

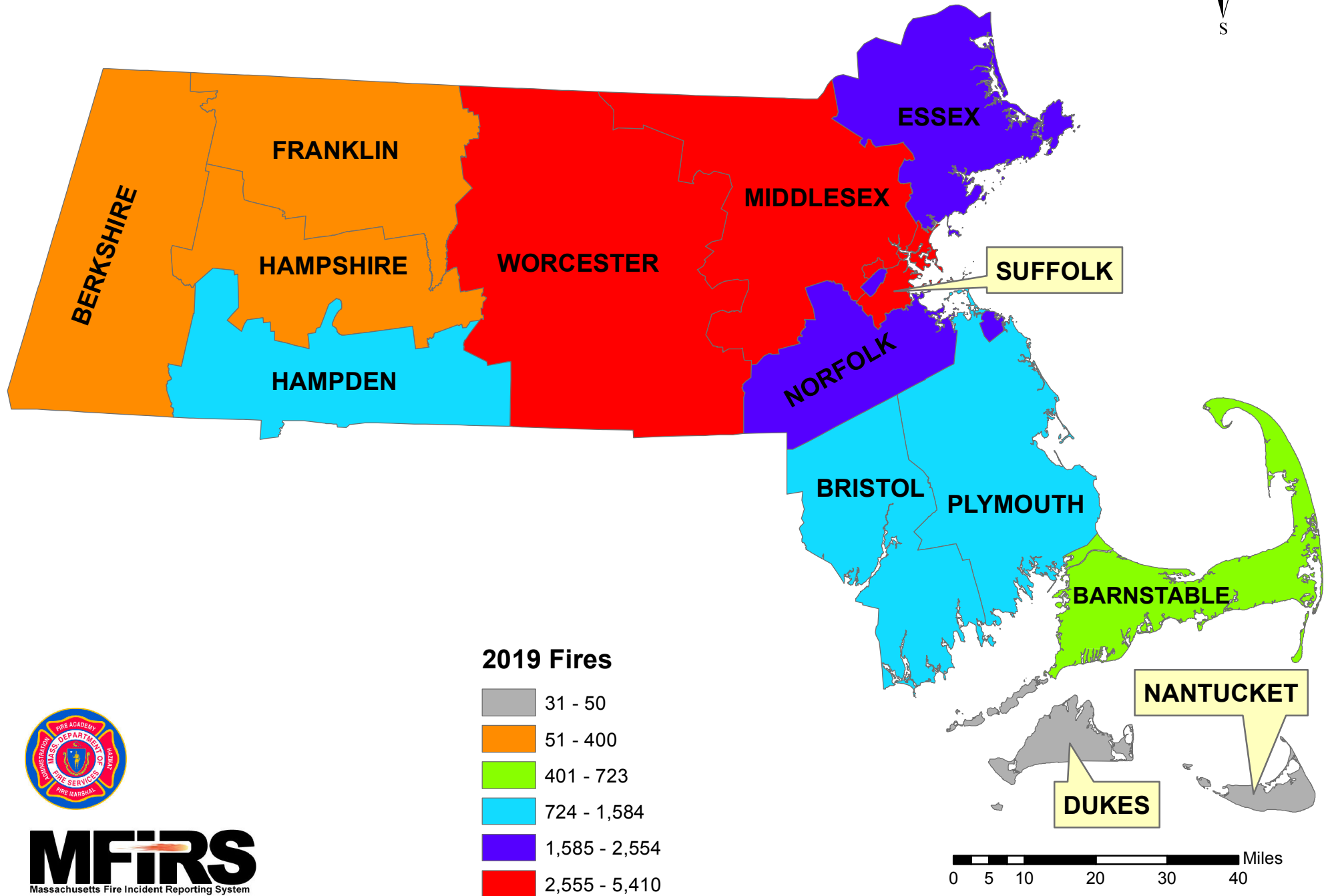


# County Profiles

## 2019 Fire Data Analysis

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

# 2019 Fires in Massachusetts Counties



**MFIRS**  
Massachusetts Fire Incident Reporting System

0 5 10 20 30 40 Miles  
Massachusetts Fire Incident Reporting System 2019

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**Berkshire County Profile**

**Bristol County Profile**

**Dukes County Profile**

**Essex County Profile**

**Franklin County Profile**

**Hampden County Profile**

**Hampshire County Profile**

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**Nantucket County Profile**

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**Suffolk County Profile**

**Worcester County Profile**

## 2019 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	723	324	82	317	3	11	0	15	\$6,468,578
Berkshire	359	191	34	134	6	12	0	9	5,887,385
Bristol	1,509	727	243	539	8	23	0	19	20,771,760
Dukes	50	23	4	23	0	0	0	0	825,600
Essex	2,068	1,157	238	673	0	8	0	64	28,760,098
Franklin	224	103	28	93	0	2	0	6	2,538,887
Hampden	1,584	885	250	449	4	28	0	54	12,517,448
Hampshire	400	194	53	153	1	9	0	6	4,135,051
Middlesex	5,410	3,778	386	1,246	9	44	0	189	41,464,515
Nantucket	31	16	2	13	0	1	0	0	2,256,104
Norfolk	2,554	1,704	210	640	0	13	0	59	23,412,582
Plymouth	1,565	808	198	559	4	46	1	23	13,407,136
Suffolk	4,986	3,843	239	904	4	4	0	24	58,679,984
Worcester	3,713	2,395	388	930	3	47	1	38	27,688,236
<b>Total</b>	<b>25,176</b>	<b>16,148</b>	<b>2,355</b>	<b>6,673</b>	<b>42</b>	<b>252</b>	<b>2</b>	<b>506</b>	<b>248,813,274</b>

## 2019 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	25	4	3	18	0	0	0	0	\$584,000
Berkshire	28	11	1	16	1	0	0	1	433,567
Bristol	40	9	7	24	0	2	0	0	312,791
Dukes	4	0	0	4	0	0	0	0	0
Essex	60	12	1	47	0	0	0	1	471,761
Franklin	13	1	1	11	0	0	0	1	3,000
Hampden	72	23	21	28	1	1	0	1	393,250
Hampshire	18	4	2	12	0	0	0	0	4,500
Middlesex	69	15	8	46	2	2	0	2	156,027
Nantucket	0	0	0	0	0	0	0	0	0
Norfolk	42	6	1	35	0	0	0	0	6,000
Plymouth	33	14	5	14	0	1	0	1	668,205
Suffolk	74	21	5	48	0	0	0	0	253,040
Worcester	93	24	9	60	1	5	0	5	3,194,369
<b>Total</b>	<b>571</b>	<b>144</b>	<b>64</b>	<b>363</b>	<b>5</b>	<b>11</b>	<b>0</b>	<b>2</b>	<b>\$6,480,500</b>



## 2019 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	723	3.3	3	4.1	0.14	25	0.1
Berkshire	131,219	359	2.7	6	16.7	0.46	28	0.2
Bristol	548,285	1,509	2.8	8	5.3	0.15	40	0.1
Dukes	16,535	50	3.0	0	0.0	0.00	4	0.2
Essex	743,159	2,068	2.8	0	0.0	0.00	60	0.1
Franklin	71,372	224	3.1	0	0.0	0.00	13	0.2
Hampden	463,490	1,584	3.4	4	2.5	0.09	72	0.2
Hampshire	158,080	400	2.5	1	2.5	0.06	18	0.1
Middlesex	1,503,085	5,410	3.6	9	1.7	0.06	69	0.05
Nantucket	10,172	31	3.0	0	0.0	0.00	0	0.0
Norfolk	670,850	2,554	3.8	0	0.0	0.00	42	0.1
Plymouth	494,919	1,565	3.2	4	2.6	0.08	33	0.1
Suffolk	722,023	4,986	6.9	4	0.8	0.06	74	0.1
Worcester	798,552	3,713	4.6	3	0.8	0.04	93	0.1
<b>Massachusetts</b>	<b>6,547,629</b>	<b>25,176</b>	<b>3.8</b>	<b>42</b>	<b>1.7</b>	<b>0.06</b>	<b>571</b>	<b>0.1</b>

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

## 2019 Non-Fire Responses by County and by Incident Type<sup>1</sup>

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>2</sup> & Natural Disaster	Special Incident Type
Barnstable	65,244	57	46,773	2,950	4,508	2,919	7,661	108	268
Berkshire	12,554	12	6,862	791	1,658	715	2,395	38	83
Bristol	62,594	54	41,974	2,454	3,861	3,545	10,114	49	543
Dukes	1,933	6	123	137	105	424	1,116	3	19
Essex	107,271	108	60,785	5,979	13,737	7,698	18,406	204	354
Franklin	8,571	15	4,999	734	837	571	1,028	73	314
Hampden	53,056	78	33,785	2,065	4,064	4,455	8,379	77	153
Hampshire	18,909	28	12,851	896	896	1,093	3,005	91	49
Middlesex	207,925	137	124,251	10,330	22,360	12,506	32,843	173	5,325
Nantucket	2,412	3	1,202	80	31	51	1,037	0	8
Norfolk	105,744	132	67,501	5,137	10,177	6,888	14,906	124	879
Plymouth	89,573	67	61,625	4,394	7,959	5,142	9,865	228	293
Suffolk	104,031	64	51,143	4,097	16,865	10,178	20,762	30	892
Worcester	105,636	169	70,424	4,134	9,615	7,201	13,730	142	221
<b>Massachusetts</b>	<b>945,453</b>	<b>930</b>	<b>584,298</b>	<b>44,178</b>	<b>96,673</b>	<b>63,386</b>	<b>145,247</b>	<b>1,340</b>	<b>9,401</b>

<sup>1</sup> These numbers may be higher than reported in the text of this document as they are the most recent figures available.

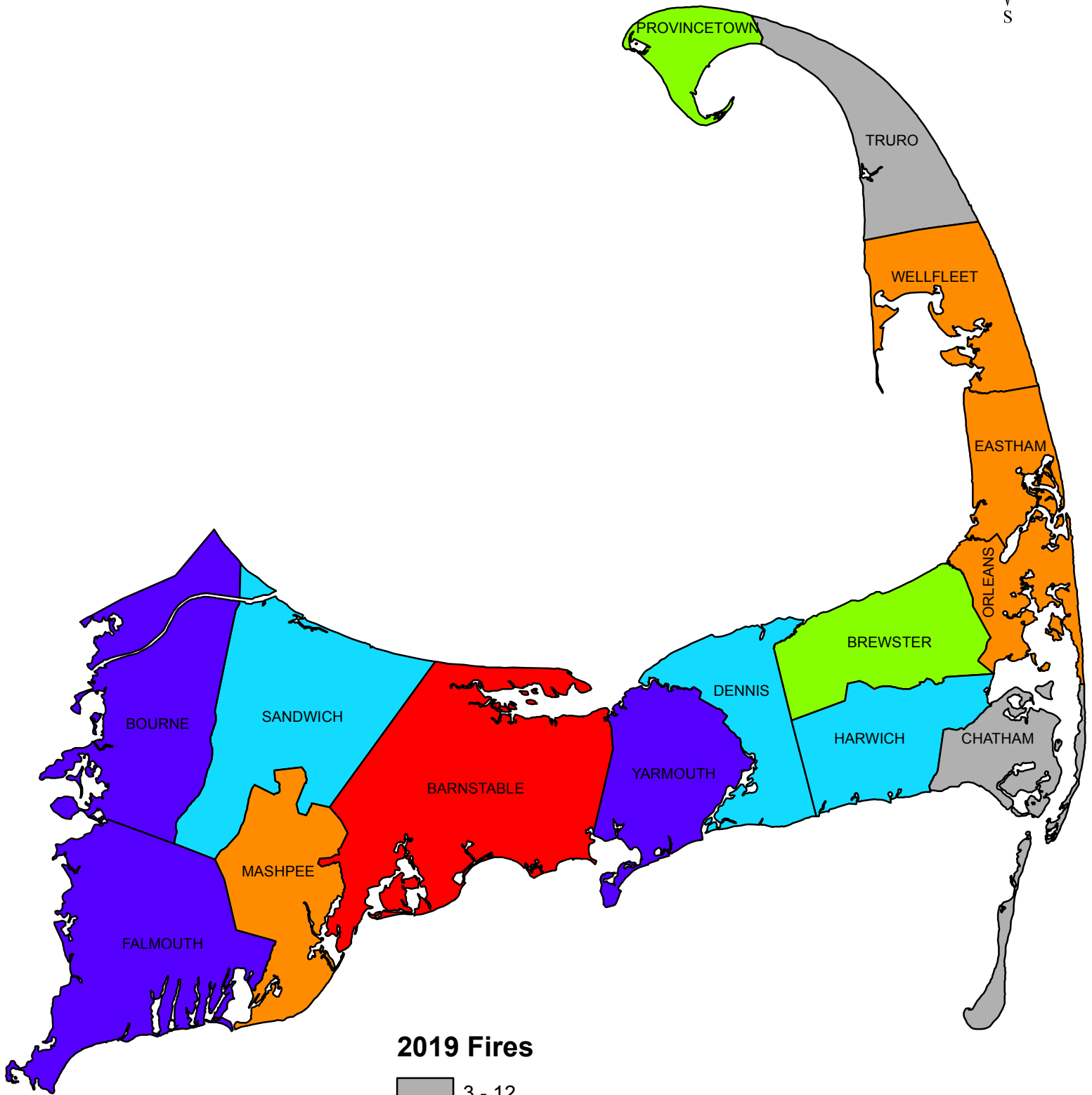
<sup>2</sup> WX is the abbreviation for Weather.



# Barnstable County

## 2019 Fire Data Analysis

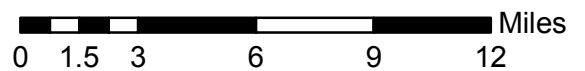
# Barnstable County Fires 2019



## 2019 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System



Massachusetts Fire Incident Reporting System 2019

# Barnstable County Fires in 2019

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## **723 Total Fires — 324 Structures, 82 Vehicles & 317 Other Fires**

Barnstable County ranked ninth out of the 14 Massachusetts counties in total reported fires. Barnstable County fire departments reported 723 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 324 structure fires, 82 motor vehicle fires, 179 brush, tree, or lawn fires, 76 outside rubbish fires, 38 special outside fires, one cultivated crop or vegetation fire, and 23 unclassified fires caused three civilian deaths, 11 civilian injuries, 15 fire service injuries and an estimated dollar loss of \$6.5 million. Barnstable County's fires accounted for 3% of the 25,176 Massachusetts fires reported in 2019.

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 2019.

## **Structure Fires Up**

The total number of reported fire incidents decreased by four from the 723 reported in 2018. Reported structure fires increased by 14 from the 310 reported during the previous year. Motor vehicle fires decreased by seven from 89 in 2018. Outside and other fires decreased by 11 from the 328 reported the year before.<sup>1</sup>

## **BARNSTABLE COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	860	336	100	424	48	5	2	41
2016	834	350	76	408	28	8	0	20
2017	770	303	88	379	35	6	2	27
2018	727	310	89	328	31	3	2	26
2019	723	324	82	317	25	4	3	18

## **Fire and Fire Death Rates**

Barnstable County had 3.3 fires per 1,000 population. That figure ranks Barnstable County sixth in the state and below the state rate of 3.8 fires per 1,000 population. Barnstable County also had 0.14 fire deaths per 10,000 population, ranking it third and below the state rate of 0.06 fire deaths per 10,000 population.

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

In 2019, Barnstable County had two fatal fires kill three people.

- On March 11, 2019, at 12:19 a.m., the Wellfleet Fire Department was dispatched to a fire in a single-family home of undetermined cause. The victims were a 77-year old woman and her 77-year old husband. One firefighter was also injured at this fire. It

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<sup>1</sup> 2019 was another down year for brush fires statewide.

was undetermined if smoke alarms were present. It was also undetermined if the building was sprinklered. Damages from this fire were estimated to be \$586,000.

- On November 21, 2019, at 2:31 p.m., the Provincetown Fire Department was called to a fatal fire in a single-family home of undetermined cause. The victim was a 73-year old man. 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 \$455,000.

### **Wellfleet Had Barnstable County's Largest Loss Fire**

In 2019 Barnstable County did not have any large loss fires over \$1 million in estimated damages. They did have 17 fires with a dollar loss between \$100,000 and \$999,999. The combined losses were estimated to be \$4.5 million, or 70% of Barnstable County's total reported dollar loss in 2019.

- On March 11, 2019, at 12:19 a.m., the Wellfleet Fire Department was dispatched to a fire in a single-family home of undetermined cause. The victims were a 77-year old woman and her 77-year old husband. One firefighter was also injured at this fire. It was undetermined if smoke alarms were present. It was also undetermined if the building was sprinklered. Damages from this fire were estimated to be \$586,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 324 structure fires caused the three civilian death, thee civilian injuries, 11 fire service injuries and an estimated dollar loss of \$6 million. These incidents represented 45% of Barnstable County's reported fires in 2019. The total number of reported structure fires increased by 14, or 5%, from the 310 reported in 2018. The average estimated dollar loss per structure fire was \$18,516.

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

There were four structure arsons in 2019. Arson was indicated as the cause of 1% of the structure fires and 10% of Barnstable County's structure fire dollar loss. The four structure arsons accounted for 10% of the Barnstable County arson fires reported in 2019. The total number of reported structure arsons increased by one from the three reported in 2018.

### **All 4 of Structure Arsons Occurred in Residences**

All four, or 100%, of Barnstable County's four structure arsons occurred in residential occupancies.

## **BUILDING FIRES**

There were 320 building fires of different types in Barnstable County in 2019. These 320 building fires accounted for 98.8% of all building fires in Barnstable County.

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

Two hundred and seventy (270), or 84%, of Barnstable County's 320 building fires occurred in residential occupancies. Fourteen (14) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 12 fires. Seven (7) happened at special properties. Six (6) fires took place in storage properties. Hospitals, prisons, and other institutional buildings experienced five fires. Two (2) fires took place in manufacturing or processing facilities. Two (2) fires took place in educational facilities. Two (2) fires also occurred at industrial facilities.

**RESIDENTIAL FIRES****Residential Building Fires Were Up**

There were 270 reported residential building fires in Barnstable County in 2019. These 270 fires are an increase of 24, or 10%, from the 246 residential building fires reported in 2018.

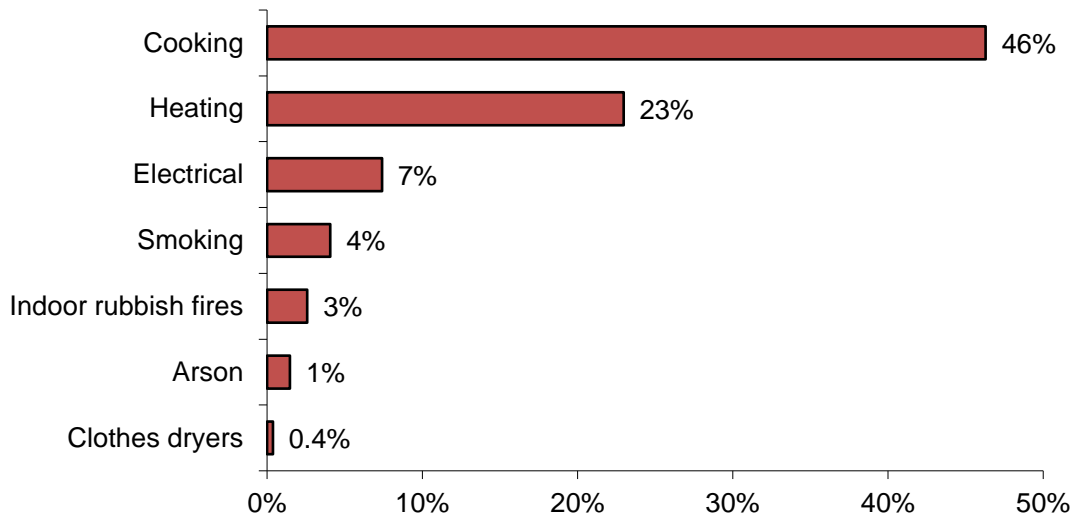
**1- & 2-Family Homes Accounted for 79% of Residential Building Fires**

The peak fixed property use for residential building fires were one- or two-family homes, accounting for 79% of the building fires in Barnstable County; 17% occurred in apartments; 2% happened in hotels or motels; less than 1% occurred in residential board and care facilities; and less than 1% occurred in rooming houses. Three (3), 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 46% of the fires. Heating fires accounted for 23% of the fires in people's homes in 2019; 55% involved a chimney or flue and 40% involved a fuel burner or boiler. Electrical problems caused 7% of fires in residential buildings. Smoking caused 4% of these fires. Indoor rubbish fires caused 3% of these fires. Arson was responsible for 1% and clothes dryers caused less than 1% of these fires.

## 2019 Leading Causes of Fires in Barnstable County Homes



### 64% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

One hundred and seventy-four (174), or 64%, of all residential building fires were reported as confined to non-combustible containers in Barnstable County in 2019. One hundred and thirteen (113), or 42%, of all residential building fires reported in 2019 were cooking fires contained to a non-combustible container. Thirty-two (32) of the reported fires were confined to a chimney, accounting for 12% of residential building fires. Twenty-one (21), or 8%, were fires confined to a fuel burner or boiler malfunction. Seven (7), or 3%, of these fires were rubbish fires contained to a non-combustible container; and one, or less than 1% was an incinerator overload or malfunction.

### Detectors Alerted Occupants in Only 43% of Fires

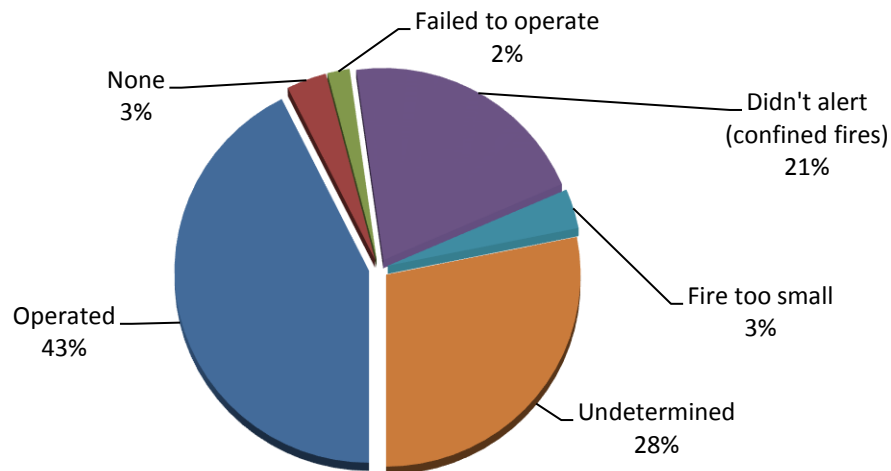
Smoke or heat detectors operated and alerted the occupants in 115, or 43%, of the residential building fires. In 21% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 76 incidents, or 28%, of Barnstable County's residential building fires.

<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.

<sup>3</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 2019



### 5 Detectors failed

There were five fires where smoke detectors were present but failed to operate. Missing or disconnected batteries, a dead battery, a power failure, shut off or disconnect, and a defective detector was each the cause of one, or 20%, of the the failed detectors. It was undetermined in the other case, or 20%, why the detector failed.

### VACANT BUILDINGS

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

Barnstable County reported seven fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the 320 building fires reported to MFIRS in 2019. Six (6) residential buildings and one storage property were reported as vacant building fire incidents.

None of the vacant building fires in Barnstable County in 2019 were determined to be intentionally-set.

### JUVENILE-SET FIRES

#### 1 Juvenile-set Fires

There was one reported juvenile-set fire in Barnstable County in 2019. It was a brush fire.

### ARSONS

#### 25 Total Arsons — 4 Structures, 3 Vehicle & 18 Other Arsons

Twenty-five (25), or 3%, of Barnstable County's 723 fires were considered intentionally-set, or, for purposes of this analysis, arson. The four structure arsons, three

motor vehicle arsons and 18 outside and other arsons caused an estimated dollar loss of \$584,000.

### **All Arson Down Slightly**

The total number of reported arson fires decreased by six, or 19%, from the 31 reported in 2018. Reported structure arsons increased by one from the three reported in 2018. Motor vehicle arsons also increased by one from two 2018. Reported outside and other arsons decreased by eight from the 26 reported in 2018.

## **ALL INCIDENTS**

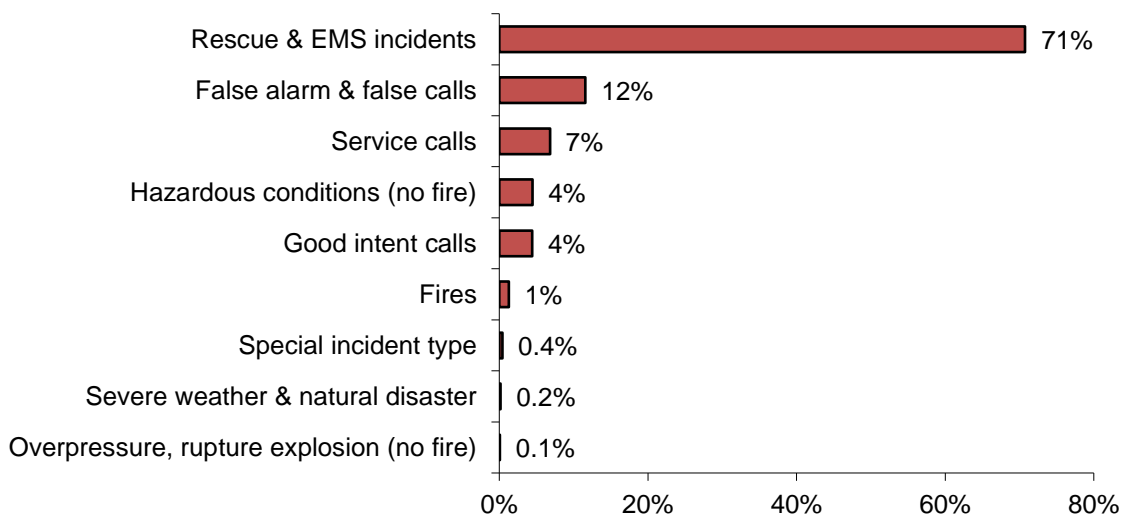
### **Rescue & EMS Calls Are 71% of All Reported Incidents**

In 2019, Barnstable County fire departments reported 66,102 responses<sup>4</sup> to MFIRS. Of these 66,102 incidents, 65,244 non-fire calls were voluntarily reported.

Of these 65,244 non-fire calls, 46,733, or 71%, of all of the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 7,661, or 12%, were reported false alarm or false calls; 4,508, or 7%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 2,950, or 4%, were reported hazardous condition calls with no fire; 2,919, or 4%, reported good intent calls; 268, or 0.4%, were special incident type calls such as citizen complaints; 108, or 0.2%, were severe weather responses; and 57, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Eight hundred and fifty-eight (858), or 1%, of the total responses submitted by Barnstable County fire departments were fires.

### **2019 Responses by Incident Type**



<sup>4</sup> These figures include responses in which Barnstable County fire departments gave mutual aid to other fire departments.

**Barnstable County Departments Gave Aid 1,839 Times**

In 2019, Barnstable County fire departments reported coming to the aid of other fire departments 1,839 times. Of these 1,839 responses, 1,032, or 56%, were for rescue or EMS incidents; 315, or 17%, were for good intent calls; 270, or 15%, were for service calls such as cover assignments; 135, or 7%, were for fires; 47, or 3%, were for hazardous conditions calls with no fire; 23, or 1%, were for false alarms or false calls; 16, or 1%, were special incident types; and one, or 0.1%, was for an overpressure, rupture, explosion or overheat call with no fire.

**Barnstable County Received Mutual Aid in 1,115 Incidents**

In 2019, Barnstable County fire departments received aid from surrounding departments in 1,115 incidents. Of these 1,115 incidents, 902, or 81%, were rescue and emergency medical services calls; 88, or 8%, were for fires; 39, or 3%, were false alarms or false calls; 33, or 3%, were good intent calls; 28, or 3%, were hazardous conditions calls with no fire; 20, or 2%, were service calls; three, or 0.3%, were overpressure, rupture, explosion or overheat calls with no fire; and two or 0.2%, were severe weather calls.

**Barnstable County****Population: 215,888****3.3 Fires/1,000 Population****Total Fires: 723 \$6,468,578**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	324	45%	\$5,999,308
Vehicle Fires	82	11%	349,850
Other Fires	317	44%	119,420

2 Fatal Fire 4.15 Civilian Deaths/1,000 Fires  
 3 Civilian Deaths 0.14 Civilian Deaths/10,000 Population  
 11 Civilian Injuries 15 Fire Service Injuries

**Building Fires: 320****Residential Structure Fires: 270****Residential Structure Fires Confined to Non-Combustible Containers: 174****Unconfined Residential Structure Fires: 96**

3 Civilian Deaths 9 Civilian Injuries 9 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	214	79%	Operated	115	43%
Apartments	45	17%	Didn't operate	5	2%
Hotels or motels	160	2%	None	9	3%
Residential board & care	1	0.3%	Fire too small	9	3%
Rooming houses	1	0.3%	Didn't Alert (confined)	56	21%
			Undetermined	76	28%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>% Unconfined<sup>6</sup></b>
Kitchen	49%	Radiated heat/oper. eq.	4%	10%
Chimney or flue	12%	Arcing	4%	10%
Heating room or area	8%	Heat from operating eq.	3%	9%
Bedroom	3%	Hot or smold. object, other	3%	7%
Exterior balcony, unencl. porch	3%	Cigarettes	2%	5%
		Spark, ember, flame op. eq.	2%	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	44%	Too close to combustibles	5%	15%
Film, residue (creosote)	12%	Abandoned materials	5%	14%
Flammable or comb. liquid	8%	Electrical failure, malfunct.	2%	6%
Rubbish, trash, waste	4%	Unspecified short circuit arc	2%	5%
Structural member, framing	4%			

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	46%	Unintentional	17%	47%
None	22%	Failure of eq. or heat source	6%	17%
Chimney or flue	12%	Intentional	1%	2%
Boiler, furnace, cent. heat unit	9%	Act of nature	1%	3%
Stove, heating	1%	Undetermined	6%	18%
		Cause Under Investigation	4%	10%

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

Alerted Occupants	39%
Didn't Alert Occupants	32%
Undetermined	29%

<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	41	29	5	7
February	43	23	8	12
March	71	26	8	37
April	68	28	9	31
May	79	26	4	49
June	67	30	6	31
July	97	31	12	54
August	74	27	12	35
September	50	25	6	19
October	51	24	2	25
November	44	26	7	11
December	38	29	3	6

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	116	47	13	56
Monday	93	36	6	48
Tuesday	94	42	13	39
Wednesday	101	48	10	43
Thursday	102	43	13	46
Friday	100	50	13	37
Saturday	117	55	14	48

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	26	14	2	10
04:01 - 08:00	51	24	5	22
08:01 - 12:00	157	68	28	61
12:01 - 16:00	195	67	16	112
16:01 - 20:00	204	103	21	80
20:01 - 24:00	90	48	10	32

### **Motor Vehicle Fires**

Total: 82

Automobiles: 60 (73%)

2 (3%), of the automobile fires were considered intentionally-set.

## Arson Fires

**Total Arsons: 25**

**Dollar loss: \$584,000**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	4	1%	16%	\$573,000
Vehicle Arsons	3	4%	12%	11,000
Other Arsons	18	6%	72%	0

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.08 Other arsons/1,000 population

No injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
08:01 - 12:00	2	50%	08:01 – 12:00	1	33%
12:01 - 16:00	2	50%	12:01 – 16:00	1	33%
			16:01 – 20:00	1	33%

Other Arsons	#	%
12:01 - 16:00	8	44%
08:01 - 12:00	4	22%
16:01 - 20:00	3	17%
20:01 - 00:00	3	17%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	3	75%
Apartments	1	25%

**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>
2015	18	5	5	8	1	0	1	0
2016	30	7	2	21	2	0	0	2
2017	22	7	4	11	1	0	0	1
2018	24	9	1	14	2	0	0	2
2019	23	9	4	10	7	1	0	6

***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>
2015	75	33	4	38	6	2	0	4
2016	51	23	1	27	1	1	0	0
2017	49	16	6	27	2	0	0	2
2018	44	22	5	17	0	0	0	0
2019	43	21	6	16	3	1	0	2

***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>
2015	5	0	0	5	1	0	0	1
2016	18	5	2	11	2	0	0	2
2017	5	2	0	3	0	0	0	0
2018	10	7	1	2	0	0	0	0
2019	5	3	0	2	1	0	0	1

***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>
2015	151	45	16	90	3	0	0	3
2016	135	51	11	73	2	0	0	2
2017	108	39	8	61	5	2	0	3
2018	116	29	9	78	2	0	1	1
2019	97	29	11	57	1	0	0	1



**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>
2015	4	0	1	3	0	0	0	0
2016	16	4	3	9	2	1	0	1
2017	22	8	5	45	7	1	0	6
2018	16	6	3	7	2	1	0	1
2019	13	2	3	8	2	0	0	2

**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>
2015	77	19	20	38	7	0	1	6
2016	16	14	0	2	1	0	0	1
2017	46	17	7	22	0	0	0	0
2018	29	10	7	12	4	0	0	4
2019	58	31	6	21	1	0	0	1

**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>
2015	35	11	1	23	3	0	0	3
2016	26	11	3	12	1	1	0	0
2017	18	11	1	6	1	1	0	0
2018	37	19	5	13	1	0	0	1
2019	31	8	3	20	2	0	1	1

**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>
2015	21	11	2	8	0	0	0	0
2016	17	8	1	8	1	0	0	1
2017	6	1	1	4	1	0	1	0
2018	8	4	1	3	0	0	0	0
2019	12	4	1	7	0	0	0	0

**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>
2015	88	35	7	46	3	0	0	3
2016	74	27	4	43	4	1	0	3
2017	54	25	7	22	1	0	0	1
2018	68	32	5	31	5	0	0	5
2019	52	23	3	26	1	1	0	0

**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>
2015	16	10	2	4	1	0	0	1
2016	23	9	1	13	0	0	0	0
2017	25	8	2	15	0	0	0	0
2018	18	9	3	6	0	0	0	0
2019	23	10	1	12	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>
2015	9	8	0	1	1	1	0	0
2016	96	33	1	52	0	0	0	0
2017	91	30	16	45	1	0	1	0
2018	81	37	11	33	2	1	0	1
2019	69	33	7	29	2	1	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>
2015	45	21	5	19	1	0	0	1
2016	55	27	5	23	2	1	0	1
2017	40	15	8	17	1	0	0	1
2018	32	14	6	12	2	0	0	2
2019	46	27	5	14	1	0	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>
2015	6	1	2	3	1	0	0	1
2016	7	2	1	4	0	0	0	0
2017	6	1	0	5	0	0	0	0
2018	5	0	0	5	0	0	0	0
2019	17	0	2	15	0	0	0	0

**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>
2015	41	13	5	23	2	0	0	2
2016	42	20	5	17	4	2	0	2
2017	48	17	5	26	8	0	0	8
2018	38	17	3	18	6	1	0	5
2019	24	15	3	6	0	0	0	0

**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>
2015	29	9	1	19	2	0	0	2
2016	36	14	6	16	2	0	0	2
2017	33	12	1	20	2	0	0	2
2018	36	11	5	20	2	0	0	2
2019	25	14	3	8	3	0	1	2

**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>
2015	32	21	2	9	0	0	0	0
2016	23	16	0	7	0	0	0	0
2017	24	16	0	8	0	0	0	0
2018	23	20	0	3	0	0	0	0
2019	33	28	2	3	0	0	0	0

**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>
2015	90	40	14	36	4	1	0	3
2016	76	34	7	35	1	1	0	0
2017	57	37	6	14	2	1	0	1
2018	62	34	9	19	2	0	1	1
2019	54	25	11	18	1	0	1	0

**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>
2015	1	0	0	1	0	0	0	0
2016	10	4	0	6	0	0	0	0
2017	19	3	2	14	1	0	0	1
2018	8	3	1	4	0	0	0	0
2019	3	1	0	2	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>
2015	23	13	1	9	2	0	0	2
2016	19	7	3	9	0	0	0	0
2017	19	10	3	6	0	0	0	0
2018	9	4	1	4	0	0	0	0
2019	25	15	5	5	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>
2015	94	41	12	41	10	1	0	9
2016	59	30	9	20	3	0	0	3
2017	78	28	5	45	7	1	0	6
2018	59	20	12	27	2	1	0	1
2019	70	26	6	38	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
01919	Barnstable	1,511	27	2	961	48	122	56	284	3	8
01036	Bourne	4,197	64	3	3,286	109	163	159	388	0	25
01041	Brewster	2,358	35	2	1,812	48	89	96	267	3	6
01055	Chatham	2,891	12	3	1,755	229	301	139	440	5	7
01921	Cotuit	893	8	0	579	23	96	51	134	1	1
01920	C.O.M.M.	5,048	45	8	3,444	190	303	214	819	6	19
01075	Dennis	5,412	71	3	3,633	352	528	211	575	29	10
01086	Eastham	2,116	36	1	1,422	131	145	93	270	1	17
01096	Falmouth	8,156	72	6	6,140	233	249	534	901	2	19
01126	Harwich	4,652	63	7	3,357	342	234	177	439	9	24
01922	Hyannis	7,092	102	8	5,506	196	363	275	635	3	4
01936	Joint Base Cape Cod	757	20	0	83	102	268	11	273	0	0
01172	Mashpee	3,246	42	2	2,117	114	356	98	502	8	7
01224	Orleans	2,620	37	4	2,003	81	120	64	290	3	18
01242	Provincetown	213	34	0	20	34	18	13	93	1	0
01261	Sandwich	4,627	56	5	3,171	399	359	180	383	3	71
01300	Truro	977	4	0	495	19	221	94	122	0	22
01318	Wellfleet	1,352	26	0	840	51	183	80	170	0	2
01923	West Barnstable	579	31	1	352	32	76	19	60	5	3
01351	Yarmouth	7,405	73	2	5,797	217	314	355	616	26	5
<b>Total</b>	<b>Barnstable County</b>	<b>66,102</b>	<b>858</b>	<b>57</b>	<b>46,773</b>	<b>2,950</b>	<b>4,508</b>	<b>2,919</b>	<b>7,661</b>	<b>108</b>	<b>268</b>

\* Certified no reportable fires.

\*\*Non reporting department.

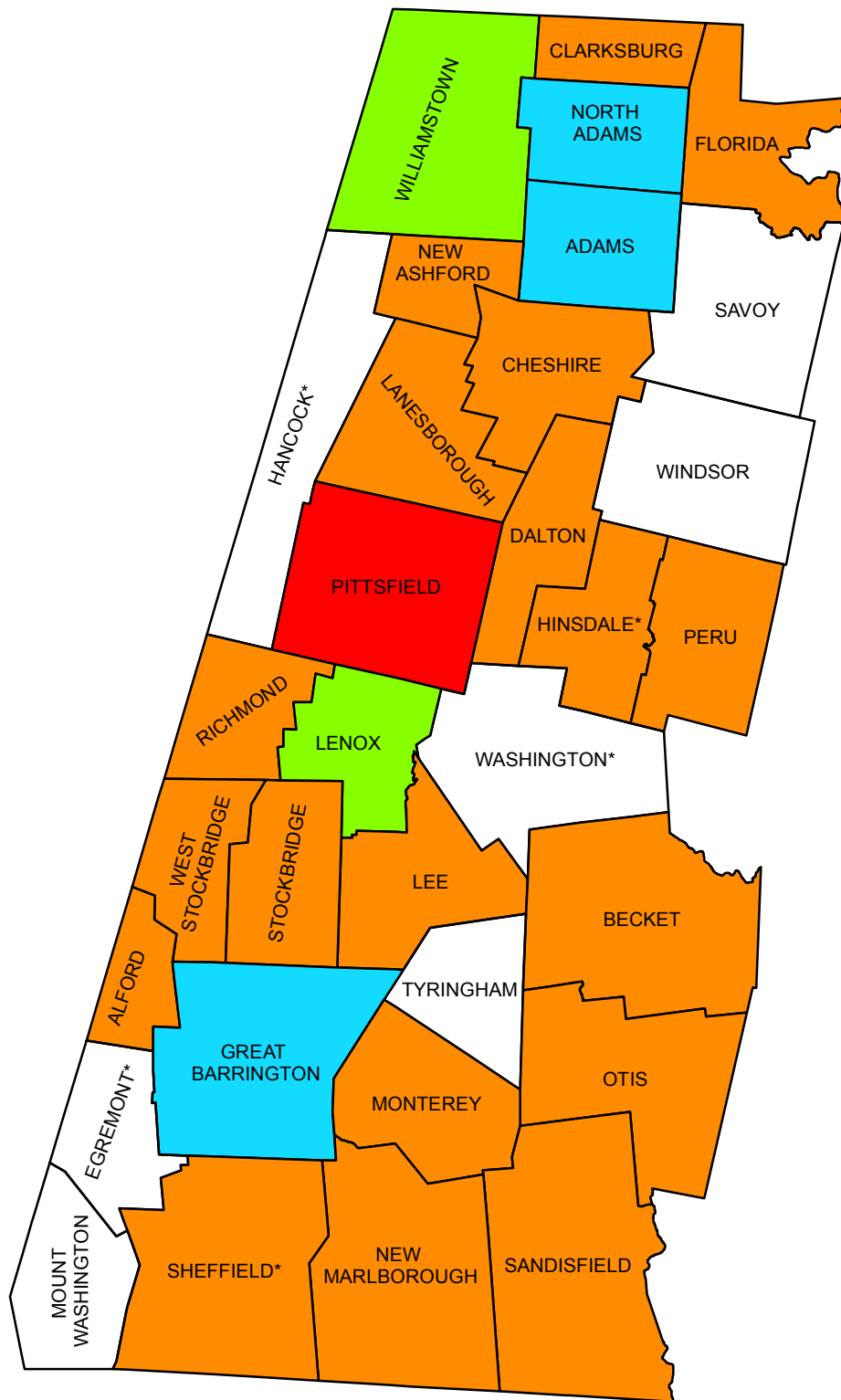
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



# Berkshire County

## 2019 Fire Data Analysis

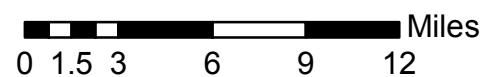
# Berkshire County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

# Berkshire County Fires in 2019

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## **359 Total Fires — 191 Structures, 34 Vehicles & 134 Outside and Other Fires**

Berkshire County ranked eleventh out of the fourteen Massachusetts counties in total reported fires. Berkshire County fire departments reported 359 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 191 structure fires, 34 motor vehicle fires, 40 brush, tree or lawn fires, 51 outside rubbish fires, 15 special outside fires; and 28 other fires caused six civilian deaths, 12 civilian injuries, nine fire service injuries and an estimated dollar loss of \$5.9 million. Berkshire County's fires accounted for 1% of the 25,176 Massachusetts fires reported in 2019.

Twenty-eight (28), or 90.3%, 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 2019.

## **All Fires Down**

The total number of reported fire incidents decreased by 28 from the 387 reported in 2018. Reported structure fires decreased by 39 from the 230 reported during the previous year. Motor vehicle fires decreased by nine from the 43 reported in 2018. Outside and other fires increased by 20 from the 114 reported in 2018.<sup>1</sup>

## **BERKSHIRE COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	575	328	52	195	28	9	6	13
2016	547	300	55	192	26	11	2	13
2017	444	259	52	133	11	1	0	10
2018	387	230	43	114	15	2	1	12
2019	359	191	34	134	28	11	1	16

## **Fire and Fire Death Rates**

Berkshire County had 2.7 fires per 1,000 population. That figure ranks Berkshire County tied for thirteenth in the state and below the state rate of 3.8 fires per 1,000 population. Berkshire County also had 0.46 fire deaths per 10,000 populations ranking it first among Massachusetts counties and above the state rate of 0.06 fire deaths per 10,000 population.

## **6 People Killed in 3 Berkshire County Fires**

Six (6) people died in three fires in Berkshire County in 2019.

- On March 13, 2019, at 7:48 a.m., the Sheffield Fire Department was called to a fatal arson, murder/suicide, in a single-family home. The victim, a 41-year old man, had killed the rest of his family and then set fire to their home. One (1) firefighter was injured at this fire. Alarms were present but it was undetermined why they failed to operate. The building was not sprinklered. Damages from this fire were not estimated.

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<sup>1</sup> 2019 was another down year for brush fires statewide.



- On March 16, 2019, at 3:38 a.m., the Pittsfield Fire Department was dispatched to a fire in a single-family manufactured home (trailer) of undetermined cause. The victims were a 25-year old man and two seven-year old boys. They were overcome while trying to escape. Two (2) other family members and one firefighter were also 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 \$100,000.
- On December 9, 2019, at 7:40 p.m., the Great Barrington Fire Department was called to a fatal smoking fire in an eight-unit apartment building. The fire was caused by undetermined smoking materials igniting the bedding in a bedroom. The victims, a 67-year old woman and her 68-year old husband, were in the area of origin of the fire. No one else was injured at this fire. Alarms were present but did not operate because of a power shutoff or disconnect. Sprinklers were not present. Damages from this fire were estimated to be \$75,000.

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

Berkshire County had one fire that reported a dollar loss over \$1 million. Pittsfield reported the incident that had the greatest dollar loss in Berkshire County in 2019. This fire was responsible for 17% of the total county fire loss in 2019.

- On October 15, 2019, at 10:24 p.m., the Pittsfield Fire Department was called to a fire at A-Mart Convenience Store of undetermined cause. 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 \$1 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 191 structure fires caused all six civilian deaths, eight civilian injuries, eight fire service injuries and an estimated dollar loss of \$5.6 million. These incidents represented 53% of Berkshire County's reported fires in 2019. The average estimated dollar loss per structure fire was \$29,458. The total number of reported structure fires decreased by 39, or 17%, from the 230 reported in 2018.

### **Arson Caused 11 Structure Fires**

The 11 structure arsons caused one civilian death, one fire service injury and an estimated dollar loss of \$428,557. Arson was indicated as the cause of 6% of the structure fires and 8% of Berkshire County's structure fire dollar loss. The 11 structure arsons accounted for 39% of the Berkshire County arson fires reported in 2019. The total number of reported structure arsons increased by nine from the two reported in 2018.

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

Eight (8), or 73%, of Berkshire County structure arsons occurred in residential properties in 2019. Two (2), or 18%, happened in mercantile or business properties; and one, or 9%, occurred in a public assembly property.

## **BUILDING FIRES**

There were 191 building fires of different types in Berkshire County in 2019. These 191 building fires accounted for 100% of structure fires in Berkshire County.

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

One hundred and sixty-five (165), or 86%, of Berkshire County's 191 building fires occurred in residential occupancies. Eight (8) fires took place in public assembly properties, including restaurants and churches. Storage facilities had six fires. Mercantile and business properties had five fires. Manufacturing or processing facilities and special properties, such as outbuildings or sheds each had three fires. Educational facilities experienced one fire in Berkshire County in 2019.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

There were 165 reported residential building fires in Berkshire County in 2019. These 165 fires are a decrease of 30, or 15%, from the 195 residential building fires reported in 2018.

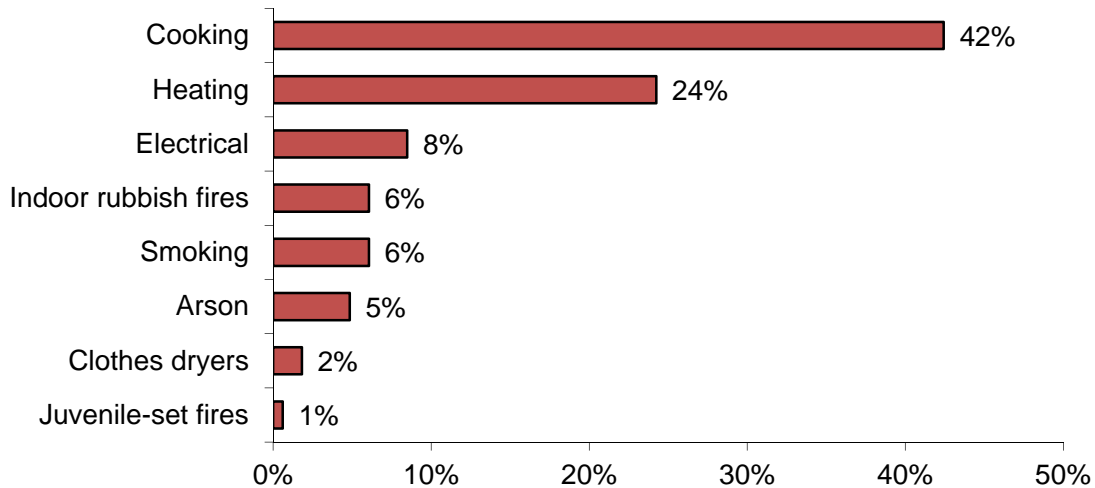
### **1- & 2-Family Homes Accounted for 65% of Residential Building Fires**

The peak fixed property uses for residential building fires were one- or two-family homes, accounting for 65% of the building fires in Berkshire County; 25% occurred in apartments; 3% happened in dormitories; 2% occurred in hotels or motels; 1% happened in rooming houses; and 1% occurred in residential board and care facilities. Three (3), or 2%, of the building fires in Berkshire County occurred in unclassified residential buildings.

### **Unattended Cooking Caused 42% of Residential Fires**

The leading cause of residential building fires in Berkshire County was unattended cooking and other unsafe cooking practices, accounting for 42% of the fires. Heating caused 24% of the residential building fires, of which 22, or 55%, were caused by chimney, fireplace or flue fires. Electrical fires caused 8% of these fires. Smoking and indoor rubbish fires each caused 6% of the fires. Arsons caused 5% of these fires. Clothes dryers caused 2%, and juvenile-set fires caused 1% of Berkshire County's residential building fires in 2019.

## 2019 Leading Causes of Fires in Berkshire County Homes



### 61% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

One hundred (100), or 61%, of these fires were confined to a non-combustible container. Fifty-eight (58) or 35% of all residential building fires reported in 2019 were cooking fires contained to a non-combustible container. Twenty (20) of the reported fires were confined to a chimney, accounting for 12% of residential building fires. Fires confined to a fuel burner or boiler malfunction accounted for 13, or 8% of these fires. Nine (9), or 5%, of these fires were confined indoor rubbish fires.

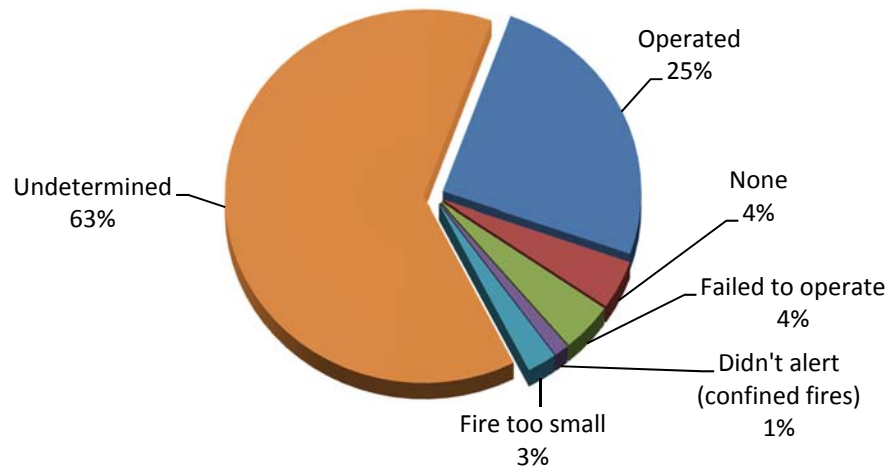
### Detectors Undetermined in 63% of Fires

Smoke or heat detectors operated and alerted the occupants in 41, or 25%, of the residential building fires. In 1% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 4% of these incidents. In 4% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the residential fires. Smoke detector performance was undetermined in 104 incidents, or 63%, of Berkshire County's residential building fires.

<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.

<sup>3</sup>These represent confined fires where it was reported that the detector did not alert the occupants.

## Detector Status in Berkshire County's Residential Structure Fires 2019



### 7 Detectors Failed

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; two, or 29%, failed because of a power failure, shutoff or disconnect; and it was undetermined in one, or 14%, why it failed.

### VACANT BUILDINGS

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

Berkshire County reported seven fires that occurred in buildings that were vacant, under construction or demolition. This represented 4% of the total 191 building fires reported to MFIRS in 2019. Six (6) of these occurred in residential buildings; and one occurred in a public assembly property.

One (1) of the vacant building fires in Berkshire County in 2019 was determined to be intentionally-set. It occurred in a restaurant.

### JUVENILE-SET FIRES

#### 3 Juvenile-set Fires

There were three reported juvenile-set fires in Berkshire County in 2019. One was a structure fire, another an outside rubbish fire and one unclassified fire.

## ARSONS

### 28 Total Arsons — 11 Structure, 1 Vehicle & 16 Other Arsons

Twenty-eight (28), or 8%, of Berkshire County's 191 fires were intentionally-set, or, for purposes of this analysis, arson. The 11 structure arsons, one motor vehicle arson and 16 outside and other arsons caused one civilian death, one fire service injury and an estimated dollar loss of \$433,557.

### All Arsons Up

The total number of reported arson fires increased by 13 from the 15 reported in 2018. Reported structure arsons increased by nine from the two reported in 2018. Motor vehicle arsons remained the same with one reported in both 2018 and 2019. Reported outside and other arsons increased by four from the 12 reported in 2018.

## ALL INCIDENTS

### Rescue & EMS Calls Are 53% of All Reported Responses

In 2019, Berkshire County fire departments reported 13,006 responses<sup>4</sup> to MFIRS. Of these 13,006 incidents, 12,554 non-fire incidents were voluntarily reported.

