	41	19	3	55	0	5
27215	Northborough	2,077	44	0	1,274	64	296	100	299	0	0
27216	Northbridge	824	48	0	217	83	91	114	270	1	0
27222	Oakham	147	9	0	109	3	6	12	8	0	0
27226	Oxford	483	43	2	109	43	91	67	126	0	2
27228	Paxton	285	37	0	177	8	6	5	52	0	0
27235	Phillipston	46	3	0	17	11	4	1	10	0	0
27241	Princeton	306	17	2	174	13	35	21	39	1	4
27255	Royalston	9	9	0	0	0	0	0	0	0	0
27257	Rutland	936	24	1	645	25	99	64	75	2	1
27271	Shrewsbury	3,517	122	5	2,471	177	200	77	455	1	9
27277	Southborough	1,241	22	1	729	52	159	55	221	0	2
27278	Southbridge	871	49	1	343	72	92	78	218	0	18
27280	Spencer	360	83	0	9	77	52	15	116	3	5
27282	Sterling	1,128	33	0	683	21	144	129	117	1	0

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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	1,678	50	3	1,077	50	260	79	154	0	5
27290	Sutton	505	60	0	277	29	44	9	85	0	1
27303	Upton	162	10	0	11	44	29	9	57	2	0
27304	Uxbridge	2,115	74	0	1,525	67	151	117	179	0	2
27311	Warren	193	22	0	43	20	41	18	48	1	0
27316	Webster	598	58	1	55	132	102	44	199	1	6
27321	West Boylston	781	23	0	571	18	56	38	72	2	1
27323	West Brookfield	2	2	0	0	0	0	0	0	0	0
27328	Westborough	2,986	122	4	2,147	108	157	107	337	0	4
27332	Westminster	946	35	3	441	57	154	72	172	2	10
27343	Winchendon	1,699	38	1	1,203	50	158	124	121	2	2
27348	Worcester	30,108	1,273	37	21,630	874	1,124	2,098	3,057	3	12
<b>Total</b>	<b>Worcester County</b>	<b>88,551</b>	<b>4,018</b>	<b>91</b>	<b>55,451</b>	<b>3,741</b>	<b>7,100</b>	<b>5,432</b>	<b>11,366</b>	<b>65</b>	<b>1,287</b>

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