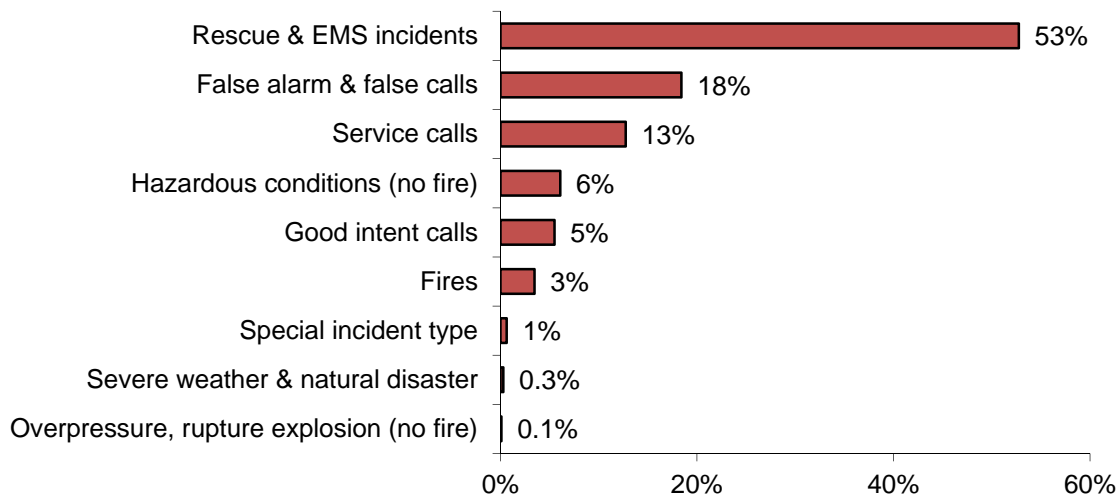
Of these 12,554 non-fire responses, 6,862, or 53%, of all the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 2,395, or 18%, were reported false alarm or false calls; 1,658, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 791, or 6%, were reported hazardous condition calls with no fire; 715, or 5%, were reported good intent calls; 83, or 1%, were special incident type calls such as citizen complaints; 38, or 0.3%, were severe weather responses; and 12, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Four hundred and fifty-two (452), or 3%, of the total responses submitted by Berkshire County fire departments were fires.

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<sup>4</sup> These figures include responses in which Berkshire County fire departments gave mutual aid to other fire departments.

## 2019 Responses by Incident Type



### Berkshire County Departments Reported Giving Mutual Aid 309 Times

In 2019, Berkshire County fire departments reported coming to the aid of other fire departments 309 times. Of these 309 responses, 131, or 42%, were for overpressure, rupture calls with no fire; 93, or 30%, were for fires; 36, or 12%, were for hazardous condition calls with no ensuing fire; 22 or 7%, were for service calls such as cover assignments; 18, or 6%, were good intent calls; five, or 2%, were for rescue or EMS calls; two, or 1%, were for false alarms; one, or 0.3%, was for a severe weather call; and one, or 0.3%, was a special incident type call.

### Berkshire County Received Mutual Aid in 848 Incidents

In 2019, Berkshire County fire departments reported receiving aid from surrounding departments in 848 incidents. Of these 848 incidents, 773, or 91%, were rescue and emergency medical services calls; 41, or 1%, were for fires; nine, or 1%, were false alarms or false calls; nine, or 1%, were hazardous conditions calls with no fire; nine, or 1%, were service calls; six, or 1%, were good intent calls; and one, or 0.5%, was for a special incident type.

**Berkshire County****Population: 131,219****2.7 Fires/1,000 Population****Total Fires: 359 \$5,887,385**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	191	53%	\$5,643,748
Vehicle Fires	34	9%	156,000
Other Fires	134	37%	87,637

3 Fatal Fires 16.71 Civilian Deaths/1,000 Fires  
 6 Civilian Deaths 0.46 Civilian Deaths/10,000 Population  
 12 Civilian Injuries 9 Fire Service Injuries

**Building Fires: 191****Residential Structure Fires: 165****Residential Structure Fires Confined to Non-Combustible Containers: 100****Unconfined Residential Structure Fires: 65**

6 Civilian Deaths 7 Civilian Injuries 7 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	107	65%	Operated	41	25%
Apartments	42	25%	Didn't operate	7	4%
Dormitories	5	3%	None	7	4%
Hotels or motels	4	2%	Fire too small	4	3%
Rooming houses	2	1%	Didn't alert (confined)	2	1%
Residential board & care	2	1%	Undetermined	104	63%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	47%	Arcing	7%	17%
Chimney or flue	12%	Radiated heat from op. eq.	7%	17%
Heating equipment room	8%	Cigarette	4%	9%
Bedroom	6%	Heat from operating equip.	2%	6%
Living room	3%	Heat from other open flame	2%	6%
Laundry room	2%	Hot ember or ash.	2%	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	39%	Too close to combustibles	5%	14%
Film, residue (creosote)	12%	Failure to clean	4%	9%
Flammable, combustible liquid	8%	Unspecified short circuit arc	3%	8%
Rubbish, trash, waste	7%	Equipment unattended.	3%	8%
Structural member, framing	5%	Misuse of material, other	2%	6%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	40%	Unintentional	20%	51%
None	19%	Failure of eq. or heat source	9%	23%
Chimney or flue	13%	Intentional	3%	8%
Boiler, furnace, cent. heat unit	8%	Act of Nature	0%	0%
		Undetermined	5%	12%
		Cause under investigation	2%	6%

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

Alerted occupants	18%
Didn't alert occupants	2%
Undetermined	80%

<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	28	20	3	5
February	28	20	1	7
March	33	20	6	7
April	34	13	1	20
May	20	12	3	8
June	30	14	6	11
July	39	14	3	22
August	33	18	3	12
September	22	8	1	13
October	32	13	3	16
November	26	16	2	8
December	30	23	2	5

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	52	28	5	19
Monday	54	26	8	20
Tuesday	51	27	3	21
Wednesday	53	29	6	18
Thursday	45	27	1	17
Friday	52	27	8	17
Saturday	52	27	3	22

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	17	11	2	4
04:01 - 08:00	18	13	0	5
08:01 - 12:00	68	29	12	27
12:01 - 16:00	80	38	9	33
16:01 - 20:00	106	61	9	36
20:01 - 00:00	70	39	2	29

### **Motor Vehicle Fires**

Total: 34

Automobiles: 23 (68%)

1, or (4%), of the automobile fires was considered intentionally-set.

## Arson Fires

**Total Arsons: 28**

**Dollar loss: \$433,557**

### 0.21 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	\$ Loss
Structure Arsons	11	6%	39%	428,557
Vehicle Arsons	1	3%	4%	5,000
Other Arsons	16	12%	57%	0

0.08 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.12 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	27%	12:01 - 16:00	1	100%
00:01 - 04:00	2	18%			
08:01 - 12:00	2	18%			
16:01 - 20:00	2	18%			

Other Arsons	#	%
20:01 - 00:00	5	31%
16:01 - 20:00	4	25%
08:01 - 12:00	3	19%
12:01 - 16:00	3	19%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	4	36%
Multifamily dwellings	2	18%

**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>
2015	20	11	7	2	1	0	0	1
2016	32	25	2	5	1	1	0	0
2017	40	27	6	7	2	0	0	2
2018	35	26	1	8	2	0	0	2
2019	27	18	5	4	2	2	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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	1	1	0	0	0	0	0	0
2017	1	0	1	0	0	0	0	0
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	1	1	0	0	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>
2015	2	1	1	0	0	0	0	0
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	2	1	0	1	0	0	0	0
2018	5	4	0	1	1	1	0	0
2019	3	1	2	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>
2015	14	9	2	3	1	1	0	0
2016	6	5	1	0	0	0	0	0
2017	10	6	1	3	1	0	0	1
2018	13	5	4	4	1	0	0	1
2019	5	1	2	2	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>
2015	1	0	0	1	0	0	0	0
2016	2	2	0	0	0	0	0	0
2017	1	1	0	0	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	1	1	0	0	0	0	0	0

**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>
2015	18	8	4	6	6	3	2	1
2016	25	17	3	5	0	0	0	0
2017	19	14	0	5	0	0	0	0
2018	17	7	5	5	0	0	0	0
2019	10	4	2	4	0	0	0	0

**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>
2015	15	7	2	6	0	0	0	0
2016	12	8	1	3	0	0	0	0
2017	4	3	0	1	0	0	0	0
2018	3	2	0	1	1	0	0	1
2019	Non-Reporting Community							

**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>
2015	2	1	1	0	0	0	0	0
2016	7	2	4	1	1	1	0	0
2017	4	1	3	0	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	2	0	1	1	0	0	0	0

**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>
2015	90	73	2	15	1	0	0	1
2016	79	67	2	10	0	0	0	0
2017	26	15	7	4	0	0	0	0
2018	20	14	4	2	0	0	0	0
2019	32	22	4	6	3	2	0	1

**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>
2015	2	2	0	0	0	0	0	0
2016	1	1	0	0	0	0	0	0
2017	1	1	0	0	0	0	0	0
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	Non-Reporting Community							

**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>
2015	2	2	0	0	0	0	0	0
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	1	1	0	0	0	0	0	0
2018	Non-Reporting Community							
2019	1	1	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>
2015	10	6	2	2	0	0	0	0
2016	11	4	1	6	0	0	0	0
2017	9	3	3	3	0	0	0	0
2018	4	2	1	1	0	0	0	0
2019	3	2	1	0	0	0	0	0

**Lee** **Population: 5,943**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	4	3	0	1	0	0	0	0
2016	3	3	0	0	0	0	0	0
2017	1	0	1	0	0	0	0	0
2018	2	2	0	0	0	0	0	0
2019	1	0	0	1	1	0	0	1

**Lenox** **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>
2015	46	27	5	14	0	0	0	0
2016	24	10	7	7	0	0	0	0
2017	34	25	0	9	1	0	0	1
2018	16	10	4	2	1	0	0	1
2019	20	7	2	11	7	2	0	5

**Monterey** **Population: 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>
2015	Non-Reporting Community							
2016	2	1	1	0	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	2	2	0	0	0	0	0	0
2019	7	7	0	0	0	0	0	0

**New Ashford** **Population: 228**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	1	1	0	0	0	0	0	0
2016	2	1	0	1	0	0	0	0
2017	1	0	0	1	0	0	0	0
2018 <sup>11</sup>	Fire Department in Good Standing, Certified No Reportable Fires							
2019	3	1	0	2	0	0	0	0

<sup>11</sup> In 2018 New Ashford reported 21 non-fire incidents to MFIRS.

**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>
2015	14	4	2	8	0	0	0	0
2016	5	3	0	2	0	0	0	0
2017	5	2	1	2	0	0	0	0
2018	2	0	0	2	0	0	0	0
2019	5	5	0	0	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>
2015	44	21	4	19	2	1	0	1
2016	29	4	4	21	1	0	0	1
2017	36	20	7	9	1	1	0	0
2018	38	21	4	13	0	0	0	0
2019	43	20	8	15	3	1	1	1

**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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	1	1	0	0	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	1	1	0	0	0	0	0	0
2019	1	1	0	0	0	0	0	0

**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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Non-Reporting Community							
2017	2	2	0	0	0	0	0	0
2018	3	1	1	1	1	0	0	1
2019	2	2	0	0	0	0	0	0

**Population: 44,737**

**Richmond** **Population: 1,475**

<b>Sandisfield</b>	<b>Population: 915</b>
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**Savoy** **Population: 692**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	3	3	0	0	1	1	0	0
2017	4	4	0	0	0	0	0	0
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	Fire Department in Good Standing, Certified No Reportable Fires							



**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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Non-Reporting Community							
2017	Non-Reporting Community							
2018	Non-Reporting Community							
2019	1	1	0	0	1	1	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>
2015	2	2	0	0	0	0	0	0
2016	1	1	0	0	0	0	0	0
2017	10	5	2	3	0	0	0	0
2018	10	6	2	2	0	0	0	0
2019	4	1	0	3	0	0	0	0

**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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Non-Reporting Community							
2019	Fire Department in Good Standing, Certified No Reportable Fires							

**Washington<sup>12</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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Non-Reporting Community							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Non-Reporting Community							
2019	Non-Reporting Community							

<sup>12</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 2014.

**Population: 1,306**

Williamstown							Population: 7,754	
	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	27	14	2	11	2	0	0	2
2016	7	2	2	3	0	0	0	0
2017	11	6	2	3	1	0	0	1
2018	17	12	2	3	0	0	0	0
2019	14	10	0	4	0	0	0	0

**Population: 7,754**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	27	14	2	11	2	0	0	2
2016	7	2	2	3	0	0	0	0
2017	11	6	2	3	1	0	0	1
2018	17	12	2	3	0	0	0	0
2019	14	10	0	4	0	0	0	0

**Population: 899**[illegible]

## 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	369	30	1	142	35	29	26	100	4	2
03006	Alford	1	1	0	0	0	0	0	0	0	0
03022	Becket	4	4	0	0	0	0	0	0	0	0
03058	Cheshire	351	11	0	282	17	11	15	14	0	1
03063	Clarksburg	2	2	0	0	0	0	0	0	0	0
03070	Dalton	1,019	18	0	685	29	92	37	97	0	61
03090	Egremont**	0	0	0	0	0	0	0	0	0	0
03098	Florida	77	4	0	51	5	3	8	4	2	0
03113	Great Barrington	583	42	4	163	52	30	31	260	1	0
03121	Hancock**	0	0	0	0	0	0	0	0	0	0
03132	Hinsdale	1	1	0	0	0	0	0	0	0	0
03148	Lanesborough	353	10	0	271	12	6	18	35	0	1
03150	Lee	1	1	0	0	0	0	0	0	0	0
03152	Lenox	760	26	3	219	63	92	21	329	6	1
03193	Monterey	70	14	0	33	4	4	1	14	0	0
03200	New Ashford	35	4	0	23	0	0	0	8	0	0

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that 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
03203	New Marlborough	69	14	0	9	5	0	3	38	0	0
03209	North Adams	1,290	48	0	327	140	362	113	282	14	4
03225	Otis	1	1	0	0	0	0	0	0	0	0
03233	Peru	54	3	0	35	4	8	0	3	0	1
03236	Pittsfield	6,750	157	4	4,074	330	978	370	822	8	7
03249	Richmond	115	13	0	25	23	9	8	33	1	3
03260	Sandisfield	187	9	0	136	8	8	11	15	0	0
03263	Savoy*	0	0	0	0	0	0	0	0	0	0
03267	Sheffield	1	1	0	0	0	0	0	0	0	0
03283	Stockbridge	445	5	0	227	21	12	15	165	0	0
03302	Tyringham*	0	0	0	0	0	0	0	0	0	0
03313	Washington**	0	0	0	0	0	0	0	0	0	0
03326	West Stockbridge	151	10	0	91	5	6	1	36	0	2
03341	Williamstown	244	20	0	9	34	7	36	136	2	0
03345	Windsor	73	3	0	60	4	1	1	4	0	0
<b>Total</b>	<b>Berkshire County</b>	<b>13,006</b>	<b>452</b>	<b>12</b>	<b>6,862</b>	<b>791</b>	<b>1,658</b>	<b>715</b>	<b>2,395</b>	<b>38</b>	<b>83</b>

\* Certified no reportable fires.

\*\*Non reporting department.

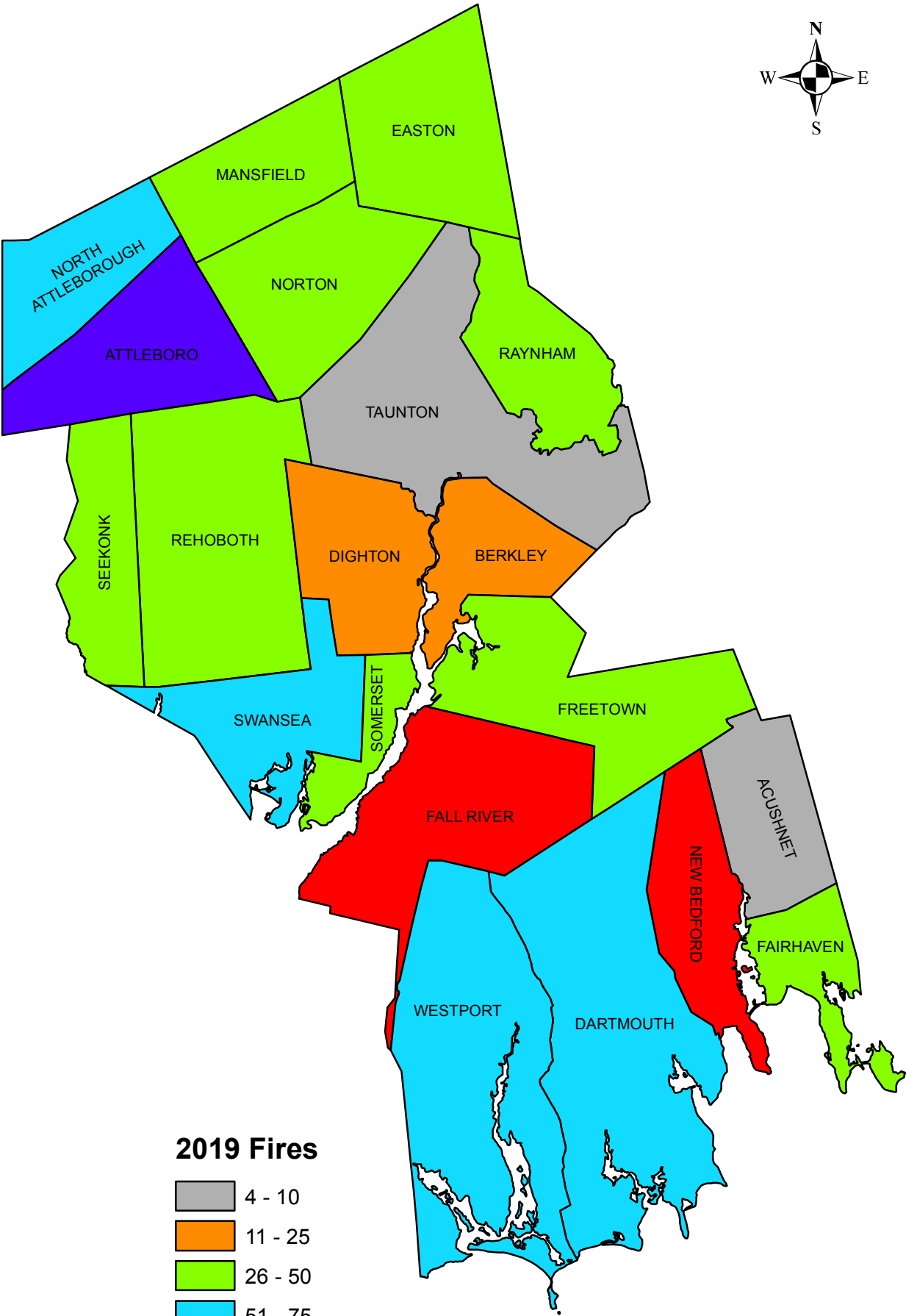
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.



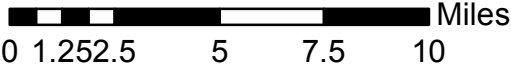
# Bristol County

## 2019 Fire Data Analysis

# Bristol County Fires 2019



## 2019 Fires



# Bristol County Fires in 2019

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## **1,509 Total Fires — 727 Structures, 243 Vehicles & 539 Other Fires**

Bristol County ranked eighth out of the fourteen Massachusetts counties in total reported fires. The county reported 1,509 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 727 structure fires, 243 motor vehicle fires, 252 brush, tree or lawn fires, 166 outside rubbish fires, 51 special outside fires, two cultivated vegetation or crop fires, and 68 other fires caused eight civilian deaths, 23 civilian injuries, 19 fire service injuries and an estimated dollar loss of \$20.8 million. Bristol County's fires accounted for 6% of the 25,176 Massachusetts fires reported in 2019.

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 176 from the 1,685 reported in 2018. Reported structure fires decreased by 69 from the 796 reported during the previous year. The total number of reported motor vehicle fires decreased by 49 from the 292 incidents reported during 2018. Reported outside and other fires decreased by 58 from the 597 reported the year before<sup>1</sup>.

## **BRISTOL COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	2,120	939	281	900	87	29	17	41
2016	2,104	866	313	925	85	26	23	36
2017	1,877	846	280	751	96	36	16	44
2018	1,685	796	292	597	53	12	22	19
2019	1,509	727	243	539	40	9	7	24

## **Fire and Fire Death Rates**

Bristol County had 2.8 fires per 1,000 population. That figure ranks Bristol County tied for eleventh in the state and below the state rate of 3.8 fires per 1,000 population. Bristol County also had 0.15 fire deaths per 10,000 populations ranking it second among Massachusetts counties and above the state rate of 0.06 fire deaths per 10,000 population.

## **7 Fires Kill 8 People in Bristol County**

In 2019, seven fires in Bristol County killed eight people.

- On January 1, 2019, at 9:40 a.m., the Fall River Fire Department was dispatched to a fire in a 36-unit apartment building. A car crashed into the building severing the natural gas line and igniting the escaping gas. The victims, a 75-year old woman and a 72-year old woman were trapped by the fire and unable to act. Two (2) other occupants and seven firefighters were injured at this fire. Alarms were present and

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<sup>1</sup> 2019 was another down year for brush fires.

alerted the occupants. The building did not have any sprinklers. Damages from this fire were estimated to be \$5 million.

- On February 9, 2019, at 6:07 p.m., the Fairhaven Fire Department was called to a fatal fire in a 42-unit apartment building of undetermined cause. The fire originated in the first floor kitchen. The victim was a 66-year old man who was in the area of origin. He was transported to a local hospital where he succumbed to his injuries. No one else was injured at this fire. Alarms were present and operated. The building was not sprinklered. Damages from the blaze were estimated to be 40,000.
- On April 6, 2019, at 4:33 a.m., the Fall River Fire Department was called to a fatal electrical fire in a two-family home. The fire was started by arcing in the ceiling and floor assembly. The victim was an 88-year old physically disabled man. One (1) firefighter was injured at this fire. Alarms were present but failed to operate because of a lack of cleaning. There were no sprinklers. Damages from this fire were estimated to be \$30,000.
- On September 25, 2019, at 12:35 p.m., the Mansfield Fire Department responded to a fatal fire at a gas station. The victim, a 64-year old man, was using a welding torch on a barrel that still contained some ignitable liquids. Heat from the torch ignited the vapors causing an explosion and ensuing fire. The victim was transported to a hospital where he succumbed to his injuries. No one was injured at this fire. The building did not have smoke alarms, nor did it have any fire suppression system. Damages from this fire were estimated to be \$500,000.
- On October 22, 2019, at 4:49 p.m., the New Bedford Fire Department responded to a fatal heating fire in a three-unit apartment building. The fire was started when the 85-year old female victim placed a towel on the gas stove used for heating in the living room. She was overcome while trying to escape. She was transported to a hospital where she succumbed to her injuries. No one else was injured at this fire. Alarms were not present and the building did not have any sprinklers. Damages from this fire were estimated to be \$100,000.
- On November 13 2019, at 5:16 p.m., the Fairhaven Fire Department was called to a fatal motor vehicle crash with ensuing fire. The victim, a 31-year old man, was trapped in the vehicle and died in the fire. No one else was injured at this fire. Damages from this fire were estimated to be \$3,200.
- On December 28, 2019, at 5:04 p.m., the New Bedford Fire Department was called to a fatal fire in a two-family home of undetermined cause. The fire started in the second floor kitchen. The victim was an 88-year old physically disabled man. One (1) firefighter was also injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from the blaze were estimated to be \$150,000.



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

In 2019, Bristol County had two incidents with an estimated dollar loss over \$1 million. These two incidents combined for \$6 million, or 30%, of the county's estimated dollar loss.

- On January 1, 2019, at 9:40 a.m., the Fall River Fire Department was dispatched to a fire in a 36-unit apartment building. A car crashed into the building severing the natural gas line and igniting the escaping gas. The victims, a 75-year old woman and a 72-year old woman were trapped by the fire and unable to act. Two (2) other occupants and seven firefighters were injured at this fire. Alarms were present and alerted the occupants. The building did not have any sprinklers. Damages from this fire were estimated to be \$5 million.

**STRUCTURE FIRES****Reported Structure Fires Down**

The 727 structure fires caused seven civilian deaths, 21 civilian injuries, 17 fire service injuries and an estimated dollar loss of \$18 million. These incidents represented 48% of Bristol County's reported fires in 2019. The average estimated dollar loss per structure fire was \$24,869. The total number of reported structure fires decreased by 69, or 9%, from the 796 reported in 2018.

**Structure Arsons Down**

The nine structure arsons caused two civilian injuries and an estimated dollar loss of \$167,600. Arson was indicated as the cause of 1% of the structure fires and 1% of Bristol County's structure fire dollar loss. The nine structure arsons accounted for 23% of the Bristol County arson fires reported in 2019. The total number of reported structure arsons decreased by three from the 12 reported in 2018.

**67% of Structure Arsons Occurred in Residences**

Sixty-seven percent (67%) of Bristol County's nine structure arsons occurred in residential occupancies. Mercantile and business properties had 22%; and educational facilities had 11% of these fires.

**BUILDING FIRES**

There were 721 building fires of different types in Bristol County in 2019. These 721 building fires accounted for 99.2% of all structure fires in Bristol County.

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

Six hundred and five (605), or 84%, of Bristol County's 721 building fires occurred in residential occupancies. Mercantile and business properties had 39 fires. Twenty-five (25) fires took place in public assembly properties, including restaurants and churches. Twenty (20) fires took place in storage properties. Manufacturing and processing facilities experienced 11 fires. Educational facilities also had 11 fires. Hospitals, prisons, and other institutional buildings had six fires. Industrial facilities had three fires. Special properties had one fire.

## RESIDENTIAL FIRES

### Residential Building Fires Down

There were 605 reported residential building fires in Bristol County in 2019. These 605 fires are a decrease of 61, or 9%, from the 666 residential building fires reported in 2018.

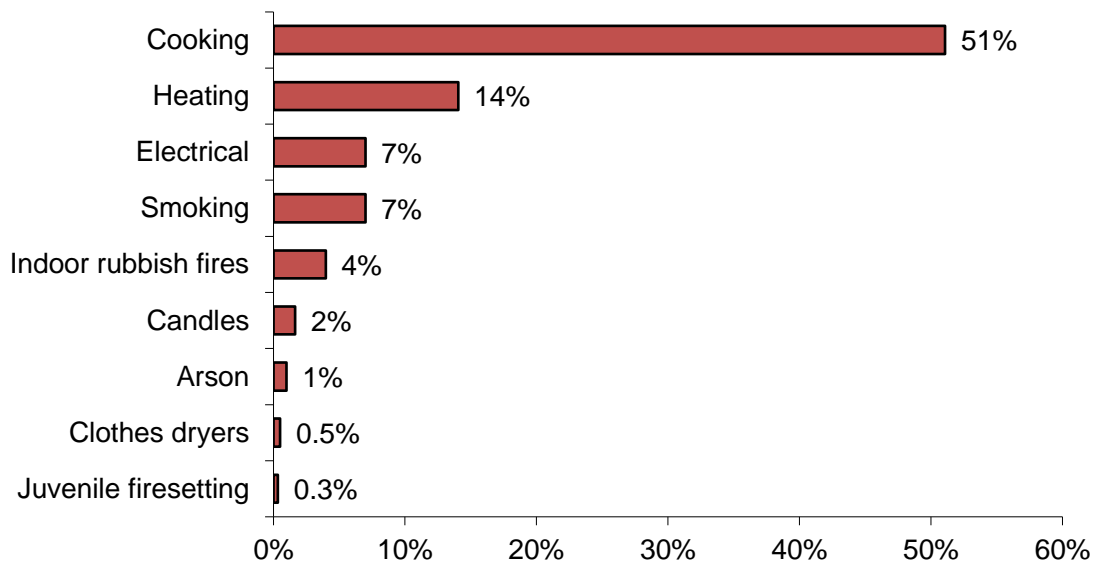
### Apartments Accounted for 53% of Residential Building Fires

The peak fixed property uses for residential building fires were apartments, accounting for 53% of the building fires in Bristol County; 43% occurred in 1- & 2-family homes; 1% happened in rooming houses; and 1% occurred in dormitories. Less than 1% occurred in residential board and care facilities. Ten (10), or 2%, of the residential building fires in Bristol County occurred in unclassified residential buildings.

### Unsafe Cooking Leading Cause Over 1/2 of Residential Fires

The leading cause of residential building fires in Bristol County was unattended cooking and other unsafe cooking practices, accounting for 51% of these fires. The second leading cause of residential building fires was heating equipment, accounting for 14%. Electrical problems and smoking each caused 7% of the fires in people's homes. Indoor rubbish fires were responsible for 4% of these fires. Candles accounted for 2%; and arsons for 1% of these fires. Clothes dryers and juvenile-set fires each accounted for less than 1% of Bristol County's residential building fires in 2019.

### 2019 Leading Causes to Fires in Bristol County Homes



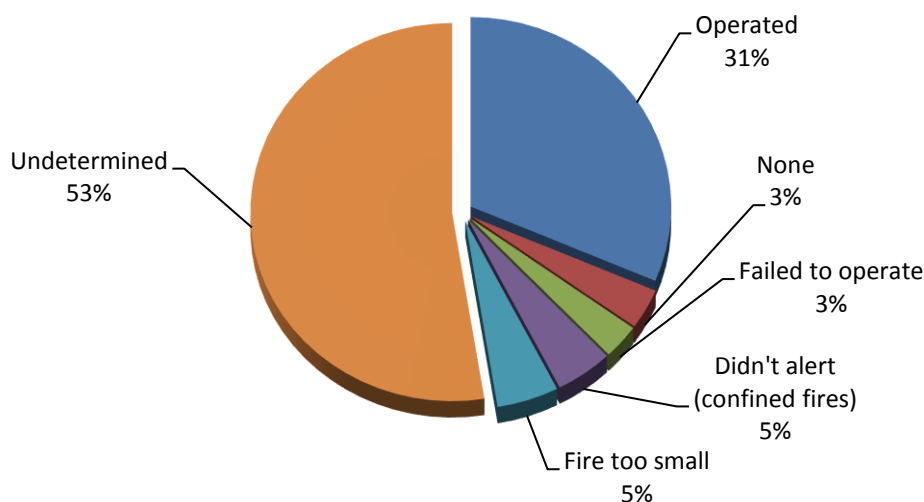
### 63% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

Three hundred and eighty (380), or 63%, of all residential building fires were reported as confined to non-combustible containers in 2019. Two hundred and eighty-eight (288), or 48%, of all residential building fires reported in 2019 were cooking fires contained to a non-combustible container. Thirty-eight (38) of the reported fires were confined to a chimney, accounting for 6% of residential building fires. Thirty-three (33), or 5%, were fires confined to a fuel burner or boiler malfunction. Twenty (20), or 3%, of these fires were rubbish fires; and one, or less than 1%, was a commercial compactor fire.

### Detectors Alerted Occupants in Only 31% of Fires

Smoke or heat detectors operated and alerted the occupants in 190, or 31%, of the residential building fires. In 5% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. In 3% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 5% of the residential fires. Smoke detector performance was undetermined in 318 incidents, or 53%, of Bristol County's residential building fires.

### Detector Status in Bristol County's Residential Structure Fires 2019



### 1/3 of Detectors Failed from Dead or Missing Batteries

Of the 18 fires where smoke detectors were present but failed to operate, five, or 28%, from missing or disconnected batteries, and one, or 6%, was from a dead battery. Three,

<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.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.

or 17%, failed because of a lack of maintenance. One (1), or 6%, failed because it was defective. It was undetermined or unclassified in eight cases, or 44%, why the detectors failed to operate.

## **VACANT BUILDINGS**

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

Bristol County reported 16 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the 721 building fires reported to MFIRS in 2019. Eleven (11) fires occurred in vacant residential properties. Two (2) happened in mercantile or business facilities. Two (2) vacant building fires occurred in storage facilities. An educational facility had one of these fire incidents in Bristol County in 2019.

Two (2), or 13%, of the vacant building fires in Bristol County in 2019 were determined to be intentionally-set. A single-family home and a high school each had a vacant arson fire in 2019.

## **JUVENILE-SET FIRES**

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

There were four reported juvenile-set fires in Bristol County in 2019. The three structure fires and one brush fire caused \$7,500 in estimated damages.

## **ARSONS**

### **40 Total Arsons — 9 Structures, 7 Vehicles & 24 Other Arsons**

Bristol County fire departments reported that 40, or 3%, of Bristol County's 1,509 fires were considered intentionally-set, or, for purposes of this analysis, arson. The nine structure arsons, seven motor vehicle arsons and 24 outside and other arsons caused two civilian injuries and an estimated dollar loss of \$312,791.

### **Structure & MV Arsons Down**

The total number of reported arson fires decreased by 13 from the 53 reported in 2018. Structure arsons decreased by 3 from 12 in 2018. Motor vehicle arsons decreased by 15 from the 22 reported last year. Outside and other arsons increased by five from the 19 reported in 2018.

## ALL INCIDENTS

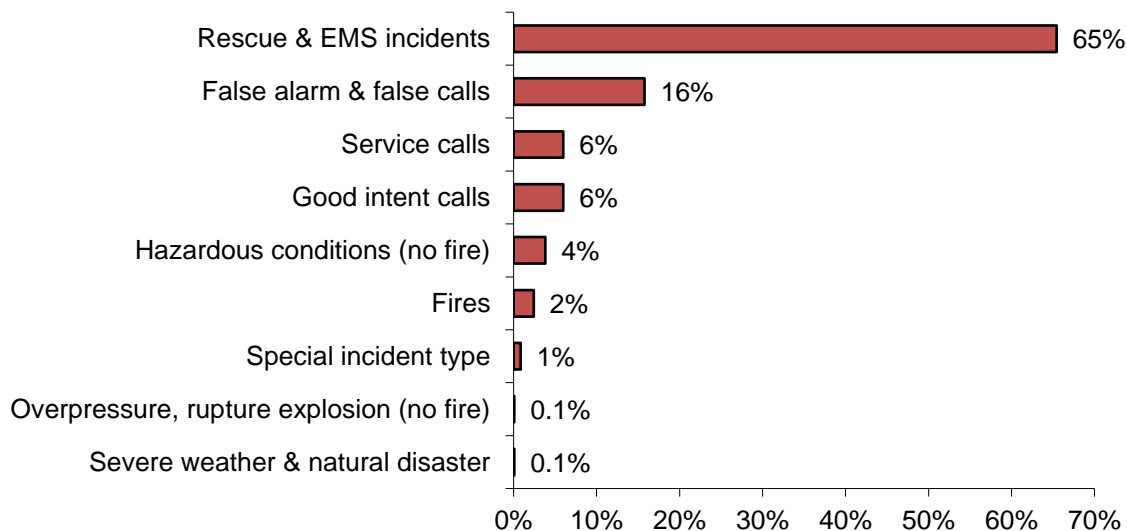
### Rescue & EMS Calls Are 65% of All Reported Responses

In 2019, fire departments in Bristol County reported 64,155 responses<sup>4</sup> to MFIRS. Of these 64,155 incidents, 62,594 non-fire calls were voluntarily reported.

Of these 62,594 non-fire calls, 41,974, or 65%, of all the reported responses were reported rescue and emergency medical services (EMS) calls; 10,114, or 16% were reported false alarm or false calls; 3,861, or 6%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 3,545, or 6%, were reported good intent calls; 2,454, or 4%, were reported hazardous condition calls with no fire; 543, or 1%, were special incident type calls such as citizen complaints; 54, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire and 49, or 0.1%, were severe weather responses.

One thousand five hundred and sixty-one (1,561), or 2%, of the total responses submitted by Bristol County fire departments were fires.

### 2019 Responses by Incident Type



### Bristol County Fire Departments Gave Mutual Aid 1,745 Times

In 2019, Bristol County fire departments reported coming to the aid of other fire departments 1,745 times. Of these 1,745 responses, 1,221, or 70%, were for rescue or EMS calls; 314, or 18%, were for good intent calls; 137, or 8%, were for service calls such as cover assignments; 52, or 3%, were for fires; 15, or 1%, were for false alarms or

<sup>4</sup> These figures include responses in which Bristol County fire departments gave mutual aid to other fire departments.

false calls; four, or less than 1%, were for hazardous conditions calls with no fire; and two, or less than 1%, were special incident types.

**Bristol County Received Mutual Aid in 824 Incidents**

In 2019, Bristol County fire departments reported receiving aid from surrounding departments in 824 incidents. Of these 824 incidents, 684, or 83%, were rescue and emergency medical services calls; 78, or 9%, were for fires; 19, or 2%, were false alarms or false calls; 16, or 2%, were good intent calls; 13, or 2%, of the mutual aid received calls, were service calls; 11, or 1%, were hazardous conditions calls with no fire; two, or less than 1%, were severe weather calls; and one, or less than 1%, was a special incident type.

**Bristol County****Population: 548,285****2.8 Fires/1,000 Population****Total Fires: 1,509 \$20,771,760**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	727	48%	\$18,079,602
Vehicle Fires	243	16%	2,239,345
Other Fires	539	36%	452,813

7 Fatal Fires 5.30 Civilian Deaths/1,000 Fires  
 8 Civilian Deaths 0.15 Civilian Deaths/10,000 Population  
 23 Civilian Injuries 19 Fire Service Injuries

**Building Fires: 721****Residential Structure Fires: 605****Residential Structure Fires Confined to Non-Combustible Containers: 380****Unconfined Residential Structure Fires: 225**

6 Civilian Deaths 17 Civilian Injuries 15 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	323	53%	Operated	190	31%
1- & 2-Family homes	261	43%	Didn't operate	18	3%
Rooming houses	6	1%	None	21	3%
Residential board & care	4	1%	Fire too small	30	5%
Dormitories	1	0.2%	Didn't alert (confined)	28	5%
			Undetermined	318	53%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	53%	Cigarettes	4%	12%
Heating room or area	6%	Arcing	4%	12%
Chimney or flue	6%	Heat from operating eq.	4%	10%
Exterior balcony, unencl. porch	4%	Rad., cond. heat from op eq.	3%	8%
Bedroom	4%	Candles	2%	4%

<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	49%	Too close to combustibles	2%	6%
Film or residue (creosote)	5%	Abandoned materials	2%	5%
Rubbish, trash, waste	5%	Electrical failure, malfunc.	1%	4%
Flammable or combust. liquid	5%	Equipment unattended	1%	3%
Exterior sidewall covering	2%	Misuse of materials, prod.	1%	2%
Electrical wire, cable insulation	2%	Unspec. short circuit arc	1%	2%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	50%	Unintentional	21%	58%
None	25%	Failure of eq. or heat source	3%	8%
Chimney or flue	6%	Intentional	1%	3%
Boiler, furnace, cent. heat unit	6%	Cause under investigation	2%	5%
Electrical wiring, other	1%	Undetermined	9%	24%
		Act of Nature	0.3%	1%

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

Alerted Occupants	24%
Didn't Alert Occupants	7%
Undetermined	69%

<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	137	80	20	37
February	116	76	20	20
March	128	50	25	53
April	155	76	25	54
May	129	52	14	63
June	147	62	19	66
July	145	58	22	65
August	142	48	33	61
September	94	35	17	42
October	87	44	16	27
November	128	72	23	33
December	101	74	09	18

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	219	110	26	83
Monday	233	110	43	80
Tuesday	203	98	31	74
Wednesday	218	103	39	76
Thursday	212	101	35	76
Friday	193	105	31	57
Saturday	231	100	38	93

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	103	59	21	23
04:01 – 08:00	120	66	24	30
08:01 – 12:00	269	128	47	94
12:01 – 16:00	417	178	61	178
16:01 – 20:00	408	205	53	150
20:01 – 24:00	192	91	37	64

### **Motor Vehicle Fires**

Total: 243

Automobiles: 175 (72%)

5, or 3%, of the automobile fires were considered intentionally-set.

## Arson Fires

**Total Arsons: 40**

**Dollar loss: \$312,791**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	9	1%	23%	\$167,600
Vehicle Arsons	7	3%	18%	143,300
Other Arsons	24	4%	60%	1,891

0.02 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.04 Other arsons/1,000 population

2 Civilian Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 – 20:00	4	44%	00:01 – 04:00	2	29%
12:01 – 16:00	2	22%	04:01 – 08:00	2	29%

Other Arsons	#	%
16:01 – 20:00	9	38%
12:01 – 16:00	6	25%
08:01 – 12:00	3	18%
20:01 – 00:00	3	18%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	5	56%
MV or boat sales, service or repair	1	11%
Dormitory type residence, other	1	11%
High/junior high/middle school	1	11%
Business office	1	11%

**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>
2015	19	12	2	5	1	0	0	1
2016	28	18	5	5	1	0	0	1
2017	12	8	1	3	0	0	0	0
2018	20	10	3	7	0	0	0	0
2019	8	5	0	3	0	0	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>
2015	145	46	22	77	0	0	0	0
2016	130	50	17	63	2	1	1	0
2017	122	41	24	57	0	0	0	0
2017	110	37	23	50	3	1	1	1
2019	98	37	20	41	1	0	1	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>
2015	13	7	1	5	0	0	0	0
2016	15	4	3	8	0	0	0	0
2017	16	5	6	5	0	0	0	0
2018	14	6	6	2	0	0	0	0
2019	19	9	4	6	0	0	0	0

**Dartmouth Fire Districts<sup>11</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>
2015	23	12	2	9	1	1	0	0
2016	18	8	3	7	0	0	0	0
2017	21	14	2	5	0	0	0	0
2018	19	0	1	8	1	0	1	0
2019	18	6	5	7	0	0	0	0

<sup>11</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>
2015	1	0	1	0	0	0	0	0
2016 <sup>12</sup>	Fire Department in Good Standing							
2017	7	3	0	4	0	0	0	0
2018	5	2	1	2	0	0	0	0
2019	3	0	0	3	0	0	0	0

**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>
2015	87	19	17	51	6	0	0	6
2016	73	23	10	40	4	2	0	2
2017	67	16	14	37	2	0	0	2
2018	66	24	11	31	0	0	0	0
2019	47	20	9	18	1	0	0	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>
2015	8	1	3	4	1	0	1	0
2016	18	6	5	7	0	0	0	0
2017	16	6	5	5	0	0	0	0
2018	9	2	1	6	0	0	0	0
2019	16	7	6	3	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>
2015	78	31	1	46	4	1	0	3
2016	54	19	7	28	2	0	0	2
2017	45	18	5	22	3	0	0	3
2018	45	14	6	25	0	0	0	0
2019	34	15	4	15	3	0	1	2

<sup>12</sup> In 2016, Dartmouth District #2 reported 9 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>
2015	54	23	8	23	1	0	0	1
2016	56	19	7	30	1	0	0	1
2017	30	11	7	12	0	0	0	0
2018	52	18	4	30	0	0	0	0
2019	41	12	7	22	0	0	0	0

**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>
2015	472	301	42	129	8	6	2	0
2016	437	254	58	125	22	13	9	0
2017	431	263	41	127	25	10	8	7
2018	447	270	59	118	15	3	10	2
2019	408	251	43	114	12	4	2	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>
2015	44	15	10	19	0	0	0	0
2016	48	16	13	19	2	0	2	0
2017	44	14	16	14	0	0	0	0
2018	41	15	11	15	0	0	0	0
2019	41	18	12	11	1	1	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>
2015	44	13	4	27	2	1	0	1
2016	61	14	15	32	1	0	0	1
2017	59	13	17	29	1	0	0	1
2018	46	16	12	18	1	0	0	1
2019	48	20	5	23	0	0	0	0

<b>New Bedford</b>					<b>Population: 95,072</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>
2015	478	213	63	202	24	9	11	4
2016	445	213	49	183	13	6	6	1
2017	453	229	53	171	30	18	9	3
2018	399	215	61	123	15	3	10	2
2019	390	203	50	137	3	1	2	0

<b>North Attleboro</b>					<b>Population: 28,712</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>
2015	46	19	6	21	0	0	0	0
2016	67	21	14	32	1	0	1	0
2017	40	13	6	21	2	0	0	2
2018	48	28	10	10	1	0	0	1
2019	56	22	12	22	4	1	0	3

<b>Norton</b>					<b>Population: 19,031</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>
2015	37	18	1	18	0	0	0	0
2016	48	10	11	27	6	0	1	5
2017	25	6	4	15	3	2	0	1
2018	34	9	8	17	2	2	0	0
2019	29	5	9	15	3	1	0	2

<b>Raynham</b>					<b>Population: 13,383</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>
2015	63	19	17	27	2	0	1	1
2016	76	14	16	46	0	0	0	0
2017	64	18	11	35	0	0	0	0
2018	68	13	28	27	1	0	0	1
2019	29	9	6	14	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>
2015	61	21	11	29	20	4	0	16
2016	43	18	7	18	3	1	0	2
2017	45	15	8	22	9	1	0	8
2018	41	14	5	22	10	2	0	8
2019	35	11	12	12	2	0	0	2

**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>
2015	61	11	11	39	1	1	0	0
2016	86	23	13	50	2	1	0	1
2017	53	18	7	28	2	1	0	1
2018	49	10	6	33	1	0	0	1
2019	36	10	7	19	1	0	1	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>
2015	35	16	8	11	0	0	0	0
2016	43	18	10	15	0	0	0	0
2017	39	16	8	15	0	0	0	0
2018	29	9	10	10	1	1	0	0
2019	31	9	10	12	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>
2015	78	37	18	23	0	0	0	0
2016	78	33	16	29	1	0	0	1
2017	60	30	15	15	1	0	0	1
2018	44	19	16	9	0	0	0	0
2019	56	27	13	16	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>
2015	213	90	20	103	16	6	2	8
2016	218	76	21	121	20	1	2	17
2017	156	70	15	71	13	3	0	10
2018 <sup>13</sup>	47	25	5	17	0	0	0	0
2019 <sup>14</sup>	4	3	1	0	0	0	0	0

**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>
2015	60	15	13	32	0	0	0	0
2016	62	9	13	40	3	0	1	2
2017	72	19	15	38	6	1	0	5
2018	45	16	5	24	2	0	0	2
2019	62	28	8	26	9	1	0	8

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<sup>13</sup> Taunton only reported January through April in 2018.

<sup>14</sup> Taunton only reported 'reportable fires' in 2019.



## 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	542	15	0	245	79	113	16	73	0	1
05016	Attleboro	7,403	128	1	5,384	125	350	502	902	8	3
05027	Berkley	472	19	0	346	15	16	37	39	0	0
05972	Dartmouth Distr.#1	391	23	0	24	58	32	36	205	12	1
05973	Dartmouth Distr.#2	143	8	1	34	34	27	7	24	2	6
05974	Dartmouth Distr.#3	795	69	3	179	58	127	105	253	1	0
05076	Dighton	203	16	0	43	26	18	21	77	1	1
05088	Easton	3,387	45	2	2,415	148	293	101	362	9	12
05094	Fairhaven	3,382	35	3	2,645	152	123	115	303	0	6
05095	Fall River	7,447	433	6	2,886	477	281	472	2,867	2	23
05102	Freetown	1,403	46	13	886	57	131	158	100	2	10
05167	Mansfield	3,377	59	3	2,212	164	229	223	472	2	13
05201	New Bedford	15,106	453	7	10,330	374	420	1,227	2,256	11	28
05211	North Attleboro	2,572	45	5	1,758	98	234	86	338	0	8
05218	Norton	3,283	28	0	2,178	143	353	22	421	0	138
05245	Raynham	2,862	72	1	2,077	82	121	84	406	3	16

All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any 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
05003	Acushnet	1,171	8	0	916	56	107	7	77	0	0
05016	Attleboro	7,885	101	10	5,734	163	545	424	869	23	16
05027	Berkley	764	20	0	560	26	57	39	62	0	0
05972	Dartmouth Distr.#1	355	20	2	16	70	34	32	181	0	0
05973	Dartmouth Distr.#2	93	3	0	13	23	12	9	33	0	0
05974	Dartmouth Distr.#3	986	54	4	328	82	147	112	257	1	1
05076	Dighton	219	16	0	48	19	27	23	85	0	1
05088	Easton	3,559	34	3	2,549	116	364	85	392	1	15
05094	Fairhaven	3,682	43	10	2,827	163	164	140	320	1	14
05095	Fall River	7,330	414	3	2,959	579	274	506	2,563	1	31
05102	Freetown	1,534	42	8	1,030	45	128	138	127	3	13
05167	Mansfield	3,441	48	1	2,195	159	307	257	452	1	21
05201	New Bedford	14,627	390	2	10,130	329	393	1,008	2,313	6	56
05211	North Attleboro	3,880	60	4	2,778	127	360	38	324	0	189
05218	Norton	3,336	30	0	2,132	139	334	24	533	0	144
05245	Raynham	2,880	31	5	2,129	62	148	83	412	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
05247	Rehoboth	623	37	1	264	54	59	40	164	4	0
05265	Seekonk	3,431	41	0	2,385	64	177	329	425	1	9
05273	Somerset	2,785	31	0	2,302	43	93	140	154	2	20
05292	Swansea	500	66	0	53	68	47	52	208	2	4
05293	Taunton	4	4	0	0	0	0	0	0	0	0
05334	Westport	1,070	68	1	626	67	84	59	163	0	2
<b>Bristol County</b>		<b>64,155</b>	<b>1,561</b>	<b>54</b>	<b>41,974</b>	<b>2,454</b>	<b>3,861</b>	<b>3,545</b>	<b>10,114</b>	<b>49</b>	<b>543</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.

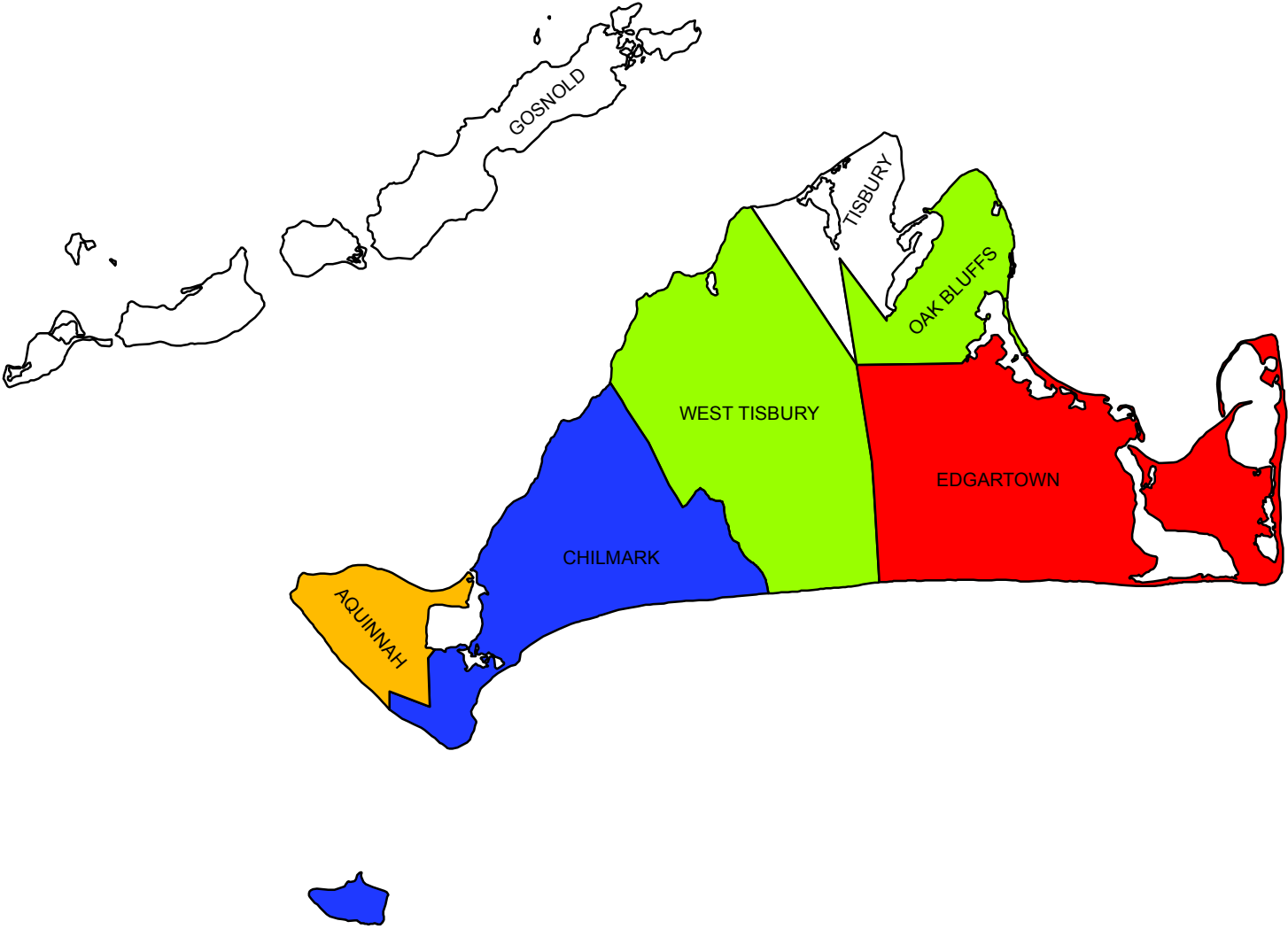


# Dukes County

## 2019 Fire Data Analysis

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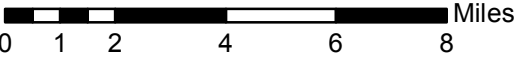
# Dukes County Fires 2019



## 2019 Fires



\*Non-reporting department



# Dukes County Fires in 2019

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## **50 Total Fires — 23 Structures, 4 Vehicles Fires & 23 Outside & Other Fires**

Dukes County ranked thirteenth out of the fourteen Massachusetts counties in total fires. Dukes County fire departments reported 50 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2018. The reported 23 structure fires, four motor vehicle fires, five brush fires, six outside rubbish fire, six special outside fires, and six unclassified fires caused an estimated dollar loss of \$825,600. Dukes County's fires accounted for 0.1% of the 25,176 Massachusetts fires reported in 2019.

All 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 2019.

## **All Fires Up**

The total number of reported fire incidents increased by 20 from the 30 reported in 2018. Reported structure fires increased by six from the 17 reported in 2018. Motor vehicle fires decreased by one from the five reported the previous year. Outside and other fires increased by 15 from the eight reported in 2018<sup>1</sup>.

## **DUKES COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	37	10	5	22	1	0	0	1
2016	50	12	10	28	2	0	1	1
2017	26	15	6	5	0	0	0	0
2018	30	17	5	8	0	0	0	0
2019	50	23	4	23	4	0	0	4

## **Fire and Fire Death Rates**

Dukes County had 3.0 fires per 1,000 population. That figure ranks Dukes County tied for ninth in the state and below the state rate of 3.8 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 well below the state rate of 0.06 fire deaths per 10,000 population.

## **No Fire Deaths in Dukes County in 2019**

In 2019 there were no fatal fires and fire deaths in Dukes County.

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

Dukes County did not have any large loss fires over \$1 million in 2019. Tisbury had the largest loss fire in the County.

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<sup>1</sup> 2019 was another down year statewide for brush fires.

- The largest loss fire in Dukes County in 2019 was a boat fire at the docks in Tisbury. This fire occurred on June 23, 2019, at 3:07 a.m. No one was injured at this fire. Damages were estimated at \$600,000. This one fire accounted for 73% of Dukes County total estimated damages.

## **STRUCTURE FIRES**

### **Reported Structure Fires 46% of All Reported Fires**

There were 23 reported structure fires in Dukes County in 2019. These incidents represented 46% of Dukes County's reported fires in 2019 and 25% of the county's reported dollar loss. The total number of reported structure fires increased by six from the 17 reported in 2018.

### **0 Reported Structure Arson in 2019**

There was no reported structure arson in Dukes County in 2019

## **BUILDING FIRES**

There were 22 building fires of different types in Dukes County in 2019. These 22 building fires accounted for 95.7% of the structure fires in Dukes County.

### **73% of Dukes Building Fires Occurred in People's Homes**

Sixteen (16), or 73%, of Dukes County's 22 building fires occurred in residential occupancies. Two (2) occurred in mercantile or business properties. One (1) each happened in an assembly property, an institutional facility, an industrial facility and a manufacturing or processing facility.

## **RESIDENTIAL FIRES**

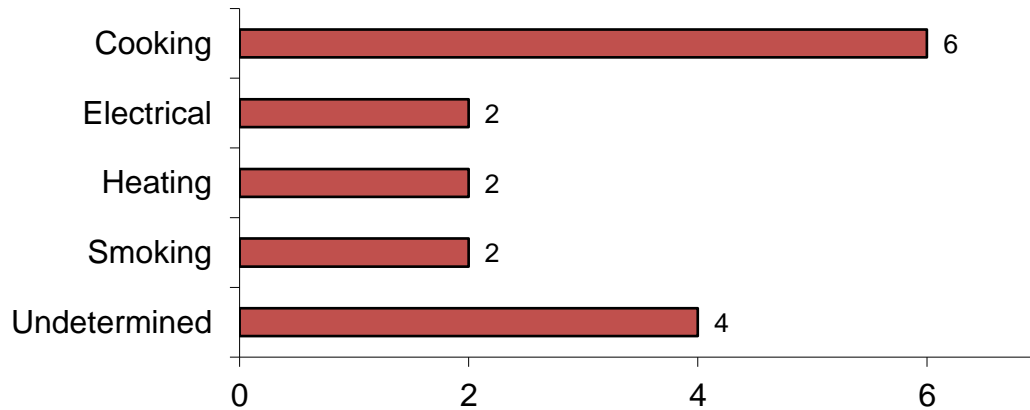
### **16 Residential Building Fires**

There were 16 reported residential building fires in Dukes County in 2019. These 16 fires are an increase of two, or 14%, from the 14 reported in 2018. They caused \$93,500 in estimated damages.

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

Cooking was the leading cause of residential fires in Dukes County in 2019. The six cooking fires accounted for 38% of residential building fires in Dukes County in 2019. Electrical problems, heating equipment and smoking each caused two, or 13%, of these fires. The other four fires, or 25%, were undetermined.

### 2019 Leading Causes of Fires in Dukes County Homes



#### 8 Residential Building Fires Were Confined to Non-Combustible Containers<sup>2</sup>

Eight (8), or 50%, of the reported fires in Dukes County were confined to a non-combustible container. Six, or 75%, of these fires were confined cooking fires; and two, or 25%, were confined to a chimney or flue.

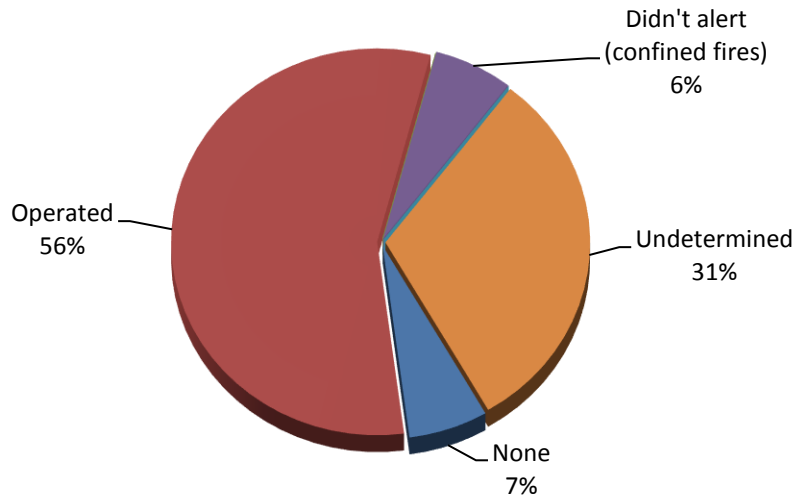
#### Detectors Operated in Over 1/2 of Fires

Smoke or heat detectors operated and alerted the occupants in nine, or 56%, of the residential building fires. There were no reported fires where detectors failed to operate. Detectors were present but did not operate in 6% of these incidents. In 7% of these fires, no detectors were present at all. There were no reported fires where the fire was too small to trigger the detector. Smoke detector performance was undetermined in five incidents, or 31%, of Dukes County's residential building fires.

<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.



## Detector Status in Dukes County's Residential Fires 2019



### VACANT BUILDINGS

#### 1 Vacant Building Fire

There were no reported fires in a vacant building in Dukes County in 2019. This vacant building fire occurred in a hotel. It was not an arson.

### JUVENILE-SET FIRES

#### No Juvenile-set Fires

There were no reported juvenile-set fires in Dukes County in 2019.

### ARSONS

#### 4 Arsons

There were four reported arsons in Dukes County in 2019. There was one brush arson, two special equipment arsons and one unclassified arson. This was an increase of four over the zero arsons in Dukes County in 2018.

## ALL INCIDENTS

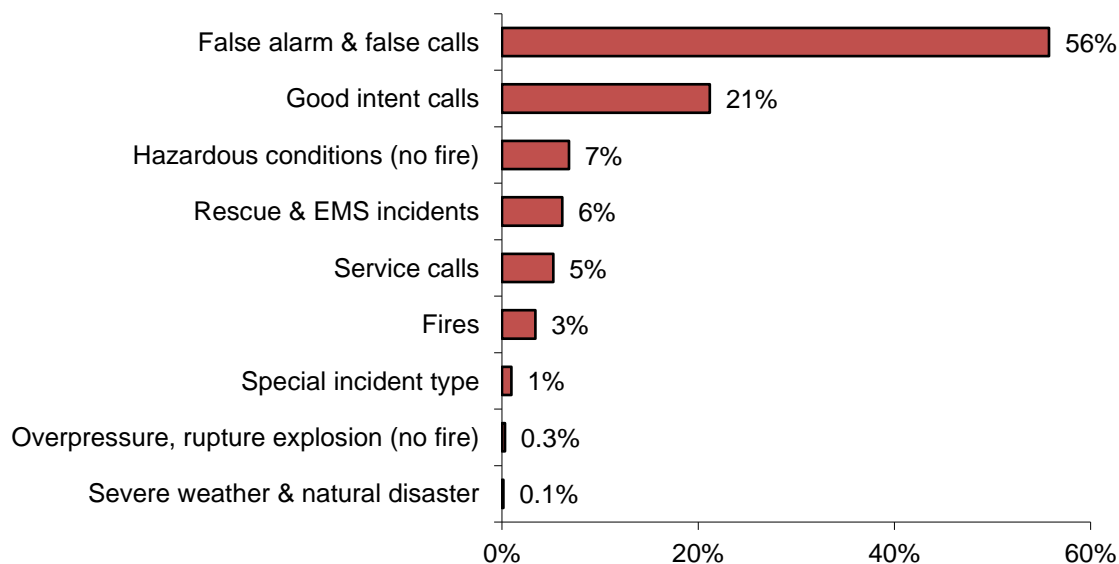
### False Alarms Are Over 1/2 of All Reported Responses

In 2019, Dukes County fire departments reported 2,001 responses<sup>3</sup> to MFIRS. Of these 2,001 incidents, 1,933 non-fire calls were voluntarily reported. Only Gosnold/Cuttyhunk certified no reportable fires and did not report any incidents.

Of these 1,933 non-fire calls, 1,116, or 56%, were reported false alarm or false calls; 424, or 21%, were reported good intent calls; 137, or 7%, were reported hazardous condition calls with no fire; 123, or 6%, of all of the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 105, or 5%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 19, or 1%, were special incident types; six, or less than less than 1%, were overpressure, rupture explosions with no ensuing fire calls; and three, or less than 1%, were severe weather calls.

Sixty-eight (68), or 3%, of the total incidents submitted by Dukes County fire departments were fires.

### 2019 Incidents by Incident Type



### Dukes County Fire Departments Gave Mutual Aid 54 Times

In 2019, Dukes County fire departments reported coming to the aid of other fire departments 54 times. Of these responses, 17, or 31%, were for fires; 10, or 19%, were for good intent calls; nine, or 17%, were special incident type calls, six, or 11%, were

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

rescue or EMS calls; five, or 9%, were service calls; three, or 6%, were hazardous condition calls with no fire; two, or 4%, were false alarms or false calls; one, or 2%, were severe weather calls; and one, or 2%, were overpressure, rupture explosions with no ensuing fire.

**Dukes County Fire Departments Received Mutual Aid in 27 Incidents**

In 2019, Dukes County fire departments reported receiving aid from surrounding departments in 27 incidents. Twelve (12), or 44%, were for fires; six, or 22%, were for rescue or EMS calls; four, or 15%, were good intent calls; two, or 7%, were service calls; one, or 4%, of these incidents was for a false alarms or false call; one, or 4%, of these incidents was for an overpressure or rupture explosion with no ensuing fire; and one, or 4%, of these incidents was for a special incident type call.

**Dukes County****Population: 16,535****3.0 Fires/1,000 Population****Total Fires: 50 \$825,600**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	23	46%	\$209,600
Vehicle Fires	4	8%	600,000
Other Fires	23	46%	16,000

0 Fatal Fires 0.0 Civilian Deaths/1,000 Fires  
 0 Civilian Deaths 0.0 Civilian Deaths/10,000 Population  
 0 Civilian Injuries 0 Fire Service Injuries

**Building Fires: 22****Residential Structure Fires: 16****Residential Structure Fires Confined to Non-Combustible Containers: 8****Unconfined Residential Structure Fires: 8**

No Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	12	75%	Operated	9	56%
Apartments	2	13%	Didn't operate	0	0%
Rooming houses	1	6%	None	1	7%
Hotels or motels	1	6%	Fire too small	0	0%
			Didn't alert (confined)	1	7%
			Undetermined	5	31%

<b>Area of Origin<sup>4</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>5</sup></b>
Kitchen	44%	Arcing	13%	25%
Chimney or flue	13%	Cigarette	6%	13%
		Hot or smoldering object	6%	13%
		Spark, ember, flame op. eq.	6%	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>
Cooking materials	38%	Abandoned materials	13%	25%
Exterior sidewall covering	19%	Flamm. liquid/gas spilled	6%	13%
Film, residue (creosote)	13%	Equipment overloaded	6%	13%
		Equip. not operated prop.	6%	13%

<b>Equipment<sup>8</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>9</sup></b>
Kitchen & cooking equipment	38%	Unintentional	25%	50%
None	31%	Failure of eq. or heat source	6%	13%
Chimney or flue	13%	Undetermined	6%	13%
Extension cord	6%	Cause under investigation	13%	25%
Electric meter, meter box	6%			

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

Alerted occupants	38%
Didn't alert occupants	13%
Undetermined	50%

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

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	3	0	0	2
Monday	10	3	1	6
Tuesday	11	7	1	3
Wednesday	8	3	0	5
Thursday	6	2	0	4
Friday	5	4	0	1
Saturday	7	4	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	4	1	2	1
04:01 - 08:00	2	2	0	0
08:01 - 12:00	8	4	0	4
12:01 - 16:00	12	3	1	8
16:01 - 20:00	20	10	1	9
20:01 - 00:00	4	3	0	1

### **Motor Vehicle Fires**

Total: 4

Automobiles: 3 (75%)

0 (0%) of the automobile fires were intentionally-set in 2019.

**Arson Fires****Total Arsons: 4****Dollar loss: \$0****0.24 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	4	17%	100%	0

0.00 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.24 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>
16:00 – 20:00	4	100%

<b>Peak Fixed Property Uses for Structure Arsons</b>	<b>#</b>	<b>%</b>
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**Aquinnah****Population: 311**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	3	2	1	0	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires <sup>10</sup>							
2018	Fire Department in Good Standing, Certified No Reportable Fires <sup>11</sup>							
2019	2	1	0	1	0	0	0	0

**Chilmark****Population: 866**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	1	0	1	0	0	0	0	0
2016	4	0	0	4	0	0	0	0
2017	Non-Reporting Community							
2018	1	1	0	0	0	0	0	0
2019	10	3	0	7	3	0	0	3

**Edgartown****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>
2015	1	1	0	0	0	0	0	0
2016	2	0	0	2	0	0	0	0
2017	8	7	1	0	0	0	0	0
2018	13	7	2	4	0	0	0	0
2019	12	5	2	5	0	0	0	0

**Gosnold (Cuttyhunk)****Population: 75**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	Fire Department in Good Standing, Certified No Reportable Fires							

<sup>10</sup> Aquinnah did report 59 total runs to MFIRS in 2017.<sup>11</sup> Aquinnah did report 62 total runs to MFIRS in 2018.



**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>
2015	Non-Reporting Community							
2016	22	3	5	14	2	0	1	1
2017	3	2	1	0	0	0	0	0
2018	Fire Department in Good Standing, Certified No Reportable Fires <sup>12</sup>							
2019	5	3	0	2	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>
2015	21	9	3	9	0	0	0	0
2016	16	6	4	6	0	0	0	0
2017	12	5	4	3	0	0	0	0
2018	15	8	3	4	0	0	0	0
2019	14	10	1	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>
2015	14	0	1	13	1	0	0	1
2016	3	1	0	2	0	0	0	0
2017	3	1	0	2	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	7	1	1	5	1	0	0	1

<sup>12</sup> Oak Bluffs did report 83 total runs to MFIRS in 2018.

## 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	54	4	0	3	1	2	6	38	0	0
07062	Chilmark	141	13	0	6	5	0	3	112	1	1
07089	Edgartown	704	17	4	36	63	48	152	382	1	1
07109	Gosnold*	0	0	0	0	0	0	0	0	0	0
07221	Oak Bluffs	365	9	1	36	11	24	56	222	0	6
07296	Tisbury	353	16	0	36	30	19	60	191	1	0
07327	West Tisbury	384	9	1	6	27	12	147	171	0	11
<b>Total</b>	<b>Dukes County</b>	<b>2,001</b>	<b>68</b>	<b>6</b>	<b>123</b>	<b>137</b>	<b>105</b>	<b>424</b>	<b>1,116</b>	<b>3</b>	<b>19</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.

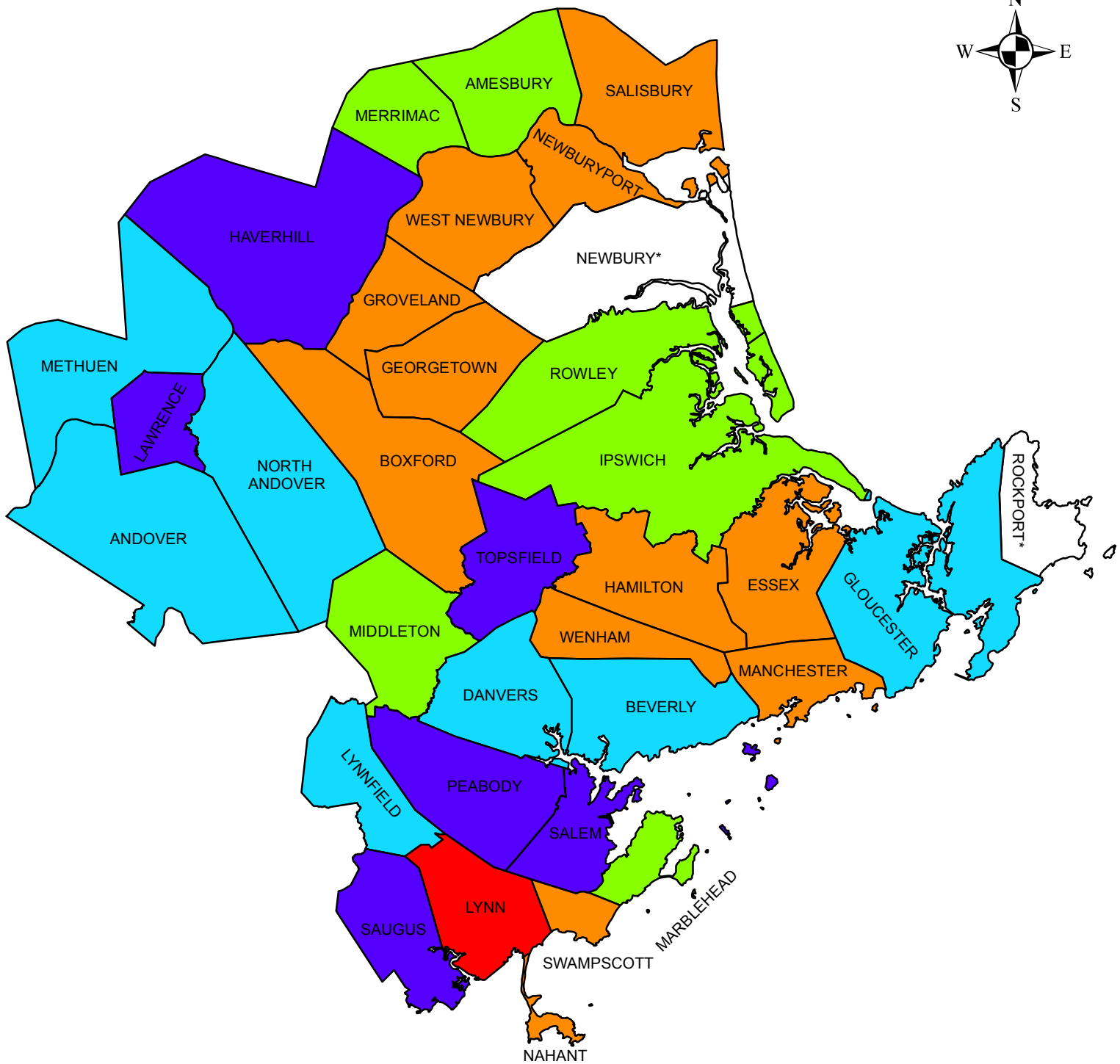
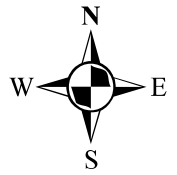


# Essex County

## 2019 Fire Data Analysis

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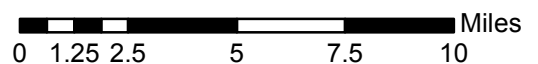
# Essex County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2019

# Essex County Fires in 2019

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## **2,068 Total Fires — 1,157 Structures, 238 Vehicles & 673 Other Fires**

Essex County ranked fifth out of the fourteen Massachusetts counties in total reported fires. The county reported 2,068 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 1,157 structure fires, 238 motor vehicle fires, 292 brush, tree or lawn fires, 211 outside rubbish fires, 80 special outside fires, three cultivated crop or vegetation fires, and 87 other fires caused eight civilian injuries, 64 fire service injuries and an estimated dollar loss of \$28.8 million. Essex County's fires accounted for 8% of the 25,176 Massachusetts fires reported in 2019.

Thirty-two (32) of the 34, or 94.1%, 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 2019.

## **All Fires Down**

The total number of reported fire incidents decreased by 94 incidents from the 2,162 that were reported in 2018. Reported structure fires decreased by 38 from the 1,195 reported during the previous year. The total number of motor vehicle fires decreased by eight from the 246 incidents reported during 2018. Reported outside and other fires decreased by 48 from the 721 reported the year before<sup>1</sup>.

## **ESSEX COUNTY FIRES FROM 2015 TO 2019**

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	2,897	1,414	274	1,209	86	19	15	52
2016	2,979	1,351	218	1,410	103	19	11	73
2017	2,492	1,305	257	930	68	15	6	47
2018	2,162	1,195	246	721	40	12	4	24
2019	2,068	1,157	238	673	60	12	1	47

## **Fire and Fire Death Rates**

Essex County had 2.8 fires per 1,000 population. That figure ranks Essex County tied for eleventh in the state and below the state rate of 3.8 fires per 1,000 population. Essex County had 0 fire deaths per 10,000 population making it tenth among Massachusetts counties and below the state rate of 0.06 deaths per 10,000 population.

## **0 Fire Deaths in Essex County**

In 2019 there were no reported fire deaths in Essex County.

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<sup>1</sup> 2019 was another down year for brush fires.

**North Andover Had Largest Loss Fire in 2019**

In 2019, Essex County had four fires that were considered large loss, or greater than \$1 million in estimated damages. These fires combined for \$11.6 million in estimated damages and 40% of Essex County's total dollar loss in 2019.

- On August 20, 2019, at 6:32 p.m., the North Andover Fire Department was dispatched to a fire of undetermined cause in a recycling center at Thomson Brother Industries. No one was injured at this fire. Alarms were present but failed to operate. The building did have dry pipe sprinklers but they failed to operate also. Damages from this fire were estimated to be \$5.1 million.

**STRUCTURE FIRES****Reported Structure Fires Down**

The 1,157 structure fires caused three civilian injuries, 57 fire service injuries and an estimated dollar loss of \$25.8 million. These incidents represented 56% of Essex County's reported fires in 2019. The average estimated dollar loss per structure fire was \$22,287. The total number of reported structure fires decreased by 38, or 3%, from the 1,195 reported in 2018.

**Arson Caused 1% of Structure Fires**

The 12 structure arsons caused one fire service injury and an estimated dollar loss of \$467,000. Arson was indicated as the cause of 1% of the structure fires and 2% of Essex County's structure fire dollar loss. The 12 structure arsons accounted for 20% of the Essex County arson fires reported in 2019. The number of reported structure arsons remained the same with 12 reported in both 2018 and 2019.

**58% of Structure Arsons Occurred in Residences**

Fifty-eight percent (58%) of Essex County's 12 structure arsons occurred in residential occupancies. Twenty-five percent (25%) took place in educational facilities. Public assembly facilities accounted for 17% of structure arsons.

**BUILDING FIRES**

There were 1,153 building fires of different types in Essex County in 2019. These 1,153 building fires accounted for 99.7% of all structure fires in Essex County.

**83% of Essex Building Fires Occurred in People's Homes**

Nine hundred and sixty (960), or 83%, of Essex County's 1,153 building fires occurred in residential occupancies. Mercantile and business properties had 65 fires. Forty-seven (47) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 25 fires. Eighteen (18) building fires took place in educational properties. Fourteen (14) fires took place in manufacturing and processing facilities. Eleven (11) fires took place in storage properties. Six (6) building fires in Essex County occurred in special properties such as outbuildings, bus stop shelters and toll booths. Four (4) fires happened in industrial facilities; and three fires occurred in unclassified properties in Essex County in 2019.

## RESIDENTIAL FIRES

### Residential Building Fires Down in 2019

There were 960 reported residential building fires in Essex County in 2019. These 960 fires are a decrease of 52, or 5%, from the 1,012 residential building fires reported in 2018.

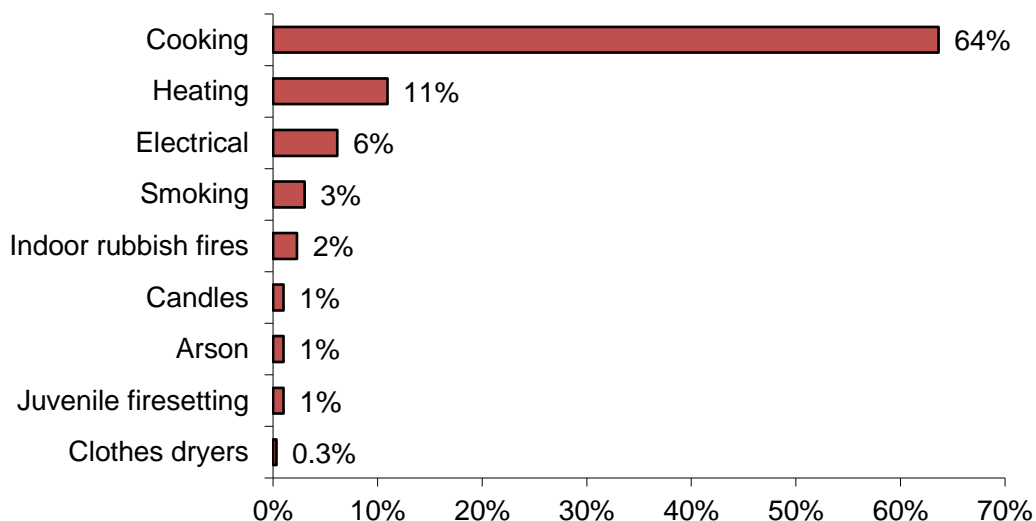
### 1- or 2-Family Homes Accounted for 46% of Residential Building Fires

The peak fixed property uses for residential building fires were 1- or 2-family homes accounting for 46% of all residential fires; apartments had 43%, 2% occurred in dormitories; 2% happened in rooming houses; 2% took place in residential board and care facilities; and 1% happened in hotels or motels. Thirty (30), or 3% 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 64% of these fires. Heating was the second leading cause, accounting for 11% of these fires. Electrical problems caused 6%. Smoking caused 3% and indoor rubbish fires caused 2%. Candles, arsons and juvenile-set fires each caused 1% of these fires. Clothes dryers caused less than 1% of the fires in people's homes in Essex County in 2019.

## 2019 Leading Causes of Fires in Essex County Homes



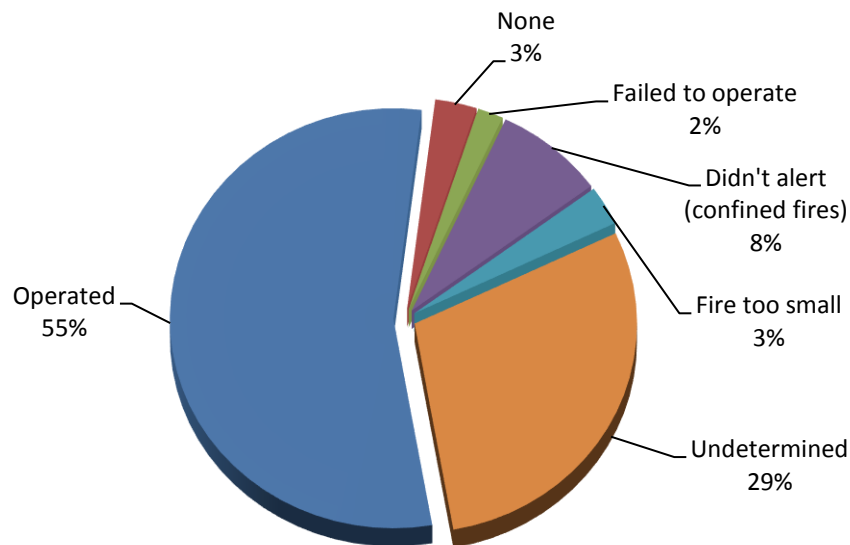
### 74% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

Seven hundred and seven (707), or 74%, of all residential building fires were reported as confined to non-combustible containers in 2019. Five hundred and eighty-eight (588), or 61%, of all residential building fires reported in 2019 were cooking fires contained to a non-combustible container. Fifty-nine (59), or 6%, were fires confined to a fuel burner or boiler malfunction. Thirty-six (36) of the reported fires were confined to a chimney, accounting for 4% of residential building fires. Twenty-one (21), or 2%, of these fires were rubbish fires contained to a non-combustible container. Two (2), or less than 1%, were incinerator overloads or malfunctions; and one, or less than 1%, was a commercial compactor fire in Essex County in 2019

### Detectors Operated in 55% of Fires

Smoke or heat detectors operated and alerted the occupants in 526, or 55%, of the residential building fires. In 8% of these fires<sup>3</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 3% of the residential fires. Smoke detector performance was undetermined in 281 incidents, or 29%, of Essex County's residential building fires.

### Detector Status in Essex County's Residential Structure Fires 2019



<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.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.



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

Of the 18 fires where smoke detectors were present but failed to operate, four, or 22%, failed because the batteries were either missing or disconnected; and one, or 6%, failed because the battery was dead. Four (4) detectors, or 22%, failed because of a power failure, shutoff or disconnect. It was undetermined or unclassified in nine cases, or 50%, why the detectors failed to operate.

**VACANT BUILDINGS****2% of Building Fires Occurred in Vacant Buildings**

Essex County reported 21 fires that occurred in buildings that were vacant, under construction or demolition. This represented 2% of the total 1,153 building fires reported to MFIRS in 2019. Eleven (11) fires occurred in vacant residential properties. Storage facilities accounted for five vacant building fires. Public assembly properties had two of these fires. Mercantile and business properties, manufacturing or processing facilities and institutional facilities each had one fire incident in Essex County in 2019.

Two (2) of the vacant building fires in Essex County in 2019 were determined to be intentionally-set. One (1) fire was in an apartment and the other was in a restaurant.

**JUVENILE-SET FIRES****13 Juvenile-set Fires**

There were 13 reported juvenile-set fires in Essex County in 2019. The six structure fires, three brush fires, one special outside fire and three unclassified fires caused \$17,050 in estimated damages.

**ARSONS****60 Total Arsons — 12 Structures, 1 Vehicles & 47 Other Arsons**

Sixty (60), or 3%, of Essex County's 2,068 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 12 structure arsons, one motor vehicle arson and 47 outside and other arsons caused one fire service injury and an estimated dollar loss of \$471,761.

**All Arsons Up**

The total number of reported arson fires increased by 20 from the 40 reported in 2018. Reported structure arsons remained the same with 12 reported in both 2018 and 2019. Motor vehicle arsons decreased by three from the four reported in 2018. Outside and other arsons increased by 23 from 24 reported the year before.

## ALL INCIDENTS

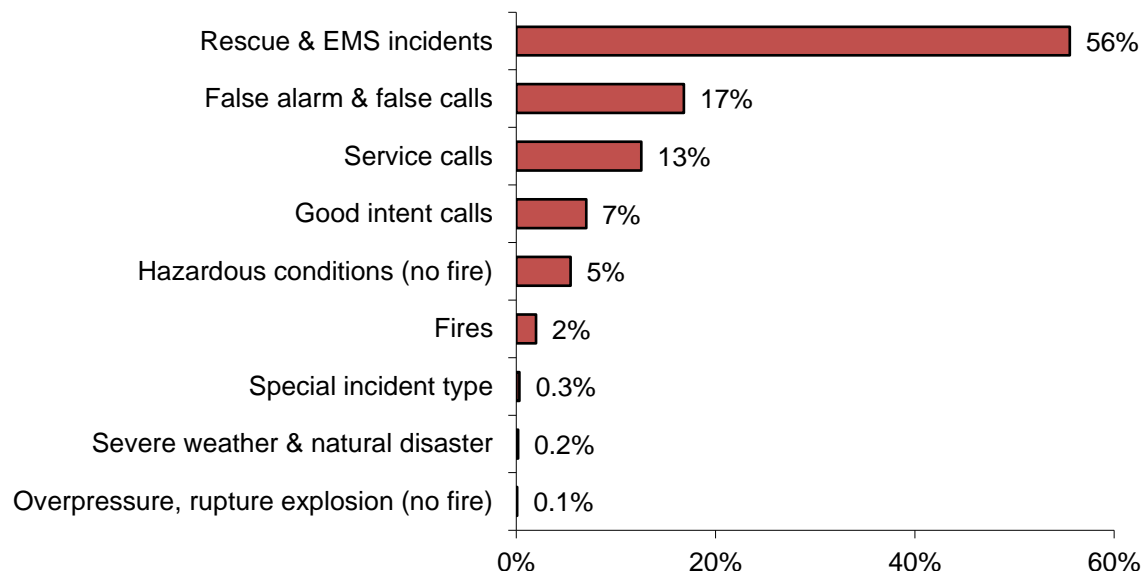
### Rescue & EMS Calls Were 56% of All Reported Responses

In 2019, fire departments in Essex County reported 109,443 responses<sup>4</sup> to MFIRS. Of these 109,443 incidents, 107,271 non-fire calls were voluntarily reported.

Of these 107,271 non-fire calls, 60,785, or 56%, of all the reported responses in 2019 were reported rescue and emergency medical services (EMS) calls; 18,406, or 17%, were reported false alarm or false calls; 13,737, or 13%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 7,698, or 7%, were reported good intent calls; 5,979, or 5%, were reported hazardous condition calls with no fire; 354, or 0.3%, were special incident type calls such as citizen complaints; 204, or 0.2%, were severe weather responses; and 108, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Two thousand one hundred and seventy-two (2,172), or 2%, of the total incidents submitted by Essex County fire departments were fires.

### 2019 Responses by Incident Type



### Essex County Fire Departments Reported Giving Mutual Aid 1,667 Times

In 2019, Essex County fire departments reported coming to the aid of other fire departments 1,667 times. Of these 1,667 responses, 540, or 32%, were for service calls such as cover assignments; 507, or 30%, were for rescue or EMS calls; 274, or 16%, were for good intent calls; 204, or 12%, was for a false alarm or false calls; 101, or 6%, were

<sup>4</sup> These figures include responses in which Essex County fire departments gave mutual aid to other fire departments.

for fires; 35, or 2%, were for hazardous conditions calls with no fire; three, or 0.2% were for overpressure, rupture explosions with no ensuing fire; two, or 0.1%, were special incident types; and one, or 0.1%, was for a severe weather or natural disaster call.

**Essex County Received Mutual Aid in 876 Incidents**

In 2019, Essex County fire departments reported receiving aid from surrounding departments in 876 incidents. Of these 876 incidents, 553, or 63%, were rescue and emergency medical services calls; 108, or 12%, were for fires; 108, or 12%, were false alarms or false calls; 41, or 5%, were hazardous conditions calls with no fire; 34, or 4%, were good intent calls; 29, or 3%, were service calls; two, or 0.2 %, were overpressure, rupture explosions with no fire; and one, or 0.1%, was a special incident type.

**Essex County****Population: 743,159****2.8 Fires/1,000 Population****Total Fires: 2,068 \$28,760,098**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	1,157	56%	\$25,785,663
Vehicle Fires	238	12%	2,785,443
Other Fires	673	33%	188,992

0 Fatal Fire 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Death 0.00 Civilian Deaths/10,000 Population  
 8 Civilian Injuries 64 Fire Service Injuries

**Building Fires: 1,153****Residential Structure Fires: 960****Residential Structure Fires Confined to Non-Combustible Containers: 707****Unconfined Residential Structure Fires: 253**

2 Civilian Injuries 30 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	446	46%	Operated	526	55%
Apartments	412	43%	Didn't operate	18	2%
Rooming houses	23	2%	None	29	3%
Dormitories	22	2%	Fire too small	29	3%
Residential board & care	19	2%	Didn't alert (confined)	77	8%
Hotels/motels	8	1%	Undetermined	281	29%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	66%	Arcing	4%	17%
Heating equipment room	7%	Heat from operating equip.	4%	16%
Chimney or flue	4%	Rad. conduct. heat op. eq.	2%	6%
Bedroom	2%	Hot or smoldering obj., other	2%	6%
Exterior balcony, unencl. porch	2%	Cigarette	1%	4%

<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	62%	Abandoned materials	2%	7%
Flammable/comb. liquid	6%	Electrical failure, malfunc.	2%	7%
Film, residue (creosote)	4%	Too close to combustibles	2%	6%
Rubbish, trash, waste	3%	Failure to clean	1%	4%
Structural member, framing	3%	Equipment unattended	1%	3%

<b>Equipment<sup>9</sup></b>		<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Kitchen & cooking equipment	63%	Unintentional	14%	55%
None	19%	Failure of eq. or heat source	4%	14%
Boiler, furnace, cent. heat. unit	6%	Intentional	1%	3%
Chimney, flue	4%	Undetermined	3%	11%
Electrical wiring, other	1%	Cause under investigation	4%	15%
Stove, heating	1%	Act of Nature	0.1%	0.4%

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

Alerted occupants	58%
Didn't alert occupants	11%
Undetermined	31%

<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	154	104	16	34
February	123	88	13	22
March	179	105	18	56
April	208	103	24	81
May	186	99	19	68
June	172	86	22	64
July	176	81	21	74
August	199	93	26	80
September	186	84	16	86
October	184	111	20	53
November	161	99	21	41
December	140	104	22	14

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	317	177	21	119
Monday	299	163	33	103
Tuesday	301	178	42	81
Wednesday	259	159	28	72
Thursday	282	167	31	84
Friday	300	152	46	102
Saturday	310	161	37	112

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	115	64	20	31
04:01 - 08:00	134	68	25	41
08:01 - 12:00	379	222	46	111
12:01 - 16:00	548	273	59	216
16:01 - 20:00	607	361	56	190
20:01 - 00:00	285	169	32	84

### **Motor Vehicle Fires**

Total: 238

Automobiles: 200 (84%)

1, or (1%), of the automobile fires considered intentionally-set.

## Arson Fires

**Total Arsons: 60**

**Dollar loss: \$471,761**

### 0.05 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	12	1%	20%	\$467,000
Vehicle Arsons	1	0.4%	2%	2,000
Other Arsons	47	7%	78%	2,761

0.02 Structure arsons/1,000 population

0.001 Vehicle arsons/1,000 population

0.06 Other arsons/1,000 population

1 Fire Service Injury

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	3	25%	04:01 - 08:00	1	100%
16:01 - 20:00	3	25%			
20:01 - 00:00	3	25%			

Other Arsons	#	%
16:01 - 20:00	16	34%
12:01 - 16:00	13	28%
20:01 - 00:00	9	19%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	4	33%
Apartment buildings	3	25%
High/junior high/middle schools	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>
2015	15	12	1	2	0	0	0	0
2016	45	19	3	23	0	0	0	0
2017	38	15	4	19	0	0	0	0
2018	36	13	5	18	1	0	0	1
2019	40	13	7	20	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>
2015	74	25	18	31	2	0	0	2
2016	80	29	7	44	1	0	0	1
2017	98	51	16	31	1	0	0	1
2018	117	80	18	19	2	1	0	1
2019	96	61	15	20	2	0	0	2

**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>
2015	127	57	8	62	2	0	0	2
2016	142	43	12	87	9	0	0	9
2017	81	41	6	34	2	1	0	1
2018	85	53	7	25	3	1	0	2
2019	81	37	8	36	10	2	0	8

**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>
2015	30	7	2	21	3	0	0	3
2016	19	4	3	12	1	0	0	1
2017	29	10	7	12	0	0	0	0
2018	16	2	7	7	0	0	0	0
2019	16	4	4	8	1	0	0	1



**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>
2015	122	33	11	78	1	1	0	0
2016	142	20	12	110	2	0	0	2
2017	82	17	11	54	2	0	0	2
2018	86	30	16	40	0	0	0	0
2019	67	25	15	27	2	1	0	1

**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>
2015	17	7	2	8	1	0	0	1
2016	17	8	2	7	2	0	0	2
2017	17	8	1	8	1	0	1	0
2018	19	12	2	5	0	0	0	0
2019	8	3	1	4	1	0	0	1

**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>
2015	53	42	3	8	1	1	0	0
2016	63	49	0	14	2	0	0	2
2017	29	17	5	7	1	0	0	1
2018	24	14	5	5	1	1	0	0
2019	25	14	6	5	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>
2015	117	58	11	48	2	1	0	1
2016	115	65	4	46	1	1	0	0
2017	87	42	10	35	1	0	1	0
2018	74	45	2	27	3	1	0	2
2019	84	48	8	28	1	1	0	0

**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>
2015	22	8	1	13	2	0	0	2
2016	25	5	1	19	3	0	0	3
2017	14	3	0	11	3	0	0	3
2018	10	4	0	6	2	0	0	2
2019	19	5	3	11	5	0	0	5

**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>
2015	19	9	1	9	0	0	0	0
2016	16	9	0	7	0	0	0	0
2017	12	6	0	6	3	1	0	2
2018	15	7	0	8	0	0	0	0
2019	9	7	0	2	0	0	0	0

**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>
2015	249	97	16	136	8	2	0	6
2016	270	112	25	133	4	2	1	1
2017	169	94	23	52	4	3	0	1
2018	161	97	21	43	0	0	0	0
2019	129	72	16	41	1	0	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>
2015	29	9	8	12	3	0	2	1
2016	35	12	2	21	1	0	0	1
2017	21	8	2	11	1	1	0	0
2018	16	8	2	6	1	0	1	0
2019	36	20	5	11	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>
2015	294	131	41	122	33	10	11	12
2016	253	72	31	150	27	7	7	13
2017	215	74	43	98	16	2	6	8
2018	148	45	40	63	11	4	2	5
2019	147	60	28	59	8	1	0	7

**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>
2015	524	379	30	115	0	0	0	0
2016	459	323	23	113	13	5	2	6
2017	442	309	29	104	8	1	1	6
2018	323	209	26	88	6	3	0	3
2019	367	248	19	100	9	3	1	5

**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>
2015	62	33	4	25	0	0	0	0
2016	112	61	7	44	6	1	0	5
2017	100	72	4	24	6	0	0	6
2018	76	56	7	13	0	0	0	0
2019	85	65	6	14	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>
2015	20	12	0	8	0	0	0	0
2016	21	11	3	7	0	0	0	0
2017	16	5	2	9	1	0	0	1
2018	5	2	3	0	0	0	0	0
2019	10	4	1	5	0	0	0	0

**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>
2015	22	10	1	11	2	0	0	2
2016	31	14	2	15	0	0	0	0
2017	39	20	0	19	0	0	0	0
2018	40	26	2	12	1	0	0	1
2019	34	22	0	12	0	0	0	0

**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>
2015	39	16	6	17	8	0	0	8
2016	38	15	4	19	5	0	0	5
2017	54	34	4	16	4	0	0	4
2018	28	10	5	13	2	0	0	2
2019	27	14	4	9	3	0	0	3

**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>
2015	135	41	21	73	8	2	2	4
2016	163	44	19	100	8	0	1	7
2017	112	38	17	57	6	1	0	5
2018	116	31	18	67	0	0	0	0
2019	91	22	25	44	3	0	0	3

**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>
2015	54	22	6	26	1	0	0	1
2016	36	7	2	27	0	0	0	0
2017	29	14	3	12	0	0	0	0
2018	21	10	2	9	0	0	0	0
2019	32	9	3	20	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>
2015	14	8	2	4	0	0	0	0
2016	16	9	1	6	1	0	0	1
2017	10	7	0	3	1	1	0	0
2018	14	10	0	4	0	0	0	0
2019	4	4	0	0	0	0	0	0

**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>
2015	18	6	3	9	3	0	0	3
2016	9	1	1	7	1	0	0	1
2017	57	43	4	10	0	0	0	0
2018	18	14	2	2	0	0	0	0
2019	Non-Reporting Community							

**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>
2015	26	16	8	2	0	0	0	0
2016	13	10	0	3	0	0	0	0
2017	13	9	2	2	0	0	0	0
2018	7	3	2	2	0	0	0	0
2019	17	11	3	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>
2015	125	81	11	33	3	1	0	2
2016	127	67	5	55	7	3	0	4
2017	82	53	9	20	3	0	0	3
2018	110	81	12	17	2	0	1	1
2019	89	49	8	32	2	1	0	1

<b>Peabody</b>					<b>Population: 51,251</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>
2015	150	60	17	73	0	0	0	0
2016	49	35	2	12	0	0	0	0
2017	153	73	16	64	2	2	0	0
2018	156	87	18	51	0	0	0	0
2019	124	82	13	29	1	0	0	1

<b>Rockport</b>					<b>Population: 6,952</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>
2015	Non-Reporting Community							
2016 <sup>11</sup>	23	17	3	3	0	0	0	0
2017	20	11	1	8	1	1	0	0
2018	4	3	0	1	0	0	0	0
2019	Non-Reporting Community							

<b>Rowley</b>					<b>Population: 5,856</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>
2015	41	27	5	9	0	0	0	0
2016	56	33	3	20	0	0	0	0
2017	37	31	4	2	0	0	0	0
2018	39	32	0	7	0	0	0	0
2019	50	34	7	9	0	0	0	0

<b>Salem</b>					<b>Population: 41,340</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>
2015	198	60	12	123	1	0	0	1
2016	174	59	10	105	3	0	0	3
2017	165	61	15	89	1	1	0	0
2018	136	61	7	68	0	0	0	0
2019	117	54	9	54	4	3	0	1

<sup>11</sup> Rockport submitted their 2016 incidents after the annual database was closed for analysis. These 23 fires were not included in the analysis.

**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>
2015	42	8	6	28	0	0	0	0
2016	55	14	3	38	2	0	0	2
2017	39	9	5	25	1	0	0	1
2018	28	10	3	15	0	0	0	0
2019	23	9	0	14	0	0	0	0

**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>
2015	116	47	10	59	1	1	0	0
2016	164	58	18	88	0	0	0	0
2017	118	45	12	61	0	0	0	0
2018	92	41	6	45	2	0	0	2
2019	109	57	13	39	1	0	0	1

**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>
2015	28	15	1	12	1	0	0	1
2016	38	16	0	22	1	0	0	1
2017	27	10	1	16	1	0	0	1
2018	36	9	2	25	2	0	0	2
2019	12	6	1	5	1	0	0	1

**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>
2015	93	68	5	20	0	0	0	0
2016	104	80	5	19	0	0	0	0
2017	70	64	0	6	0	0	0	0
2018	93	82	5	6	0	0	0	0
2019	104	91	6	7	0	0	0	0

**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>
2015	11	4	2	5	0	0	0	0
2016	6	2	0	4	0	0	0	0
2017	7	3	0	4	1	0	0	1
2018	3	0	0	3	0	0	0	0
2019	8	4	1	3	0	0	0	0

**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>
2015	11	6	1	4	0	0	0	0
2016	17	10	2	5	0	0	0	0
2017	10	8	1	1	0	0	0	0
2018	8	6	1	1	0	0	0	0
2019	8	3	3	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
09007	Amesbury	3,766	43	8	2,255	136	632	270	408	3	11
09009	Andover	3,637	102	3	1,414	597	378	171	967	2	3
09030	Beverly	4,923	84	10	2,783	300	313	335	1,075	8	15
09038	Boxford	780	16	0	432	32	69	43	184	0	4
09071	Danvers	7,317	67	2	3,317	149	2,582	327	789	11	73
09092	Essex	600	10	1	321	30	106	42	88	1	1
09105	Georgetown	1,231	30	2	671	58	228	77	164	1	0
09107	Gloucester	5,713	87	1	3,697	173	526	518	677	6	28
09116	Groveland	635	27	2	402	38	53	39	74	0	0
09119	Hamilton	778	10	0	333	42	131	29	213	14	6
09128	Haverhill	7,190	135	9	3,960	313	782	758	1,224	2	7
09144	Ipswich	2,164	37	1	937	65	352	401	363	3	5
09149	Lawrence	7,682	149	13	3,111	1,143	443	620	2,180	3	20
09163	Lynn	14,285	386	14	8,430	302	1,613	1,138	2,372	11	19
09164	Lynnfield	2,021	89	0	1,242	70	222	117	273	8	0
09166	Manchester	1,292	13	4	546	71	345	71	228	9	5

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

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
09168	Marblehead	2,778	34	6	1,342	153	420	287	491	20	25
09180	Merrimac	1,023	33	4	647	42	69	99	126	3	0
09181	Methuen	8,648	95	6	6,161	548	489	323	993	2	31
09184	Middleton	2,048	37	3	1,006	55	270	165	504	0	8
09196	Nahant	608	4	0	315	29	120	47	91	0	2
09205	Newbury**	0	0	0	0	0	0	0	0	0	0
09206	Newburyport	19	17	0	2	0	0	0	0	0	0
09210	North Andover	4,723	90	0	2,961	390	265	220	786	0	11
09229	Peabody	5,897	124	6	3,617	253	372	416	1,100	4	5
09252	Rockport**	0	0	0	0	0	0	0	0	0	0
09254	Rowley	800	64	0	405	32	48	146	104	0	1
09258	Salem	7,703	117	5	4,239	456	862	289	1,648	83	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
09259	Salisbury	2,384	23	1	1,259	98	560	252	188	2	1
09262	Saugus	4,859	110	2	3,151	217	387	299	631	3	59
09291	Swampscott	832	14	2	477	39	105	50	137	0	8
09298	Topsfield	1,850	104	1	738	78	701	78	148	0	2
09320	Wenham	810	8	1	404	52	198	29	118	0	0
09324	West Newbury	447	13	1	210	18	96	42	62	5	0
	<b>Essex County</b>	<b>109,443</b>	<b>2,172</b>	<b>108</b>	<b>60,785</b>	<b>5,979</b>	<b>13,737</b>	<b>7,698</b>	<b>18,406</b>	<b>204</b>	<b>354</b>

\* Certified no reportable fires.

\*\*Non reporting department.

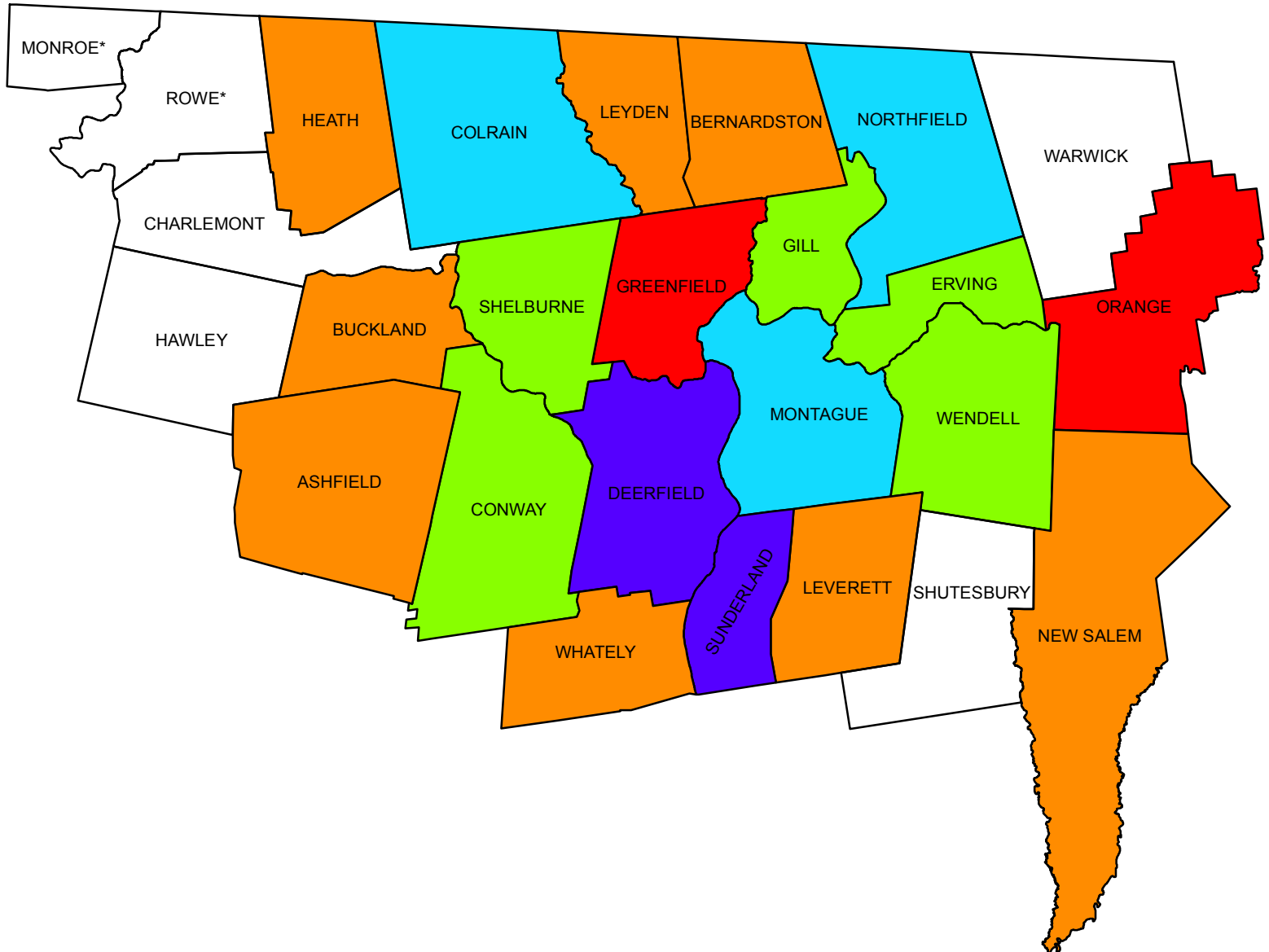
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



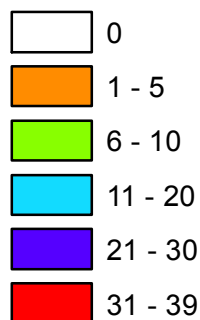
# Franklin County

## 2019 Fire Data Analysis

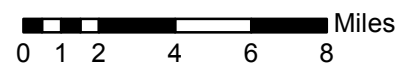
# Franklin County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2019

# Franklin County Fires in 2019

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## **224 Total Fires — 103 Structures, 28 Motor Vehicles & 93 Outside or Other Fires**

Franklin County ranked twelfth out of the fourteen Massachusetts counties in total fires. Franklin County fire departments reported 224 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 103 structure fires, 28 motor vehicle fires, 35 brush, tree or lawn fires, 32 outside rubbish fires, 10 special outside fires, and 16 unclassified fires caused two civilian injuries, six fire service injuries and an estimated dollar loss of \$2.5 million. Franklin County's fires accounted for 1% of the 25,176 Massachusetts fires reported in 2019.

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 2018.

## **All Fires Down**

The total number of reported fire incidents decreased by 72, or 24%, from the 296 reported in 2018. Reported structure fires decreased by 44 from the 147 reported during the previous year. Motor vehicle fires decreased by 11 from the 39 reported in 2018. Outside and other fires decreased by 17 from the 110 reported the year before.<sup>1</sup>

## **FRANKLIN COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	314	159	35	120	15	3	1	11
2016	342	158	26	158	16	3	0	13
2017	253	118	22	113	18	4	0	14
2018	296	147	39	110	11	2	0	9
2019	224	103	28	93	13	1	1	11

## **Fire and Fire Death Rates**

Franklin County had 3.1 fires per 1,000 population. That figure ranks Franklin County eighth in the state and below the state rate of 3.8 fires per 1,000 population. Franklin County had 0 fire deaths per 10,000 population ranking it tied for last among Massachusetts counties and below the state rate of 0.06 fire deaths per 10,000 population.

## **0 Civilian Fire Deaths in Franklin County**

Franklin County did not have any fatal fires in 2019.

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

Franklin County did not report any fires with an estimated loss greater than \$1 million. However they did report 12 fires with a dollar loss between \$100,000 and \$999,999,

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<sup>1</sup> 2019 was another down year for brush fires statewide.

accounting for \$2.1 million in losses and 81% of the county's total fire loss. Conway had the county's largest loss fire.

- On July 31, 2019, at 1:12 a.m., the Conway Fire Department was called to a fire in a single-family home of undetermined cause. No one was injured at this fire. It was undetermined if alarms or sprinklers were present. Damages from this fire were estimated to be \$250,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 103 structure fires caused two civilian injuries, four fire service injuries, and an estimated dollar loss of \$1.7 million. These incidents represented 46% of Franklin County's reported fires in 2019. The average estimated dollar loss per structure fire was \$16,401. The total number of reported structure fires decreased by 44, or 30%, from the 147 reported in 2018.

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

There was one reported structure arson in Franklin County in 2019. Arson was indicated as the cause of 1% of the structure fires and 0% of Franklin County's structure fire dollar loss. The one structure arson accounted for 8% of the Franklin County arson fires reported in 2019. The total number of reported structure arsons decreased by one from the two reported in 2018.

### **1 Structure Arson Occurred in a Residence**

The single Franklin County's structure arson in 2019 occurred in a residential property.

## **BUILDING FIRES**

There were 103 building fires of different types in Franklin County in 2019. These 103 building fires accounted for 100% of the structure fires in Franklin County.

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

Eighty-seven (87), or 84%, of Franklin County's 103 building fires occurred in residential occupancies. Storage facilities had eight fires. Educational facilities and institutional facilities each had two fires. Public assembly properties, mercantile or business properties; institutional facilities; and manufacturing facilities each had one fire.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

There were 87 reported residential building fires in Franklin County in 2019. These 87 fires are a decrease of 49, or 36%, from the 136 residential building fires reported in 2018.

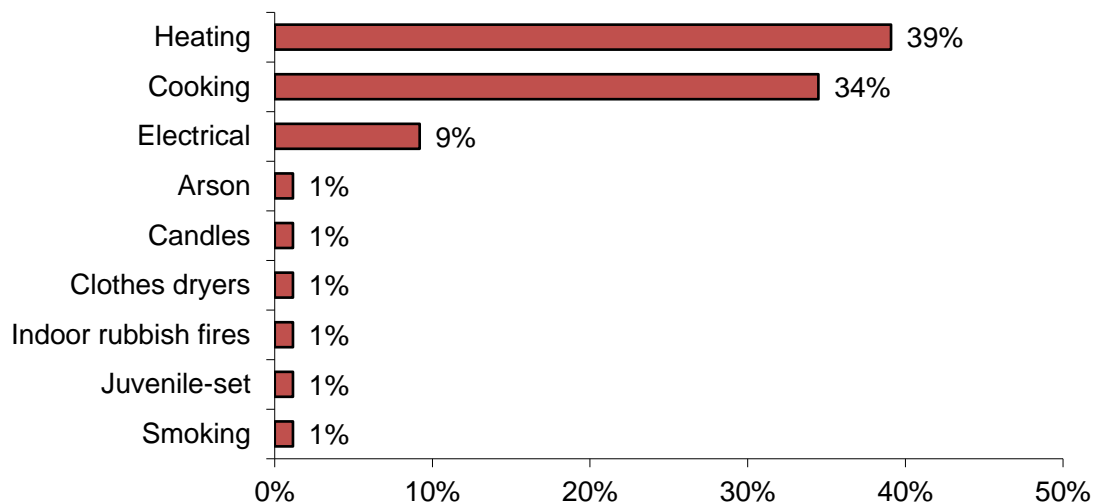
### 1- & 2-Family Homes Accounted for 71% of Residential Building Fires

The peak fixed property uses for residential building fires were one- & two-family homes, accounting for 71% of the building fires in Franklin County; and 29% occurred in apartments.

### Heating Was Leading Cause of Residential Fires

Heating was the leading cause of residential fires in Franklin County in 2019. Thirty-nine percent (39%) of the residential fires were caused by heating equipment. This is a return to when Franklin County was the only county where cooking was not the leading cause of residential fires. Unattended cooking and other unsafe cooking practices accounted for 34% of the fires in people's homes. Electrical problems caused 9% of these fires. Arsons, candles, clothes dryers, indoor rubbish fires, juvenile-set fires, and smoking each caused 1% of the fires in people's homes in Franklin County in 2019.

### 2019 Leading Causes of Fires in Franklin County Homes



### 66% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

Fifty-seven (57), or 66%, of these fires were confined to a non-combustible container. Twenty-six (26) of the reported fires were cooking fires contained to a non-combustible container, accounting for 30% of residential building fires. Twenty-eight (28), or 32%, of all residential building fires reported in 2019 were fires confined to a chimney or flue. Two (2), or 2%, were fires confined to a fuel burner or boiler malfunction. One (1), or

<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.

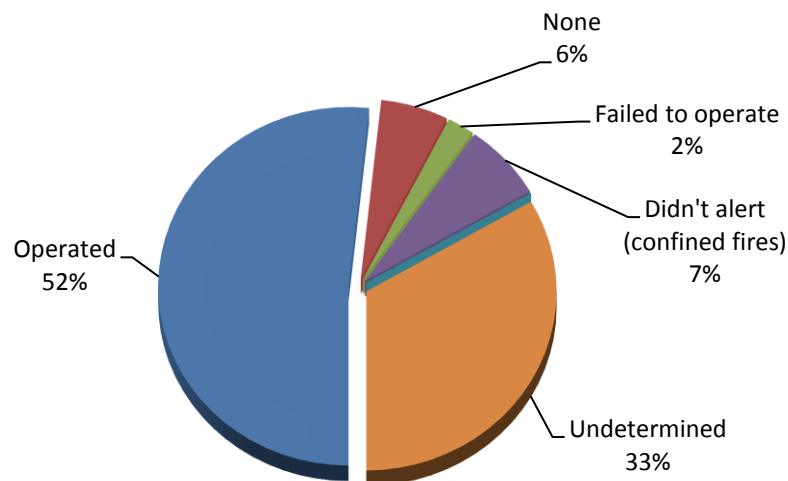


1%, of these fires was an indoor rubbish fire contained to a non-combustible container in Franklin County in 2019.

### **Detectors Operated in Over 1/2 of Fires**

Smoke or heat detectors operated and alerted the occupants in 45, or 52%, of the residential building fires. In 7% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these fires. In 6% of these fires, no detectors were present at all. There were no reported fires where the fire was too small to trigger the detector. Smoke detector performance was undetermined in 29 incidents, or 33%, of Franklin County's residential building fires.

## **Detector Status in Franklin County's Residential Structure Fires 2019**



### **VACANT BUILDINGS**

#### **1% of Building Fires Occurred in Vacant Buildings**

Franklin County reported two fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 103 building fires reported to MFIRS in 2019. Both fires occurred at vacant storage properties.

None of the vacant building fires in Franklin County in 2019 were determined to be intentionally-set.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.

## **JUVENILE-SET FIRES**

### **2 Juvenile-set Fires**

There were two reported juvenile-set fire in Franklin County in 2019. The one structure fire and one brush fire caused an estimated \$45,000 in damages.

## **ARSONS**

### **13 Total Arsons — 1 Structure, 1 MV & 11 Other Arsons**

Thirteen (13), or 6%, of Franklin County's 224 fires were intentionally-set, or, for purposes of this analysis, arson. The one structure arson, one motor vehicle arson and 11 outside and other arsons caused one fire service injury and \$3,000 in estimated damages.

### **All Arson Up Slightly**

The number of arsons increased by two, or 18%, from the 11 reported in 2018. Structure arsons decreased by one from two in 2018. Motor vehicle arsons increased by one from none in 2018. Outside and other arsons increased by two from the nine reported in 2018.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 56% of All Reported Responses**

In 2019, Franklin County fire departments reported 8,949 responses<sup>4</sup> to MFIRS. Of these 8,949 incidents, 8,571 non-fire calls were voluntarily reported.

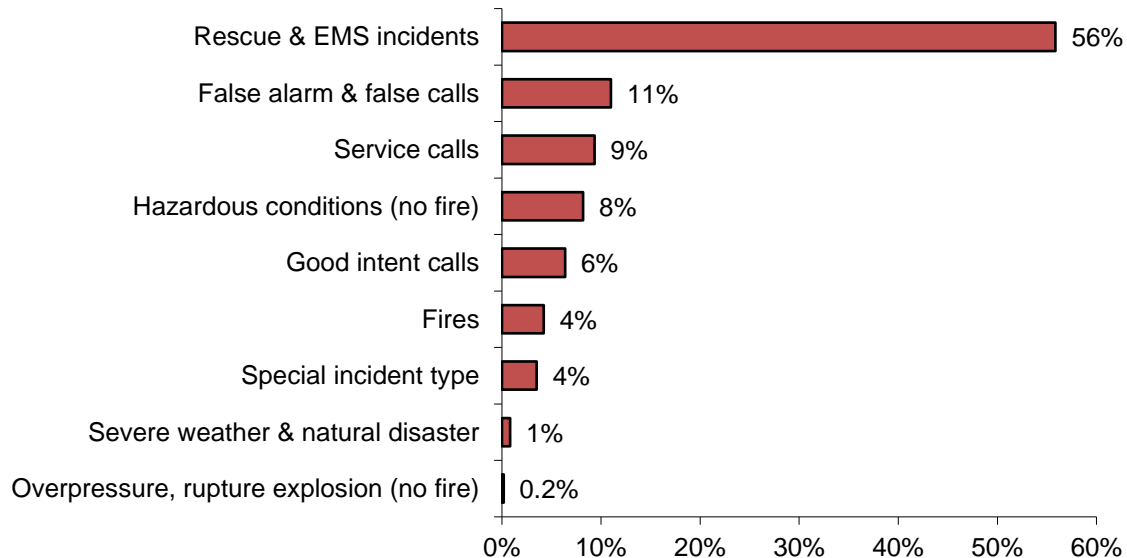
Of these 8,571 non-fire calls, 4,999 , or 56%, of all of the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 1,028, or 11%, were reported false alarm or false calls; 837, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 734, or 8%, were reported hazardous condition calls with no fire; 571, or 6%, were reported good intent calls; 314, or 4%, were special incident type calls such as citizen complaints; 73, or 1%, were severe weather responses; and 15, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Three hundred and seventy-eight (378), or 4%, of the total incidents submitted by Franklin County fire departments were fires.

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<sup>4</sup> These figures include responses in which Franklin County fire departments gave mutual aid to other fire departments.

## 2019 Responses by Incident Type



### Franklin County Fire Departments Gave Mutual Aid 703 Times

In 2019, Franklin County fire departments reported coming to the aid of other fire departments 703 times. Of these 703 responses, 444, or 57%, were for rescue or EMS calls; 147, or 21%, were for fires; 55, or 8%, were for service calls such as cover assignments; 54, or 8%, were for good intent calls; 26, or 4%, were for hazardous conditions calls with no fire; 11, or 2%, were for false alarms or false calls; and six, or 1%, were for severe weather or natural disaster calls.

### Franklin County Received Mutual Aid in 449 Incidents

In 2019, Franklin County fire departments reported receiving aid from surrounding departments in 449 incidents. Of these 449 incidents, 367, or 82%, were rescue and emergency medical services calls; 42, or 9%, were for fires; 16, or 4%, were hazardous conditions calls with no fire; nine, or 2%, were false alarm or false calls; seven, or 2%, were service calls; three, or 1%, were good intent calls; three, or 1%, were overpressure or rupture explosions with no ensuing fire calls; and two, or 0.4%, were severe weather calls.

**Franklin County****Population: 71,372****3.1 Fires/1,000 Population****Total Fires: 224 \$2,538,887**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	103	46%	\$1,689,308
Vehicle Fires	28	13%	339,500
Other Fires	93	42%	510,079

0 Fatal Fires 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Deaths 0.00 Civilian Deaths/10,000 Population  
 2 Civilian Injuries 6 Fire Service Injuries

**Building Fires: 103****Residential Structure Fires: 87****Residential Structure Fires Confined to Non-Combustible Containers: 57****Unconfined Residential Structure Fires: 30**

2 Civilian Injuries 4 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	62	71%	Operated	45	52%
Apartments	25	29%	Didn't operate	5	2%
			None	5	6%
			Fire too small	0	0%
			Didn't Alert (confined)	6	7%
			Undetermined	29	33%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	40%	Radiated heat from oper. eq.	8%	23%
Chimney or flue	32%	Arcing	5%	13%
Bedroom	3%	Hot ember or ash	5%	13%
Structural area, other	3%	Heat from oper. equip. other	5%	13%
Heating room or area	2%			

<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>
Cooking materials	34%	Equipment unattended	22%	63%
Film, residue (creosote)	32%	Failure to clean	8%	23%
Structural member, framing	7%	Misuse of materials, other	5%	13%
Flamm. or combustible liquid	2%	Too close to combustibles	3%	10%
Linen, other than bedding	2%	Electrical fail/malfunc.	3%	10%
Box, carton, bag	2%	Abandoned materials	2%	7%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Chimney or flue	34%	Unintentional	22%	63%
Cooking equipment	30%	Failure of eq. or heat source	10%	30%
None	17%	Intentional	0%	0%
Stove, heating	3%	Act of nature	0%	0%
Boiler, furnace, cent. heat. unit	2%	Cause under investigation	1%	3%
		Undetermined	1%	3%

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

Alerted occupants	53%
Didn't alert occupants	11%
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	20	16	0	4
February	21	14	2	5
March	20	14	0	6
April	34	9	4	21
May	9	4	1	46
June	10	4	2	4
July	12	4	6	2
August	22	4	4	14
September	19	8	1	10
October	18	8	2	8
November	21	8	4	9
December	18	10	2	6

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	32	15	2	15
Monday	32	19	2	11
Tuesday	34	15	6	13
Wednesday	31	10	3	18
Thursday	37	18	5	14
Friday	28	12	4	12
Saturday	30	14	6	10

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	11	7	2	2
04:01 - 08:00	18	11	2	5
08:01 - 12:00	39	18	5	16
12:01 - 16:00	71	22	7	42
16:01 - 20:00	57	26	8	23
20:01 - 00:00	28	19	5	5

### **Motor Vehicle Fires**

Total: 28

Automobiles: 24 (86%)

1, or 4%, of the automobile fires were considered intentionally-set.

## Arson Fires

**Total Arsons: 13**

**Dollar loss: \$3,000**

### 0.2 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	1	1%	8%	\$0
Vehicle Arsons	1	4%	8%	3,000
Other Arsons	11	12%	85%	0

0.01 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.15 Other arsons/1,000 population

1 Fire Service Injury

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 - 20:00	1	100%	12:01 - 16:00	1	100%

Other Arsons	#	%
16:01 - 20:00	5	45%
08:01 - 12:00	3	27%
12:01 - 16:00	2	18%

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

**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>
2015	23	10	8	5	0	0	0	0
2016	15	3	1	11	0	0	0	0
2017	7	2	0	5	0	0	0	0
2018	8	5	0	3	0	0	0	0
2019	4	2	0	2	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>
2015	5	2	0	3	0	0	0	0
2016	7	2	0	5	0	0	0	0
2017	4	0	1	3	0	0	0	0
2018	6	2	2	2	0	0	0	0
2019	1	1	0	0	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>
2015	11	2	0	9	1	0	0	1
2016	5	0	1	4	0	0	0	0
2017	5	1	0	4	0	0	0	0
2018	8	3	0	5	2	0	0	2
2019	2	0	1	1	0	0	0	0

**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>
2015	16	7	1	8	0	0	0	0
2016	7	1	1	5	0	0	0	0
2017	5	2	1	2	0	0	0	0
2018	Non-Reporting Community							
2019 <sup>11</sup>	Fire Department in Good Standing, Certified No Reportable Fires							

<sup>11</sup> In 2019 Charlemont did report 27 total incidents.



<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>
2015	10	4	0	6	2	0	0	2
2016	13	5	0	8	0	0	0	0
2017	8	4	1	3	0	0	0	0
2018	14	5	2	7	0	0	0	0
2019	11	4	2	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>
2015	6	6	0	0	0	0	0	0
2016	7	5	0	2	0	0	0	0
2017	9	7	0	2	0	0	0	0
2018	3	1	1	1	0	0	0	0
2019	8	8	0	0	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>
2015	Non-Reporting Community							
2016	2	0	0	2	1	0	0	1
2017	4	1	0	3	0	0	0	0
2018	11	0	6	5	1	0	0	1
2019	4	0	2	2	0	0	0	0

<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>
2015	10	4	0	6	2	0	0	2
2016	6	1	2	3	0	0	0	0
2017	13	4	2	7	3	0	0	3
2018	9	4	1	4	0	0	0	0
2019	19	3	0	16	0	0	0	0

<b>Erving</b>								<b>Population: 1,800</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>	
2015	6	2	0	4	0	0	0	0	
2016	15	7	1	7	1	1	0	0	
2017	6	2	2	2	0	0	0	0	
2018	5	3	0	2	0	0	0	0	
2019	8	4	1	3	1	0	0	1	

<b>Gill</b>								<b>Population: 1,500</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>	
2015	9	2	0	7	1	0	0	1	
2016	7	1	0	6	1	0	0	1	
2017	7	3	0	4	2	0	0	2	
2018	8	4	2	2	0	0	0	0	
2019	6	2	1	3	0	0	0	0	

<b>Greenfield</b>								<b>Population: 18,745</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>	
2015	44	23	5	16	2	1	0	1	
2016	68	40	5	23	2	0	0	2	
2017	58	30	6	22	7	2	0	5	
2018	57	29	6	22	2	1	0	1	
2019	39	22	6	11	2	0	0	2	

<b>Hawley</b>								<b>Population: 337</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>	
2015	1	1	0	0	0	0	0	0	
2016	2	0	0	2	0	0	0	0	
2017	3	2	0	1	0	0	0	0	
2018 <sup>12</sup>	0	0	0	0	0	0	0	0	
2019 <sup>13</sup>	Fire Department in Good Standing, Certified No Reportable Fires								

<sup>12</sup> In 2018 Hawley did report 23 total incidents.

<sup>13</sup> In 2019 Hawley did report 19 total incidents.

**Heath** **Population: 706**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	5	4	0	1	0	0	0	0
2016	5	2	1	2	0	0	0	0
2017	3	2	1	0	0	0	0	0
2018 <sup>14</sup>	0	0	0	0	0	0	0	0
2019	3	3	0	0	0	0	0	0

**Leverett** **Population: 1,851**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	12	9	1	2	1	1	0	0
2016	10	6	0	4	2	0	0	2
2017	7	4	1	2	2	1	0	1
2018	12	4	2	6	2	0	0	2
2019	5	2	0	3	0	0	0	0

**Leyden** **Population: 711**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	5	2	0	3	1	0	0	1
2016	3	2	0	1	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	4	3	1	0	0	0	0	0
2019	4	2	1	1	0	0	0	0

**Monroe** **Population: 121**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	Non-Reporting Community							
2016	Non-Reporting Community							
2017	Non-Reporting Community							
2018	Non-Reporting Community							
2019	Non-Reporting Community							

<sup>14</sup> In 2018 Heath did report 20 total incidents.

**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>
2015	9	8	0	1	2	1	0	1
2016	10	5	0	5	2	1	0	1
2017	14	6	1	7	0	0	0	0
2018	8	4	0	4	0	0	0	0
2019	1	1	0	0	0	0	0	0

**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>
2015	38	22	3	13	1	0	0	1
2016	32	19	2	11	1	0	0	1
2017	23	15	2	6	1	0	0	1
2018	20	11	1	8	0	0	0	0
2019	18	6	2	10	5	1	0	4

**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>
2015	1	0	0	1	0	0	0	0
2016	4	2	1	1	0	0	0	0
2017	6	1	0	5	0	0	0	0
2018	7	3	1	3	0	0	0	0
2019	2	0	1	1	0	0	0	0

**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>
2015	15	6	2	7	2	0	1	1
2016	13	6	1	6	0	0	0	0
2017	8	2	1	5	0	0	0	0
2018	10	6	0	4	0	0	0	0
2019	13	6	2	5	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>
2015	50	19	9	22	0	0	0	0
2016	48	19	3	26	2	0	0	2
2017	22	4	1	17	1	0	0	1
2018	46	24	8	14	0	0	0	0
2019	32	13	6	13	2	0	1	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>
2015	1	0	1	0	0	0	0	0
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Non-Reporting Community							
2019	Non-Reporting Community							

**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>
2015	Non-Reporting Community							
2016	3	1	1	1	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	8	4	2	2	0	0	0	0
2019	1	1	0	0	0	0	0	0

***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>
2015	4	2	1	1	0	0	0	0
2016	3	2	0	1	1	1	0	0
2017	2	0	0	2	0	0	0	0
2018	3	2	0	1	0	0	0	0
2019	7	1	0	6	1	0	0	1

<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>
2015	7	6	1	0	0	0	0	0
2016	2	1	1	0	0	0	0	0
2017	2	1	0	1	0	0	0	0
2018	4	3	0	1	0	0	0	0
2019	Fire Department in Good Standing, Certified No Reportable Fires							

<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>
2015	10	8	1	1	0	0	0	0
2016	34	22	1	11	1	0	0	1
2017	29	22	0	7	2	1	0	1
2018	32	20	2	10	1	0	0	1
2019	28	18	2	8	1	0	0	1

<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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	1	0	1	0	0	0	0	0
2017	2	2	0	0	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	Fire Department in Good Standing, Certified No Reportable Fires							

<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>
2015	8	6	1	1	0	0	0	0
2016	9	4	1	4	0	0	0	0
2017	3	1	2	0	0	0	0	0
2018	7	5	1	1	1	0	0	1
2019	7	4	0	3	1	0	0	1

<b>Whately</b>					<b>Population: 1,496</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>
2015	3	2	0	1	0	0	0	0
2016	11	2	2	7	2	0	0	2
2017	3	0	0	3	0	0	0	0
2018	4	0	1	3	1	0	0	1
2019	1	0	1	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	182	18	0	101	39	14	2	8	0	0
11029	Bernardston	63	5	0	33	8	8	2	6	1	0
11047	Buckland	66	4	0	22	25	6	2	6	1	0
11053	Charlemont	27	1	0	14	8	0	0	4	0	0
11066	Colrain	214	28	0	139	22	12	2	9	2	0
11068	Conway	49	14	0	4	17	1	2	11	0	0
11975	Deerfield	142	11	0	18	14	8	15	76	0	0
11091	Erving	261	16	0	113	13	59	7	40	13	0
11106	Gill	115	9	1	11	20	42	10	18	2	2
11114	Greenfield	2,901	56	2	1,828	258	174	215	352	12	4
11129	Hawley	19	1	0	10	3	0	0	4	1	0
11130	Heath	61	5	2	39	9	0	5	1	0	0
11154	Leverett	163	9	0	84	30	11	11	12	6	0
11156	Leyden	18	4	0	1	5	3	1	0	3	1
11190	Monroe**	0	0	0	0	0	0	0	0	0	0

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



## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
11192	Montague Center	1	1	0	0	0	0	0	0	0	0
11204	New Salem	126	8	0	65	26	9	11	7	0	0
11217	Northfield	139	16	0	15	29	31	7	41	0	0
11223	Orange	2,473	43	4	1,545	69	292	86	132	28	274
11253	Rowe**	0	0	0	0	0	0	0	0	0	0
11990	Shelburne Ctr	2	1	0	0	1	0	0	0	0	0
11989	Shelburne Falls	107	14	0	19	16	8	9	40	1	0
11272	Shutesbury*	0	0	0	0	0	0	0	0	0	0
11976	South Deerfield	227	34	2	28	42	8	27	86	0	0
11289	Sunderland	162	31	1	33	23	8	10	56	0	0
11984	Turners Falls	1,310	33	3	813	41	132	146	106	3	33
11312	Warwick*	0	0	0	0	0	0	0	0	0	0
11319	Wendell	72	11	0	42	12	3	0	4	0	0
11337	Whately	49	5	0	22	4	8	1	9	0	0
<b>Total</b>	<b>Franklin County</b>	<b>8,949</b>	<b>378</b>	<b>15</b>	<b>4,999</b>	<b>734</b>	<b>837</b>	<b>571</b>	<b>1,028</b>	<b>73</b>	<b>314</b>

\* Certified no reportable fires.

\*\*Non reporting department.

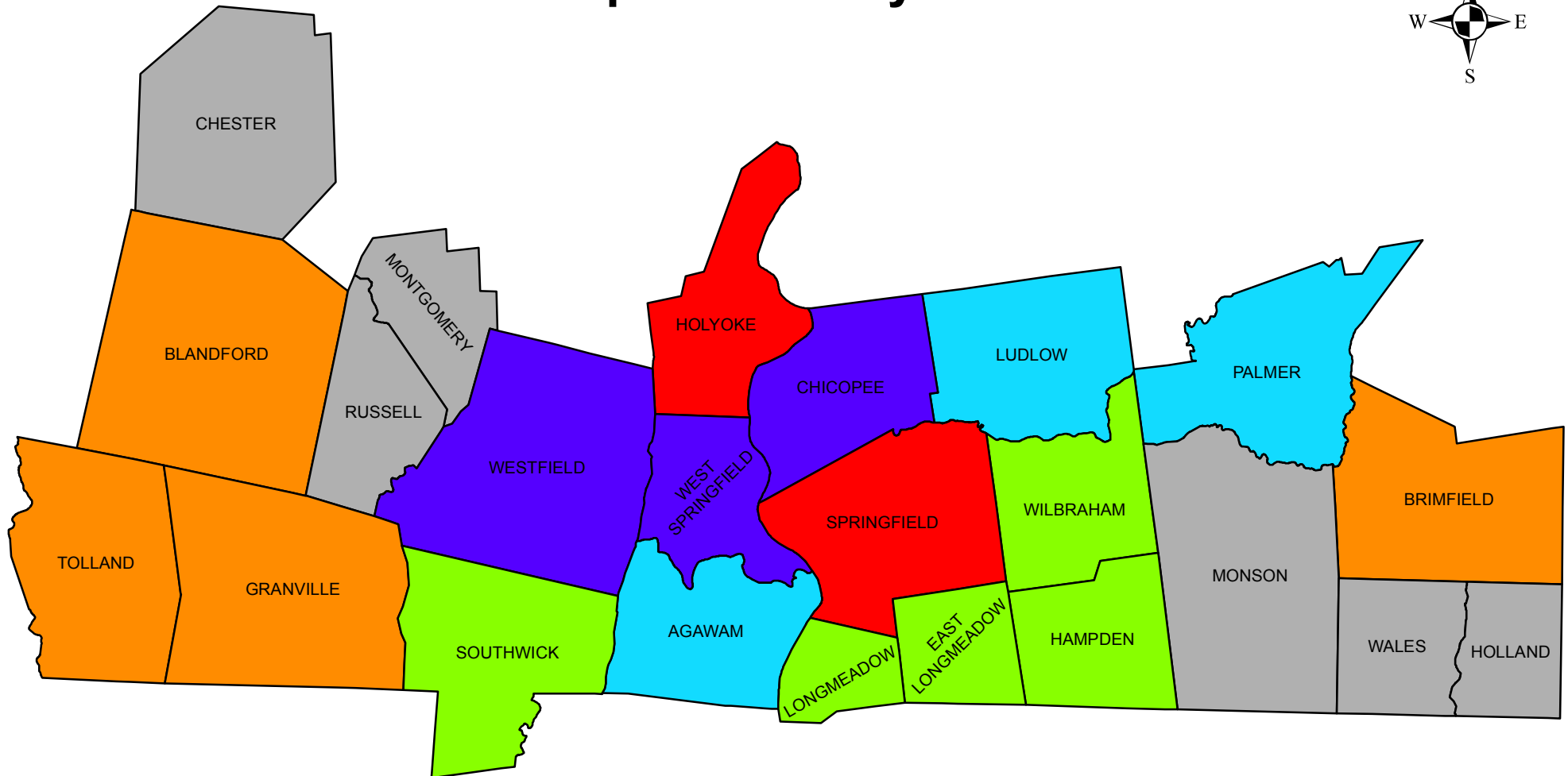
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that want to send all of their responses to do so.



# Hampden County

## 2019 Fire Data Analysis

# Hampden County Fires 2019

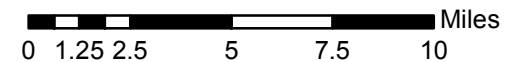


## 2019 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System

\*Non-reporting Department



Massachusetts Fire Incident Reporting System 2019

# Hampden County Fires in 2019

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## **1,584 Total Fires — 885 Structures, 250 Vehicles & 449 Other Fires**

Hampden County ranked sixth out of the fourteen Massachusetts counties in total reported fires. Hampden County fire departments reported 1,584 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 885 structure fires, 250 motor vehicle fires, 208 brush, tree or lawn fires, 106 outside rubbish fires, 42 special outside fires, and 93 other fires caused four civilian fire deaths, 28 civilian injuries, 54 fire service injuries and an estimated dollar loss of \$12.5 million. Hampden County's 1,584 fires accounted for 6% of the 25,176 fire incidents reported to MFIRS in 2019.

Twenty-four (24), or 96%, 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 2019.

## **Structure Fires Down**

The total number of reported fire incidents increased by 36 from the 1,548 reported in 2018. Reported structure fires decreased by 30 from the 915 reported during the previous year. Motor vehicle fires increased by 33 from the 217 reported during 2018. Outside and other fires increased by 33 from the 416 reported the year before.<sup>1</sup>

## **HAMPDEN COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	2,076	1,021	228	827	105	29	15	61
2016	2,135	1,034	215	886	94	21	12	61
2017	1,652	947	224	481	60	18	11	31
2018	1,548	915	217	416	78	28	13	37
2019	1,584	885	250	449	72	23	21	28

## **Fire and Fire Death Rates**

Hampden County had 3.4 fires per 1,000 population. That figure ranks Hampden County tied for fifth in the state and below the state rate of 3.8 fires per 1,000 population. Hampden County also had 0.09 fire deaths per 10,000 population ranking it fourth among Massachusetts counties and above the state rate of 0.06 fire deaths per 10,000 population.

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

In 2019, Hampden County had four fatal fires that killed four people.

- On March 9, 2019, at 6:19 a.m., the Springfield Fire Department was called to a fatal cooking fire in a 349-unit apartment building. The fire was caused by an electrical stove igniting nearby linen. The victim was a 71-year old woman whose clothes caught fire. She was transported to a hospital where she succumbed to her injuries

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<sup>1</sup> 2019 was another down year for brush fires throughout the state.

months later. No one else was injured at this fire. Alarms were present and alerted the occupants of the building. The sprinklers extinguished the fire prior to the fire department's arrival. Damages from this fire were estimated to be \$102,000.

- On September 25, 2019, at 5:51 p.m., the Brimfield Fire Department was called to a fatal arson fire in a single-family home. The victim, a 56-year old man poured gasoline on the floor and ignited it, attempting suicide by self-immolation. No one else was injured at this fire. Alarms were present and operated. The home was not sprinklered. Damages from this fire were estimated to be \$67,000.
- On November 22, 2019, at 10:08 p.m., the Springfield Fire Department was called to a fatal fire in a vacant single-family home of undetermined cause. The most likely cause was the victim, a 50-year old man who was a squatter, started a fire in the fireplace to keep warm. Two (2) firefighters were also injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from the fire were estimated to be \$95,000.
- On December 3, 2019, at 1:04 a.m., the Springfield Fire Department was called to a fatal cooking fire in a single-family home. The fire was started by a gas stove in the kitchen. The victim was an 85-year old physically disabled man who was unable to attempt an escape. It is believed the use of home oxygen helped the fire spread more quickly. 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 \$105,000.

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

There was one reported large loss fire in Hampden County in 2019 with a dollar greater than \$1 million. This fire accounted for a combined dollar loss of \$2 million and 16% of the county's total dollar loss for 2019.

- On March 9, 2019, at 6:13 a.m., the Palmer Fire Department was dispatched to a fire at Palmer High School. The fire was believed to have started by spontaneous combustion of rags saturated in linseed oil in a trash can. No one was injured at this fire. Alarms were present and operated. The building did not have sprinklers. Damages from this fire were estimated to be \$2 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 885 structure fires caused all four of the civilian deaths, 21 civilian injuries, 51 fire service injuries and an estimated dollar loss of \$10.4 million. These incidents represented 56% of Hampden County's reported fires in 2019. The average estimated dollar loss per structure fire was \$11,793. The total number of reported structure fires decreased by 30, or 3%, from the 915 reported in 2018.

**Arson Caused 3% of Structure Fires**

The 23 structure arsons caused one civilian death, one fire service injury and an estimated dollar loss of \$223,500. Arson was indicated as the cause of 3% of the structure fires and 2% of Hampden County's structure fire dollar loss. The 23 structure arsons accounted for 32% of the Hampden County arson fires reported in 2019. The total number of reported structure arsons decreased by five, or 18%, from the 28 reported in 2018.

**65% of Structure Arsons Occurred in Residences**

Sixty-five percent (65%) of Hampden County's 23 structure arsons occurred in residential occupancies. Thirteen percent (13%) occurred each in special properties and storage facilities. Four percent (4%) each occurred in educational facilities and mercantile or business properties.

**BUILDING FIRES**

There were 878 building fires of different types in Hampden County in 2019. These 878 building fires accounted for 99.2% of all structure fires in Hampden County.

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

Seven hundred and thirty-four (734), or 84%, of Hampden County's 878 building fires occurred in residential occupancies. Mercantile and business properties experienced 36 fires. Thirty-four (34) fires took place in public assembly properties, including restaurants and churches. Twenty-five (25) fires took place in storage properties. Hospitals, prisons, and other institutional buildings experienced 17 fires. Ten (10) fires took place in manufacturing and processing facilities. Another 10 building fires took place in educational properties. Special properties had nine fires; and one fire happened at an industrial facility. There were two fires where the property use wasn't classified.

**RESIDENTIAL FIRES****Residential Building Fires Down**

There were 734 reported residential building fires in Hampden County in 2019. These 734 fires are a decrease of 19, or 3%, from the 753 residential building fires reported in 2018.

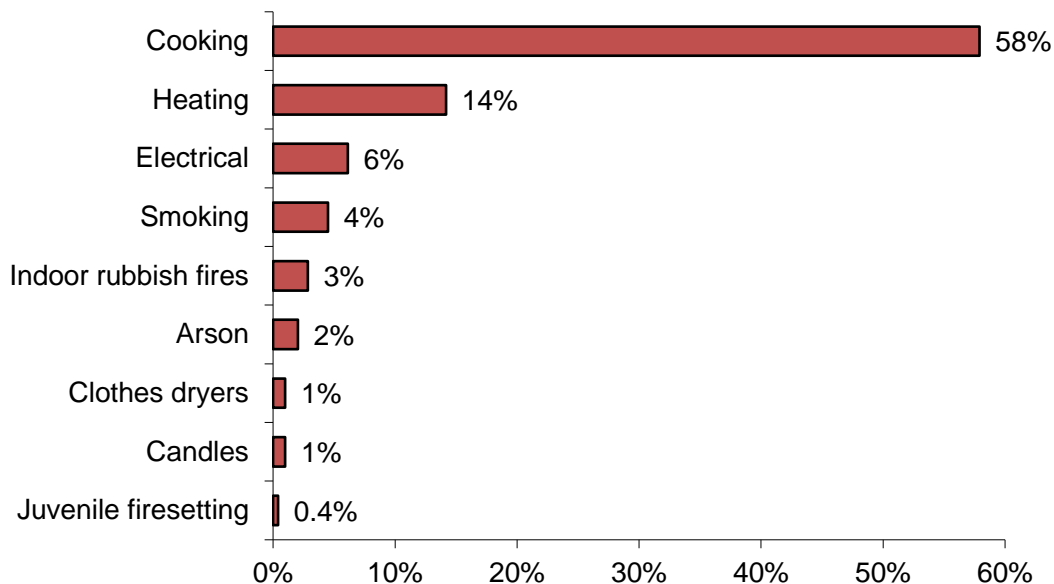
**1 & 2-Family Homes Accounted for 57% of Residential Building Fires**

The peak fixed property uses for residential building fires were 1- & 2-family homes, accounting for 57%, of the building fires in Hampden County; 36% occurred in apartments; 2% occurred in rooming houses; 1% happened in dormitories; 1% happened in residential board and care facilities; and 1% happened in hotels or motels. Ten (10), or 1%, of the residential building fires in Hampden County occurred in unclassified residential buildings.

### Cooking Causes 58% of Residential Fires

The leading cause of residential building fires in Hampden County was unattended cooking and other unsafe cooking practices, accounting for 58% of these fires. Heating was the second leading cause of fires in people's homes, accounting for 14% of these fires. Electrical problems caused 6%. Smoking started 4% of these fires. Indoor rubbish fires caused 3%. Arson started 2% of these fires. Clothes dryers and candles each caused 1%; and juvenile-set fires caused less than 1% of residential fires in Hampden County in 2019.

### 2019 Leading Causes of Fires in Hampden County Homes



### 66% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

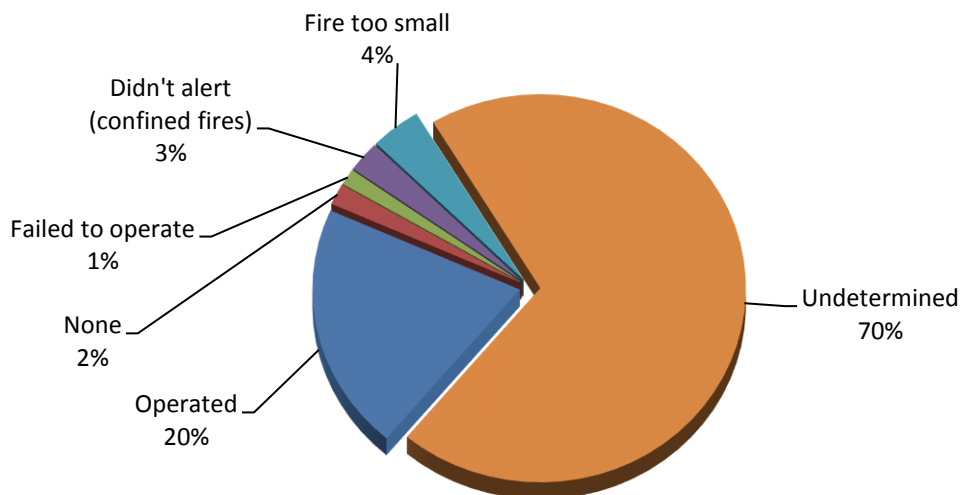
Four hundred and eighty-seven (487), or 66% of all residential building fires, were reported as confined to non-combustible containers in 2019. Three hundred and eighty (380) of the reported fires were cooking fires contained to a non-combustible container, accounting for 52% of residential building fires. Forty-four (44), or 6%, were fires confined to a fuel burner or boiler malfunction. Forty-three (43), or 6%, of all residential building fires reported in 2019 were fires confined to a chimney. Twenty (20), or 3%, of these fires were contained rubbish fires.

<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.

### Detector Operation Undetermined in 70% of Fires

Smoke or heat detectors operated and alerted the occupants in 151, or 20%, of the residential building fires. In 3% 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 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 512 incidents, or 70%, of Hampden County's residential building fires.

### Detector Status in Hampden County's Residential Structure Fires 2019



### 40% of Failed Detectors Had Dead or Missing Batteries

Of the 10 fires where smoke detectors were present but failed to operate, three, or 30%, failed because of missing batteries, and one, or 10%, failed because of dead batteries. Six (6), or 60%, of the detectors failed for unclassified or undetermined reasons.

### VACANT BUILDINGS

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

Hampden County reported 26 fires that occurred in buildings that were vacant, under construction or demolition. This represents 3% of the total 878 building fires reported to MFIRS in 2019. Eighteen (18) fires occurred in vacant residential properties. Storage facilities accounted for four vacant building fires. Public assembly properties had two vacant fires. One (1) fire was in a manufacturing or processing facility, and a special property.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.



None of the vacant building fires in Hampden County in 2019 were determined to be intentionally-set.

## **JUVENILE-SET FIRES**

### **9 Juvenile-set Fires**

There were nine reported juvenile-set fires in Hampden County in 2019. The five structure fires, one brush fire, one outside rubbish fire, and two unclassified fires caused an estimated dollar loss of \$116,030.

## **ARSONS**

### **72 Total Arsons — 23 Structures, 21 Vehicles & 28 Other Arsons**

Seventy-two (72), or 5%, of Hampden County's 1,584 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 23 structure arsons, 21 motor vehicle arsons and 28 outside and other arsons caused one civilian death, one civilian injury, one fire service injury and an estimated dollar loss of \$393,250.

### **All Arson Down**

The total number of reported arson fires decreased by six from the 78 reported in 2018. Structure arsons decreased by five from the 23 reported in 2018. Motor vehicle arsons increased by eight from the 13 reported in 2018. Outside and other fires decreased by nine from the 37 reported in 2018.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 62% of All Reported Responses**

In 2019, fire departments in Hampden County reported 54,728 responses<sup>4</sup> to MFIRS. Of these 54,728 incidents, 53,056 non-fire calls were voluntarily reported.

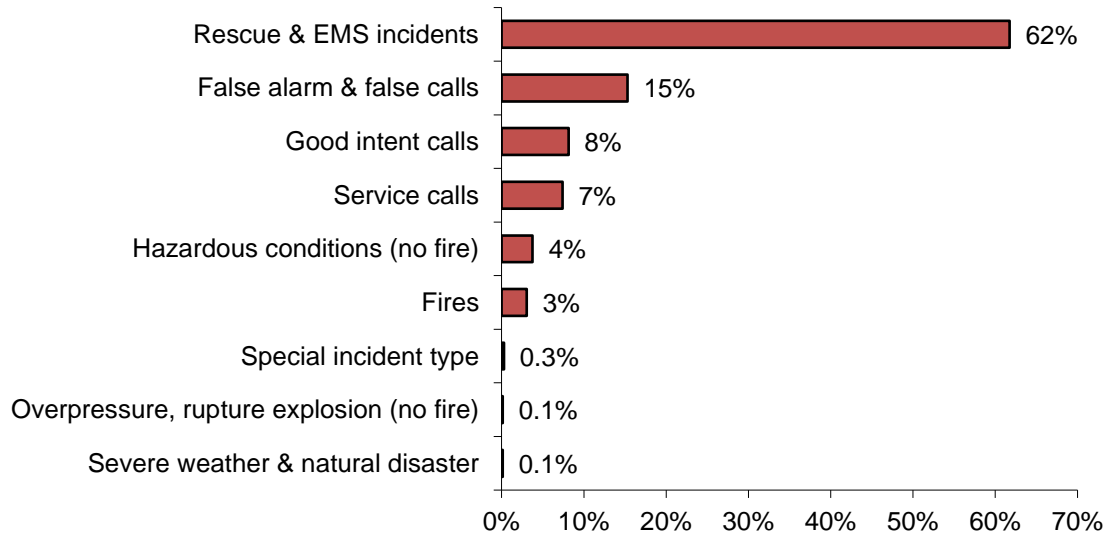
Of these 53,056 non-fire calls, 33,785, or 62% of all reported responses in 2019 were reported rescue and emergency medical services (EMS) calls; 8,379, or 15%, were reported false alarm or false calls; 4,445, or 8%, were reported good intent calls; 4,064, or 7%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 2,065, or 4%, were reported hazardous condition calls with no fire; 153, or 0.3%, were special incident type calls such as citizen complaints; 78, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 77, or 0.1%, were severe weather responses.

One thousand six hundred and seventy-two (1,672), or 3%, of the total responses submitted by Hampden County fire departments were fires.

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<sup>4</sup> These figures include responses in which Hampden County fire departments gave mutual aid to other fire departments.

## 2019 Responses by Incident Type



### Hampden County Fire Departments Gave Mutual Aid 1,021 Times

In 2019, Hampden County fire departments reported coming to the aid of other fire departments 1,021 times. Of these 1,021 responses, 714, or 70%, were for rescue or EMS calls; 97, or 10%, were for good intent calls; 93, or 9%, were for service calls such as cover assignments; 87, or 9%, were for fires; 17, or 2%, were for false alarms or false calls; seven, or 1%, were for hazardous conditions calls with no fire; four, or 0.4% were overpressure, rupture explosions with no fire calls; one, or 0.1% was for a severe weather call; and one, or 0.1%, was a special incident type.

### Hampden County Received Mutual Aid in 768 Incidents

In 2019, Hampden County fire departments reported receiving aid from surrounding departments in 768 incidents. Of these 768 incidents, 645, or 84%, were rescue and emergency medical services calls; 48, or 6%, were for fires; 33, or 4%, were hazardous conditions calls with no fire; 16, or 2%, were false alarms or false calls; 12, or 2%, were good intent calls; 10, or 1%, were service calls; three, or 0.4%, were overpressure, rupture explosion with no fire calls; and one, or 0.1%, was for a severe weather call.

**Hampden County****Population: 463,490****3.4 Fires/1,000 Population****Total Fires: 1,584 \$12,517,448**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	885	56%	\$10,437,000
Vehicle Fires	250	16%	1,935,698
Other Fires	449	28%	144,750

4 Fatal Fires 2.53 Civilian Deaths/1,000 Fires  
 4 Civilian Deaths 0.09 Civilian Deaths/10,000 Population  
 28 Civilian Injuries 54 Fire Service Injuries

**Building Fires: 878****Residential Structure Fires: 734****Residential Structure Fires Confined to Non-Combustible Containers: 487****Unconfined Residential Structure Fires: 247**

4 Civilian Deaths 21 Civilian Injuries 47 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	419	57%	Operated	151	20%
Apartments	267	36%	Didn't operate	10	1%
Rooming houses	12	2%	None	13	2%
Dormitories	10	1%	Fire too small	29	4%
Residential board & care	9	1%	Didn't alert (confined)	19	3%
Hotels or motels	7	1%	Undetermined	512	70%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>% Unconfined<sup>6</sup></b>
Kitchen	58%	Rad., cond. heat/oper. eq.	5%	15%
Heating room or area	6%	Heat from operating equip.	3%	9%
Chimney, flue	6%	Arcing	3%	9%
Exterior balcony, unencl. porch	4%	Cigarette	3%	9%
Bedroom	2%	Lighter	1%	3%

<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	55%	Equipment unattended	12%	34%
Flammable or combust. liquid	6%	Misuse of mat./prod. other	5%	15%
Film, residue (creosote)	6%	Abandoned materials	5%	15%
Rubbish, trash, waste	3%	Electrical fail/malf., other	3%	10%
Structural member, framing	2%	Failure to clean	3%	9%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
Cooking equipment	57%	Unintentional	14%	57%
None	20%	Failure of eq./heat source	3%	11%
Boiler, furnace, cent. heat unit	6%	Intentional	1%	6%
Chimney or flue	6%	Act of Nature	0.2%	1%
Electrical wiring, other	1%	Undetermined	2%	9%
		Cause under investigation	4%	17%

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

Alerted occupants	8%
Didn't alert occupants	4%
Undetermined	88%

<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	131	80	26	25
February	118	80	15	23
March	152	84	20	48
April	150	80	19	51
May	109	64	13	32
June	122	55	18	49
July	181	83	26	72
August	122	68	22	32
September	136	71	22	43
October	100	55	25	20
November	148	97	14	37
December	115	68	30	17

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	211	117	27	67
Monday	243	128	43	72
Tuesday	227	133	30	64
Wednesday	229	123	35	71
Thursday	203	113	36	54
Friday	231	128	43	60
Saturday	240	143	36	61

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	109	47	36	26
04:01 – 08:00	98	56	19	23
08:01 – 12:00	267	151	45	71
12:01 – 16:00	417	206	59	152
16:01 – 20:00	448	282	53	113
20:01 – 00:00	245	143	36	64

### **Motor Vehicle Fires**

Total: 250

Automobiles: 204 (82%)

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

## Arson Fires

**Total Arsons: 72**

**Dollar loss: \$393,250**

### 0.16 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	23	3%	32%	\$223,500
Vehicle Arsons	21	8%	29%	169,250
Other Arsons	28	6%	39%	500

0.05 Structure arsons/1,000 population

0.05 Vehicle arsons/1,000 population

0.06 Other arsons/1,000 population

1 Civilian Death

1 Civilian Injury

1 Fire Service Injury

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 - 16:00	6	26%	20:01 - 00:00	8	38%
16:01 - 20:00	6	26%	00:01 - 04:00	6	29%
20:01 - 00:00	5	22%	08:01 - 12:00	3	14%

Other Arsons	#	%
16:00 - 20:00	9	32%
08:01 - 12:00	7	25%
12:01 - 16:00	6	21%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	9	39%
Apartment buildings	6	26%

**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>
2015	80	34	8	38	1	0	0	1
2016	77	26	8	43	4	0	0	0
2017	83	30	11	42	1	0	0	1
2018	66	33	12	21	0	0	0	0
2019	56	30	8	18	0	0	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>
2015	7	3	3	1	0	0	0	0
2016	4	0	0	4	0	0	0	0
2017	2	2	0	0	0	0	0	0
2018	12	6	4	2	1	0	0	1
2019	10	3	4	3	1	0	0	1

**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>
2015	13	2	4	7	1	1	0	0
2016	21	8	5	8	0	0	0	0
2017	4	2	1	1	0	0	0	0
2018	12	6	3	3	0	0	0	0
2019	10	5	3	2	1	1	0	0

**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>
2015	13	5	0	8	4	0	0	4
2016	2	2	0	0	0	0	0	0
2017	2	2	0	0	0	0	0	0
2018	5	4	1	0	0	0	0	0
2019	6	4	1	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>
2015	197	85	19	93	3	0	0	3
2016	176	85	13	78	3	0	1	2
2017	183	93	22	68	2	1	1	0
2018	160	80	25	55	3	1	2	0
2019	168	84	28	56	2	0	2	0

**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>
2015	57	24	6	27	3	0	1	2
2016	46	21	5	20	4	0	0	4
2017	43	22	5	16	1	0	0	1
2018	28	19	1	8	1	0	0	1
2019	26	11	5	10	2	0	1	1

**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>
2015	13	3	4	6	1	0	0	1
2016	4	0	1	3	0	0	0	0
2017	5	3	0	2	0	0	0	0
2018	10	8	2	0	0	0	0	0
2019	9	3	4	2	1	0	1	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>
2015	40	24	3	13	0	0	0	0
2016	38	20	0	18	0	0	0	0
2017	50	32	1	17	0	0	0	0
2018	40	28	0	12	0	0	0	0
2019	38	18	1	19	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>
2015	15	6	3	6	1	0	0	1
2016	11	8	0	3	0	0	0	0
2017	10	5	1	4	0	0	0	0
2018	11	9	2	0	0	0	0	0
2019	5	2	1	2	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>
2015	362	222	33	107	42	12	2	28
2016	445	262	36	147	39	8	4	27
2017	335	227	27	81	16	5	1	10
2018	301	211	25	65	15	5	3	7
2019	336	246	32	58	8	2	2	4

**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>
2015	36	18	7	11	2	0	0	2
2016	42	15	8	19	4	0	0	4
2017	24	12	9	3	1	0	0	1
2018	32	12	8	12	1	0	0	1
2019	26	19	2	5	0	0	0	0

**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>
2015	53	24	4	25	2	0	1	1
2016	64	33	7	24	0	0	0	0
2017	58	33	8	17	0	0	0	0
2018	57	29	12	16	0	0	0	0
2019	48	30	8	10	1	0	0	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>
2015	40	14	5	21	7	1	0	6
2016	22	5	1	16	4	0	0	4
2017	25	13	5	7	5	0	1	4
2018	26	14	3	9	2	0	0	2
2019	1	0	0	1	0	0	0	0

**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>
2015	Non-Reporting Community							
2016	Non-Reporting Community							
2017	1	1	0	0	0	0	0	0
2018	2	2	0	0	0	0	0	0
2019	3	3	0	0	0	0	0	0

**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>
2015	7	5	0	2	1	0	0	1
2016	15	6	1	8	1	0	0	1
2017	4	1	0	3	1	0	0	1
2018	4	3	0	1	0	0	0	0
2019	7	3	1	3	1	0	0	1

**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>
2015	40	19	16	5	1	1	0	0
2016	38	17	9	12	1	0	0	1
2017	28	10	11	7	1	0	0	1
2018	35	16	8	11	0	0	0	0
2019	32	8	15	9	2	1	1	0

**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>
2015	15	5	0	10	0	0	0	0
2016	13	2	1	10	3	0	0	3
2017	6	4	0	2	1	1	0	0
2018	11	5	4	2	0	0	0	0
2019	7	6	0	1	0	0	0	0

**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>
2015	2	0	1	1	1	0	0	1
2016	7	2	1	4	0	0	0	0
2017	11	5	1	5	0	0	0	0
2018	6	2	1	3	0	0	0	0
2019	2	1	0	1	1	0	0	1

**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>
2015	40	17	3	20	11	5	0	6
2016	56	22	2	32	1	0	0	1
2017	27	14	5	8	3	1	0	2
2018	31	18	2	11	3	1	0	2
2019	33	12	3	18	1	0	0	1

**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>
2015	723	356	74	293	23	8	11	4
2016	782	371	87	324	24	11	7	6
2017	503	314	76	113	20	8	7	5
2018	483	296	72	115	42	20	5	17
2019	499	267	91	141	47	17	14	16

**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>
2015	Non-Reporting Community							
2016	Non-Reporting Community							
2017	Non-Reporting Community							
2018	Non-Reporting Community							
2019	Non-Reporting Community							

**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>
2015	Non-Reporting Community							
2016	1	1	0	0	0	0	0	0
2017	9	6	0	3	0	0	0	0
2018	3	2	0	1	0	0	0	0
2019	4	2	1	1	0	0	0	0

**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>
2015	129	60	14	55	2	1	0	1
2016	91	47	8	36	4	0	0	4
2017	90	44	19	27	7	2	0	5
2018	93	44	14	35	7	1	3	3
2019	113	57	23	33	0	0	0	0

**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>
2015	139	72	20	47	0	0	0	0
2016	148	62	18	68	1	1	0	0
2017	103	47	17	39	1	0	0	1
2018	72	39	10	23	3	0	0	3
2019	110	50	18	42	3	1	0	2

<b>Wilbraham</b>					<b>Population: 14,219</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>
2015	54	22	1	31	0	0	0	0
2016	31	18	4	9	1	1	0	0
2017	37	19	3	15	1	0	1	0
2018	47	27	8	12	0	0	0	0
2019	35	21	1	13	1	1	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	2,607	57	0	1,685	67	334	115	319	1	29
13033	Blandford	125	10	0	55	30	5	10	13	2	0
13987	Bondsville	108	19	0	25	19	7	11	26	0	1
13043	Brimfield	350	20	1	244	7	13	21	41	3	0
13059	Chester	119	7	0	86	19	2	3	2	0	0
13061	Chicopee	5,917	169	7	3,126	141	797	741	904	8	24
13085	East Longmeadow	3,569	27	0	2,742	85	202	164	336	12	1
13112	Granville	147	14	0	93	17	9	4	10	0	0
13120	Hampden	534	42	2	400	13	15	17	43	1	1
13135	Holland	153	7	0	108	11	12	6	9	0	0
13137	Holyoke	4,719	338	7	2,104	178	238	836	1,004	2	12
13159	Longmeadow	3,051	31	4	1,967	121	363	150	399	16	0
13161	Ludlow	1,785	49	0	1,167	69	98	137	263	0	2
13191	Monson	23	2	0	3	5	3	1	8	0	1
13194	Montgomery	81	5	0	41	20	1	1	13	0	0
13986	Palmer #1	527	45	8	144	54	100	64	105	2	5

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
13256	Russell	65	5	1	30	4	7	9	9	0	0
13279	Southwick	215	36	0	19	26	22	25	77	6	4
13281	Springfield	16,062	499	37	9,278	810	928	1,301	3,167	14	28
13988	Three Rivers	178	14	2	57	15	29	20	41	0	0
13297	Tolland**	0	0	0	0	0	0	0	0	0	0
13306	Wales	191	8	0	118	9	8	1	46	0	1
13325	West Springfield	7,984	115	3	6,613	177	303	236	517	1	19
13329	Westfield	3,123	112	2	1,563	97	302	358	664	5	20
13339	Wilbraham	3,094	40	4	2,117	71	266	224	363	4	5
<b>Hampden County</b>		<b>54,727</b>	<b>1,671</b>	<b>78</b>	<b>33,785</b>	<b>2,065</b>	<b>4,064</b>	<b>4,455</b>	<b>8,379</b>	<b>77</b>	<b>153</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.

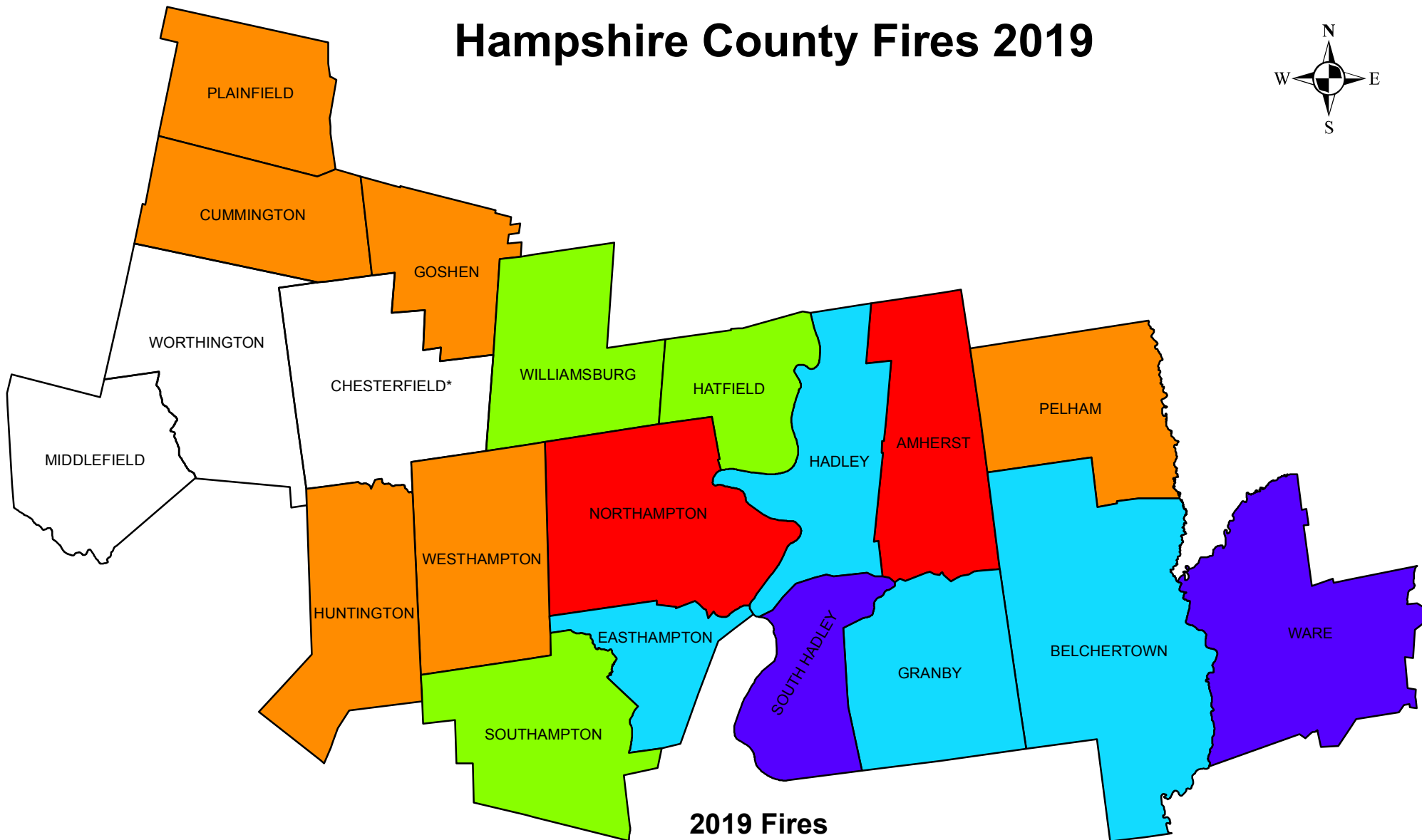
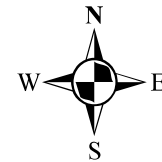


# Hampshire County

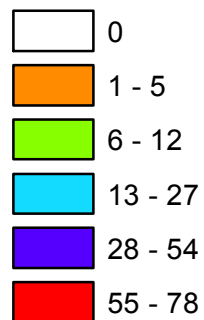
## 2019 Fire Data Analysis



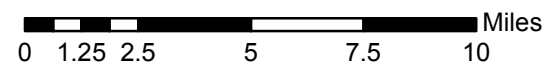
# Hampshire County Fires 2019



## 2019 Fires



\*Non-reporting Department



Massachusetts Fire Incident Reporting System 2019



**MFIRS**  
Massachusetts Fire Incident Reporting System

# Hampshire County Fires in 2019

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## **400 Total Fires — 194 Structures, 53 Vehicles & 153 Other Fires**

Hampshire County ranked tenth out of the fourteen Massachusetts counties in total reported fires. Hampshire County fire departments reported 400 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 194 structure fires, 53 motor vehicle fires, 66 brush, tree or lawn fires, 42 outside rubbish fires, 20 special outside fires, one cultivated vegetation or crop; and 24 other fires caused one civilian death, nine civilian injuries, six fire service injuries and an estimated dollar loss of \$4.1 million. Hampshire County's 400 total reported fires accounted for 2% of the 25,176 fires reported to MFIRS in 2019.

Twenty (20) of the 21 fire departments in Hampshire County, or 95%, either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2019.

## **All Fires Up**

The total number of reported fire incidents increased by 42 from the 358 reported in 2018. Reported structure fires increased by 12 from the 182 reported during the previous year. Motor vehicle fires decreased by one from 54 the year before. The number of outside and other fires increased by 31 from 122 in 2018.<sup>1</sup>

## **HAMPSHIRE COUNTY FIRES FROM 2015 TO 2019**

	<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>
2015	505	202	45	258	35	6	1	28
2016	435	196	37	202	29	5	1	23
2017	400	204	41	155	26	6	1	19
2018	358	182	54	122	23	2	1	20
2019	400	194	53	153	18	4	2	12

## **Fire and Fire Death Rates**

Hampshire County had 2.5 fires per 1,000 population. That figure ranks Hampshire County fourteenth in the state and below the state rate of 3.8 fires per 1,000 population. Hampshire County also had 0.06 fire deaths per 10,000 population, ranking it tied for sixth among Massachusetts counties and tied with the state rate of 0.06 fire deaths per 10,000 population.

## **Hampshire County Had 1 Fire Death in 2019**

There was one fatal fire reported in Hampshire County in 2019. This fatal fire caused one death.

- On January 3, 2019, at 4:30 a.m., the Northampton Fire Department was called to a fatal smoking fire in a single-family home. A cigarette ignited furniture in the living room. The victim, a 69-year old man, was discovered by firefighters in the kitchen.

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<sup>1</sup> 2019 was another down year statewide for all brush fires.

No one else was injured at this fire. Neither alarms nor sprinklers were present in the home. Damages were estimated to be \$140,000.

### **Amherst Has County's Largest Loss Fire**

There was one reported fire in Hampshire County with a dollar loss greater than \$1 million in 2019. The largest loss fire was reported by Amherst.

- On November 1, 2019, at 11:03 p.m., the Amherst Fire Department was dispatched to a fire of undetermined cause at the Hampshire Health & Fitness club. The fire originated in the laundry area. One (1) firefighter was injured at this fire. Heat detectors were present and operated. The building did have a partial dry pipe sprinkler system but its operation was not reported. Damages from this fire were estimated to be \$1 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 194 structure fires caused one civilian death, eight civilian injuries, five fire service injuries and an estimated dollar loss of \$4 million. These incidents represent 49% of Hampshire County's reported fires in 2019. The average estimated dollar loss per structure fire was \$20,593. The total number of reported structure fires increased by 12, or 7%, from the 182 reported in 2018.

### **4 Structure Arsons**

There were four structure arsons reported in 2019. Arson was indicated as the cause of 2% of the structure fires and less than 1% of Hampshire County's structure fire dollar loss. The four structure arsons accounted for 22% of the Hampshire County arson fires reported in 2019. The total number of reported structure arsons increased by two, or 100%, from two reported in 2018.

## **BUILDING FIRES**

There were 193 building fires of different types in Hampshire County in 2019. These 193 building fires accounted for 99.5% of the structure fires in Hampshire County.

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

One hundred and fifty-five (155), or 80%, of Hampshire County's 193 building fires occurred in residential occupancies. Mercantile and business properties had eight fires. Six (6) fires took place in public assembly properties, including restaurants and churches. Educational properties and institutional facilities each had five fires. Storage facilities and manufacturing or processing facilities each experienced four fires. Industrial facilities and special properties each had three fires in Hampshire County in 2019.

## **RESIDENTIAL FIRES**

### **Residential Building Up Slightly**

There were 155 reported residential building fires in Hampshire County in 2019. This is an increase of four, or 3%, from the 151 reported in 2018.

### **1- & 2-Family Homes Accounted for 63% of Residential Building Fires**

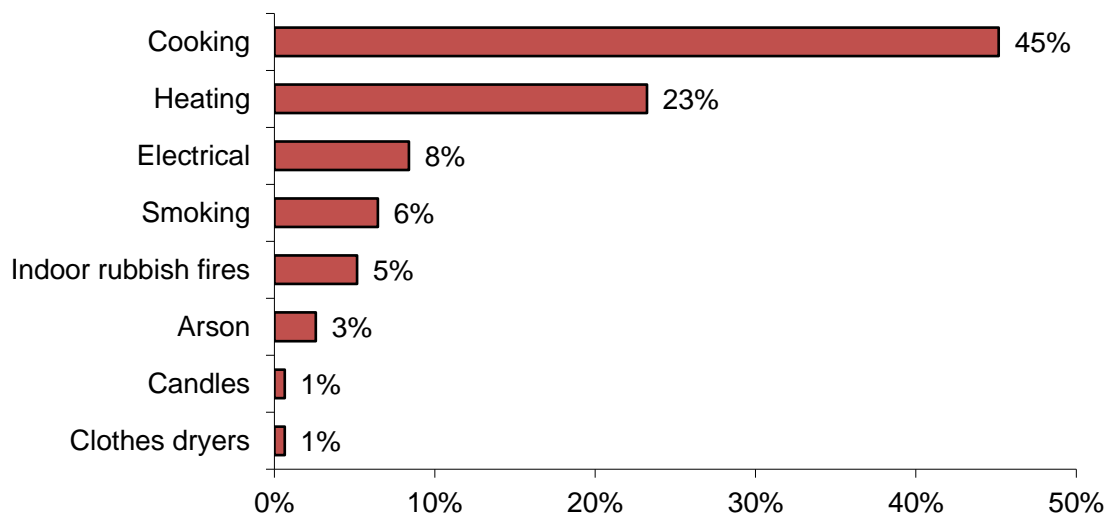
The peak fixed property use for residential building fires were 1- & 2-family homes, accounting for 63% of the residential building fires in Hampshire County; 28% occurred in apartments; and 7% occurred in dormitories. One percent (1%) occurred in residential board and care facilities, and 1% happened in rooming houses in Hampshire County.

Although much of Hampshire County is rural, the county is home to several colleges and the main campus of the University of Massachusetts. Eleven (11), or 7%, of Hampshire County's residential fires occurred in dormitories. Dormitory fires make up smaller percentages of the other counties' fires.

### **Cooking Causes 45% of Residential Fires**

Unattended cooking and other unsafe cooking practices was the leading cause of the 155 residential building fires in Hampshire County, accounting for 45% of these fires. Heating equipment fires accounted for 23% of home fires. Electrical problems caused 8% of the residential fires. Smoking fires were responsible for 6% of these fires. Indoor rubbish fires accounted for 5%; and arson accounted for 3%. Candles and clothes dryers each accounted for 1% of the residential fires in Hampshire County in 2019.

## **2019 Leading Causes of Fires in Hampshire County Homes**



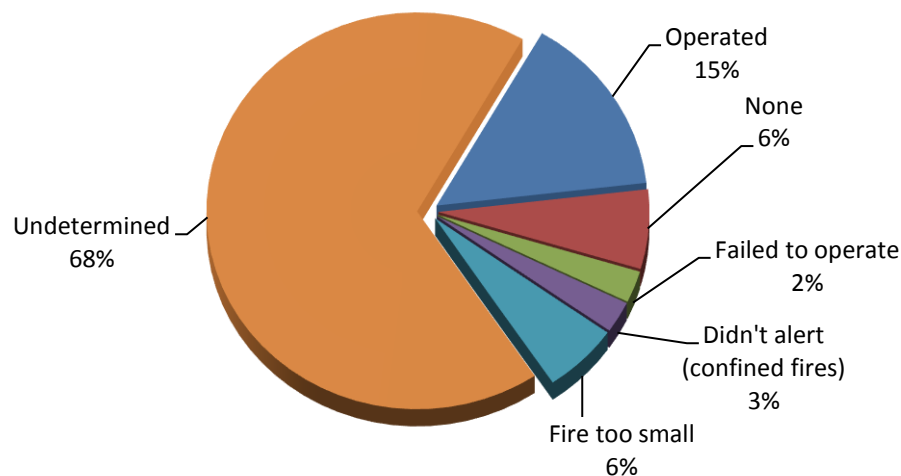
### 68% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

One hundred and six (106), or 68%, of all residential building fires were reported as confined to non-combustible containers in 2019. Sixty-six (66) of the reported fires were cooking fires contained to a non-combustible container, accounting for 43% of residential building fires. Twenty (20), or 13%, of all residential building fires reported in 2019 were fires confined to a chimney. Twelve (12), or 8%, were fires confined to a fuel burner or boiler malfunction. Eight (8), or 5%, of these fires were indoor rubbish fires contained to a non-combustible container in Hampshire County in 2019.

### Detectors Operated in Only 15% of Fires

Smoke or heat detectors operated and alerted the occupants in 23, or 15%, of the residential building fires. In 3% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 2% of these incidents. In 6% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 6% of the residential fires. Smoke detector performance was undetermined in 105 incidents, or 68%, of Hampshire County's residential building fires.

### Detector Status in Hampshire County's Residential Structure Fires 2019



<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.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.

#### **4 Detectors Failed**

Four (4) detectors failed in Hampshire County in 2019. One (1) failed because it was defective and another failed from a power failure, shutoff or disconnect. The reason for why the other two detectors failed was undetermined.

#### **VACANT BUILDINGS**

##### **5 Building Fires Occurred in Vacant Buildings**

Hampshire County reported five fires that occurred in buildings that were vacant, under construction or demolition. This represented 3% of the 193 building fires reported to MFIRS in 2019. Two (2) residential properties, two institutional facilities and a special property had a reported fire in a vacant building.

None of the vacant building fires in Hampshire County in 2019 were determined to be intentionally-set.

#### **JUVENILE-SET FIRES**

##### **2 Juvenile-set Fires**

There were two reported juvenile-set fires in Hampshire County in 2019. One (1) was a structure fire and the other was an outside rubbish fire.

#### **ARSONS**

##### **18 Total Arsons — 4 Structure, 2 Motor Vehicle & 12 Other Arsons**

Eighteen (18), or 5%, of Hampshire County's 400 fires were intentionally-set, or, for purposes of this analysis, arson. The four structure arsons, two motor vehicle arsons, four brush arsons, four outside rubbish arsons, three special outside arsons, and one unclassified arsons caused an estimated dollar loss of \$4,500.

##### **All Arsons Decreases Slightly**

The total number of reported arson fires decreased by five from the 23 reported in 2018. Structure arsons increased by two from two reported the previous year. Motor vehicle arsons increased by one from one in 2018. Reported outside and other arsons decreased by eight from the 20 reported in 2018.

#### **ALL INCIDENTS**

##### **Rescue & EMS Calls Are 66% of All Reported Responses**

In 2019, Hampshire County fire departments reported 19,368 responses<sup>4</sup> to MFIRS. Of these 19,368 incidents, 18,909 non-fire calls were voluntarily reported.

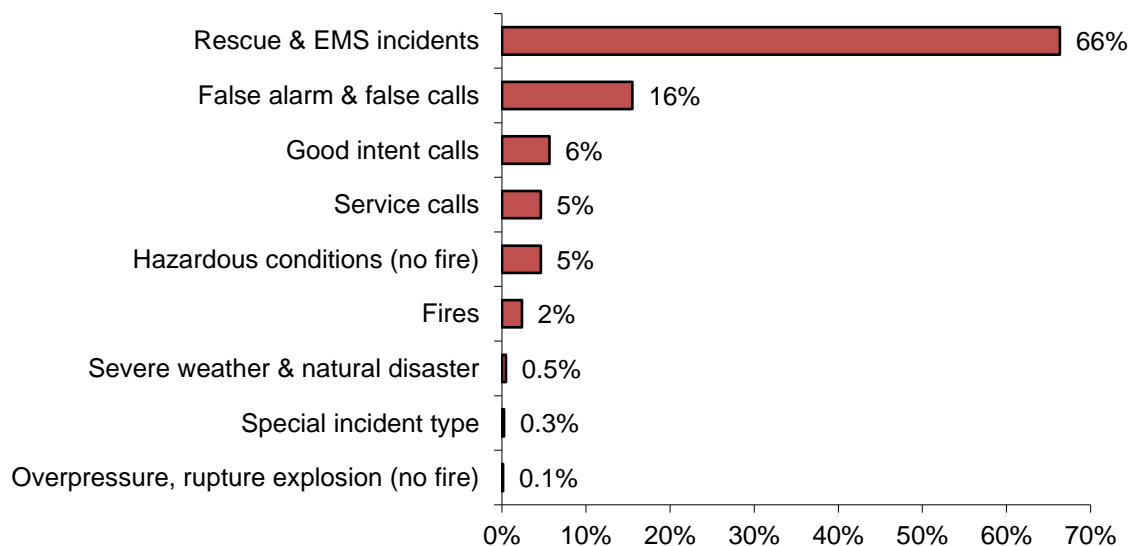
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<sup>4</sup> These figures include responses in which Hampshire County fire departments gave mutual aid to other fire departments.

Of these 18,909 non-fire calls, 12,851, or 66%, of all the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 3,005, or 16%, were reported false alarm or false calls; 1,093, or 6%, were reported good intent calls; 896, or 5%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 896, or 5%, were reported hazardous condition calls with no fire; 91, or 0.5%, were severe weather responses; 49, or 0.3%, were special incident type calls such as citizen complaints; and 28, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Four hundred and fifty-nine (459), or 2%, of the total responses submitted by Hampshire County fire departments were fires.

### 2019 Responses by Incident Type



### Hampshire County Fire Departments Gave Mutual Aid 595 Times

In 2019, Hampshire County fire departments reported coming to the aid of other fire departments 595 times. Of these 595 responses, 389, or 65%, were for rescue or EMS calls; 86, or 14%, were for good intent calls; 59, or 10%, were for fires; 46, or 8%, were for service calls such as cover assignments; five, or 1%, were hazardous condition calls with no fire; five, or 1%, were for false alarms or false calls; two calls, or less than 1%, were severe weather calls; another two calls, or less than 1%, were for special incident types; and one, or less than 1%, was an overpressure, rupture explosion call with no fire.

### Hampshire County Received Mutual Aid in 287 Incidents

In 2019, Hampshire County fire departments received aid from surrounding departments in 287 incidents. Of these 287 incidents, 214, or 75%, were rescue and emergency medical services calls; 39, or 14%, were for fires; 10, or 3%, was a hazardous conditions calls with no fire; eight, or 3%, were false alarm or false calls; eight were good intent calls accounting for 3%; five, or 2%, were service calls; two, or less than 1%, was an

overpressure, rupture explosion call with no ensuing fire; and one, or less than 1%, was a severe weather call in Hampshire County in 2019.



**Hampshire County****Population: 158,080****2.5 Fires/1,000 Population****Total Fires: 400 \$4,135,051**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	194	49%	\$3,995,127
Vehicle Fires	53	13%	132,957
Other Fires	153	38%	6,967

1 Fatal Fire 2.50 Civilian Deaths/1,000 Fires  
 1 Civilian Death 0.06 Civilian Deaths/10,000 Population  
 9 Civilian Injuries 6 Fire Service Injuries

**Building Fires: 193****Residential Structure Fires: 155****Residential Structure Fires Confined to Non-Combustible Containers: 106****Unconfined Residential Structure Fires: 49**

1 Civilian Death 8 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	97	63%	Operated	23	15%
Apartments	44	28%	Didn't operate	4	2%
Dormitories	11	7%	None	10	6%
Residential board & care	2	1%	Fire too small	9	6%
Rooming houses	1	1%	Didn't alert (confined)	4	3%
			Undetermined	105	68%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>% Unconfined<sup>6</sup></b>
Kitchen	49%	Arcing	4%	12%
Chimney or flue	13%	Heat from operating equip.	3%	10%
Heating room or area	8%	Radiated, con. heat op. eq.	3%	8%
Bedroom	3%	Hot embers or ash	3%	8%
Living room	3%			

<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	43%	Failure to clean	11%	35%
Film, residue (creosote)	13%	Mechanical failure, malfunc.	7%	22%
Flamm. or combustible liquid	8%	Equipment unattended	6%	18%
Rubbish, trash, waste	5%	Misuse of mat. or prod. other	5%	16%
Electrical wire, cable insulation	4%	Abandoned materials	5%	16%
		Electrical failure, malfunc.	5%	16%

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>% Unconfined<sup>10</sup></b>
Cooking equipment	45%	Unintentional	17%	53%
None	19%	Failure of eq. or heat source	5%	14%
Chimney or flue	14%	Intentional	1%	2%
Boiler, furnace, cent. heat unit	8%	Cause under investigation	6%	20%
Fan	2%	Undetermined	3%	10%
		Act of nature	0%	0%

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

Alerted occupants	3%
Didn't alert occupants	4%
Undetermined	93%

<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	43	22	8	13
February	28	20	2	6
March	36	18	3	15
April	45	19	9	17
May	38	14	7	17
June	31	14	1	16
July	30	13	5	12
August	26	12	3	11
September	23	9	3	11
October	31	15	3	13
November	40	20	3	17
December	29	18	6	5

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	62	26	11	25
Monday	54	23	5	26
Tuesday	50	29	7	14
Wednesday	48	24	7	17
Thursday	59	31	8	20
Friday	55	33	6	16
Saturday	72	28	9	35

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	18	11	0	7
04:01 - 08:00	31	13	7	11
08:01 - 12:00	71	36	9	26
12:01 - 16:00	120	53	20	47
16:01 - 20:00	111	54	17	40
20:01 - 00:00	49	27	0	22

### **Motor Vehicle Fires**

Total: 53

Automobiles: 35 (66%)

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

## Arson Fires

**Total Arsons: 18**

**Dollar loss: \$4,500**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	4	2%	22%	\$500
Vehicle Arsons	2	4%	11%	4,000
Other Arsons	12	8%	67%	0

0.03 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.08 Other arsons/1,000 population

No Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
20:01 - 00:00	2	50%	08:01 – 12:00	1	50%
04:01 - 08:00	1	25%	12:01 – 16:00	1	50%
16:01 - 20:00	1	25%			

Other Arsons	#	%
16:01 - 20:00	4	33%
12:01 - 16:00	3	25%
20:01 - 16:00	3	25%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-Family home	2	50%
Multifamily dwelling	2	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>
2015	93	26	5	62	8	0	0	8
2016	75	27	4	44	1	0	0	1
2017	76	34	11	31	4	1	1	2
2018	67	39	7	21	1	0	0	1
2019	74	37	8	29	1	1	0	0

**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>
2015	34	14	2	18	0	0	0	0
2016	8	2	0	6	0	0	0	0
2017	27	19	0	8	0	0	0	0
2018	18	9	1	8	1	0	0	1
2019	27	9	8	10	1	0	0	1

**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>
2015	4	2	0	2	1	0	0	1
2016	Non-reporting Department							
2017	Non-reporting Department							
2018	Non-reporting Department							
2019	Non-reporting Department							

**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>
2015	1	1	0	0	0	0	0	0
2016	2	0	0	2	0	0	0	0
2017	1	0	0	1	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	2	2	0	0	0	0	0	0

**Easthampton** **Population: 16,053**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	44	27	3	14	1	0	0	1
2016	44	18	6	20	2	0	0	2
2017	41	25	2	14	2	1	0	1
2018	31	17	4	10	0	0	0	0
2019	24	11	5	8	0	0	0	0

**Goshen** **Population: 1,054**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	6	4	0	2	0	0	0	0
2016	3	2	0	1	0	0	0	0
2017	2	0	1	1	0	0	0	0
2018	4	1	2	1	0	0	0	0
2019	4	3	0	1	0	0	0	0

**Granby** **Population: 6,240**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	24	12	3	9	0	0	0	0
2016	19	8	2	9	0	0	0	0
2017	21	9	4	8	4	0	0	4
2018	22	9	8	5	3	0	1	2
2019	27	8	7	2	1	0	0	1

**Hadley** **Population: 5,250**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	11	6	3	2	0	0	0	0
2016	6	3	3	0	1	1	0	0
2017	7	2	2	3	1	0	0	1
2018	16	6	5	5	1	0	0	1
2019	25	8	3	14	0	0	0	0

**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>
2015	11	4	2	5	1	0	0	1
2016	13	2	0	11	2	0	0	2
2017	9	0	1	8	2	0	0	2
2018	13	1	2	10	2	0	0	2
2019	12	3	3	6	0	0	0	0

**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>
2015	25	5	1	19	0	0	0	0
2016 <sup>11</sup>	Fire Department in Good Standing, Certified No Reportable Fires							
2017	10	2	2	6	0	0	0	0
2018	7	3	1	3	1	0	0	1
2019	5	2	2	1	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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	3	2	0	1	0	0	0	0
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	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>
2015	67	21	10	36	6	4	0	2
2016	73	36	9	28	0	0	0	0
2017	57	30	9	18	3	2	0	1
2018	52	29	9	14	0	0	0	0
2019	78	34	7	37	4	0	1	3

<sup>11</sup> In 2016 Huntington reported 28 calls after the database was closed for analysis. The three fires were all aid given.

**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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	2	1	1	0	0	0	0	0
2019	1	1	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>
2015	2	2	0	0	0	0	0	0
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	1	1	0	0	0	0	0	0
2018	Non-reporting Department							
2019	3	3	0	0	0	0	0	0

**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>
2015	56	23	4	29	3	0	0	3
2016	2	2	0	0	0	0	0	0
2017	32	15	2	15	7	2	0	5
2018	28	14	2	12	2	0	0	2
2019	39	24	3	12	4	0	1	3

***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>
2015	30	21	1	8	1	0	0	1
2016	51	44	2	5	2	1	1	0
2017	51	43	1	7	0	0	0	0
2018	23	19	1	3	1	0	0	1
2019	15	13	1	1	0	0	0	0



<b>Southampton</b>					<b>Population: 5,792</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>
2015	2	1	1	0	0	0	0	0
2016	12	4	1	7	0	0	0	0
2017	19	6	0	13	0	0	0	0
2018	18	9	3	6	0	0	0	0
2019	10	4	1	5	0	0	0	0

<b>Ware</b>					<b>Population: 9,872</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>
2015	43	14	4	25	8	0	0	8
2016	41	11	3	27	13	2	0	11
2017	23	10	4	9	3	0	0	3
2018	41	19	3	19	10	2	0	8
2019	40	26	3	11	7	3	0	4

<b>Westhampton</b>					<b>Population: 1,607</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>
2015	16	7	0	9	0	0	0	0
2016	6	1	0	5	1	0	0	1
2017	7	2	1	4	0	0	0	0
2018	3	0	2	1	1	0	0	1
2019	4	0	2	2	0	0	0	0

<b>Williamsburg</b>					<b>Population: 2,482</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>
2015	15	4	4	7	0	0	0	0
2016	10	5	0	5	2	1	0	1
2017	16	6	1	9	0	0	0	0
2018	11	5	2	4	0	0	0	0
2019	10	6	0	4	0	0	0	0

## Worthington

**Population: 1,156**

	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	1	1	0	0	0	0	0	0
2017	Non-reporting Department							
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	Fire Department in Good Standing, Certified No Reportable Fires							

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
15008	Amherst	1,556	82	4	412	97	55	99	796	6	5
15024	Belchertown	400	27	2	12	93	58	37	170	1	0
15060	Chesterfield**	0	0	0	0	0	0	0	0	0	0
15069	Cummington	2	2	0	0	0	0	0	0	0	0
15087	Easthampton	2,775	27	0	2,217	59	64	128	272	0	8
15108	Goshen	104	6	0	70	9	4	6	9	0	0
15111	Granby	273	29	0	43	69	20	19	91	1	1
15117	Hadley	1,498	31	0	1,063	56	68	51	220	8	1
15127	Hatfield	138	12	2	20	32	10	15	46	1	0
15143	Huntington	240	7	0	167	22	16	15	12	0	1
15183	Middlefield*	0	0	0	0	0	0	0	0	0	0
15214	Northampton	7,395	83	11	5,496	266	224	470	808	31	6
15230	Pelham	1	1	0	0	0	0	0	0	0	0
15237	Plainfield	3	3	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	537	42	2	33	59	81	80	226	5	9
15979	South Hadley #2	800	33	2	429	20	144	43	121	2	6
15276	Southampton	677	10	2	458	40	41	43	68	13	2
15309	Ware	2,399	43	1	2,108	36	41	59	102	0	9
15331	Westhampton	191	7	1	117	10	29	10	11	6	0
15340	Williamsburg	379	14	1	206	28	41	18	53	17	1
15349	Worthington*	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>Hampshire County</b>	<b>19,368</b>	<b>459</b>	<b>28</b>	<b>12,851</b>	<b>896</b>	<b>896</b>	<b>1,093</b>	<b>3,005</b>	<b>91</b>	<b>49</b>

\* Certified no reportable fires.

\*\*Non reporting department.

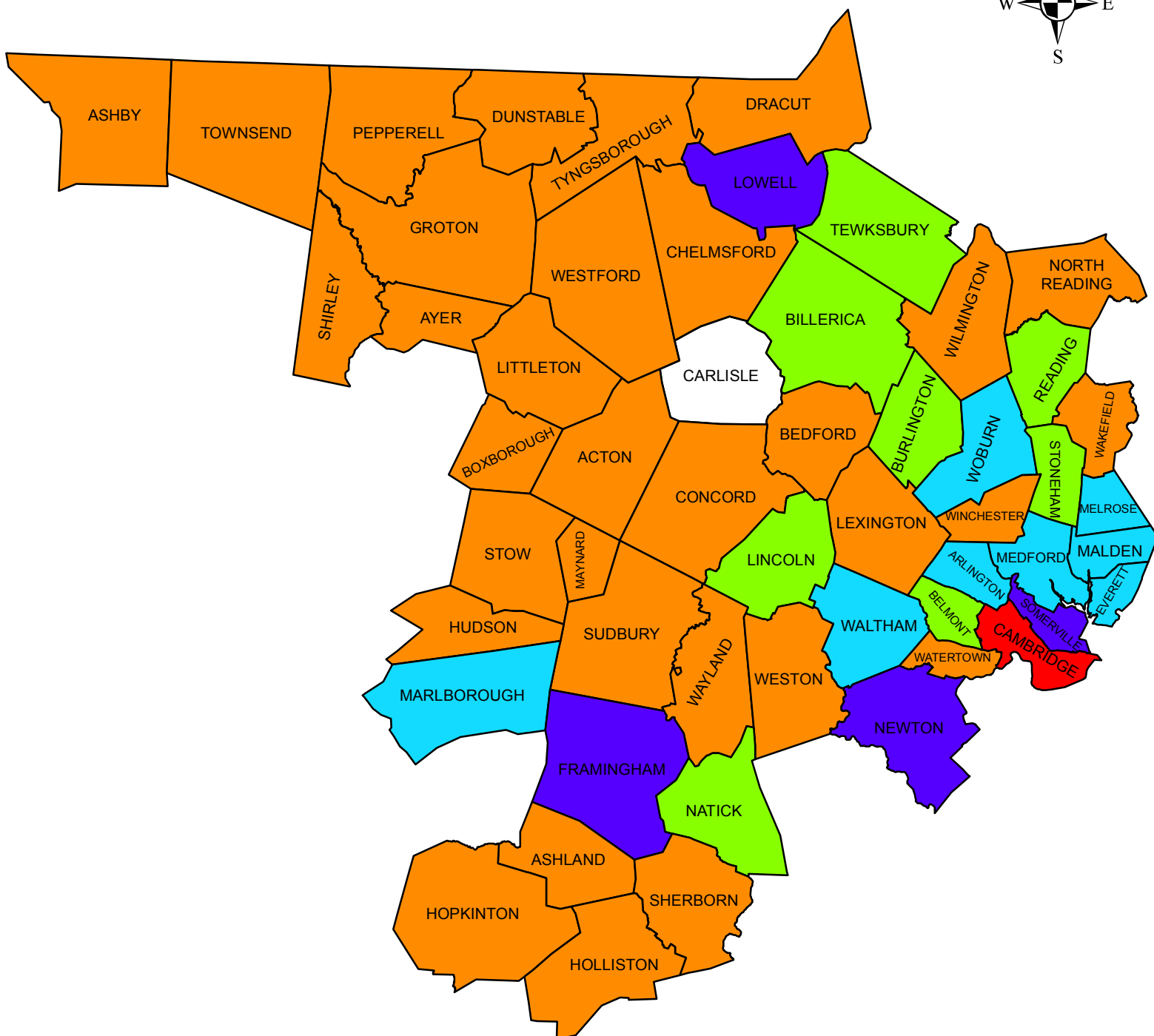
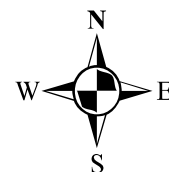
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



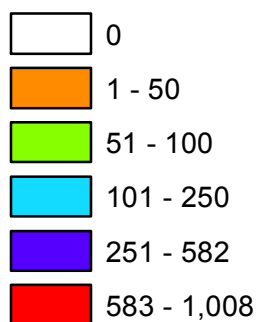
# Middlesex County

## 2019 Fire Data Analysis

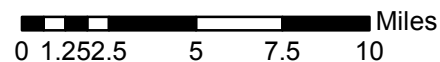
# Middlesex County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

# Middlesex County Fires in 2019

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## **5,410 Total Fires — 3,778 Structures, 386 Vehicles & 1,246 Other Fires**

Middlesex County ranked first out of the fourteen Massachusetts counties in total reported fires. Middlesex County fire departments reported 5,410 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 3,778 structure fires, 386 motor vehicle fires, 566 brush fires, 364 outside rubbish fires, 169 special outside fires, three cultivated vegetation or crop fires, and 144 unclassified fires caused nine civilian deaths, 44 civilian injuries, 189 fire service injuries and an estimated dollar loss of \$41.5 million. Middlesex County's fires accounted for 21% of the 25,176 Massachusetts fires reported in 2019.

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 2019.

## **Structure Fires Up**

The total number of reported fire incidents increased by 98 from the 5,440 reported in 2018. Reported structure fires increased by 171 from 3,680 in the previous year. Motor vehicle fires decreased by eight from the 398 reported during 2018. Reported outside and other fires decreased by 116 from 1,362 the year before.<sup>1</sup>

## **MIDDLESEX COUNTY FIRES FROM 2015 TO 2019**

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	5,662	3,038	412	2,212	68	21	9	38
2016	6,135	3,356	351	2,428	72	10	11	51
2017	5,295	3,503	379	1,413	43	11	4	28
2018	5,440	3,680	398	1,362	49	18	5	26
2019	5,410	3,778	386	1,246	69	15	8	46

## **Fire and Fire Death Rates**

Middlesex County had 3.6 fires per 1,000 population. That figure ranks Middlesex County fourth in the state and below the state rate of 3.8 fires per 1,000 population. Middlesex County also had 0.06 fire deaths per 10,000 population ranking it tied for sixth among Massachusetts counties and also tied with the state rate of 0.06 fire deaths per 10,000 population.

## **7 Fatal Fires Killed 9 Middlesex County Residents**

In 2019, seven fatal fires killed nine people in Middlesex County.

- On January 21, 2019, at 6:59 p.m., the Billerica Fire Department was dispatched to a fire in a single-family home of undetermined cause. The victim was a 78-year old

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<sup>1</sup> 2019 was a down year for brush fires across the state.

man. No one else was injured at this fire. It was undetermined if alarms were present. The building was not sprinklered. Damages from this fire were estimated to be \$350,000.

- On March 18, 2019, at 12:57 a.m., the Ashland Fire Department responded to a fatal fire in a shed of undetermined causes. The victim was a 52-year old man. Damages from this fire were not estimated.
- On April 27, 2019, at 4:00 a.m., the Newton Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by a cigarette being thrown away in the trash just outside the basement. The victims were a 92-year old woman and her 63-year old son. The mother was transported to a local hospital where she succumbed to her injuries. No one else was injured at this fire. Alarms were not present. There were no sprinklers. Damages from this fire were estimated to be \$700,000.
- On June 21, 2019, at 10:50 a.m., the Medford Police Department was called to a fatal outside fire at the Middlesex Fells Reservation. The victim was the only thing burning. The victim, a 35-year old woman, committed suicide by self-immolation.<sup>2</sup>
- On July 30, 2019, at 8:36 a.m., the Pepperell Fire Department was called to a fatal fire in a six-unit apartment building of undetermined cause. The victim, a 70-year old physically disabled woman, was unable to act. One (1) firefighter was also injured at this fire. Alarms were present but it was undetermined if they operated. The building was not sprinklered. Damages from the blaze were estimated to be \$600,000.
- On September 1, 2019, at 11:45 p.m., the Everett Fire Department was dispatched to a fire in a three-unit apartment building of undetermined cause. The victims were a 63-year old woman and a 65-year old woman. One (1) firefighter was also injured at this fire. Alarms were present alerted the occupants. The building was not sprinklered. Damages from this fire were estimated to be \$810,900.
- On December 1, 2019, at 7:04 a.m., the Arlington Fire Department was dispatched to a motor vehicle fire in an open lot. It is believed that the driver, a 54-year old man and only occupant of the vehicle set the car on fire. When the car burst into flames he died by suicide. No one else was injured in this fire. Damages from this fire were estimated to be \$15,000.

### **Largest Loss Fire in 2019**

In 2019, Middlesex County fire departments reported six fires with a reported dollar loss of \$1 million or greater. The combined dollar loss of these five fires totaled \$10.3 million, or 25%, of the county's total dollar loss.

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<sup>2</sup> The Medford Fire Department did not respond to this call because the police determined that the condition of the victim was obvious death and the fire was extinguished. The MFIRS report was compiled from data from the MSP FIU investigation.



- On April 22, 2019, at 12:21 p.m., the Newton Fire Department was called to a fire at a 423-unit apartment building. The fire started on the eighth floor kitchen. No one was injured at this fire. Alarms were present and didn't operate because of a lack of cleaning. Sprinklers activated but were not effective. Damages from this fire were estimated to be \$2.8 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Increased**

The 3,778 structure fires caused seven civilian deaths, 40 civilian injuries, 169 fire service injuries and an estimated dollar loss of \$38.4 million. These incidents represented 70% of Middlesex County's reported fires in 2019. The average estimated dollar loss per structure fire was \$10,167. The total number of reported structure fires increased by 98, or 3%, from the 3,680 reported in 2018.

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

The 15 structure arsons caused two civilian injuries, two fire service injuries and an estimated dollar loss of \$72,650. Arson was indicated as the cause of less than 1% of the structure fires and less than 1% of Middlesex County's structure fire dollar loss. The 15 structure arsons accounted for 22% of the Middlesex County arson fires reported in 2019. The total number of reported structure arsons decreased by three, or 17%, from 18 in 2018.

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

Seventy-one percent (71%) of Middlesex County's 15 structure arsons occurred in residential occupancies. Educational facilities accounted for 21%; and 7% of the structure arsons in Middlesex County in 2019 happened in special properties.

## **BUILDING FIRES**

There were 3,762 building fires of different types in Middlesex County in 2019. These 3,762 building fires accounted for 99.6% of all structure fires in Middlesex County.

### **83% of Middlesex Building Fires Occurred in People's Homes**

Three thousand and sixty-seven (3,067), or 82%, of Middlesex County's 3,762 building fires occurred in residential occupancies. Two hundred and seventeen (217) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 154 fires. Hospitals, prisons, and other institutional buildings experienced 114 fires. Seventy-six (76) building fires took place in educational facilities. Forty-nine (49) building fires in Middlesex County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. Forty-eight (48) fires took place in storage properties. Twenty (20) fires in Middlesex County in 2019 took place in industrial, utility, defense, agricultural or mining facilities. Sixteen (16) fires occurred in manufacturing and processing facilities. The *Property Use* field was coded as 'Other' or was not reported for one fire.

## RESIDENTIAL FIRES

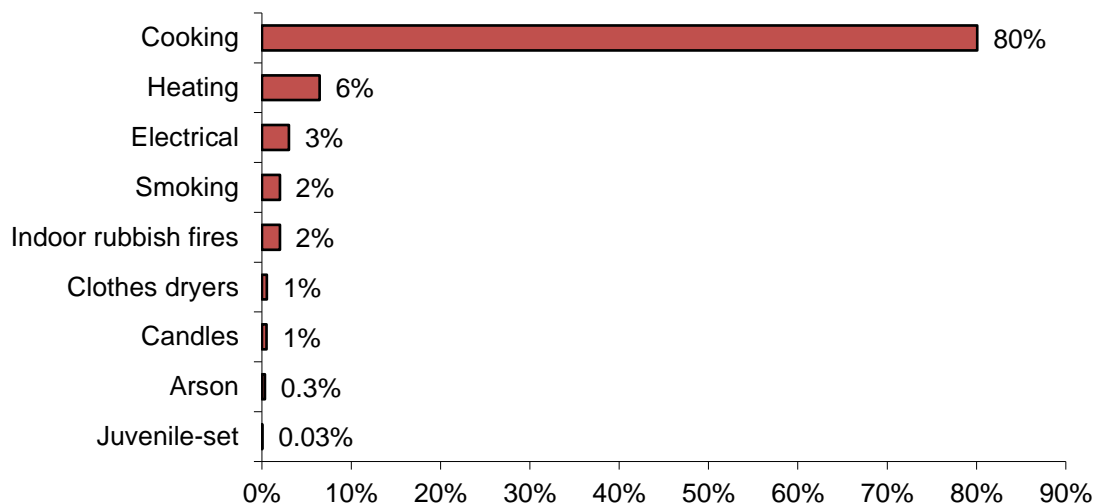
### Residential Building Fires Increased

There were 3,067 reported residential building fires in Middlesex County in 2019. These 3,067 fires are an increase of 48, or 2%, from the 3,019 residential building fires reported in 2018.

### Unsafe Cooking Caused 80% of All Residential Fires

The leading cause of residential building fires in Middlesex County was unattended cooking and other unsafe cooking practices, accounting for 80% of these fires. Heating caused 6% of fires in people's homes. Electrical problems caused 3%. Smoking and indoor rubbish fires each accounted for 2% of these fires. Candles and clothes dryers each caused 1%; and arson and juvenile-set fires each caused less than 1% of the residential fires in Middlesex County in 2019.

### 2019 Leading Causes of Fires in Middlesex County Homes



### 86% of Residential Building Fires Were Confined to Non-Combustible Containers<sup>3</sup>

Two thousand six hundred and thirty (2,630), or 86%, of all residential building fires were reported as confined to non-combustible containers in 2019. Two thousand three hundred and ninety-nine (2,399) of the reported fires were cooking fires contained to a non-combustible container, accounting for 78% of residential building fires. One hundred

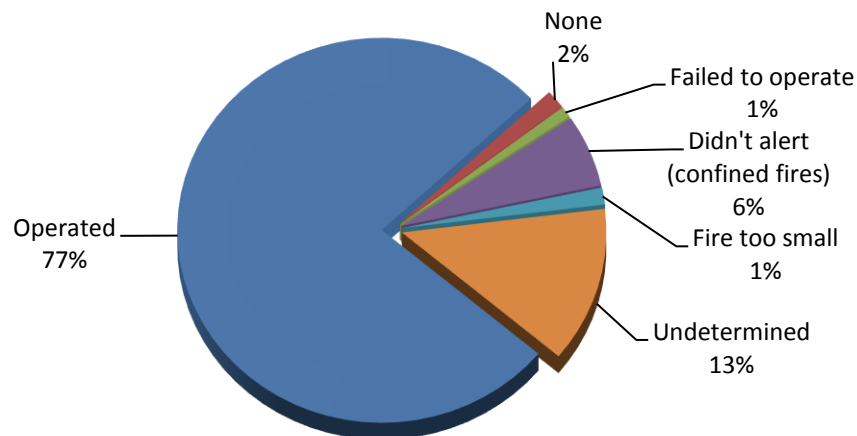
<sup>3</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing to Ignition, Cause of Ignition, and Equipment Involved In Ignition. These incidents are not included in the analysis of these fields.

and five (105), or 3%, were fires confined to a fuel burner or boiler malfunction. Seventy (70), or 2%, of all residential building fires reported in 2019 were fires confined to a chimney. Fifty-three (53), or 2%, of these fires were rubbish fires contained to a non-combustible container. Two (2) commercial compactor fires and one incinerator overload or malfunction each accounted for less than 1% of the residential fires in Middlesex County in 2019.

### Alarms Alerted Occupants in Over 3/4 of Fires

Smoke or heat alarms operated and alerted the occupants in 2,359, or 77%, of the residential building fires. In 6% of these fires<sup>4</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 1% of the residential fires. Smoke alarm performance was undetermined in 401 incidents, or 13%, of Middlesex County's residential building fires.

## Detector Status in Middlesex County's Residential Structure Fires 2019



### 31% of Failed Alarms Had Missing or Dead Batteries

Of the 29 fires where smoke alarms were present but failed to operate, seven, or 24%, failed because the batteries were either missing or disconnected. In two, or 7%, of these cases the batteries were dead. Two (2), or 7%, failed from a power failure, shutoff or disconnect. Two (2), or 7%, failed from a lack of maintenance; and another two, or 7%, failed because they were defective. One (1), or 3%, didn't work because of improper installation or placement; It was undetermined or unclassified in 13 cases, or 45%, why the alarms failed to operate.

<sup>4</sup> These represent confined fires where it was reported that the detector did not alert the occupants.

## VACANT BUILDINGS

### 1% of Building Fires Occurred in Vacant Buildings

Middlesex County reported 39 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 3,762 building fires reported to MFIRS in 2019. Twenty-five (25) fires occurred in vacant residential properties. Storage facilities had five of these fires. Three (3) happened in mercantile or business properties; and two occurred in educational facilities. One (1) each occurred in an public assembly property, an industrial facility and a special property in Middlesex County in 2019. Another vacant fire occurred in an unclassified property.

Two (2), or 5%, of the vacant building fires in Middlesex County in 2019 were determined to be intentionally-set. One (1) was in an unclassified educational facility and the other was in an unclassified property.

## JUVENILE-SET FIRES

### 5 Juvenile-set Fires

There were five reported juvenile-set fires in Middlesex County in 2019. There was one structure fire, two brush fires, one outside rubbish fire and one unclassified fire.

## ARSONS

### 69 Total Arsons — 15 Structures, 8 Vehicles & 46 Other Arsons

Sixty-nine (69), or 1%, of Middlesex County's 5,410 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 15 structure arsons, eight motor vehicle arsons and 46 outside and other arsons caused two civilian deaths, two civilian injuries, two fire service injuries and an estimated dollar loss of \$156,027.

### All Arson Up Slightly

The total number of reported arson fires increased by 20 from the 49 reported in 2018. Reported structure arsons decreased by three from the 18 reported in the previous year. Motor vehicle arsons increased by three from the five reported in 2018. Reported outside and other arsons increased by 20 from 26 the year before.

## ALL INCIDENTS

### Rescue & EMS Calls Are 58% of All Reported Responses

In 2019, fire departments in Middlesex County reported 213,749 responses<sup>5</sup> to MFIRS. This is a 3% increase from the 207,686 responses reported in 2018. Of these 213,749 incidents, 208,072 non-fire calls were voluntarily reported.

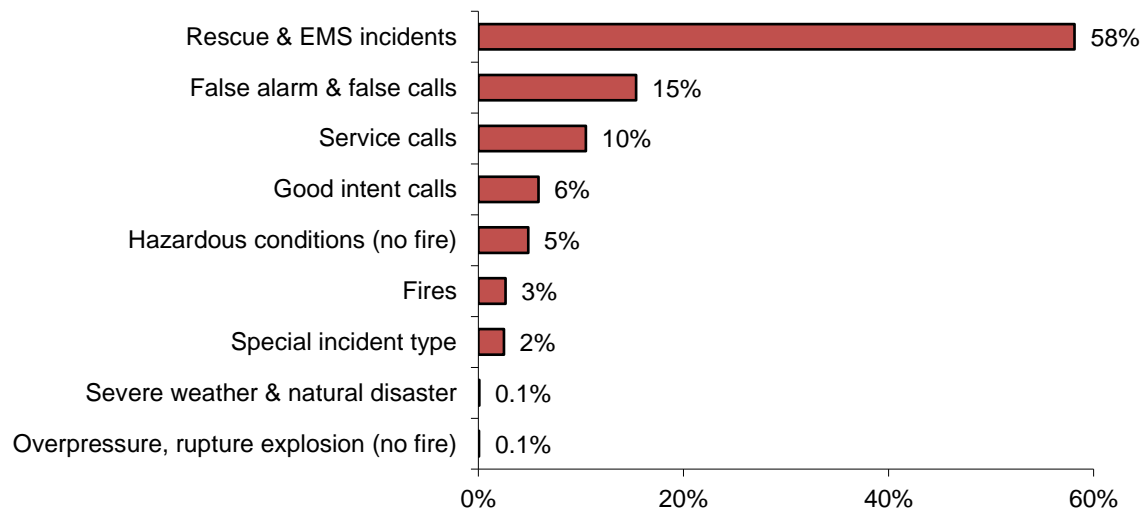
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<sup>5</sup> These figures include incidents in which Middlesex County fire departments gave mutual aid to other fire departments.

Of these 208,072 non-fire calls, 124,265, or 58%, of all the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 32,870, or 15%, were reported false alarm or false calls; 22,383, or 10%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 12,510, or 6%, were reported good intent calls; 10,400, or 5%, were reported hazardous condition calls with no fire; 5,333, or 2%, were special incident type calls such as citizen complaints; 173, or 0.1%, were severe weather responses; and 138, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

Five thousand six hundred and seventy-seven (5,677), or 3%, of the total responses submitted by Middlesex County fire departments were fires.

### 2019 Responses by Incident Type



### Middlesex County Fire Departments Gave Mutual Aid 4,012 Times

In 2019, Middlesex County fire departments reported coming to the aid of other fire departments 4,012 times. Of these 4,012 responses, 1,849, or 46%, were for rescue or EMS calls; 825, or 21%, were for service calls such as cover assignments; 792, or 20%, were for good intent calls; 267, or 7%, were for fires; 181, or 5%, were for false alarms or false calls; 78, or 2%, were for hazardous conditions calls with no fire; 16, or 0.4%, were special incident types; three, or 0.1%, were severe weather or natural disaster calls; and one, or 0.02%, was for a reported overpressure, rupture, explosion or overheat calls with no fire.

### Middlesex County Received Mutual Aid in 2,062 Incidents

In 2019, Middlesex County fire departments reported receiving aid from surrounding departments in 2,062 incidents. Of these 2,062 incidents, 1,388, or 67%, were rescue and emergency medical services calls; 234, or 11%, were for fires; 216, or 10%, were false alarms or false calls; 100, or 5%, were hazardous conditions calls with no fire; 60, or 3%, were good intent calls; 55, or 3%, were service calls; three, or 0.1%, were for reported

overpressure, rupture, explosion or overheat calls with no fire; another three, or 0.1%, was for a severe weather or natural disaster call; and another three, or 0.1%, was a special incident type.

**Middlesex County****Population: 1,503,085****3.6 Fires/1,000 Population****Total Fires: 5,410 \$41,464,515**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	3,778	70%	\$38,409,137
Vehicle Fires	386	7%	2,594,716
Other Fires	1,246	23%	460,662

7 Fatal Fires 1.66 Civilian Deaths/1,000 Fires  
 9 Civilian Deaths 0.06 Civilian Deaths/10,000 Population  
 44 Civilian Injuries 189 Fire Service Injuries

**Building Fires: 3,762****Residential Building Fires: 3,067****Residential Building Fires Confined to Non-Combustible Containers: 2,630****Unconfined Residential Building Fires: 437**

6 Civilian Deaths 27 Civilian Injuries 145 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	1,511	49%	Operated	2,359	77%
1- & 2-Family homes	907	30%	Didn't operate	29	1%
Dormitories	244	8%	None	48	2%
Rooming houses	92	3%	Fire too small	44	1%
Residential board & care	57	2%	Didn't alert (confined)	186	6%
Hotels or motels	26	1%	Undetermined	401	13%

<b>Area of Origin<sup>6</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Kitchen	82%	Heat from operating eq.	3%	18%
Heating equipment room	4%	Arcing	2%	11%
Chimney or flue	2%	Radiated heat/oper. eq.	1%	7%
Bedroom	1%	Cigarette	1%	7%
Living room	1%	Candle	1%	4%

<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	79%	Too close to combustibles	1%	9%
Flammable, combustible liquid	3%	Abandoned materials	1%	8%
Rubbish, trash, waste	2%	Electrical failure or malf.	1%	7%
Film, residue (creosote)	2%	Misuse of mater. or prod.	1%	5%
Electrical wire, cable insulation	1%	Failure to clean	0.5%	3%

<b>Equipment<sup>10</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>11</sup></b>
Cooking equipment	80%	Unintentional	9%	60%
None	9%	Failure of eq. or heat source	2%	14%
Boiler, furnace, cent. heat unit	3%	Intentional	0.2%	2%
Chimney or flue	2%	Act of nature	0.2%	1%
Clothes dryer	1%	Undetermined	1%	9%
Stove, heating	0.5%	Cause under investigation	2%	13%

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

Alerted occupants	81%
Didn't alert occupants	7%
Undetermined	12%

<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	442	360	36	46
February	363	310	23	30
March	496	390	22	84
April	458	301	27	130
May	432	270	34	128
June	471	285	37	149
July	487	270	44	173
August	473	259	26	188
September	510	334	32	144
October	438	336	32	70
November	430	320	37	73
December	410	343	36	31

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	877	612	65	200
Monday	724	491	47	186
Tuesday	825	565	61	199
Wednesday	743	532	55	156
Thursday	728	514	49	165
Friday	753	532	58	163
Saturday	760	532	51	177

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	223	145	17	61
04:01 - 08:00	338	234	37	67
08:01 - 12:00	935	684	79	172
12:01 - 16:00	1,438	897	118	423
16:01 - 20:00	1,646	1,194	80	372
20:01 - 00:00	830	624	55	151

### **Motor Vehicle Fires**

Total: 386

Automobiles: 290 (75%)

7, or (2%), of the automobile fires considered intentionally-set.

## Arson Fires

**Total Arsons: 69**

**Dollar loss: \$156,027**

### 0.05 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	15	0.4%	22%	\$72,650
Vehicle Arsons	8	2%	12%	82,800
Other Arsons	46	4%	67%	577

0.01 Structure arsons/1,000 population

0.005 Vehicle arsons/1,000 population

0.03 Other arsons/1,000 population

2 Civilian Deaths

2 Civilian Injuries

2 Fire Service Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 - 20:00	5	33%	16:01 - 20:00	3	38%
08:01 - 12:00	3	20%	04:01 - 08:00	2	25%
20:01 - 00:00	3	20%	20:01 - 0:00	2	25%

Other Arsons	#	%
12:01 - 16:00	17	37%
16:01 - 20:00	11	24%
20:01 - 00:00	9	20%

Peak Fixed Property Uses for Structure Arsons	#	%
1- & 2-Family homes	6	40%
Apartment buildings	3	20%

**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>
2015	43	24	1	18	1	0	0	1
2016	55	22	5	28	0	0	0	0
2017	38	17	3	18	0	0	0	0
2018	43	22	4	17	3	0	0	3
2019	36	21	5	10	1	0	0	1

**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>
2015	104	46	13	45	1	0	0	4
2016	93	43	7	43	5	0	0	5
2017	76	43	4	29	3	0	0	3
2018	111	68	10	33	1	0	0	1
2019	103	63	9	31	7	0	1	6

**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>
2015	Non-Reporting Community							
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	Fire Department in Good Standing, Certified No Reportable Fires							
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	2	2	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>
2015	3	3	0	0	0	0	0	0
2016	43	12	1	30	0	0	0	0
2017	46	15	1	30	1	1	0	0
2018	38	15	4	19	0	0	0	0
2019	32	14	2	16	1	0	0	1

<b>Ayer</b>					<b>Population: 7,427</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>
2015	33	14	2	17	0	0	0	0
2016	28	14	3	11	1	0	0	1
2017	18	8	2	8	0	0	0	0
2018	27	17	4	6	0	0	0	0
2019	18	8	2	8	1	0	0	1

<b>Bedford</b>					<b>Population: 13,320</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>
2015	22	10	3	9	0	0	0	0
2016	31	11	1	19	0	0	0	0
2017	13	6	2	5	1	0	0	1
2018	22	13	1	8	1	0	0	1
2019	25	11	6	8	1	0	1	0

<b>Belmont</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>
2015	81	58	4	19	1	0	0	1
2016	140	78	3	59	0	0	0	0
2017	72	54	2	16	1	0	0	1
2018	102	76	5	21	0	0	0	0
2019	99	75	2	22	0	0	0	0

<b>Billerica</b>					<b>Population: 40,243</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>
2015	164	40	19	105	0	0	0	0
2016	130	33	13	84	0	0	0	0
2017	94	46	15	33	0	0	0	0
2018	95	30	24	41	3	0	0	3
2019	81	33	15	33	2	0	1	1



**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>
2015	33	17	11	5	2	0	1	1
2016	39	15	14	10	1	0	1	0
2017	37	15	17	5	0	0	0	0
2018	39	23	11	5	0	0	0	0
2019	29	14	13	2	1	0	0	1

**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>
2015	58	17	5	36	3	2	1	0
2016	67	18	5	44	3	0	0	3
2017	36	12	3	21	0	0	0	0
2018	37	13	5	19	2	1	0	1
2019	42	22	2	18	4	1	0	3

**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>
2015	49	3	1	45	0	0	0	0
2016	13	4	2	7	0	0	0	0
2017	13	2	4	7	0	0	0	0
2018	4	2	0	2	0	0	0	0
2019	15	5	2	8	1	0	0	1

**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>
2015	64	22	16	26	4	1	1	2
2016	74	27	7	40	3	0	0	3
2017	53	29	4	20	1	0	0	1
2018	51	24	9	18	1	1	0	0
2019	47	23	9	15	0	0	0	0

<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>
2015	12	6	0	6	1	0	0	1
2016	17	6	2	9	2	0	0	2
2017	8	2	1	5	0	0	0	0
2018	16	12	0	4	2	2	0	0
2019	9	7	1	1	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>
2015	132	32	7	93	5	1	0	4
2016	140	53	8	79	2	1	0	1
2017	106	59	9	38	6	2	0	4
2018	101	58	8	35	3	0	1	2
2019	166	59	15	92	1	0	0	1

<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>
2015	632	483	28	121	0	0	0	0
2016	599	455	28	116	2	2	0	0
2017	574	466	20	88	0	0	0	0
2018	655	529	23	103	1	1	0	0
2019	582	507	20	55	2	1	0	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>
2015	20	12	1	7	1	0	0	1
2016	48	13	0	35	0	0	0	0
2017	25	11	3	11	2	0	1	1
2018	8	7	0	1	0	0	0	0
2019	13	6	3	4	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>
2015	1	1	0	0	0	0	0	0
2016	7	7	0	0	0	0	0	0
2017	8	8	0	0	0	0	0	0
2018	5	5	0	0	0	0	0	0
2019	1	1	0	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>
2015	29	16	4	9	0	0	0	0
2016	78	22	6	50	1	0	0	1
2017	42	19	5	18	0	0	0	0
2018	58	20	16	22	0	0	0	0
2019	40	14	12	14	0	0	0	0

**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>
2015	50	24	4	22	2	0	1	1
2016	74	24	1	49	10	1	0	9
2017	57	17	7	33	3	1	0	2
2018	41	17	5	19	2	0	1	1
2019	50	24	3	23	4	0	0	4

**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>
2015	40	14	10	16	2	1	0	1
2016	27	13	6	8	0	0	0	0
2017	33	11	8	14	0	0	0	0
2018	46	23	8	15	1	1	0	0
2019	36	9	9	18	3	1	0	2



**Lincoln****Population: 6,362**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	75	69	1	5	2	0	0	2
2016	30	28	0	2	0	0	0	0
2017	73	73	0	0	0	0	0	0
2018	96	94	0	2	1	0	0	1
2019	95	87	2	6	1	0	0	1

**Littleton****Population: 8,924**

	<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>
2015	40	10	6	24	0	0	0	0
2016	27	11	6	10	0	0	0	0
2017	19	5	6	8	0	0	0	0
2018	31	15	12	4	0	0	0	0
2019	25	5	13	7	1	1	0	0

**Lowell****Population: 106,519**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	496	314	28	154	10	6	3	1
2016	544	337	21	186	9	3	0	6
2017	385	261	33	91	4	0	2	2
2018	383	247	29	107	7	4	1	2
2019	320	204	18	98	2	1	0	1

**Malden****Population: 59,450**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	169	91	8	70	1	1	0	0
2016	133	60	3	70	0	0	0	0
2017	122	64	5	53	0	0	0	0
2018	143	61	11	71	0	0	0	0
2019	120	55	5	60	0	0	0	0

**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>
2015	142	43	21	78	2	0	0	2
2016	116	31	11	74	1	0	0	1
2017	105	22	16	67	0	0	0	0
2018	122	37	14	71	0	0	0	0
2019	104	42	10	52	0	0	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>
2015	18	9	1	8	2	0	1	1
2016	21	9	1	11	1	1	0	0
2017	27	19	1	7	0	0	0	0
2018	24	10	1	13	1	0	0	1
2019	27	19	2	6	3	0	0	3

**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>
2015	286	143	20	123	1	1	0	0
2016	242	143	16	83	0	0	0	0
2017	239	169	9	61	0	0	0	0
2018	215	131	25	59	0	0	0	0
2019	205	149	15	41	1	0	0	1

**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>
2015	17	9	4	4	0	0	0	0
2016	23	12	5	6	0	0	0	0
2017	20	15	4	1	3	3	0	0
2018	16	13	1	2	0	0	0	0
2019	227	201	4	22	1	0	0	1

**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>
2015	92	24	8	60	0	0	0	0
2016	107	29	8	70	0	0	0	0
2017	68	28	7	33	1	1	0	0
2018	67	19	6	42	0	0	0	0
2019	63	16	12	35	1	0	1	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>
2015	152	57	12	83	0	0	0	0
2016	205	87	8	110	0	0	0	0
2017	295	211	16	68	0	0	0	0
2018	280	222	8	50	1	1	0	0
2019	377	312	3	62	2	2	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>
2015	26	9	2	15	3	1	0	2
2016	46	13	7	26	5	0	0	5
2017	34	23	3	8	1	1	0	0
2018	34	18	6	10	2	0	0	2
2019	26	17	2	7	3	0	0	3

**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>
2015	40	18	6	16	0	0	0	0
2016	35	15	2	18	0	0	0	0
2017	26	14	1	11	0	0	0	0
2018	24	12	4	8	0	0	0	0
2019	27	22	1	4	0	0	0	0

**Reading** **Population: 24,747**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	63	30	7	26	4	0	0	4
2016	77	34	9	34	1	0	0	1
2017	58	28	10	20	5	0	0	5
2018	75	54	5	16	1	1	0	0
2019	71	45	6	20	11	2	0	9

**Sherborn** **Population: 4,119**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	22	8	3	11	1	1	0	0
2016	9	0	1	8	0	0	0	0
2017	15	4	1	10	0	0	0	0
2018	15	7	0	8	1	1	0	0
2019	7	2	1	4	1	0	0	1

**Shirley** **Population: 7,211**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	1	1	0	0	0	0	0	0
2016	3	2	0	1	0	0	0	0
2017	13	4	3	6	1	0	1	0
2018	14	9	2	3	0	0	0	0
2019	10	5	1	4	0	0	0	0

**Somerville** **Population: 75,754**

	<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>
2015	199	109	8	82	0	0	0	0
2016	413	309	12	92	5	0	5	0
2017	433	334	16	83	1	0	0	1
2018	434	353	16	65	1	1	0	0
2019	373	308	12	53	3	1	1	1

**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>
2015	101	40	10	51	0	0	0	0
2016	138	73	7	58	0	0	0	0
2017	96	63	8	25	0	0	0	0
2018	80	56	7	17	1	1	0	0
2019	80	54	8	18	1	1	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>
2015	22	11	1	10	2	0	0	2
2016	20	6	1	13	1	0	0	1
2017	11	5	1	5	0	0	0	0
2018	12	2	1	9	0	0	0	0
2019	13	8	1	4	1	1	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>
2015	33	8	5	20	0	0	0	0
2016	32	11	2	19	1	0	0	1
2017	8	6	0	2	0	0	0	0
2018	21	15	1	5	0	0	0	0
2019	16	7	2	7	0	0	0	0

**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>
2015	86	34	11	41	2	1	0	1
2016	91	19	11	61	1	0	0	1
2017	81	25	15	41	1	0	0	1
2018	87	30	6	51	1	0	1	0
2019	74	30	11	33	2	1	0	1

**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>
2015	26	7	2	17	3	0	0	3
2016	31	6	2	23	4	0	0	4
2017	23	14	1	8	3	0	0	3
2018	17	8	4	5	0	0	0	0
2019	26	11	2	13	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>
2015	26	2	9	15	0	0	0	0
2016	29	6	10	13	6	0	5	1
2017	25	11	7	7	1	0	0	1
2018	26	11	4	11	0	0	0	0
2019	35	17	8	10	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>
2015	51	43	7	1	0	0	0	0
2016	54	39	11	4	0	0	0	0
2017	60	48	8	4	0	0	0	0
2018	39	34	3	2	1	1	0	0
2019	39	25	11	3	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>
2015	226	88	23	115	4	2	0	2
2016	249	79	14	156	2	1	0	1
2017	165	67	21	77	3	2	0	1
2018	142	62	14	66	1	1	0	0
2019	136	58	24	54	6	2	3	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>
2015	76	24	9	43	1	0	1	0
2016	50	20	2	28	0	0	0	0
2017	40	17	4	19	0	0	0	0
2018	29	16	2	11	0	0	0	0
2019	41	14	5	22	0	0	0	0

**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>
2015	30	9	2	19	0	0	0	0
2016	29	8	1	20	0	0	0	0
2017	21	11	1	9	0	0	0	0
2018	25	9	1	15	1	0	0	1
2019	16	9	2	5	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>
2015	64	19	5	40	0	0	0	0
2016	71	15	2	54	1	0	0	1
2017	45	17	5	23	0	0	0	0
2018	43	21	2	20	1	0	0	1
2019	43	20	4	19	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>
2015	36	7	9	20	0	0	0	0
2016	38	12	5	21	0	0	0	0
2017	30	13	9	8	0	0	0	0
2018	29	13	7	9	1	0	1	0
2019	25	14	6	5	0	0	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>
2015	100	47	12	41	0	0	0	0
2016	95	26	8	61	0	0	0	0
2017	22	5	9	8	0	0	0	0
2018	35	10	11	14	3	0	0	3
2019	40	2	9	29	0	0	0	0

**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>
2015	44	22	6	16	1	1	0	0
2016	37	19	1	17	0	0	0	0
2017	26	10	2	14	0	0	0	0
2018	20	8	2	10	0	0	0	0
2019	20	15	2	3	0	0	0	0

**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>
2015	228	90	16	122	1	0	0	1
2016	243	99	20	124	4	1	0	3
2017	164	75	20	69	1	0	0	1
2018	199	126	24	49	2	0	0	2
2019	215	134	25	56	0	0	0	0



## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17002	Acton	4,289	36	6	1,592	173	497	108	335	1	1,541
17010	Arlington	5,038	118	3	3,181	450	423	142	696	23	2
17012	Ashby	126	2	0	56	7	45	5	11	0	0
17014	Ashland	2,331	34	5	1,558	133	136	86	363	2	14
17019	Ayer	699	26	0	122	52	294	36	165	4	0
17023	Bedford	2,606	30	5	1,393	151	198	99	342	0	388
17026	Belmont	2,907	102	4	1,467	152	337	266	569	7	3
17031	Billerica	4,942	82	7	3,130	271	604	128	698	10	12
17037	Boxborough	445	29	0	176	13	74	18	131	0	4
17048	Burlington	4,680	59	2	2,819	136	864	186	607	2	5
17049	Cambridge	15,349	1,011	16	6,699	912	827	2,475	3,394	5	10
17051	Carlisle*	0	0	0	0	0	0	0	0	0	0
17056	Chelmsford	29	29	0	0	0	0	0	0	0	0
17067	Concord	3,633	47	0	1,897	189	375	231	884	4	6
17919	Devens	702	20	0	241	28	241	24	144	0	4

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
17079	Dracut	3,777	47	0	2,369	119	477	149	613	2	1
17081	Dunstable	347	9	0	163	26	71	23	44	10	1
17093	Everett	6,493	175	1	4,460	218	330	473	827	1	8
17100	Framingham	11,519	582	3	7,578	212	1,070	719	1,351	2	2
17115	Groton	638	14	2	165	81	45	35	292	3	1
17136	Holliston	1	1	0	0	0	0	0	0	0	0
17139	Hopkinton	2,318	59	7	1,420	144	163	198	318	6	3
17141	Hudson	3,541	59	4	1,822	158	250	151	501	2	594
17155	Lexington	45	36	0	1	8	0	0	0	0	0
17157	Lincoln	1,335	101	1	788	50	46	110	237	0	2
17158	Littleton	2,093	33	2	1,334	68	222	163	271	0	0
17160	Lowell	15,093	332	11	9,603	631	1,184	729	2,544	8	51
17165	Malden	9,146	120	2	6,452	189	800	449	1,125	1	8
17170	Marlborough	7,666	107	2	5,044	280	604	361	1,103	2	163
17174	Maynard	1,328	30	1	783	38	169	106	199	2	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
17176	Medford	10,762	209	5	7,509	610	784	329	1,291	8	17
17178	Melrose	3,403	239	1	2,069	200	405	134	355	0	0
17198	Natick	5,401	68	1	3,188	229	591	428	882	9	5
17207	Newton	9,436	377	4	4,830	502	941	390	2,385	6	1
17213	North Reading	2,510	32	4	1,400	145	350	248	311	16	4
17232	Pepperell	1,269	27	0	949	54	49	40	149	0	1
17246	Reading	512	71	0	174	57	86	57	63	0	4
17269	Sherborn	560	9	0	332	58	44	37	76	4	0
17270	Shirley	814	14	1	577	35	60	31	95	0	1
17274	Somerville	13,958	408	7	6,404	1,126	2,288	683	2,407	3	632
17284	Stoneham	4,955	97	3	2,756	129	360	388	361	1	860
17286	Stow	933	22	3	648	32	57	46	123	0	2
17288	Sudbury	2,080	20	0	1,300	120	116	130	392	2	0
17295	Tewksbury	5,015	74	1	2,910	111	963	393	537	3	23
17299	Townsend	1,293	27	2	930	40	83	124	83	1	3

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
17301	Tyngsborough	1,670	35	2	1,104	30	156	86	251	3	3
17305	Wakefield	115	39	0	0	16	0	0	60	0	0
17308	Waltham	8,756	148	4	5,318	641	649	399	1,561	3	33
17314	Watertown	6,175	42	2	3,285	258	1,636	134	762	4	52
17315	Wayland	3,194	21	3	1,189	290	611	97	196	4	783
17330	Westford	3,348	45	2	1,933	103	496	146	611	0	12
17333	Weston	2,497	30	3	1,331	205	222	113	588	3	2
17342	Wilmington	3,187	40	0	2,248	40	324	151	357	0	27
17344	Winchester	2,427	37	2	1,396	261	197	122	406	3	3
17347	Woburn	6,215	216	3	4,158	149	546	330	776	3	34
<b>Middlesex County</b>		<b>213,601</b>	<b>5,677</b>	<b>137</b>	<b>124,251</b>	<b>10,330</b>	<b>22,360</b>	<b>12,506</b>	<b>32,842</b>	<b>173</b>	<b>5,325</b>

\* Certified no reportable fires.

\*\*Non reporting department.

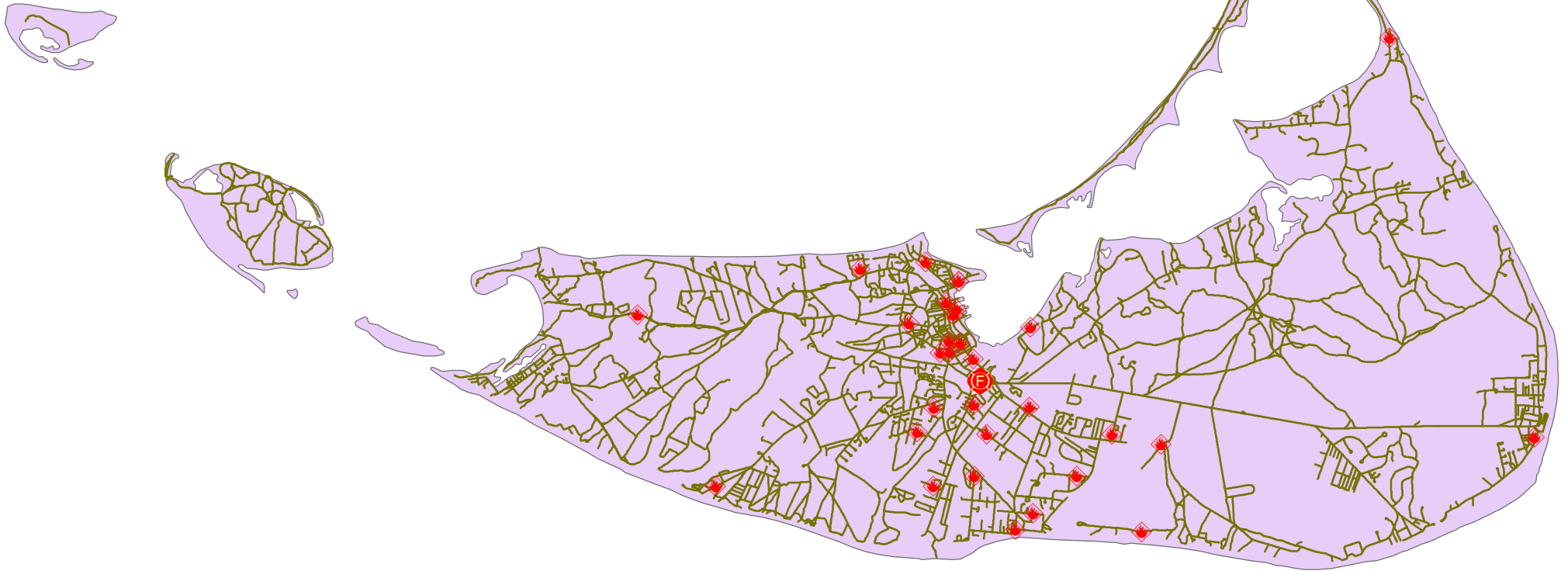
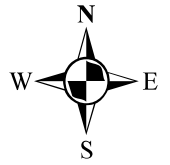
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any departments that wants to send all of their responses to do so.





# Nantucket County

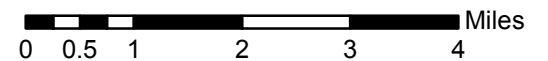
## 2019 Fire Data Analysis

# Nantucket County Fires 2019



## 2019 Nantucket Fires

-  2019 Nantucket Fires
-  Fire Stations



Massachusetts Fire Incident Reporting System 2019

# Nantucket County Fires in 2019

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## **31 Total Fires — 16 Structures, 2 Vehicles & 13 Outside and Other Fires**

Nantucket County ranked last out of the fourteen Massachusetts counties in total reported fires. The Nantucket Fire Department reported 31 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 16 structure fires, two motor vehicle fires, three brush fires, four outside rubbish fires, two special outside fires; and four unclassified fires caused one civilian injury and an estimated dollar loss of \$2.3 million. Nantucket County's fires accounted for 0.1% of the 25,176 Massachusetts fires reported in 2019.

## **Structure Fires Down**

The total number of reported fire incidents decreased by 18 from the 49 fires reported in 2018. Structure fires decreased by 21 from the 37 reported in 2018. Motor vehicle fires decreased by three from five reported the previous year. Reported outside and other fires increased by six from the seven reported in 2018.<sup>1</sup>

Nantucket is an island community with a small year round population. During the summer months, the population increases immensely. Consequently, 55% of Nantucket's fires occurred between the months of May and September.

## **NANTUCKET FIRES FROM 2015 TO 2019**

<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>
2015	80	51	7	22	0	0	0	0
2016	52	27	4	21	0	0	0	0
2017	54	19	13	22	4	2	1	1
2018	49	37	5	7	0	0	0	0
2019	31	16	2	13	0	0	0	0

## **Fire and Fire Death Rates**

Nantucket County had 3.0 fires per 1,000 population. That figure ranks Nantucket County tied for ninth in the state and below the state rate of 3.8 fires per 1,000 population. Nantucket County also had 0.0 fire deaths per 10,000 population, ranking it tied for last among Massachusetts counties and below the state rate of 0.06 fire deaths per 10,000 population.

## **0 Reported Fire Deaths in Nantucket County**

There were no fatal fires and fire deaths in 2019 in Nantucket County

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<sup>1</sup> 2019 was another down year across the state for brush fires.

**Restaurant Fire Largest Dollar Loss in 2019**

In 2019, Nantucket had one fire with a dollar loss greater than \$1 million. This fire was responsible for 55% of the total dollar loss for Nantucket in 2019.

- On August 4, 2019, at 12:50 p.m., the Nantucket Fire Department was called to an electrical fire at the Sconset's Summer House Inn and Restaurant. The fire started in a storage area. No one was injured at this fire. Alarms were present but it was undetermined if they operated. The building did have a dry sprinkler system but the fire was not in the area protected by the system. Damages to the building were estimated to be \$1.3 million.

**STRUCTURE FIRES****Reported Structure Fires Down**

There were 16 structure fires in Nantucket in 2019. These incidents represented 52% of Nantucket County's reported fires in 2019. These 16 fires caused one civilian injury and \$2.2 million in estimated losses in 2019. The total number of reported structure fires decreased by 21 from the 37 reported in 2018.

**No Reported Structure Arsons**

There were no reported structure arsons in Nantucket in 2019. The total number of reported structure arsons remained the same with none reported as well in 2018.

**BUILDING FIRES**

There were 16 building fires of different types in Nantucket County in 2019. These 16 building fires accounted for all of the structure fires in Nantucket County.

**3/4 of Nantucket Building Fires Occurred in People's Homes**

Twelve (12), or 75%, of Nantucket County's 16 building fires occurred in residential occupancies. Two (2) happened in storage facilities and one each in a public assembly property and a special property.

**RESIDENTIAL FIRES****Residential Building Fires Down**

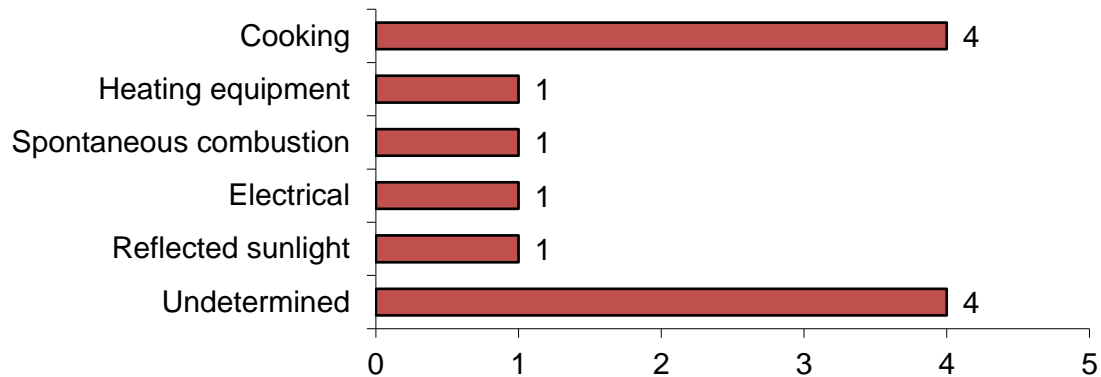
There were 12 reported residential building fires in Nantucket County in 2019. These 12 fires are a decrease of 16, or 57%, from the 28 reported in 2018. All 12 occurred in one- or two-family homes.

**Cooking Fires Caused 1/3 of Residential Fires**

The leading cause of residential building fires in Nantucket County was unattended cooking and other unsafe cooking practices, accounting for 4, or 33%, of these fires. Heating equipment, electrical problems, spontaneous combustion and sunlight reflected off a mirror each caused one, or 8%, of these fires. The cause was not determined for four, or 33%, of the residential fires.



### 2019 Leading Causes of Fires in Nantucket Homes



#### 5 Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

Five (5), or 42%, of all residential building fires were reported as confined to non-combustible containers in 2019. Four (4) of the reported fires were cooking fires contained to a non-combustible container accounting for 33% of the residential fires. One (1), or 8%, of Nantucket's residential fires was a fuel burner or boiler malfunction.

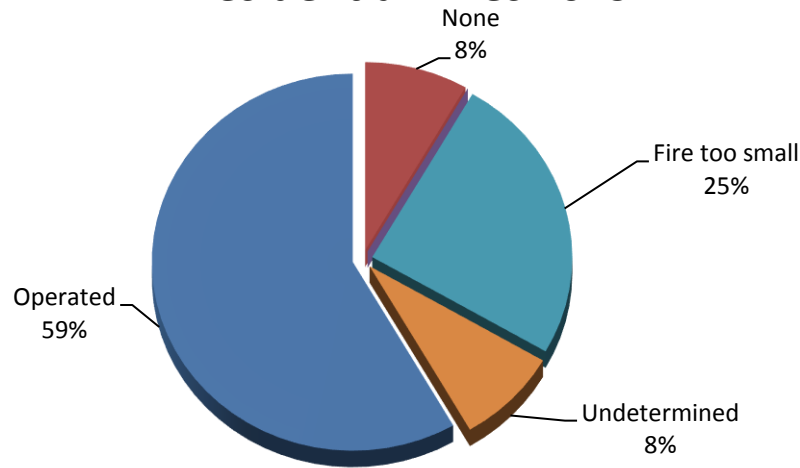
#### Detectors Operated Occupants in 59% of Fires

Smoke or heat detectors operated in seven, or 59%, of the residential building fires. There were no reported fires<sup>3</sup>, where detectors did not alert the occupants. There were no fires where the detector failed to operate. There was one reported fire where there were no detectors, accounting for 8% of these fires. The fire was too small to activate the detector in three, or 25%, of these fires. Detector performance was undetermined in one, or 8%, of Nantucket's residential fires.

<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.

<sup>3</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 2019



### VACANT BUILDING FIRES

#### 2 Building Fires Occurred in Vacant Buildings

Nantucket County reported two fires that occurred in a building that was vacant, under construction or demolition. Both of these were single-family homes and accounted for 13% of all building fires.

None of the vacant building fires were reported as arson.

### JUVENILE-SET FIRES

#### 0 Juvenile-set Fire

Nantucket County did not report any juvenile-set fires in 2019.

### ARSONS

#### 0 Total Arsons<sup>4</sup> — 0 Structures, 0 Vehicles & 0 Other Arsons

In 2019, Nantucket did not report any arsons.

#### All Arson Remained the Same

The total number of arsons remained the same with zero arsons reported in both 2018 and 2019.

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<sup>4</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

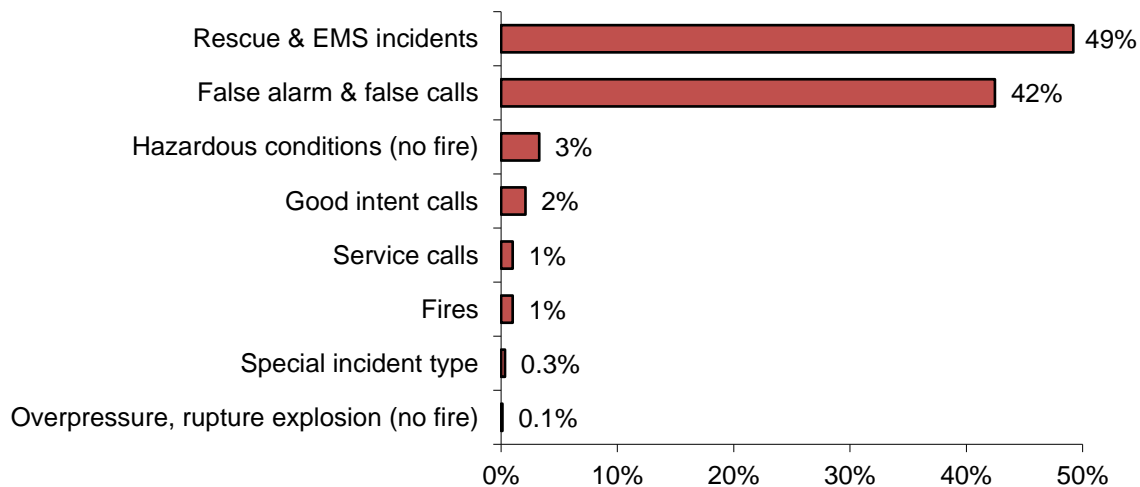
### Rescue & EMS Calls Are 49% of All Reported Incidents

In 2019, Nantucket County reported 2,443 responses to MFIRS. Of these 2,443 incidents, 2,412 non-fire calls were voluntarily reported.

Of these 2,412 non-fire calls, 1,202, or 49%, of the total responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 1,037, or 42%, were reported false alarm or false calls; 80, or 3%, were reported hazardous condition calls with no fire; 51, or 2%, were reported good intent calls; 31, or 1%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; eight, or 0.3%, were special incident types; and three, or 0.1%, were overpressure, rupture or explosion calls with no fire.

Thirty-one (31), or 1%, of the total responses submitted by the Nantucket Fire Department were fires.

### 2019 Incidents by Incident Type



### Nantucket Reported Giving Aid in 4 Calls

In 2019, Nantucket reported giving mutual aid for four calls. Two of these were for rescue or EMS calls; one was a false alarm or false call; and the other was a hazardous condition call with no fire.

### Nantucket Reported Receiving Aid in 5 Calls

In 2019, Nantucket reported receiving mutual aid for five calls. Two (2) were false alarm or false calls; two were for hazardous condition calls with no fire; and one was for a rescue or EMS call.

**Nantucket County****Population: 10,172****3.0 Fires/1,000 Population****Total Fires: 31 \$2,256,104**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	16	52%	\$2,241,104
Vehicle Fires	2	6%	15,000
Other Fires	13	42%	0

0 Fatal Fires 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Deaths 0.0 Civilian Deaths/10,000 Population  
 1 Civilian Injury

**Building Fires: 16****Residential Structure Fires: 12****Residential Structure Fires Confined to Non-Combustible Containers: 5****Unconfined Residential Structure Fires: 7**

1 Civilian Injury

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	12	100%	Operated	7	59%
			Didn't operate	0	0%
			None	1	8%
			Fire too small	3	25%
			Didn't alert (confined)	0	0%
			Undetermined	1	8%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>% Unconfined<sup>6</sup></b>
Kitchen	33%	Arcing	8%	14%
Wall surface, exterior	25%	Spontaneous combustion	8%	14%
Vehicle storage area, garage	17%	Sunlight, magnified	8%	14%

<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>
Cooking materials	33%	Installation deficiency	8%	14%
Exterior sidewall covering	17%	Unspecified short circuit arc	8%	14%
Flammable or combustible liquid	8%			
Structural component, other	8%			

<b>Equipment<sup>9</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>10</sup></b>
None	58%	Unintentional	25%	43%
Cooking equipment	33%	Act of nature	0%	0%
Boiler, furnace, cent. heat. unit	8%	Failure of eq. or heat source	8%	14%
		Cause under investigation	17%	29%
		Undetermined	8%	14%
		Intentional	0%	0%

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

Alerted Occupants	100%
Didn't Alert Occupants	0%
Undetermined	0%

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

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

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	3	1	0	2
04:01 - 08:00	4	2	1	1
08:01 - 12:00	3	1	1	1
12:01 - 16:00	8	5	0	3
16:01 - 20:00	9	4	0	5
20:01 - 00:00	3	3	0	1

### **Motor Vehicle Fires**

Total: 2

Automobiles: 1 (50%)

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

**Arson Fires****Total Arsons: 0****Dollar loss: \$0****0.0 Arson Fires/1,000 Population**

<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	0	0%	0%	0

0.00 Structure arsons/1,000 population

0.00 Vehicle arsons/1,000 population

0.00 Other arsons/1,000 population

No Injuries

**Peak Times of Day for:**

<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>
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## 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</b>	<b>December</b>
Fires	36	0	3	2	3	3	2	6	4	2	6	3	2
Overpressure, rupture explosion (no fire)	3	1	0	0	0	0	0	0	2	0	0	0	0
Rescue & EMS incidents	1,202	63	63	52	56	63	94	230	204	121	89	74	93
Hazardous conditions (no fire)	80	4	7	5	3	7	4	17	10	5	4	10	4
Service calls	31	5	1	4	1	1	2	5	1	2	3	2	4
Good intent calls	51	1	1	7	5	1	4	10	5	6	5	3	3
False alarm & false calls	1,037	68	34	59	60	65	83	159	157	100	101	86	65
Severe weather & natural disaster	0	0	0	0	0	0	0	0	0	0	0	0	0
Special incident type	8	0	1	2	0	0	1	0	1	1	1	1	0
<b>Total</b>	<b>2,448</b>	<b>142</b>	<b>110</b>	<b>131</b>	<b>128</b>	<b>140</b>	<b>190</b>	<b>427</b>	<b>384</b>	<b>237</b>	<b>209</b>	<b>179</b>	<b>171</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 want to send all of their responses to do so.

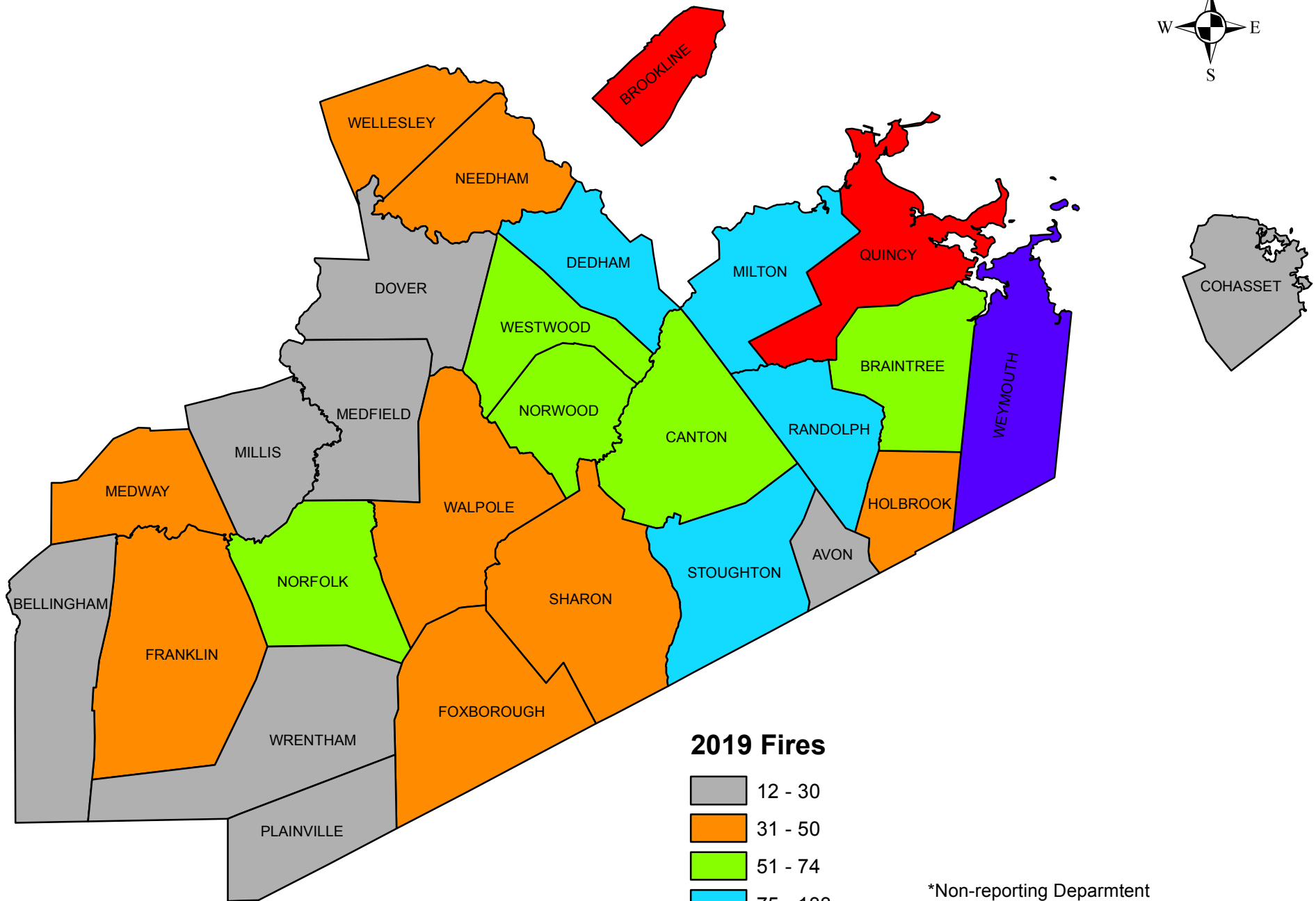




# Norfolk County

## 2019 Fire Data Analysis

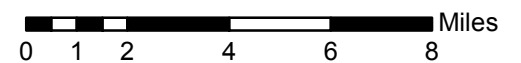
# Norfolk County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2019

# Norfolk County Fires in 2019

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## **2,554 Total Fires — 1,704 Structures, 210 Vehicles & 640 Other Fires**

Norfolk County ranked fourth out of the fourteen Massachusetts counties in total reported fires. Norfolk County fire departments reported 2,554 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 1,704 structure fires, 210 motor vehicle fires, 345 brush, tree or lawn fires, 135 outside rubbish fires, 66 special outside fires, 15 cultivated vegetation or crop fires, and 79 other fires caused 13 civilian injuries, 59 fire service injuries and an estimated dollar loss of \$23.4 million. Norfolk County's fires accounted for 10% of the 25,176 Massachusetts fires reported in 2019.

All 28 fire departments in Norfolk County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2019.

## **Structure Fires Up**

The total number of reported fire incidents decreased by 13 from the 2,541 reported in 2018. Reported structure fires increased by 146 from the 1,558 reported during the previous year. Motor vehicle fires decreased by 39 from the 249 reported the year before. Reported outside and other fires decreased 94 from the 736 reported a year earlier.<sup>1</sup>

## **NORFOLK COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	3,223	1,825	225	1,173	59	8	5	46
2016	3,207	1,679	216	1,312	54	9	2	43
2017	2,990	1,811	220	959	68	16	1	51
2018	2,541	1,558	249	734	48	8	3	37
2019	2,554	1,704	210	640	42	6	1	35

## **Fire and Fire Death Rates**

Norfolk County had 3.8 fires per 1,000 population. That figure ranks Norfolk County third in the state and tied with the state rate of 3.8 fires per 1,000 population. Norfolk County also had 0 fire deaths per 10,000 population ranking it tied for tenth among Massachusetts counties and below the state rate of 0.06 fire deaths per 10,000 population.

## **0 Norfolk Fires Death**

In 2019, there were no fire deaths in Norfolk County.

## **Stoughton Has Norfolk County's Largest Loss Fire in 2019**

There were eight reported fires in Norfolk County that caused over \$1 million in estimated damages. These eight fires accounted for \$10.3 million in estimated damages and 44% of the total dollar loss for the county.

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<sup>1</sup> 2019 was another down year for brush fires across the state.

- The Stoughton Fire Department was dispatched to a fire caused by a lightning strike at a 65-unit apartment building at 4:34 a.m. on July 18, 2019. No one was injured at this fire. Alarms were present but it was undetermined why they failed. Sprinklers were not present in the building. Damages from this fire were estimated to be \$2 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Up**

The 1,704 structure fires caused 10 civilian injuries, 54 fire service injuries and an estimated dollar loss of \$21.3 million. These incidents represented 67% of Norfolk County's reported fires in 2019. The average estimated dollar loss per structure fire was \$12,504. The total number of reported structure fires increased by 146, or 9%, from the 1,558 reported in 2018.

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

The six structure arsons caused an estimated dollar loss of \$3,000. Arson was indicated as the cause of less than 1% of the structure fires and less than 1% of Norfolk County's structure fire dollar loss. The six structure arsons accounted for 14% of the Norfolk County arson fires reported in 2019. The total number of reported structure arsons decreased by two, or 25%, from eight in 2018.

### **83% of Structure Arsons Occurred in Residential Properties**

Five (5), or 83%, of Norfolk County's six structure arsons occurred in residential occupancies. One (1) fire, or 17%, took place in a convenience store.

## **BUILDING FIRES**

There were 1,701 building fires of different types in Norfolk County in 2019. These 1,701 building fires accounted for 99.8% of all structure fires in Norfolk County.

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

One thousand four hundred and eighty (1,480), or 87%, of Norfolk County's 1,701 building fires occurred in residential occupancies. Seventy-four (74) fires took place in public assembly properties, including restaurants and churches. Mercantile and business properties had 53 fires. Hospitals, prisons, and other institutional buildings experienced 29 fires. Twenty-one (21) building fires took place in educational properties. Fifteen (15) fires took place in storage properties. Ten (10) fires took place in manufacturing and processing facilities. Nine (9) building fires in Norfolk County occurred in special properties such as outbuildings, bus stop shelters and telephone booths. Three (3) fires occurred in industrial buildings, and seven fire occurred in unclassified buildings in Norfolk County in 2019.

## 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 51% of the residential building fires in Norfolk County; 35% occurred in 1- or 2-family homes; 4% happened in rooming houses; 3% occurred in dormitories; 1% occurred in residential board and care facilities; and 1% happened in hotels or motels. Seventy-six (76), or 5%, of the residential building fires in Norfolk County occurred in unclassified residential buildings.

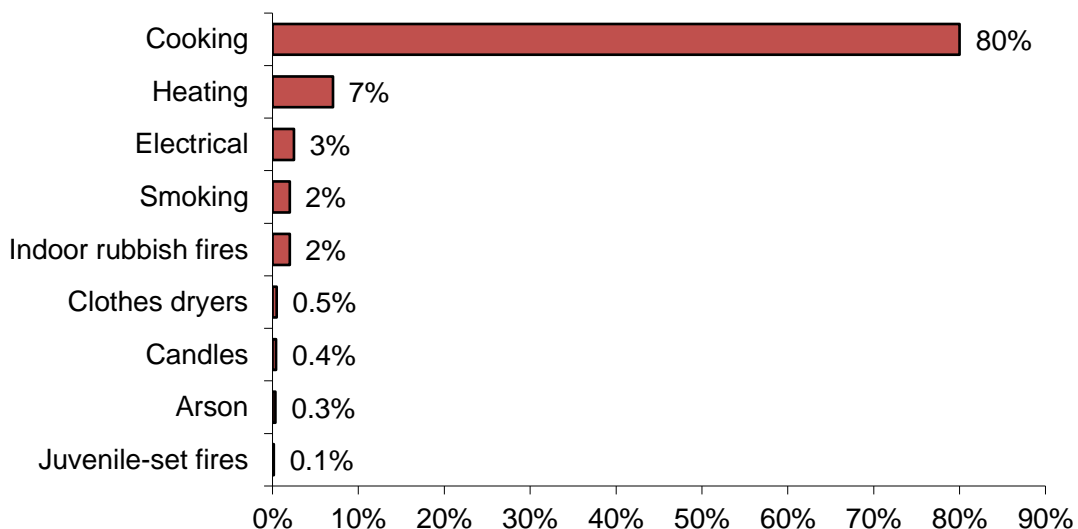
### Residential Building Fires Up

There were 1,480 reported residential building fires in Norfolk County in 2019. These 1,480 fires are an increase of 131, or 10%, from the 1,349 residential building fires reported in 2018.

### Cooking Caused 80% of Residential Fires

The leading cause of residential building fires in Norfolk County was unattended cooking and other unsafe cooking practices, accounting for 80% of the fires. Heating caused 7% of fires in people's homes. Electrical problems caused 3%. Indoor rubbish fires and smoking each caused 2% of these fires. Clothes dryers, candles, arson and juvenile-set fires each caused less than 1% of the residential building fires in Norfolk County in 2019.

### 2019 Leading Causes of Fires in Norfolk County Homes



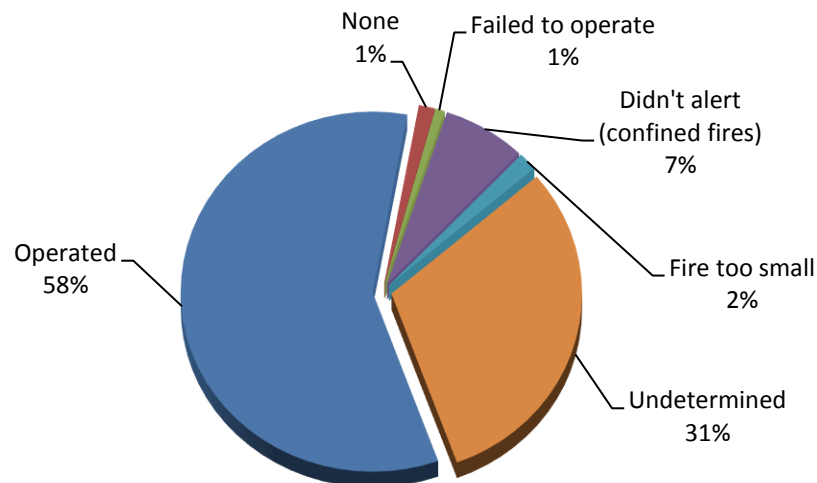
### 86% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

One thousand two hundred and seventy-nine (1,279), or 86%, of all residential building fires were reported as confined to non-combustible containers in 2019. One thousand one hundred and sixty-seven (1,167) of the reported fires were cooking fires contained to a non-combustible container, accounting for 79% of residential building fires. Forty-eight (48), or 3%, of all residential building fires reported in 2019 were fires confined to a chimney. Forty-three (43), or 3%, were fires confined to a fuel burner or boiler malfunction. Twenty-one (21), or 1% of Norfolk County's residential fires in 2019 were contained rubbish fires.

### Detectors Alerted Occupants in 58% of Fires

Smoke or heat detectors operated and alerted the occupants in 865, or 58%, of the residential building fires. In 7% 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 1% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 2% of the residential fires. Smoke detector performance was undetermined in 454 incidents, or 31%, of Norfolk County's residential building fires.

### Detector Status in Norfolk County's Residential Structure Fires 2019



<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.

<sup>3</sup> These represent confined fires where it was reported that the detector did not alert the occupants.

**1/2 Detectors Failed from Missing or Dead Batteries**

Of the 12 fires where smoke detectors were present but failed to operate, three, or 25%, failed because of missing or disconnected batteries and three, or 25% failed because of dead batteries. It was undetermined or unclassified in six cases, or 50%, why the detectors failed to operate.

**VACANT BUILDINGS****1% of Building Fires Occurred in Vacant Buildings**

Norfolk County reported 17 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 1,813 building fires reported to MFIRS in 2019. Twelve (12) fires occurred in vacant residential properties. Three (3) happened in storage facilities. A mercantile or business property and an industrial facility each had one fire in a vacant building.

None, of the vacant building fires in Norfolk County in 2019 were determined to be intentionally-set.

**JUVENILE-SET FIRES****6 Juvenile-set Fires**

There were six reported juvenile-set fires in Norfolk County in 2019. The three structure fires and three brush fires caused \$2,500 in estimated damages.

**ARSONS****42 Total Arsons - 6 Structures, 1 Vehicle & 35 Other Arsons**

Forty-two (42), or 2%, of Norfolk County's 2,554 fires were intentionally-set, or, for purposes of this analysis, arson. The six structure arsons, one motor vehicle arson and 35 outside and other arsons caused an estimated loss of \$6,000.

**All Arsons Down**

The total number of reported arson fires decreased by six from the 48 reported in 2018. Reported structure arsons decreased by two from the eight reported the previous year. Motor vehicle arsons decreased by two from the three reported in 2018. Reported outside and other arsons decreased by two from 37 the year before.

**ALL INCIDENTS****Rescue & EMS Calls Are 62% of All Reported Incidents**

In 2019, fire departments in Norfolk County reported 108,489 responses<sup>4</sup> to MFIRS. Of these 108,489 incidents, 105,744 non-fire calls were voluntarily reported.

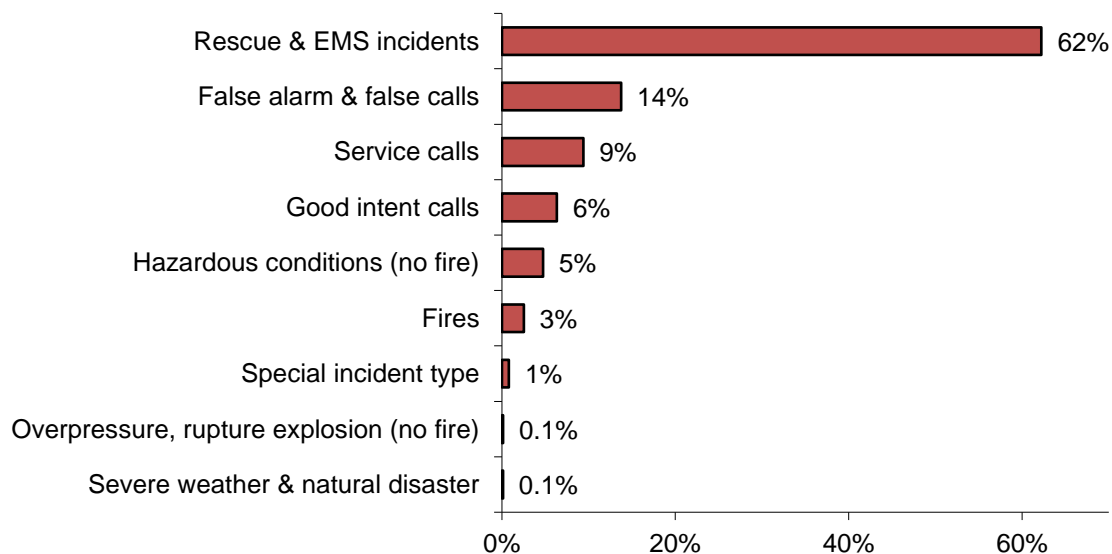
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<sup>4</sup> These figures include responses in which Norfolk County fire departments gave mutual aid to other fire departments.

Of these 105,744 non-fire incidents, 67,501, or 62%, of all the incidents reported in 2019 were reported rescue and emergency medical services (EMS) calls; 14,906, or 14%, were reported false alarm or false calls; 10,177, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 6,888, or 6%, were reported good intent calls; 5,137, or 6%, were reported hazardous condition calls with no fire; 879, 1%, were special incident type calls such as citizen complaints; 132, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 124, or 0.1%, were severe weather responses;.

Two thousand seven hundred and forty-five (2,745), or 3%, of the total responses submitted by Norfolk County fire departments were fires.

### 2019 Responses by Incident Type



### Norfolk County Fire Departments Gave Mutual Aid 3,393 Times

In 2019, Norfolk County fire departments reported coming to the aid of other fire departments 3,393 times. Of these 3,393 responses, 1,893, or 56%, were for rescue or EMS calls; 583 or 17%, were for good intent calls; 520, or 15%, were for service calls such as cover assignments; 191, or 6%, were for fires; 134, or 4%, were for false alarms or false calls; 44, or 1%, were for hazardous conditions calls with no fire; 25, or 1%, were special incident types; two, or 0.1%, were severe weather or natural disaster calls; and one, or 0.03%, was an overpressure, rupture explosion with no fire call.

### Norfolk County Received Mutual Aid in 1,854 Incidents

In 2019, Norfolk County fire departments reported receiving aid from surrounding departments in 1,854 incidents. Of these 1,854 incidents, 1,432, or 77%, were rescue and emergency medical services calls; 140, or 8%, were false alarms or false calls; 131, or 7%, were for fires; 85, or 5%, were good intent calls; 33, or 2%, were hazardous



conditions calls with no fire; 29 or 2%, were service calls; three, or 0.2%, were overpressure, rupture explosions with no fire; and one, or 0.1%, was for a severe weather or natural disaster call.

**Norfolk County****Population: 670,850****3.8 Fires/1,000 Population****Total Fires: 2,554 \$23,412,582**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	1,704	67%	\$21,306,161
Vehicle Fires	210	8%	1,900,110
Other Fires	640	25%	206,311

0 Fatal Fires 0.00 Civilian Deaths/1,000 Fires  
 0 Civilian Deaths 0.00 Civilian Deaths/10,000 Population  
 13 Civilian Injuries 59 Fire Service Injuries

**Building Fires: 1,701****Residential Structure Fires: 1,480****Residential Structure Fires Confined to Non-Combustible Containers: 1,279****Unconfined Residential Structure Fires: 201**

0 Civilian Deaths 10 Civilian Injuries 39 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	748	51%	Operated	865	58%
1- & 2-Family homes	523	35%	Didn't operate	12	11%
Rooming houses	61	4%	None	20	1%
Dormitories	43	3%	Fire too small	24	2%
Residential board & care	17	1%	Didn't alert (confined)	105	7%
Hotels or motels	12	1%	Undetermined	454	31%

<b>Area of Origin<sup>5</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>6</sup></b>
Kitchen	82%	Heat from operating equip.	2%	14%
Heating equipment room	3%	Arcing	2%	12%
Chimney or flue	3%	Hot or smoldering object	1%	8%
Bedroom	1%	Radiated heat from oper. eq.	1%	6%
Exterior balcony, unencl. porch	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	79%	Misuse of mater. or prod.	1%	11%
Flammable/comb. liquid	3%	Too close to combustibles	1%	10%
Film, residue (creosote)	3%	Equipment unattended	1%	9%
Rubbish, trash, waste	2%	Abandoned materials	1%	9%
Electrical wire, cable insulation	1%	Failure to clean	1%	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	80%	Unintentional	8%	58%
None	9%	Failure of eq. or heat source	1%	11%
Boiler, furnace, cent. heat. unit	3%	Intentional	0.1%	1%
Chimney, flue	3%	Act of nature	0.11%	0.5%
Stove, heating	1%	Cause under investigation	2%	15%
Clothes dryer	0.5%	Undetermined	2%	12%

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

Alerted occupants	59%
Didn't alert occupants	8%
Undetermined	33%

<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	233	191	9	33
February	180	140	22	18
March	227	140	26	61
April	190	113	19	58
May	216	144	19	53
June	213	131	11	71
July	202	100	21	81
August	216	109	23	84
September	232	133	24	75
October	202	154	10	38
November	237	178	12	47
December	206	171	14	21

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	413	275	28	110
Monday	389	246	32	111
Tuesday	356	250	29	77
Wednesday	325	228	29	68
Thursday	345	247	31	67
Friday	330	217	24	89
Saturday	396	241	37	118

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	120	76	19	25
04:01 - 08:00	158	100	20	38
08:01 - 12:00	445	295	49	101
12:01 - 16:00	659	382	52	225
16:01 - 20:00	802	573	45	184
20:01 - 00:00	370	278	25	67

### **Motor Vehicle Fires**

Total: 210

Automobiles: 163 (78%)

1, or (1%), of the automobile fires were considered intentionally-set.

## Arson Fires

**Total Arsons: 42**

**Dollar loss: \$6,000**

### 0.06 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Loss
Structure Arsons	6	0.4%	14%	\$3,000
Vehicle Arsons	1	0.5%	2%	5,000
Other Arsons	35	5%	83%	4,000

0.01 Structure arsons/1,000 population

0.001 Vehicle arsons/1,000 population

0.05 Other arsons/1,000 population

No Injuries

### Peak Times of Day for

Structure Arsons	#	%	Vehicle Arsons	#	%
08:01 - 12:00	2	33%	04:01 - 08:00	1	100%
00:01 - 04:00	1	17%			
04:01 - 08:00	1	17%			
16:01 - 20:00	1	17%			
20:01 - 00:00	1	17%			

Other Arsons	#	%
12:01 - 16:00	14	40%
20:01 - 00:00	8	23%
08:01 - 12:00	6	17%

Peak Fixed Property Uses for Structure Arsons	#	%
1- and 2-Family homes	3	50%
Apartments	1	17%
Residential board & care	1	17%
Convenience store	1	17%

<b>Avon</b>					<b>Population: 4,356</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>
2015	42	4	13	25	2	0	1	1
2016	43	3	10	30	2	0	0	2
2017	35	7	8	20	0	0	0	0
2018	24	7	9	8	2	0	0	2
2019	24	7	4	13	3	0	0	3

<b>Bellingham</b>					<b>Population: 16,332</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>
2015	58	25	8	25	2	2	0	0
2016	40	11	6	23	1	1	0	0
2017	50	13	8	29	1	1	0	0
2018	36	16	9	11	2	1	0	1
2019	30	8	8	14	2	0	0	2

<b>Braintree</b>					<b>Population: 35,744</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>
2015	115	31	15	69	6	0	2	4
2016	89	20	12	57	1	1	0	0
2017	90	23	16	51	4	0	0	4
2018	70	15	20	35	1	0	0	1
2019	69	14	12	43	0	0	0	0

<b>Brookline</b>					<b>Population: 58,732</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>
2015	391	332	11	48	3	2	0	1
2016	442	346	7	89	1	0	0	1
2017	402	340	11	51	1	0	0	1
2018	385	350	7	28	3	1	0	2
2019	493	454	8	31	0	0	0	0

<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>
2015	25	13	6	6	0	0	0	0
2016	34	15	8	11	0	0	0	0
2017	58	27	15	16	0	0	0	0
2018	77	32	13	32	2	2	0	0
2019	66	34	14	18	1	1	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>
2015	92	74	1	17	3	0	0	3
2016	78	52	4	22	3	0	0	3
2017	79	61	4	14	4	0	0	4
2018	45	26	1	18	5	0	0	5
2019	28	16	3	9	0	0	0	0

<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>
2015	210	120	11	79	6	0	0	6
2016	181	86	13	82	7	0	0	7
2017	146	78	9	59	4	1	0	3
2018	144	80	11	53	3	0	0	3
2019	89	54	13	22	3	0	0	3

<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>
2015	8	6	0	2	1	1	0	0
2016	12	4	0	8	0	0	0	0
2017	11	7	0	4	0	0	0	0
2018	19	8	1	10	0	0	0	0
2019	12	6	1	5	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>
2015	36	8	2	26	0	0	0	0
2016	50	12	11	27	0	0	0	0
2017	44	15	8	21	0	0	0	2
2018	60	19	21	20	2	0	1	1
2019	39	13	13	13	5	0	0	5

**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>
2015	76	24	12	40	0	0	0	0
2016	71	12	15	44	3	1	1	1
2017	50	19	5	26	3	0	0	3
2018	58	24	14	20	1	0	0	1
2019	46	20	7	19	0	0	0	0

**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>
2015	44	18	2	24	2	1	0	1
2016	52	28	3	21	0	0	0	0
2017	42	32	5	5	2	2	0	0
2018	45	27	6	12	0	0	0	0
2019	38	23	3	12	0	0	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>
2015	22	8	1	13	2	0	0	2
2016	17	5	0	12	7	0	0	7
2017	25	5	0	20	9	0	0	9
2018	17	9	1	7	3	0	0	3
2019	17	6	2	9	0	0	0	0



**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>
2015	39	32	1	6	0	0	0	0
2016	49	21	5	23	2	1	0	1
2017	52	39	1	12	2	1	0	1
2018	33	23	2	8	0	0	0	0
2019	37	27	3	7	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>
2015	Non-Reporting Community							
2016	Non-Reporting Community							
2017	Non-Reporting Community							
2018	Non-Reporting Community							
2019	15	6	0	9	1	0	0	1

**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>
2015	193	126	17	50	4	0	0	4
2016	191	128	21	42	6	0	0	6
2017	166	116	14	36	3	0	0	3
2018	69	48	8	13	0	0	0	0
2019	111	87	10	14	2	0	0	2

**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>
2015	101	34	5	62	2	0	0	2
2016	59	11	4	44	0	0	0	0
2017	53	13	11	29	3	1	0	2
2018	35	7	2	26	0	0	0	0
2019	50	10	8	32	1	0	0	1

<b>Norfolk</b>					<b>Population: 11,227</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>
2015	59	41	3	15	1	1	0	0
2016	54	40	1	13	1	1	0	0
2017	71	53	1	17	3	1	0	2
2018	52	39	3	10	0	0	0	0
2019	74	68	1	5	0	0	0	0

<b>Norwood</b>					<b>Population: 28,602</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>
2015	159	44	9	106	0	0	0	0
2016	143	42	3	98	2	1	0	1
2017	89	34	9	46	0	0	0	0
2018	82	32	7	43	1	0	1	0
2019	63	30	6	27	1	0	1	0

<b>Plainville</b>					<b>Population: 8,264</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>
2015	53	30	2	21	1	0	0	1
2016	47	20	5	22	2	0	0	2
2017	40	21	2	17	1	0	0	1
2018	16	6	2	8	0	0	0	0
2019	22	8	2	12	1	0	0	1

<b>Quincy</b>					<b>Population: 92,271</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>
2015	658	402	35	221	13	0	0	13
2016	540	258	22	260	11	0	1	10
2017	641	406	19	216	9	0	0	9
2018 <sup>11</sup>	512	337	30	145	8	1	0	7
2019	588	414	23	151	9	2	0	7

<sup>11</sup> Quincy only reported the first 3 months of 2018 runs to MFIRS before the database was closed for analysis. QFD reported 106 total fires, 89 structure fires, 7 motor vehicle fires and 10 outside & other fires. They did not report any arsons during the first 3 months. The above numbers are their actual totals for 2018. Only the 106 fires were included in the analysis of this report.

**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>
2015	138	103	8	27	0	0	0	0
2016	193	120	15	58	0	0	0	0
2017	196	127	17	52	8	4	0	4
2018	192	133	18	41	9	1	0	8
2019	133	90	10	33	11	2	0	9

**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>
2015	64	35	5	24	1	1	0	0
2016	47	23	5	19	2	2	0	0
2017	41	25	4	12	0	0	0	0
2018	40	23	9	8	1	0	0	1
2019	35	21	6	8	0	0	0	0

**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>
2015	111	74	6	31	2	0	0	2
2016	138	99	8	31	0	0	0	0
2017	108	76	9	23	1	1	0	0
2018	83	37	8	38	2	1	1	0
2019	95	48	15	32	1	1	0	0

**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>
2015	90	44	8	38	1	0	0	1
2016	50	24	4	22	0	0	0	0
2017	79	43	4	32	1	0	0	1
2018	70	43	5	22	0	0	0	0
2019	46	24	7	15	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>
2015	37	14	9	14	0	0	0	0
2016	60	25	3	32	0	0	0	0
2017	53	25	7	21	1	1	0	0
2018	32	14	7	11	0	0	0	0
2019	41	23	5	13	0	0	0	0

**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>
2015	138	61	16	61	2	0	0	2
2016	142	80	9	53	1	0	0	1
2017	105	63	10	32	1	0	1	0
2018	114	73	6	35	0	0	0	0
2019	56	34	5	17	0	0	0	0

**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>
2015	243	116	14	113	3	0	2	1
2016	319	149	17	153	2	1	0	1
2017	252	136	21	95	4	3	0	1
2018	219	126	23	70	3	1	0	2
2019	223	156	17	50	0	0	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>
2015	21	6	5	10	2	0	0	2
2016	13	4	2	7	0	0	0	0
2017	12	7	2	3	1	0	0	1
2018	11	4	5	2	0	0	0	0
2019	14	3	4	7	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	1,390	34	0	890	39	180	128	119	0	0
21025	Bellingham	2,534	35	0	1,837	65	206	179	205	1	6
21040	Braintree	6,499	69	57	4,192	208	748	368	826	6	25
21046	Brookline	8,506	506	9	4,833	487	787	415	1,459	4	6
21050	Canton	4,200	76	1	2,531	115	508	300	664	1	4
21065	Cohasset	1,899	31	0	951	193	228	129	311	34	22
21073	Dedham	4,570	95	2	2,902	315	371	184	693	0	8
21078	Dover	230	14	0	35	14	12	14	139	2	0
21099	Foxborough	3,476	70	1	2,338	156	273	200	423	4	11
21101	Franklin	4,530	56	4	2,952	131	444	313	617	4	9
21133	Holbrook	2,835	38	1	1,649	106	607	201	225	0	8
21175	Medfield	1,452	18	2	784	125	195	77	244	0	7
21177	Medway	1,889	37	6	1,229	137	147	102	222	6	3
21187	Millis	781	19	0	507	36	107	21	43	19	29
21189	Milton	3,556	115	1	2,271	128	241	147	526	3	124
21199	Needham	4,167	51	2	2,165	204	648	314	768	3	12

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
21208	Norfolk	1,794	101	0	1,119	193	48	9	324	0	0
21220	Norwood	4,983	66	3	3,564	219	451	159	519	1	1
21238	Plainville	2,750	30	6	1,345	79	210	234	325	9	512
21243	Quincy	10,738	589	18	6,735	706	698	602	1,382	2	6
21244	Randolph	5,825	134	3	4,042	280	535	222	608	0	1
21266	Sharon	2,487	47	3	1,485	116	238	256	332	3	7
21285	Stoughton	5,339	100	4	3,573	132	354	320	843	3	10
21307	Walpole	3,591	46	0	2,386	105	338	267	443	4	2
21317	Wellesley	4,193	41	0	2,085	248	430	296	1,083	1	9
21335	Westwood	3,189	85	2	1,830	152	398	232	481	2	7
21336	Weymouth	8,762	224	1	5,750	363	540	1,028	827	11	18
21350	Wrentham	2,324	18	6	1,521	85	235	171	255	1	32
<b>Norfolk County</b>		<b>108,489</b>	<b>2,745</b>	<b>132</b>	<b>67,501</b>	<b>5,137</b>	<b>10,177</b>	<b>6,888</b>	<b>14,906</b>	<b>124</b>	<b>879</b>

\* Certified no reportable fires.

\*\*Non reporting department.

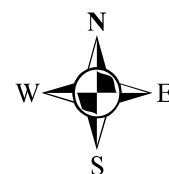
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



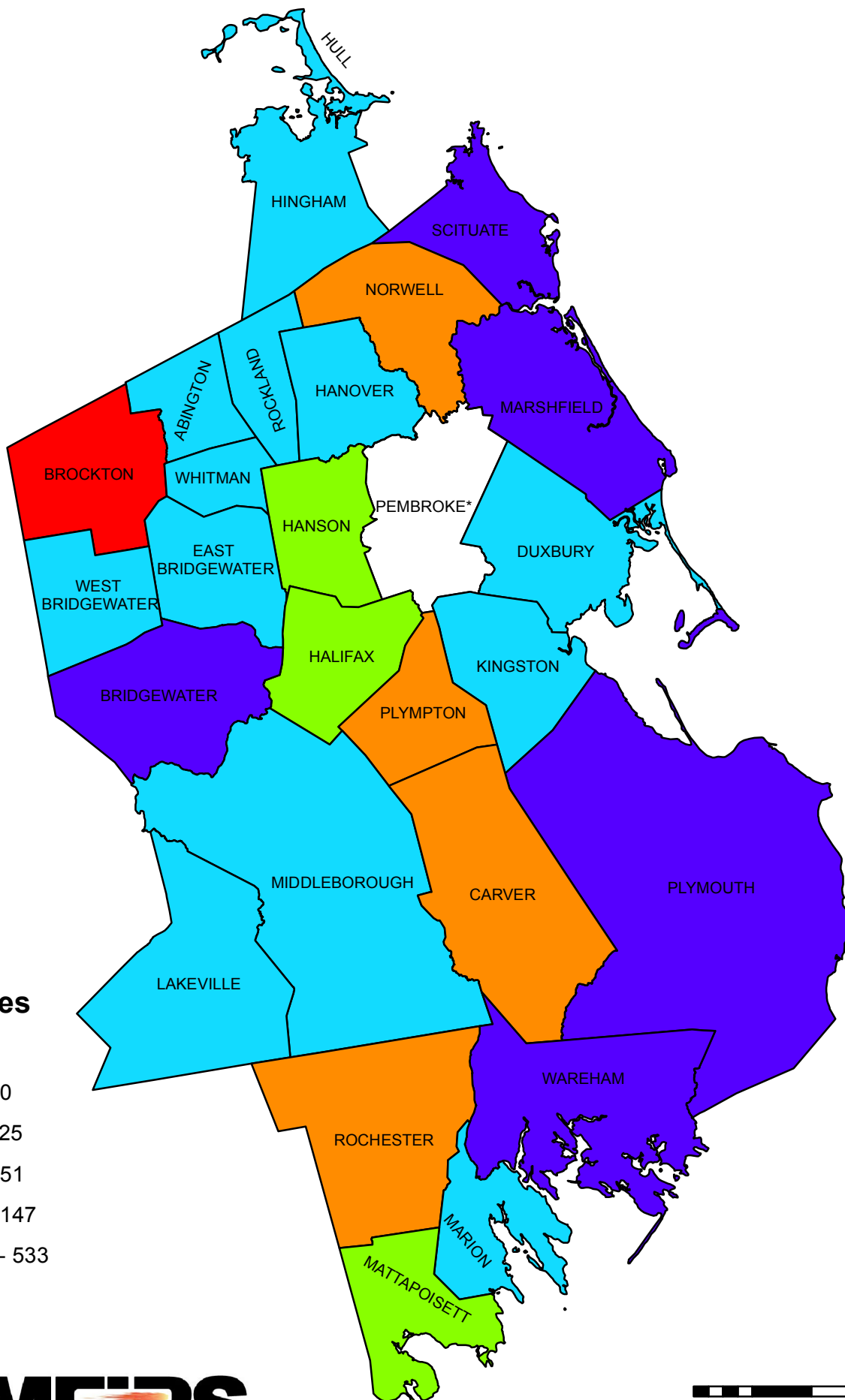
# Plymouth County

## 2019 Fire Data Analysis

# Plymouth County Fires 2019



## 2019 Fires



**MFIRS**  
Massachusetts Fire Incident Reporting System

0 1 2 4 6 8 Miles

Massachusetts Fire Incident Reporting System 2019



# Plymouth County Fires in 2019

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## **1,565 Total Fires — 808 Structures, 198 Vehicles & 559 Other Fires**

Plymouth County ranked seventh out of the fourteen Massachusetts counties in total reported fires. Plymouth County fire departments reported 1,565 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 808 structure fires, 198 motor vehicle fires, 316 brush, tree or lawn fires, 134 outside rubbish fires, 71 special outside fires, three cultivated vegetation or crop fires and 35 other fires caused four civilian deaths, one fire service death, 46 civilian injuries, 23 fire service injuries and an estimated dollar loss of \$13.4 million. Plymouth County's fires accounted for 6% of the 25,176 Massachusetts fires reported in 2019.

Twenty-seven (27) of the 28 fire departments, or 96%, in Plymouth County either reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS) or certified that they had no reportable fires in 2019.

## **All Fires Down**

The total number of reported fire incidents decreased by 81, or 5%, from the 1,646 reported in 2019. Reported structure fires decreased by 26 from 834 the year before. Motor vehicle fires decreased by 21 from 219 the previous year. Reported outside and other fires decreased by 34 from 593 in 2018.<sup>1</sup>

## **PLYMOUTH COUNTY FIRES FROM 2015 TO 2019**

Year	Total Fires	Structure Fires	Vehicle Fires	Other Fires	Total Arsons	Structure Arsons	Vehicle Arsons	Other Arsons
2015	2,070	897	236	937	38	14	3	21
2016	2,077	820	215	1,042	39	10	1	28
2017	1,757	828	199	730	39	12	4	23
2018	1,646	834	219	593	39	11	4	24
2019	1,565	808	198	559	33	14	5	14

## **Fire and Fire Death Rates**

Plymouth County had 3.2 fires per 1,000 population. That figure ranks Plymouth County tied for seventh in the state and below the state rate of 3.8 fires per 1,000 population. Plymouth County also had 0.08 fire deaths per 10,000 population ranking it fifth among Massachusetts counties and above the state rate of 0.06 fire deaths per 10,000 population.

## **4 Plymouth County Fatal Fires Killed 4 Civilians in 2019**

Four (4) people died in four fatal fires in Plymouth County in 2019.

- On July 9, 2019, at 8:36 p.m., the Marion Fire Department was called to a fatal cooking fire in a single-family home. The victim was an 83-year old woman who came too close to her stove and her clothing ignited. She extinguished the fire herself, but was badly burned. She was transported to a Rhode Island hospital where she later succumbed to her injuries. No one else was injured at this fire. Alarms were present

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<sup>1</sup> 2019 was another down year statewide for brush fires.

but failed to operate for unknown reasons. The building was not sprinklered. Damages from this fire were estimated to be \$160.

- On August 3, 2019, at 1:05 p.m., the Plymouth Fire Department was called to a fatal smoking fire in a single-family home. The fire was started by undetermined smoking materials in a bedroom. The victim was a 58-year old man who was in the area of origin of the fire. No one else was injured at this fire. Smoke alarms were present but they failed to operate because of missing batteries. There were no sprinklers. Damages from this fire were estimated to be \$12,500.
- On August 3, 2019, at 2:07 a.m., the Plymouth Fire Department was called to a fatal motor vehicle crash with ensuing fire. The victim, a 22-year old man, was trapped in the vehicle and died in the fire. No one else was injured at this fire. Damages from this fire were estimated to be \$5,200.
- On October 8, 2019, at 3:35 a.m., the Brockton Fire Department was called to a fatal electrical fire in a rooming house. The fire was caused by arcing in the ceiling and floor assembly between the basement and first floor. The victim, a 56-year old man, was in the area of origin. No one else was injured at this fire. Alarms were present and the alerted the occupants. Sprinklers were not present in the home. Damages were estimated to be \$100,000.

### **1 Fire Service Death in 2019 - FF Thomas Nye, Age 72**

In 2019 there was one fire-related fire service death in Plymouth County.

- On Tuesday, February 26, at 12:47 p.m., the Marion Fire Department was called to a chimney fire in a single-family home at 894 Point Rd. FF Thomas Nye responded to the fire and helped extinguish it. He collapsed at his home early the next morning on 2/27/19 after suffering an apparent cardiac incident. He was transported to Tobey Hospital where he was pronounced deceased. He was 72-year old. No one else was injured at this fire. Alarms were present and operated; and the home did not have sprinklers. Damages from this fire were estimated to be \$15,000.

### **Whitman Has Plymouth County's Largest Loss Fire in 2019**

In 2019, there were no large loss fires in Plymouth County with a dollar loss greater than \$1 million. Whitman had the largest loss fire in the county in 2019.

- On February 13, 2019, at 7:46 p.m., the Whitman Fire Department responded to a fire of undetermined cause, in a six-unit apartment building. One (1) civilian was injured at this fire. Alarms were present and operated. The building did not have any sprinklers. Total damages were estimated to be \$800,000.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 808 structure fires caused three civilian deaths, one fire service death, 27 civilian injuries, 22 fire service injuries and an estimated dollar loss of \$11 million. These incidents represented 52% of Plymouth County's reported fires in 2019. The average

estimated dollar loss per structure fire was \$13,591. The total number of reported structure fires decreased by 26, or 3%, from the 834 reported in 2018.

### **Structure Arsons Up Slightly**

The 14 structure arsons caused one civilian injury, one fire service injury and an estimated dollar loss of \$496,105. Arson was indicated as the cause of 2% of the structure fires and 5% of Plymouth County's structure fire dollar loss. The 14 structure arsons accounted for 42% of the Plymouth County arson fires reported in 2019. The total number of reported structure arsons increased by three, or 27%, from 11 in 2018.

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

Seven (7), or 50%, of Plymouth County's 14 structure arsons occurred in residential occupancies; 29% occurred in mercantile or business properties; and 7% each happened in public assembly properties, educational facilities and special properties.

## **BUILDING FIRES**

There were 801 building fires of different types in Plymouth County in 2019. These 801 building fires accounted for 99.1% of all structure fires in Plymouth County.

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

Six hundred and fifty-three (653), or 82%, of Plymouth County's 801 building fires occurred in residential occupancies. Mercantile and business properties had 46 fires. Forty (40) fires took place in public assembly properties, including restaurants and churches. Twenty-one (21) fires took place in storage facilities. Fifteen (15) building fires took place in educational facilities. Hospitals, prisons, and other institutional buildings experienced 14 fires. Special properties had six fires. Four (4) fires took place in manufacturing and processing facilities. Two (2) fires occurred in industrial, utility, defense, agricultural or mining facilities in Plymouth County in 2019.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Down**

There were 653 reported residential building fires in Plymouth County in 2019. These 653 fires are a decrease of 36, or 5%, from the 689 residential building fires reported in 2018.

### **1- & 2-Family Homes Accounted for 53% of Residential Building Fires**

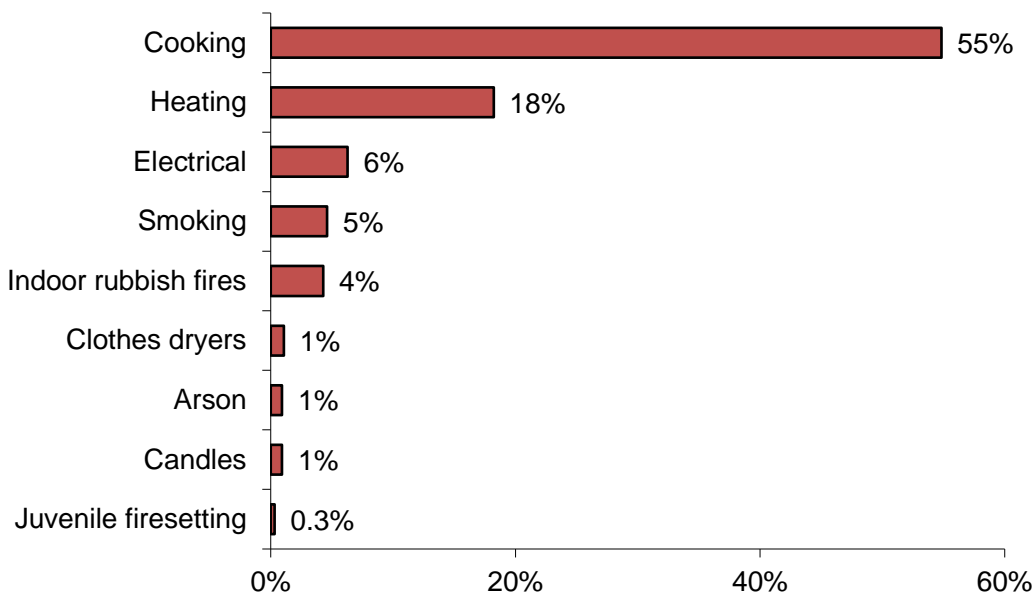
The peak fixed property uses for residential building fires were 1- & 2-family homes, accounting for 53% of the residential building fires in Plymouth County; 40% occurred in apartments. Rooming houses had 3% of these fires. Residential board and care facilities, and dormitories each had 1% of these fires. Hotels or motels had less than 1% of these fires. Fourteen (14), or 2%, of the residential building fires in Plymouth County occurred in unclassified residential buildings.

### **Cooking & Heating Leading Causes of Residential Fires**

The leading cause of the 653 residential building fires in Plymouth County was unattended cooking and other unsafe cooking practices, accounting for 55% of these fires. Heating problems caused 18% of the fires in people's homes. Electrical problems caused 6% and

smoking caused 5% of these fires. Indoor rubbish fires caused 4%; and clothes dryers, arsons and candles each caused 1% of these fires. Juvenile-set fires caused less than 1% of residential fires in Plymouth County in 2019.

### 2019 Leading Causes of Fires in Plymouth County Homes



### 70% of Residential Building Fires Were Confined to Non-Combustible Containers<sup>2</sup>

Four hundred and fifty-six (456), or 70%, of all residential building fires were reported as confined to non-combustible containers in 2019. Three hundred and thirty-one (331) of the reported fires were cooking fires contained to a non-combustible container, accounting for 51% of residential building fires. Fifty-three (53), or 8%, were fires confined to a fuel burner or boiler malfunction. Forty-six (46), or 4%, of all residential building fires reported in 2019 were fires confined to a chimney. Twenty-six (26), or 4%, of these fires were contained rubbish fires.

### Detectors Alerted Occupants in Only 30% of Fires

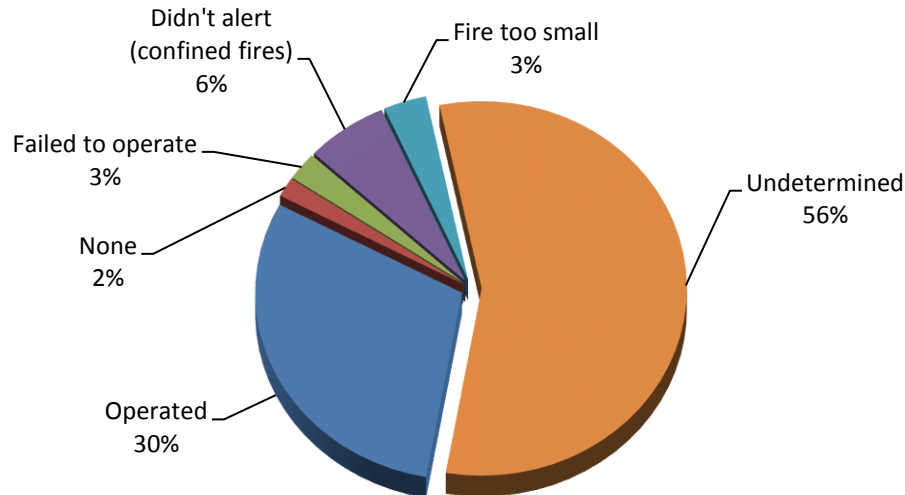
Smoke or heat detectors operated and alerted the occupants in 196, or 30%, of the residential building fires. In 6% of these fires<sup>3</sup>, the detectors did not alert the occupants. Detectors were present but did not operate in 3% of these incidents. In 2% of these fires, no detectors were present at all. The fire was too small to trigger the detector in 3% of the

<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.

<sup>3</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 366 incidents, or 56%, of Plymouth County's residential building fires.

### Detector Status in Plymouth County's Residential Structure Fires 2019



#### 1/2 of Detectors Failed Because of a Dead or Missing Batteries

Of the 16 fires where smoke detectors were present but failed to operate, six, or 38%, failed because the batteries were either missing or disconnected, and two, or 13%, failed because the batteries were dead. Three, or 19%, failed from a power shutoff or disconnect. It was undetermined or unclassified in five cases, or 31%, why the detectors failed to operate.

#### VACANT BUILDINGS

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

Plymouth County reported 25 fires that occurred in buildings that were vacant, under construction or demolition<sup>4</sup>. This represented 3% of the total 801 building fires reported to MFIRS in 2019. Thirteen (13) fires occurred in vacant residential properties. Seven (7) fires occurred in storage facilities; two each happened in a public educational facilities and special properties; and one in a business or mercantile property in Plymouth County.

<sup>4</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.

Four, or 16%, of the vacant building fires in Plymouth County in 2019 were determined to be intentionally-set. Two (2) occurred in residential properties, and one each in an educational facility and another in a vehicle parking area.

## **JUVENILE-SET FIRES**

### **6 Juvenile-set Fires**

There were six reported juvenile-set fires in Plymouth County in 2019. The three structure fires, one motor vehicle fire, one brush fire and one unspecified fire caused \$93,000 in estimated damages.

## **ARSONS**

### **33 Total Arsons — 14 Structures, 5 Vehicles & 14 Other Arsons**

Thirty-three (33), or 2%, of Plymouth County's 1,565 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 14 structure arsons, five motor vehicle arsons and 14 outside and other arsons caused one civilian injury, one fire service injury and an estimated dollar loss of \$668,205.

### **Outside & Other Arsons Down**

The total number of reported arson fires decreased by six from the 39 reported in 2018. Reported structure arsons increased by three from the 11 reported in 2018. Motor vehicle arsons increased by four from the four reported in 2018. Reported outside and other arsons decreased by 10 from the 24 reported in 2018.

## **ALL INCIDENTS**

### **Rescue & EMS Calls Are 68% of All Reported Responses**

In 2019, Plymouth County fire departments reported 91,226 responses<sup>5</sup> to MFIRS. Of these 91,226 incidents, 89,573 non-fire calls were voluntarily reported.

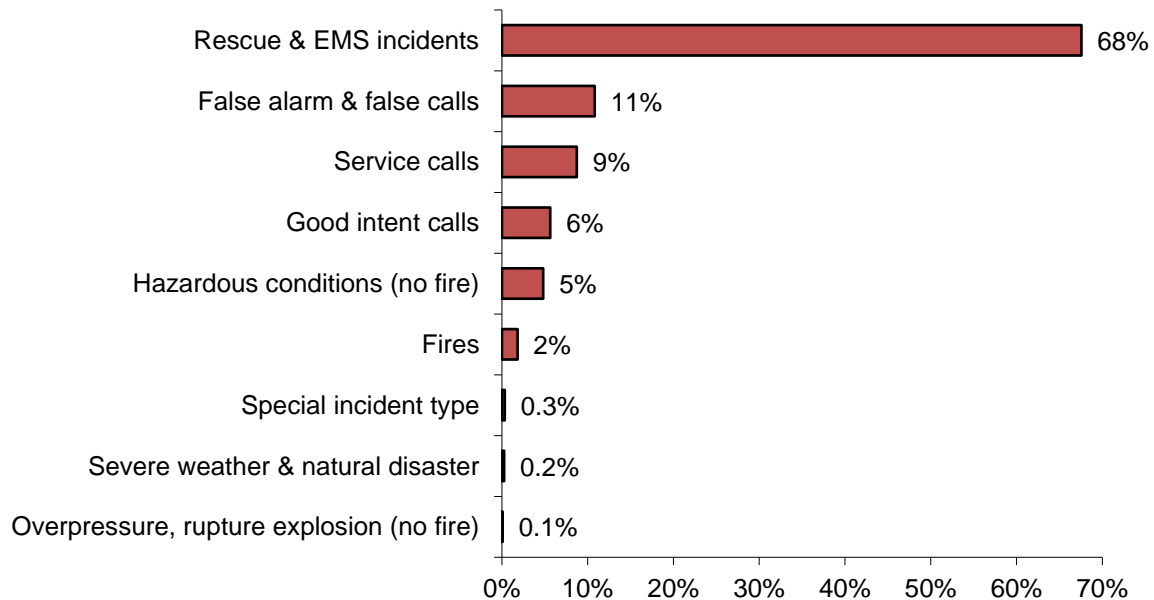
Of these 89,573 non-fire calls, 61,625, or 68%, of the total responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 9,865 or 11%, were reported false alarm or false calls; 7,959, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 5,142, or 6%, were reported good intent calls; 4,394, or 5%, were reported hazardous condition calls with no fire; 293, or 0.3%, were special incident type calls such as citizen complaints; 228, or 0.2%, were severe weather responses; and 67, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire.

One thousand six hundred and fifty-three (1,653), or 2%, of the total responses submitted by Plymouth County fire departments were fires.

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

## 2019 Responses by Incident Type



### Plymouth County Fire Departments Gave Mutual Aid 1,794 Times

In 2019, Plymouth County fire departments reported coming to the aid of other fire departments 1,794 times. Of these 1,794 responses, 1,190, or 66%, were for rescue or EMS calls; 289, or 16%, were for good intent calls; 183, or 10%, were for service calls such as cover assignments; 88, or 5%, were for fires; 34, or 2%, were for hazardous conditions calls with no fire; nine, or 1%, were for false alarms or false calls; and one, or 0.1%, was for a special incident type call.

### Plymouth County Received Mutual Aid in 1,021 Incidents

In 2019, Plymouth County fire departments received aid from surrounding departments in 1,021 incidents. Of these 1,021 incidents, 864, or 85%, were rescue and emergency medical services calls; 85, or 8%, were for fires; 23, or 2%, were good intent calls; 20, or 2%, were service calls; 14, or 1%, were hazardous conditions calls with no fire; 14, or 1%, were false alarms or false calls; and one, or 0.1%, was a reported overpressure, rupture, explosion or overheat call with no fire.

**Plymouth County****Population: 494,919****3.2 Fires/1,000 Population****Total Fires: 1,565 \$13,407,136**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	808	52%	\$10,981,784
Vehicle Fires	198	13%	1,317,201
Other Fires	559	36%	1,108,151

4 Fatal Fires 2.56 Civilian Deaths/1,000 Fires  
 4 Civilian Deaths 0.08 Civilian Deaths/10,000 Population  
 1 Fire Service Death 46 Civilian Injuries 23 Fire Service Injuries

**Building Fires: 801****Residential Building Fires: 653****Residential Building Fires Confined to Non-Combustible Containers: 456****Unconfined Residential Building Fires: 197**

3 Civilian Deaths 1 Fire Service Death 21 Civilian Injuries 18 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
1- & 2-Family homes	345	53%	Operated	196	30%
Apartments	258	40%	Didn't operate	16	3%
Rooming houses	19	3%	None	11	2%
Residential board & care	9	1%	Fire too small	22	3%
Dormitories	6	1%	Didn't Alert (confined)	42	6%
Hotels or motels	2	0.2%	Undetermined	366	56%

<b>Area of Origin<sup>6</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Kitchen	61%	Arcing	5%	17%
Heating room or area	13%	Radiated, cond./heat op. eq.	4%	12%
Chimney or flue	5%	Heat from operating eq.	2%	8%
Bedroom	3%	Cigarettes	2%	6%
Exterior balcony, unencl. porch	2%	Spark, ember, flame op. eq.	2%	5%

<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	53%	Too close to combustibles	2%	7%
Flammable or combust. liquid	8%	Electrical failure, malfunc.	2%	6%
Film, residue (creosote)	7%	Abandoned materials	2%	6%
Rubbish, trash, waste	5%	Unspecified short circuit arc	1%	4%
Electrical wire, cable insulation	3%	Mechanical failure, malfunc.	1%	4%

<b>Equipment<sup>10</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>11</sup></b>
Cooking equipment	54%	Unintentional	17%	57%
None	17%	Failure of eq. or heat source	4%	12%
Boiler, furnace, cent. heat. unit	8%	Intentional	0.3%	1%
Chimney or flue	7%	Act of Nature	1%	2%
Stove, heating	1%	Cause under investigation	3%	11%
		Undetermined	5%	17%

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

Alerted Occupants	22%
Didn't Alert Occupants	9%
Undetermined	68%

<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	107	71	13	23
February	102	65	12	25
March	155	81	18	56
April	118	59	15	44
May	142	74	21	47
June	153	64	16	73
July	162	59	29	75
August	150	54	19	77
September	133	66	12	55
October	96	58	14	24
November	117	66	14	37
December	129	91	15	23

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	254	142	25	87
Monday	239	107	31	101
Tuesday	236	128	31	77
Wednesday	216	105	33	78
Thursday	190	102	20	68
Friday	214	120	31	63
Saturday	216	104	27	85

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 - 04:00	93	57	11	25
04:01 - 08:00	120	68	21	31
08:01 - 12:00	282	141	58	83
12:01 - 16:00	419	180	45	194
16:01 - 20:00	469	257	43	169
20:01 - 00:00	182	105	20	57

### **Motor Vehicle Fires**

Total: 198

Automobiles: 158 (80%)

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

## Arson Fires

**Total Arsons: 33**

**Dollar loss: \$668,205**

### 0.07 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	14	2%	42%	\$496,105
Vehicle Arsons	5	3%	15%	47,100
Other Arsons	14	3%	42%	125,000

0.03 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.03 Other arsons/1,000 population

1 Civilian Injury

1 Fire Service Injury

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
16:01 – 20:00	4	29%	00:01 – 04:00	1	20%
04:01 – 08:00	3	21%	08:01 – 12:00	1	20%
20:01 – 00:00	3	21%	12:01 – 16:00	1	20%
			16:01 – 20:00	1	20%
			20:01 – 00:00	1	20%

Other Arsons	#	%
16:01 – 20:00	7	50%
12:01 – 16:00	3	21%
08:01 – 12:00	2	14%
20:01 – 00:00	2	14%

Peak Fixed Property Uses for Structure Arsons	#	%
1- or 2-family homes	6	43%

**Abington****Population: 15,985**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	51	13	4	34	0	0	0	0
2016	71	19	7	45	1	0	0	1
2017	39	13	3	23	1	0	0	1
2018	41	18	10	13	0	0	0	0
2019	36	17	6	13	0	0	0	0

**Bridgewater****Population: 26,563**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	119	56	15	48	0	0	0	0
2016	127	71	13	43	0	0	0	0
2017	77	46	4	27	0	0	0	0
2018	79	45	9	25	1	1	0	0
2019	87	55	11	21	0	0	0	0

**Brockton****Population: 93,810**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	687	380	59	248	5	4	0	1
2016	629	348	57	224	4	2	0	2
2017	561	313	43	205	10	4	1	5
2018	487	310	50	127	6	3	1	2
2019	533	339	53	141	6	2	1	3

**Carver****Population: 11,509**

	<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>
2015	2	1	1	0	0	0	0	0
2016	2	2	0	0	0	0	0	0
2017	7	6	1	0	0	0	0	0
2018	3	2	1	0	0	0	0	0
2019	5	4	1	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>
2015	50	21	7	22	1	0	0	1
2016	50	17	6	27	0	0	0	0
2017	40	12	3	25	1	0	0	1
2018	27	5	9	13	0	0	0	0
2019	32	18	2	12	1	1	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>
2015	56	24	4	28	1	1	0	0
2016	37	14	2	21	1	0	0	1
2017	34	14	3	17	1	0	1	0
2018	25	10	4	11	1	1	0	0
2019	29	20	4	5	2	1	0	1

**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>
2015	24	8	2	14	1	0	0	1
2016	23	7	1	15	0	0	0	0
2017	23	10	1	12	2	1	0	1
2018	29	13	1	15	0	0	0	0
2019	17	7	1	9	1	1	0	0

**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>
2015	86	32	9	45	1	1	0	0
2016	61	21	1	39	0	0	0	0
2017	47	20	6	21	1	1	0	0
2018	53	29	7	17	2	1	0	1
2019	51	27	6	18	1	0	0	1

**Hanson****Population: 10,209**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	30	11	2	17	0	0	0	0
2016	40	9	1	30	3	0	0	3
2017	22	8	1	13	0	0	0	0
2018	26	10	2	14	4	0	1	3
2019	23	12	0	11	0	0	0	0

**Hingham****Population: 22,157**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	53	18	5	30	2	0	0	2
2016	80	20	5	55	3	0	0	3
2017	66	34	4	28	1	1	0	0
2018	65	26	7	32	0	0	0	0
2019	45	14	7	24	0	0	0	0

**Hull****Population: 10,293**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	24	10	3	11	2	0	0	2
2016	25	4	3	18	3	0	0	3
2017	24	11	2	11	0	0	0	0
2018	19	10	3	6	0	0	0	0
2019	26	12	4	10	0	0	0	0

**Kingston****Population: 12,629**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	38	11	7	20	0	0	0	0
2016	59	17	9	33	1	0	1	0
2017	32	8	4	20	0	0	0	0
2018	36	15	6	15	1	0	0	1
2019	31	8	4	19	2	1	0	1

<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>
2015	14	6	0	8	0	0	0	0
2016	25	8	3	14	2	1	0	1
2017	8	4	2	2	0	0	0	0
2018	35	9	5	21	2	0	0	2
2019	35	7	7	21	0	0	0	0

<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>
2015	22	9	5	8	0	0	0	0
2016	16	1	3	12	0	0	0	0
2017	26	7	8	11	2	0	0	2
2018	19	6	3	10	5	1	0	4
2019	26	15	5	6	2	1	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>
2015	75	36	7	32	2	0	0	2
2016	79	35	4	40	2	1	0	1
2017	100	41	6	53	2	0	0	2
2018	78	34	7	37	1	0	0	1
2019	73	40	2	31	0	0	0	0

<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>
2015	28	14	1	13	2	0	0	1
2016	13	1	1	11	0	0	0	0
2017	17	7	1	9	0	0	0	0
2018	18	10	2	6	0	0	0	0
2019	19	9	5	5	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>
2015	84	22	16	46	2	1	0	1
2016	88	22	24	42	4	0	1	3
2017	78	37	18	23	3	1	1	1
2018	67	21	16	30	1	0	0	1
2019	30	12	7	11	1	1	0	0

**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>
2015	43	10	10	23	2	0	0	2
2016	45	9	7	29	2	1	0	1
2017	54	20	9	25	3	0	0	3
2018	8	7	1	0	0	0	0	0
2019	6	3	1	2	0	0	0	0

**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>
2015	9	5	3	1	0	0	0	0
2016	17	8	5	4	0	0	0	0
2017	4	2	0	2	0	0	0	0
2018	5	4	0	1	0	0	0	0
2019	Non-reporting Department							

**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>
2015	233	82	21	130	9	7	1	1
2016	246	74	24	148	6	3	0	3
2017	176	81	30	65	1	1	0	0
2018	191	79	32	80	1	1	0	0
2019	147	51	28	68	4	2	1	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>
2015	8	4	0	4	1	0	0	1
2016	4	1	0	3	1	0	0	1
2017	2	0	0	2	1	0	0	1
2018	9	5	2	2	1	1	0	0
2019	10	2	1	7	1	0	0	1

<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>
2015	2	2	0	0	0	0	0	0
2016	1	1	0	0	0	0	0	0
2017	4	4	0	0	1	1	0	0
2018	4	4	0	0	0	0	0	0
2019	3	3	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>
2015	52	17	7	28	1	0	0	1
2016	78	11	7	60	3	1	0	2
2017	58	24	4	30	2	1	0	1
2018	69	35	5	29	1	1	0	0
2019	48	23	10	15	4	2	1	1

<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>
2015	68	37	5	26	0	0	0	0
2016	65	23	3	39	4	1	0	3
2017	65	30	3	32	4	0	1	3
2018	53	31	4	18	6	0	1	5
2019	80	46	6	28	3	0	0	3

**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>
2015	51	26	3	22	0	0	0	0
2016	45	27	3	15	1	0	0	1
2017	33	28	2	3	0	0	0	0
2018	47	33	4	10	0	0	0	0
2019	31	20	1	10	0	0	0	0

**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>
2015	86	24	17	45	1	0	0	1
2016	106	33	21	52	1	0	0	1
2017	75	22	26	27	1	0	0	1
2018	76	30	15	31	1	0	0	1
2019	68	21	12	35	1	1	0	0

**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>
2015	43	9	13	21	4	0	1	3
2016	27	10	5	12	1	0	0	1
2017	44	11	11	22	1	0	0	1
2018	31	6	9	16	2	0	0	2
2019	45	10	11	24	1	0	1	0

**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>
2015	32	9	10	13	2	0	1	1
2016	18	7	0	11	0	0	0	0
2017	32	11	4	17	1	1	0	0
2018	26	13	5	8	2	1	1	0
2019	29	13	3	13	3	1	1	1

## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
23001	Abington	2,988	36	2	2,067	116	230	190	339	0	8
23042	Bridgewater	4,564	91	2	3,100	161	292	246	590	7	75
23044	Brockton	25,855	535	9	20,024	539	1,405	854	2,465	11	13
23052	Carver	5	5	0	0	0	0	0	0	0	0
23082	Duxbury	2,889	34	10	1,686	313	289	127	416	12	2
23083	East Bridgewater	2,862	38	1	2,050	116	296	90	251	2	18
23118	Halifax	1,458	24	0	1,030	73	190	47	80	11	3
23122	Hanover	3,048	56	3	1,742	319	449	128	315	28	8
23123	Hanson	1,953	28	5	1,288	149	246	51	173	3	10
23131	Hingham	4,615	50	6	2,815	279	431	414	543	68	9
23142	Hull	2,532	26	1	1,589	201	368	91	222	26	8
23145	Kingston	2,487	33	3	1,838	130	129	79	261	8	6
23146	Lakeville	1,771	37	2	1,147	54	211	107	205	2	6
23169	Marion	1,248	30	1	810	58	64	78	203	4	0
23171	Marshfield	3,857	75	2	2,712	211	386	47	412	4	8
23173	Mattapoisett	588	23	0	89	77	150	47	194	0	8

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
23182	Middleborough	2,876	30	1	1,391	87	268	751	336	0	12
23219	Norwell	664	7	0	378	97	48	35	68	21	10
23993	Onset	1,475	42	1	987	99	126	108	111	1	0
23231	Pembroke**	0	0	0	0	0	0	0	0	0	0
23239	Plymouth	8,879	149	9	5,587	287	787	842	1,206	8	4
23240	Plympton	707	10	0	465	74	55	36	65	0	2
23250	Rochester	3	3	0	0	0	0	0	0	0	0
23251	Rockland	3,342	49	1	2,466	143	188	119	346	5	25
23264	Scituate	3,311	88	2	1,959	370	321	188	366	5	12
23992	Wareham	2,594	68	4	1,458	253	222	280	299	1	9
23322	West Bridgewater	2,209	56	0	1,327	76	492	35	188	1	34
23338	Whitman	2,446	30	2	1,620	112	316	152	211	0	3
<b>Total</b>	<b>Plymouth County</b>	<b>91,226</b>	<b>1,653</b>	<b>67</b>	<b>61,625</b>	<b>4,394</b>	<b>7,959</b>	<b>5,142</b>	<b>9,865</b>	<b>228</b>	<b>293</b>

\* Certified no reportable fires.

\*\*Non reporting department.

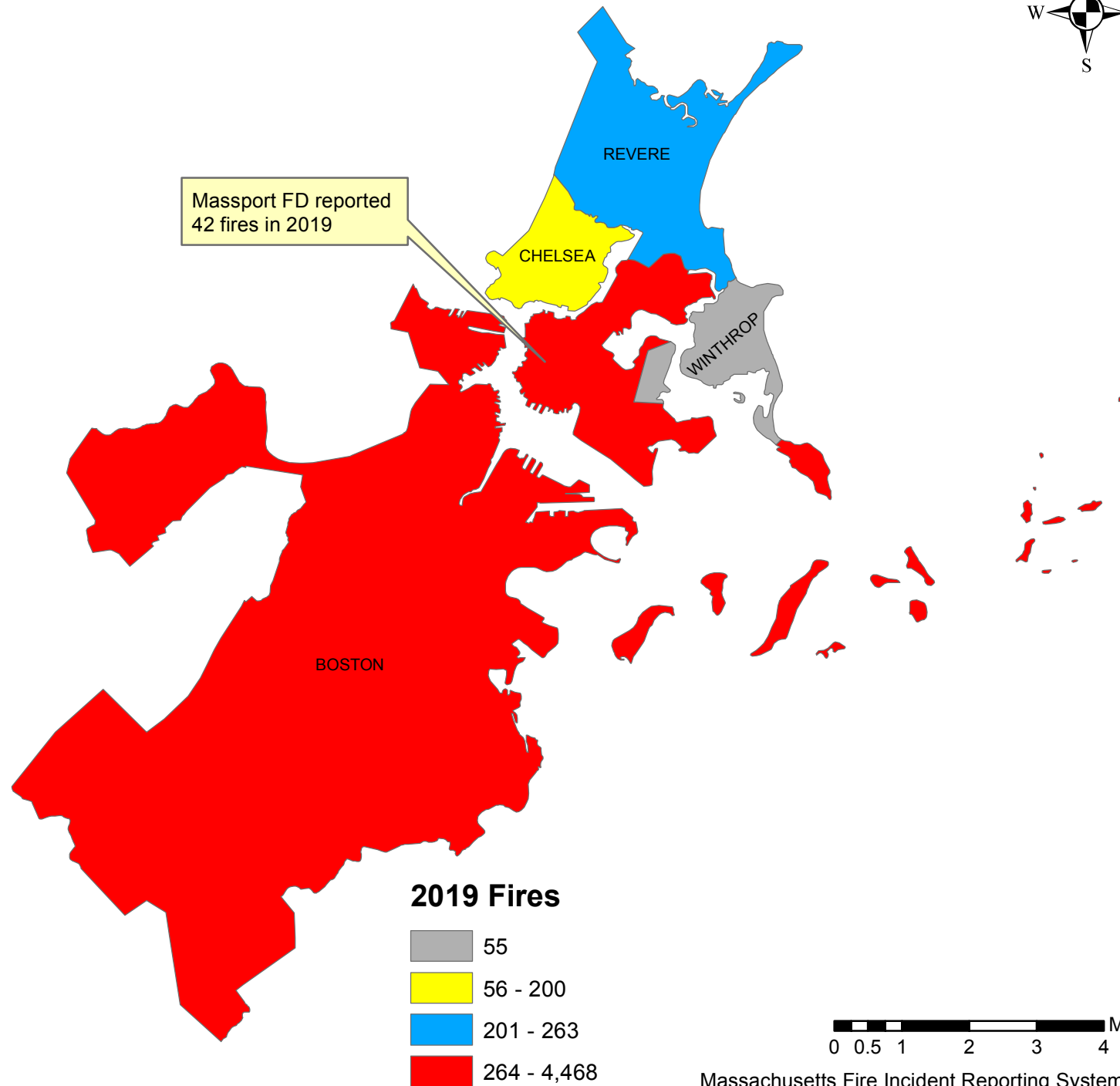
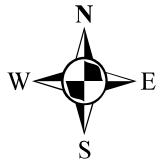
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Office of the State Fire Marshal strongly encourages any department that wants to send all of their responses to do so.



# Suffolk County

## 2019 Fire Data Analysis

# Suffolk County Fires 2019



# Suffolk County Fires in 2019

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## **4,986 Total Fires — 3,843 Structures, 239 Vehicles & 904 Other Fires**

Suffolk County ranked second out of the fourteen Massachusetts counties in total reported fires. Suffolk County fire departments reported 4,986 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 3,843 structure fires, 239 motor vehicle fires, 273 brush fires, 517 outside rubbish fires, 85 special outside fires, three cultivated vegetation or crop fires, and 26 unclassified fires caused four civilian deaths, four civilian injuries, 24 fire service injuries and an estimated dollar loss of \$58.7 million. Suffolk County's fires accounted for 20% of the 25,176 Massachusetts fires reported in 2019.

All five fire departments in Suffolk County reported incidents to the Massachusetts Fire Incident Reporting System (MFIRS).

## **All Fires Down**

Total fires decreased by 445, or 8%, from 5,431 incidents in 2018. Reported structure fires decreased by 296, or 7%, from the 4,139 reported during the previous year. Motor vehicle fires decreased by 38, or 14%, from the 277 reported in 2018. Outside and other fires decreased by 111, or 11%, from 1,015 the year before<sup>1</sup>.

## **SUFFOLK COUNTY FIRES FROM 2015 TO 2019**

<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>
2015	6,918	4,710	359	1,849	120	25	10	85
2016	6,914	4,627	304	1,983	123	20	11	92
2017	6,196	4,555	256	1,385	129	33	12	84
2018	5,431	4,139	277	1,015	88	8	10	70
2019	4,986	3,843	239	904	74	21	5	48

## **Fire and Fire Death Rates**

Suffolk County had 6.9 fires per 1,000 population. That figure ranks Suffolk County first in the state and above the state rate of 3.8 fires per 1,000 population. Suffolk County also had 0.06 fire deaths per 10,000 population ranking it tied for sixth among Massachusetts counties and also tied with the state rate of 0.06 fire deaths per 10,000 population.

## **4 Residents Died in 4 Suffolk County Fires**

Suffolk County had four residents die in four fires in 2019.

- On January 17, 2019, at 1:34 a.m., the Boston Fire Department was called to a fatal smoking fire in a two-family home. The fire was started by careless disposal of smoking materials in the living room. The victim, a 61-year old man fell asleep while smoking. No one else was injured at this fire. It was undetermined if alarms were

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<sup>1</sup> 2019 was another down year for brush fires across the state.

present. There were no sprinklers. Damages from this fire were estimated to be \$1 million.

- On May 3, 2019, at 4:58 p.m., the Chelsea Fire Department was called to a fatal electrical fire in a two-family home. The fire was caused by arcing in the ceiling of the enclosed porch. The victim was a 37-year old man. Four (4) firefighters were injured at this fire. Alarms were present but it was undetermined if they operated. There were no sprinklers in the home. Damages were estimated to be \$325,000. The fire spread to a neighboring building and caused another \$150,000 in estimated damages.
- On May 18, 2019, at 4:53 p.m., the Boston Fire Department was called to a fatal fire in Franklin Park. The identity of the victim is unknown as was the cause of the fire that killed him. The victim is the only thing that burned.
- On August 19, 2019, at 6:22 a.m., the Boston Fire Department was called to a fatal electrical fire in a three-unit apartment building. The fire started by a short circuit in a surge protector in a bedroom. The victim was a 58-year old man in the area of origin. No one else was injured at this fire. It was undetermined if alarms were present. There were no sprinklers. The fire caused an estimated \$440,000 worth of damage.

### **Boston Has Suffolk County's Largest Loss Fire in 2019**

In 2019, Suffolk County fire departments reported 10 fires with a reported dollar loss of \$1 million or greater. All but two of these fires occurred in Boston. The total dollar loss of these 10 fires was \$30.4 million, or 52%, of the county's total dollar loss.

- On March 16, 2019, at 3:05 p.m., the Boston Fire Department was called to a fire of undetermined cause at 1141 Bennington St., a manufacturing plant for the New England Casket Company. No one was injured at this fire. It was undetermined if alarms were present. Sprinklers were present but the fire was not in the area protected by the system. Damages from this fire were estimated to be \$20 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 3,843 structure fires caused three of the four civilian deaths, three civilian injuries, 14 fire service injuries and an estimated dollar loss of \$58.7 million. These incidents represented 77% of Suffolk County's reported fires in 2019. The average estimated dollar loss per structure fire was \$14,031. The total number of reported structure fires decreased by 296, or 7%, from the 4,139 reported in 2018.

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

The 21 structure arsons caused an estimated dollar loss of \$163,300. Arson was indicated as the cause of 1% of the structure fires and less than 1% of Suffolk County's structure fire dollar loss. The 21 structure arsons accounted for 28% of the Suffolk County arson



fires reported in 2019. The total number of reported structure arsons increased by 13, or 163%, from the eight reported in 2018.

### **2/3 of Structure Arsons Occurred in Residences**

Fourteen (14) of Suffolk County's 21 structure arsons occurred in residential occupancies. Three (3) each happened in educational facilities and mercantile or business facilities; and one occurred in a public assembly property.

## **BUILDING FIRES**

There were 3,836 building fires of different types in Suffolk County in 2019. These 3,836 building fires accounted for 99.8% of all structure fires in Suffolk County.

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

Three thousand two hundred and eighty-five (3,285), or 86%, of Suffolk County's 3,836 building fires occurred in residential occupancies. One hundred and forty-five (145) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 139 fires. Mercantile and business properties had 137 fires. Seventy-two (72) building fires took place in educational properties. Twenty (20) fires took place in storage properties. Eight (8) fires took place in manufacturing and processing facilities. Four (4) fires occurred in industrial, utility, defense, agricultural or mining facilities. Seven (7) building fires in Suffolk County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. There were 20 fires where the property use was coded as *Other* and one other fire whose property use was unclassified.

## **RESIDENTIAL FIRES**

### **Residential Building Fires Were Down**

There were 3,285 reported residential building fires in Suffolk County in 2019. These 3,285 fires are a decrease of 244, or 7%, from the 3,529 residential building fires reported in 2018.

### **Apartments Accounted for 62% of Residential Building Fires**

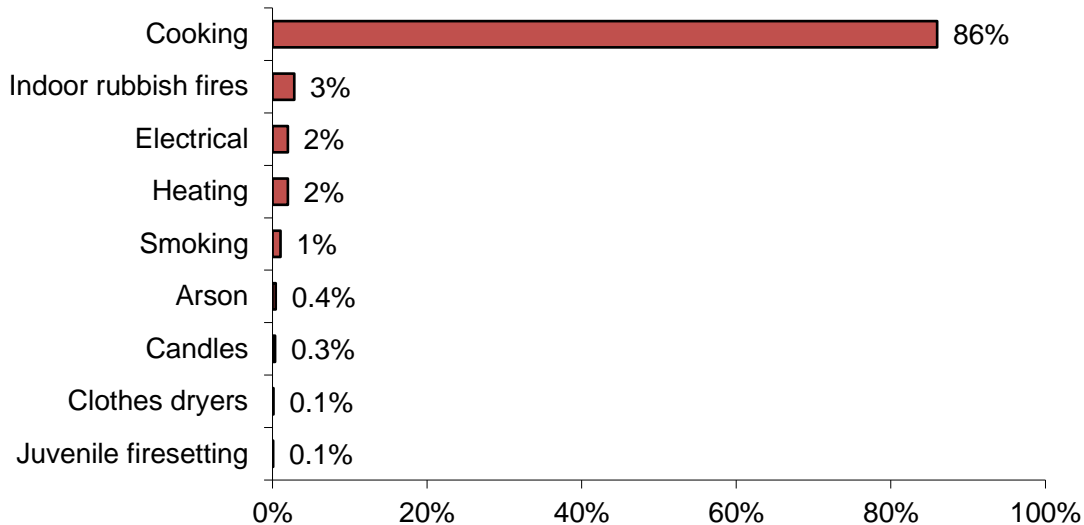
The peak fixed property uses for residential building fires were apartments, accounting for 62% of the residential building fires in Suffolk County; 11% occurred in one- or two-family homes; 5% occurred in dormitories; 4% happened in rooming houses; 1% occurred in residential board and care facilities; 1% happened in hotels or motels. Five hundred and fourteen (514), or 16%, of the residential building fires in Suffolk County occurred in unclassified residential buildings.

### **Unattended Cooking Caused 86% of Residential Fires**

The leading cause of residential building fires in Suffolk County was unattended cooking and other unsafe cooking practices, accounting for 86% of these fires. Indoor rubbish fires caused 3%. Electrical problems and heating equipment each caused 2% of these

fires. Smoking caused 1% of these fires. Candles, arson, clothes dryers and juvenile-set fires each caused less than 1% of these fires in 2019.

### 2019 Leading Causes of Fires in Suffolk County Homes



#### 90% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

Two thousand nine hundred and forty-three (2,943), or 90%, of all residential building fires were reported as confined to non-combustible containers in 2019. Two thousand seven hundred and ninety-four (2,794) of the reported fires were cooking fires contained to a non-combustible container, accounting for 85% of residential building fires.

Ninety-one (91), or 3%, of the residential building fires in Suffolk County in 2019 were contained rubbish fires. Forty-four (44), or 2%, were fires confined to a fuel burner or boiler malfunction. Ten (10), or less than 1%, of all residential building fires reported in 2019 were confined to a chimney. Two (2), or less than 1%, were incinerator overloads or malfunctions, and another two, or less than 1% were confined to a commercial compactor.

#### Alarms Alerted Occupants in 83% of Fires

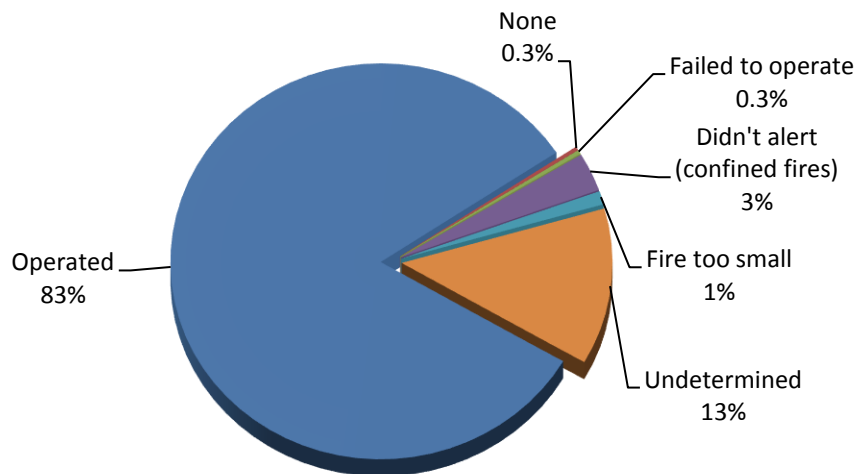
Smoke or heat alarms operated and alerted the occupants in 2,706, or 83%, of the residential building fires. In 3% of these fires<sup>3</sup>, the alarms did not alert the occupants. Alarms were present but did not operate in 0.3% of these incidents. In 0.3% of these fires,

<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.

<sup>3</sup> These represent confined fires where it was reported that the alarm did not alert the occupants.

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 419 incidents, or 13%, of Suffolk County's residential building fires.

### Detector Status in Suffolk County's Residential Structure Fires 2019



#### 64% of Failed Alarms Had Missing or Dead Batteries

Of the 11 fires where smoke alarms were present but failed to operate, six, or 55%, failed because the batteries were either missing or disconnected. One (1), or 9%, failed because of a dead battery. Another one, or 9%, failed because it was defective. It was undetermined or unclassified in two cases, or 18%, why the alarms failed to operate.

#### VACANT BUILDINGS

##### 1% of Building Fires Occurred in Vacant Buildings

Suffolk County reported 31 fires that occurred in buildings that were vacant, under construction or demolition. This represented 1% of the total 3,836 building fires reported to MFIRS in 2019. Seventeen (17) fires occurred in vacant residential properties. Five (5) happened in storage facilities. Public assembly properties and educational facilities each had two of these fires. One (1) of these fires occurred in mercantile or business property, another in a manufacturing facility, and another in an industrial facility.

One (1), or 3%, of the vacant building fires in Suffolk County in 2019 was determined to be intentionally-set. This fire occurred in a single-family home.

#### JUVENILE-SET FIRES

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

There were four reported juvenile-set fires in Suffolk County in 2019. The three structure fires and one brush fire caused \$13,000 in estimated damages.

### **ARSONS**

#### **74 Total Arsons<sup>4</sup> — 21 Structures, 5 Vehicles & 48 Other Arsons**

Seventy-four (74), or 1%, of Suffolk County's 4,986 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 21 structure arsons, five motor vehicle arsons and 48 outside and other arsons caused an estimated dollar loss of \$253,040. Suffolk County's arson fires accounted for 13% of the state's total arson fires and 4% of the state's total dollar loss from arson.

#### **Structure Arson Up**

The total number of arsons decreased by 14 from 88 in 2018. Reported structure arsons increased by 13 from the eight reported in 2018. Motor vehicle arsons decreased by five from the 10 reported in 2018. Outside and other arsons decreased by 22 from the 70 reported last year.

### **ALL INCIDENTS**

#### **Rescue & EMS Calls Are 47% of All Reported Responses**

In 2019, fire departments in Suffolk County reported 109,039 responses<sup>5</sup> to MFIRS. This is a decrease of 2,859 runs, or 3%, over the 111,897 reported in 2018. Of these 109,038 responses, 104,031 non-fire calls were voluntarily reported.

Of these 104,031 non-fire calls, 51,143, or 47%, of all the responses reported in 2019, were reported rescue and emergency medical services (EMS) calls; 20,762, or 19%, were reported false alarm or false calls; 16,865, or 15%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 10,178, or 9%, were reported good intent calls; 4,097, or 4%, reported hazardous condition calls with no fire; 892, or 1%, were special incident type calls such as citizen complaints; 64, or 0.1%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 30, or 0.03%, were severe weather calls.

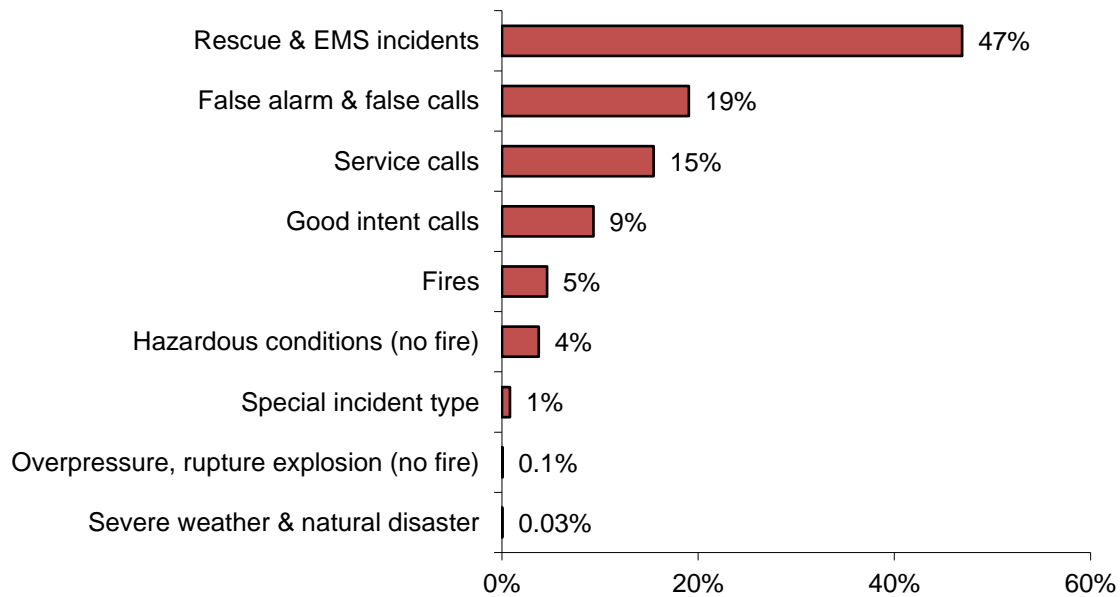
Five thousand and seven (5,007), or 5%, of the total responses submitted by Suffolk County fire departments were fires.

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<sup>4</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.

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

## 2019 Responses by Incident Type



### Suffolk County Fire Departments Reported Giving Mutual Aid 293 Times

In 2019, Suffolk County fire departments reported coming to the aid of other fire departments 293 times. Of these 293 responses, 197, or 67%, were for service calls such as cover assignments; 22, or 8%, were for rescue or EMS incidents; 21, or 7%, were for fires; 19, or 6%, were for good intent calls; 18, or 6%, were for hazardous conditions calls with no fire; 13, or 4%, were for false alarm or false calls; and three, or 1%, were special incident types.

### Suffolk County Fire Departments Received Mutual Aid in 117 Incidents

In 2019, Suffolk County fire departments reported receiving aid from surrounding departments in 117 incidents. Of these 117 incidents, 49 or 42% were rescue and emergency medical services calls; 27, or 23%, were hazardous conditions calls with no fire; 18, or 15%, were false alarms or false calls; 14, or 12%, were for fires; five, or 4%, were good intent calls; three, or 3%, were for service calls; and one, or 1%, was a special incident type.

**Suffolk County****Population: 722,023****6.9 Fires/1,000 Population****Total Fires: 4,986 \$58,679,894**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	3,843	77%	\$53,921,482
Vehicle Fires	239	5%	4,612,300
Other Fires	904	18%	146,112

4 Fatal Fires 0.80 Civilian Deaths/1,000 Fires  
 4 Civilian Deaths 0.06 Civilian Deaths/10,000 Population  
 4 Civilian Injuries 24 Fire Service Injuries

**Building Fires: 3,836****Residential Structure Fires: 3,285****Residential Structure Fires Confined to Non-Combustible Containers: 2,943****Unconfined Residential Structure Fires: 342**

3 Civilian Deaths 3 Civilian Injuries 10 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	2,023	62%	Operated	2,706	83%
1- & 2-Family homes	360	11%	Didn't operate	11	0.3%
Rooming houses	163	5%	None	10	0.3%
Dormitories	150	5%	Fire too small	36	1%
Residential board & care	42	1%	Didn't Alert (confined)	103	3%
Hotels or motels	33	1%	Undetermined	419	13%

<b>Area of Origin<sup>6</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Kitchen	88%	Radiated heat from oper. eq.	2%	15%
Heating room or area	1%	Arcing	1%	13%
Bedroom	1%	Hot or smoldering object	1%	11%
Exterior balcony/unencl. porch	1%	Heat from operating eq.	1%	11%
Laundry room	0.4%	Cigarette	0.4%	4%

<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	86%	Too close to combustibles	1%	11%
Rubbish, trash, waste	3%	Abandoned materials	1%	10%
Flammable, combustible liquid	1%	Misuse of mater. or prod.	1%	9%
Electrical wire, cable insulation	1%	Unspec. short circuit arc	1%	8%
Structural member, framing	1%	Elec. fail., malfunc., other	1%	6%

<b>Equipment<sup>10</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>11</sup></b>
Cooking equipment	85%	Unintentional	6%	58%
None	8%	Failure of eq. or heat source	1%	11%
Boiler, furnace, cent. heat. unit	1%	Intentional	0.3%	3%
Electrical wiring, other	0.5%	Act of Nature	0.03%	0.3%
Chimney or flue	0.3%	Cause under investigation	2 %	16%
Outlet, receptacle	0.2%	Undetermined	1%	7%

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

Alerted Occupants	85%
Didn't Alert Occupants	3%
Undetermined	11%

<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	404	341	20	43
February	416	349	13	54
March	428	341	23	64
April	392	284	14	94
May	405	301	29	75
June	469	317	17	135
July	388	248	35	105
August	359	233	17	109
September	461	355	14	92
October	428	353	21	54
November	438	368	17	53
December	398	353	19	26

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	841	644	37	160
Monday	734	554	30	150
Tuesday	726	566	36	124
Wednesday	607	462	37	108
Thursday	639	493	33	113
Friday	680	537	31	112
Saturday	759	587	35	137

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	353	267	30	56
04:01 – 08:00	306	228	24	54
08:01 – 12:00	808	658	33	117
12:01 – 16:00	1,142	853	51	238
16:01 – 20:00	1,434	1,112	57	265
20:01 – 00:00	943	725	44	174

### **Motor Vehicle Fires**

Total: 239

Automobiles: 191 (80%)

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



## Arson Fires

**Total Arsons: 74**

**Dollar loss: \$253,040**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	21	1%	28%	\$163,300
Vehicle Arsons	5	2%	7%	84,100
Other Arsons	48	5%	65%	5,640

0.03 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.07 Other arsons/1,000 population

No Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
12:01 – 16:00	8	38%	20:01 – 00:00	2	40%
20:01 – 00:00	5	24%	00:01 – 04:00	1	20%
16:01 – 20:00	3	14%	12:01 – 16:00	1	20%
			16:01 – 20:00	1	20%

Other Arsons	#	%
20:01 – 00:00	19	40%
16:01 – 20:00	14	29%
12:01 – 16:00	11	23%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	8	38%
1- or 2-Family home	3	15%
High/junior high/middle school	3	15%
General retail, other	2	10%
Residential, other	2	10%

<b>Boston</b>					<b>Population: 617,594</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>
2015	5,969	4,123	309	1,537	112	21	10	81
2016	5,979	4,096	252	1,631	117	19	8	90
2017	5,469	4,077	219	1,173	126	32	11	83
2018	4,783	3,709	236	838	84	5	9	70
2019	4,434	3,477	193	764	69	18	4	47

<b>Chelsea</b>					<b>Population: 35,177</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>
2015	400	287	23	90	5	4	0	1
2016	359	248	17	94	5	1	3	1
2017	271	199	9	63	1	1	0	0
2018	236	166	9	61	2	2	0	0
2019	200	138	18	44	4	2	1	1

<b>Massport</b>					<b>Population: 0</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>
2015	111	7	9	95	3	0	0	3
2016	73	2	18	53	0	0	0	0
2017	39	5	8	26	0	0	0	0
2018	58	5	11	42	0	0	0	0
2019	34	3	11	20	0	0	0	0

<b>Revere</b>					<b>Population: 51,755</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>
2015	375	259	17	99	0	0	0	0
2016	423	233	17	173	1	0	0	1
2017	347	223	18	106	2	0	1	1
2018	301	228	18	55	1	0	1	0
2019	263	191	15	57	1	1	0	0

<b>Winthrop</b>					<b>Population: 17,497</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>
2015	63	34	1	20	0	0	0	0
2016	80	48	0	32	0	0	0	0
2017	70	51	2	17	0	0	0	0
2018	53	31	3	19	1	1	0	0
2019	55	34	2	19	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	83,047	4,437	36	33,767	3,235	14,209	8,547	17,972	12	832
25057	Chelsea	7,876	210	7	5,254	235	640	577	929	12	12
25935	Massport	4,241	42	15	3,086	323	183	241	337	0	14
25248	Revere	10,891	263	5	7,086	231	1,422	603	1,248	5	28
25346	Winthrop	2,983	55	1	1,950	73	411	210	276	1	6
<b>Total</b>	<b>Suffolk County</b>	<b>109,038</b>	<b>5,007</b>	<b>64</b>	<b>51,143</b>	<b>4,097</b>	<b>16,865</b>	<b>10,178</b>	<b>20,762</b>	<b>30</b>	<b>892</b>

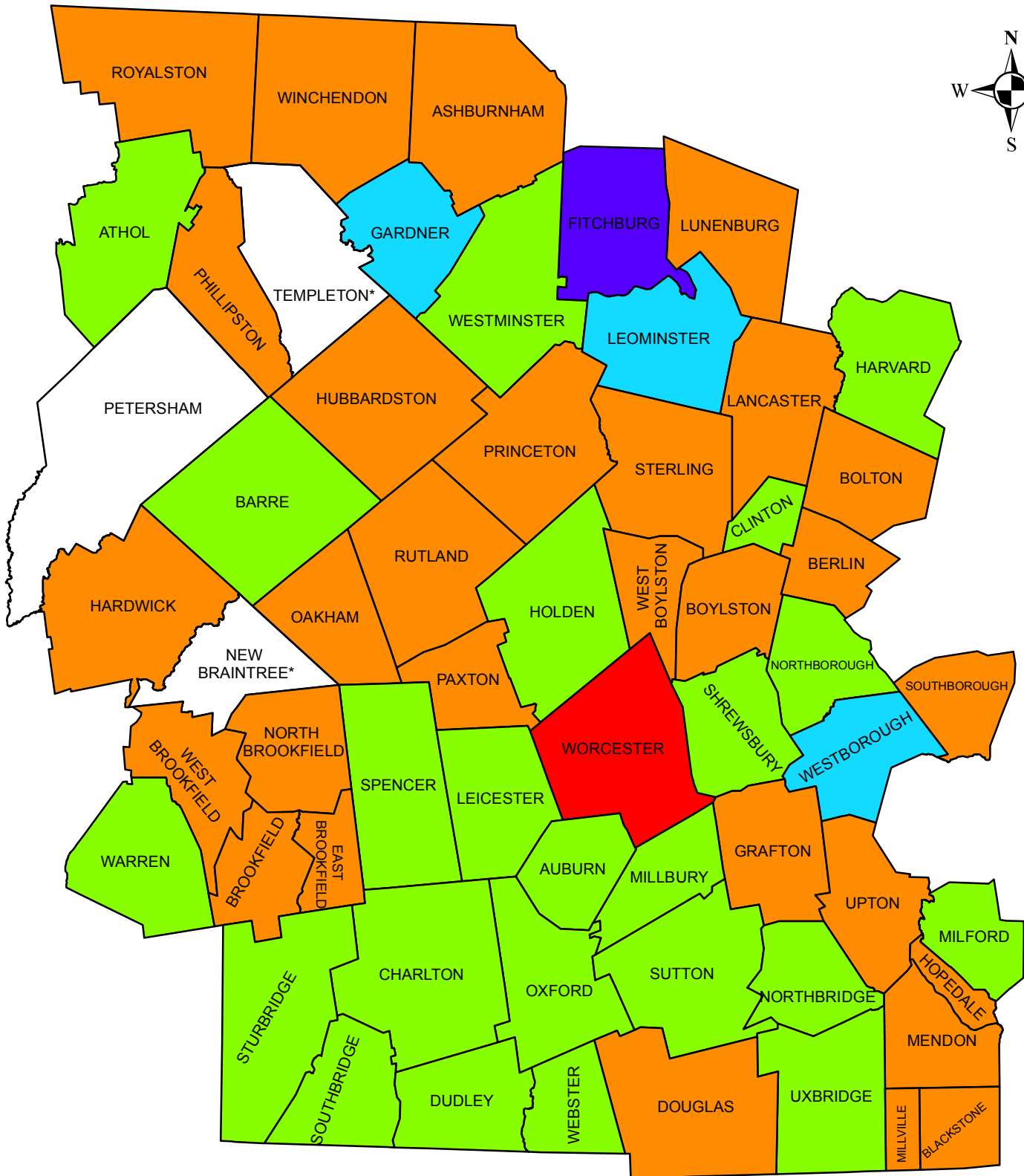
All non-fire responses or fire incidents without a dollar loss or human casualty are voluntarily reported to MFIRS. The Division of Fire Safety strongly encourages any department that wants to send in all of their responses to do so.



# Worcester County

## 2019 Fire Data Analysis

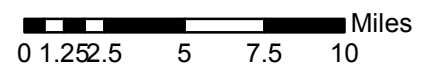
# Worcester County Fires 2019



## 2019 Fires



\*Non-reporting Department



**MFIRS**  
Massachusetts Fire Incident Reporting System

Massachusetts Fire Incident Reporting System 2019

# Worcester County Fires in 2019

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## **3,713 Total Fires — 2,395 Structures, 388 Vehicles & 930 Other Fires**

Worcester County ranked third out of the fourteen Massachusetts counties in total reported fires. Worcester County fire departments reported 3,713 fires to the Massachusetts Fire Incident Reporting System (MFIRS) in 2019. The 2,395 structure fires, 388 motor vehicle fires, 394 brush fires, 375 outside rubbish fires, 102 special outside fires, and 59 unclassified fires caused three civilian deaths, one fire service death, 47 civilian injuries, 38 fire service injuries and an estimated dollar loss of \$27.7 million. Worcester County's fires accounted for 15% of the 25,176 Massachusetts fires reported in 2019.

Fifty-eight (58), or 96.7%, of the 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 2019.

## **Structure Fires Down**

Total fires decreased by 25, or 1%, from 3,738 incidents in 2018. Reported structure fires decreased by 88 from the 2,483 reported during the previous year. Motor vehicle fires increased by 10 from the 378 reported in both 2018. Outside and other fires increased by 53 from 877 the year before<sup>1</sup>.

## **WORCESTER COUNTY FIRES FROM 2015 TO 2019**

	<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>
2015	4,336	2,257	385	1,694	112	40	14	58
2016	4,432	2,370	353	1,709	84	16	16	52
2017	3,853	2,484	348	1,021	80	31	10	39
2018	3,738	2,483	378	877	84	31	13	40
2019	3,713	2,395	388	930	93	24	9	60

## **Fire and Fire Death Rates**

Worcester County had 4.6 fires per 1,000 population. That figure ranks Worcester County second in the state and above the state rate of 3.8 fires per 1,000 population. Worcester County had 0.04 fire deaths per 10,000 population ranking it ninth among Massachusetts counties and below the state rate of 0.06 fire deaths per 10,000 population.

## **3 Residents Died in 3 Worcester County Fires**

Worcester County had three residents die in three fires in 2019. All but one of the deaths occurred in building fires. The other death occurred outside in a motor vehicle.

- On February 2, 2019, at 3:09 a.m., the Worcester Fire Department was called to a fatal fire in a single-family home of undetermined cause. The fire started on a mattress in the bedroom. The victim, a 63-year old man, was overcome while

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<sup>1</sup> 2019 was another down year for brush fires across the state.

escaping. One (1) firefighter was injured at this fire. Alarms were not present and the building was not sprinklered. Damages from the blaze were estimated to be \$159,000.

- On September 22, 2019, at 5:40 p.m., the Fitchburg Fire Department was called to a fatal arson fire in a 24-unit multifamily building. The victim, a 59-year old man was being evicted from his unit. During a standoff an incendiary device he had built ignited starting the fire. Two (2) civilians and four firefighters were also injured at this fire. Alarms were present and alerted the occupants. The building was not sprinklered. Damages from this fire were estimated to be \$1.4 million.
- On December 5 2019, at 11:42 p.m., the Sturbridge Fire Department was called to a fatal motor vehicle fire. The car was stuck in a wooded area and heat from the exhaust caused the surrounding vegetation to ignite. The victim, a 76-year old man, was trapped in the vehicle and died in the fire. No one else was injured at this fire. Damages from this fire were not estimated.

### **1 Fire Service Death in 2019 - LT Jason Menard, Age 39**

In 2019, there was one fire-related fire service death in Worcester County.

- On November 13, 2019, at 1:00 a.m., the Worcester Fire Department was called to a fire at 7 Stockholm St., a traditional “three-decker” apartment building. Lt. Jason Menard was inside the building with his crew when conditions deteriorated rapidly. He pushed one of his crew out a window and another down the stairs saving their lives. He was unable to extricate himself from the worsening conditions. He was extricated from the home and transported to a local hospital where he succumbed to his injuries. He was 39 years old. Four (4) other firefighters and two civilians were also injured at this fire. Alarms were present and operated. The building did not have sprinklers. Damages from this fire were estimated to be \$550,145.

### **Fitchburg Had Largest Loss Fire in 2019**

In 2019, Worcester County fire departments reported three fires with a reported dollar loss of \$1 million or greater. The dollar loss of these three fires totaled \$3.8 million, or 14%, of the county’s total dollar loss.

- On September 22, 2019, at 5:40 p.m., the Fitchburg Fire Department was called to a fatal arson fire in a 24-unit multifamily building. The victim, a 59-year old man was being evicted from his unit. During a standoff an incendiary device he had built ignited starting the fire. Two (2) civilians and four firefighters were also injured at this fire. Alarms were present and alerted the occupants. The building was not sprinklered. Damages from this fire were estimated to be \$1.4 million.

## **STRUCTURE FIRES**

### **Reported Structure Fires Down**

The 2,395 structure fires caused two civilian deaths, one fire service death, 39 civilian injuries, 34 fire service injuries and an estimated dollar loss of \$22.1 million. These

incidents represented 65% of Worcester County's reported fires in 2019. The average estimated dollar loss per structure fire was \$9,236. The total number of reported structure fires decreased by 88, or 4%, from the 2,483 reported in 2018.

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

The 24 structure arsons caused one civilian death, four civilian injuries, five fire service injuries and an estimated dollar loss of \$3.1 million. Arson was indicated as the cause of 1% of the structure fires and 14% of Worcester County's structure fire dollar loss. The 24 structure arsons accounted for 26% of the Worcester County arson fires reported in 2019. The total number of reported structure arsons decreased by seven, or 23%, from the 31 reported in 2018.

#### **74% of Structure Arsons Occurred in Residences**

Seventy-four percent (74%) of Worcester County's 24 structure arsons occurred in residential occupancies; 9% happened in institutional facilities; and 1% each occurred in public assembly properties, educational facilities, manufacturing or processing properties and storage facilities.

### **BUILDING FIRES**

There were 2,389 building fires of different types in Worcester County in 2019. These 2,389 building fires accounted for 99.7% of all structure fires in Worcester County.

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

Two thousand twenty-five (2,025), or 85%, of Worcester County's 2,389 building fires occurred in residential occupancies. Ninety (90) fires took place in public assembly properties, including restaurants and churches. Hospitals, prisons, and other institutional buildings experienced 87 fires. Mercantile and business properties had 72 fires. Forty-three (43) building fires took place in educational properties. Thirty-five (35) fires took place in storage properties. Twenty-one (21) fires took place in manufacturing and processing facilities. Nine (9) fires occurred in industrial, utility, defense, agricultural or mining facilities. Five (5) building fires in Worcester County occurred in special properties such as outbuildings, bus stop shelters and tollbooths. One (1) fire reported to have *None* as its property use.

### **RESIDENTIAL FIRES**

#### **Residential Building Fires Were Down**

There were 2,025 reported residential building fires in Worcester County in 2019. These 2,025 fires were a decrease of 90, or 4%, from the 2,115 residential building fires reported in 2018.

#### **Apartments Accounted for 44% of Residential Building Fires**

The peak fixed property uses for residential building fires were apartments, accounting for 44% of the residential building fires in Worcester County; 35% occurred in one- or two-family homes; 8% happened in rooming houses; 5% occurred in dormitories; 4%

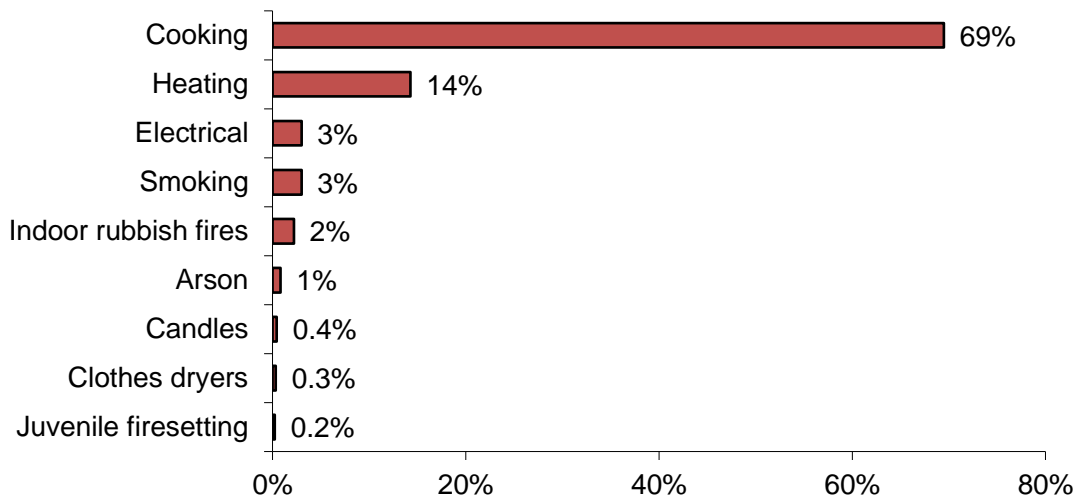


happened in hotels or motels; and 2% occurred in residential board and care facilities. Twenty-three (23), or 1%, of the residential building fires in Worcester County occurred in unclassified residential buildings.

### Unattended Cooking Caused 69% of Residential Fires

The leading cause of residential building fires in Worcester County was unattended cooking and other unsafe cooking practices, accounting for 69% of these fires. Heating caused 14% of fires in people's homes. Electrical problems and smoking each accounted for 3% of these fires. Indoor rubbish fires caused 2% and arsons caused 1%. Candles, clothes dryers and juvenile-set fires each caused less than 1% of the fires in people's homes in Worcester County in 2019.

### 2019 Leading Causes of Fires in Worcester County Homes



### 81% of Residential Building Fires Are Confined to Non-Combustible Containers<sup>2</sup>

One thousand six hundred and forty-nine (1,649), or 81%, of all residential building fires were reported as confined to non-combustible containers in 2019. One thousand three hundred and fifty-three (1,353) of the reported fires were cooking fires contained to a non-combustible container, accounting for 67% of residential building fires. One hundred and thirty-three (133), or 7%, were fires confined to a fuel burner or boiler malfunction. One hundred and nineteen (119), or 6%, of all residential building fires reported in 2019 were confined to a chimney. Forty-three (43), or 2%, of the residential building fires in

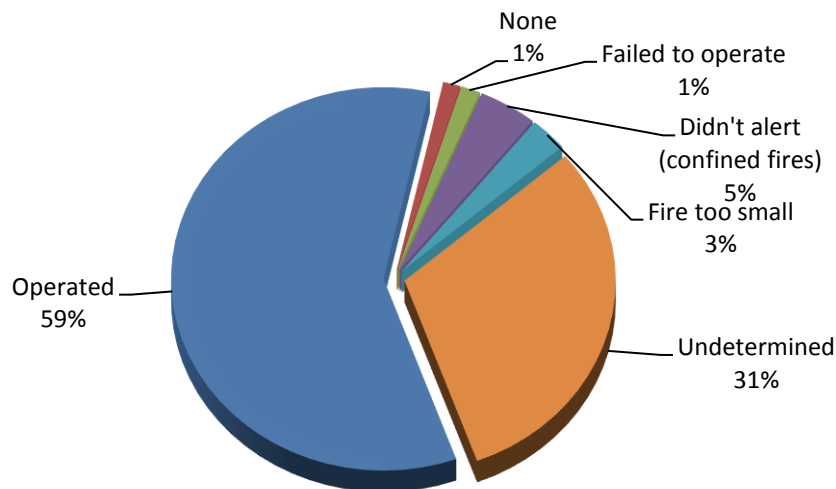
<sup>2</sup> In MFIRS v5 a fire in a building contained to a non-combustible container (Incident Type = 113-118) does not have to have a Fire Module completed. Therefore the following data fields do not need to be completed: Area of Origin, Detector Status, Item First Ignited, Heat Source, Factors Contributing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

Worcester County in 2019 were contained rubbish fires; and one fire, or less than 1%, was a commercial compactor fire.

### Alarms Alerted Occupants in 59% of Fires

Smoke or heat alarms operated and alerted the occupants in 1,196, or 59%, of the residential building fires. In 5% of these fires<sup>3</sup>, the alarms did not alert the occupants. Alarms were present but did not operate in 1% of these incidents. In 1% of these fires, no alarms were present at all. The fire was too small to trigger the alarm in 3% of the residential fires. Smoke alarm performance was undetermined in 622 incidents, or 31%, of Worcester County's residential building fires.

## Detector Status in Worcester County's Residential Structure Fires 2019



### 27% of Failed Alarms Had Missing or Dead Batteries

Of the 30 fires where smoke alarms were present but failed to operate, seven, or 23%, failed because the batteries were either missing or disconnected. One (1), or 3%, failed because the batteries were dead. Five (5), or 17%, failed from a power failure, shutoff or disconnect. Three (3) or 10%, failed from a improper installation or placement. A defective detector and a lack of maintenance each caused one, or 3%, of the alarms to fail. It was undetermined or unclassified in 12 cases, or 40%, why the alarms failed to operate.

<sup>3</sup> These represent confined fires where it was reported that the alarm did not alert the occupants.

## VACANT BUILDINGS

### 1% of Building Fires Occurred in Vacant Buildings

Worcester County reported 28 fires that occurred in buildings that were vacant, under construction or demolition. This represents 1% of the total 2,389 building fires reported to MFIRS in 2019. Fourteen (14) fires occurred in vacant residential properties. Ten (10) of these fires occurred at storage facilities. Two (2) vacant building fires occurred in mercantile or business properties, and a public assembly property and a manufacturing and processing facility each had one vacant building fire in Worcester County in 2019.

Three (3), or 11%, of the vacant building fires in Worcester County in 2019 were determined to be intentionally-set. One (1) each happened in an apartment building, a warehouse, and a manufacturing facility in 2019.

## JUVENILE-SET FIRES

### 13 Juvenile-set Fires

There were 13 reported juvenile-set fires in Worcester County in 2019. The nine structure fires, one brush fire, two special outside fires and one unclassified fire caused one civilian injury and \$238,359 in estimated damages.

## ARSONS

### 93 Total Arsons<sup>4</sup> — 24 Structures, 9 Vehicles & 60 Other Arsons

Ninety-three (93), or 3%, of Worcester County's 3,713 fires were considered intentionally-set, or, for purposes of this analysis, arson. The 24 structure arsons, nine motor vehicle arsons and 60 outside and other arsons caused one civilian death, five civilian injuries, five fire service injuries and an estimated dollar loss of \$3.2 million. Worcester County's arson fires accounted for 16% of the state's total arson fires and 49% of the state's total dollar losses from arson.

### Outside & Other Arson Up

The total number of arsons increased by nine from 84 in 2018. Reported structure arsons decreased by seven from the 31 reported in 2018. Motor vehicle arsons decreased by four from the 13 reported in 2018. Outside and other arsons increased by 20 from the 40 reported last year.

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<sup>4</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

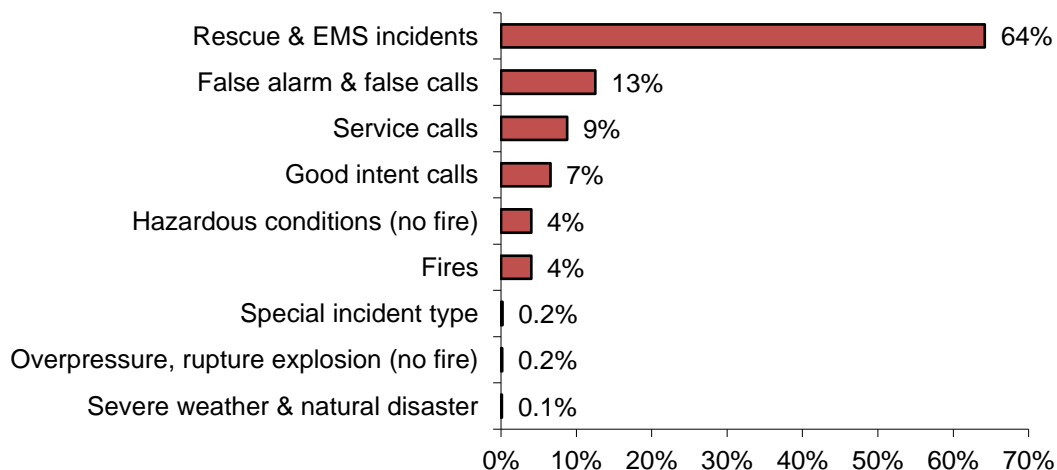
### Rescue & EMS Calls Are 64% of All Reported Responses

In 2019, fire departments in Worcester County reported 109,762 responses<sup>5</sup> to MFIRS. This is a decrease of 743 runs, or 1%, over the 110,505 reported in 2018. Of these 109,762 responses, 105,680 non-fire calls were voluntarily reported.

Of these 105,680 non-fire calls, 70,444, or 64%, of all the responses reported in 2019 were reported rescue and emergency medical services (EMS) calls; 13,739, or 13%, were reported false alarm or false calls; 9,617, or 9%, were reported service calls such as lock-outs, water or smoke problems, unauthorized burning or public service assistance; 7,201, or 7%, were reported good intent calls; 4,144, or 4%, reported hazardous condition calls with no fire; 224, or 0.2%, were special incident type calls such as citizen complaints; 169, or 0.2%, were reported overpressure, rupture, explosion or overheat calls with no fire; and 142, or 0.1%, were severe weather calls.

Four thousand one hundred and fourteen (4,082), or 4%, of the total responses submitted by Worcester County fire departments were fires.

### 2019 Responses by Incident Type



### Worcester County Fire Departments Reported Giving Mutual Aid 2,991 Times

In 2019, Worcester County fire departments reported coming to the aid of other fire departments 2,991 times. Of these 2,991 responses, 1,671, or 56%, were for rescue or EMS incidents; 476, or 16%, were for service calls such as cover assignments; 397, or 13%, were for good intent calls; 368, or 12%, were for fires; 40, or 1%, were for hazardous conditions calls with no fire; 35, or 1%, were for false alarms or false calls; two, or 0.1%, were for overpressure, rupture explosion calls with no fire; one, or 0.03%,

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

was a special incident type; and one, or 0.03%, were for severe weather or natural disasters.

**Worcester County Fire Departments Received Mutual Aid in 1,789 Incidents**

In 2019, Worcester County fire departments reported receiving aid from surrounding departments in 1,789 incidents. Of these 1,789 incidents, 1,392 or 78% were rescue and emergency medical services calls; 191, or 11%, were for fires; 64, or 4%, were false alarms or false calls; 58, or 3%, were good intent calls; 46, or 2%, were service calls; 32, or 2%, were hazardous conditions calls with no fire; four, or 0.2%, were for overpressure, rupture explosion calls with no fire; and two, or 0.1%, were for severe weather or natural disasters.

**Worcester County****Population: 798,552****4.6 Fires/1,000 Population****Total Fires: 3,713 \$27,688,236**

<b>Situation</b>	<b>Fires</b>	<b>% of Fires</b>	<b>Dollar Loss</b>
Structure Fires	2,395	65%	\$22,119,923
Vehicle Fires	388	10%	5,328,080
Other Fires	930	25%	240,233

3 Fatal Fires 0.81 Civilian Deaths/1,000 Fires  
 3 Civilian Deaths 0.04 Civilian Deaths/10,000 Population  
 1 Firefighter Death 47 Civilian Injuries 38 Fire Service Injuries

**Building Fires: 2,389****Residential Structure Fires: 2,025****Residential Structure Fires Confined to Non-Combustible Containers: 1,649****Unconfined Residential Structure Fires: 376**

2 Civilian Deaths 1 Firefighter Death 36 Civilian Injuries 29 Fire Service Injuries

<b>Occupancy</b>	<b>Fires</b>	<b>%</b>	<b>Detector Status</b>	<b>Fires</b>	<b>%</b>
Apartments	891	44%	Operated	1,196	29%
1- & 2-Family homes	716	35%	Didn't operate	30	1%
Rooming houses	160	8%	None	27	1%
Dormitories	102	5%	Fire too small	59	3%
Hotels or motels	91	4%	Didn't Alert (confined)	91	5%
Residential board & care	42	2%	Undetermined	622	31%

<b>Area of Origin<sup>6</sup></b>	<b>%</b>	<b>Heat Source</b>	<b>%</b>	<b>%Unconfined<sup>7</sup></b>
Kitchen	72%	Radiated heat from oper. eq.	3%	18%
Heating room or area	7%	Heat from operating eq.	2%	12%
Chimney or flue	6%	Arcing	2%	11%
Bedroom	2%	Cigarette	1%	8%
Exterior Balcony, unencl. porch	1%	Hot ember or ash	1%	6%
Living room	1%	Hot or smoldering object	1%	5%

<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	69%	Too close to combustibles	2%	10%
Flammable, combustible liquid	7%	Abandoned materials	2%	10%
Film or residue (creosote)	6%	Elec. fail., malfunc., other	1%	6%
Rubbish, trash, waste	3%	Equipment unattended	1%	5%
Structural member, framing	2%	Mech. fail., malfunc., other	1%	5%
		Failure to clean	1%	4%

<b>Equipment<sup>10</sup></b>	<b>%</b>	<b>Cause of Ignition</b>	<b>%</b>	<b>%Unconfined<sup>11</sup></b>
Cooking equipment	68%	Unintentional	13%	69%
None	12%	Failure of eq. or heat source	2%	8%
Boiler, furnace, cent. heat. unit	7%	Intentional	1%	4%
Chimney or flue	6%	Act of Nature	0.2%	1%
Stove, heating	1%	Cause under investigation	1%	4%
		Undetermined	2%	13%

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

Alerted Occupants	60%
Didn't Alert Occupants	6%
Undetermined	34%

<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	346	264	44	38
February	259	215	23	21
March	312	229	24	59
April	349	211	26	112
May	324	189	34	101
June	331	191	35	105
July	329	167	36	126
August	312	160	36	116
September	312	184	29	99
October	288	197	33	58
November	289	179	33	77
December	262	209	35	18

<b>Day</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
Sunday	528	360	45	123
Monday	537	331	66	140
Tuesday	555	375	57	123
Wednesday	507	315	51	141
Thursday	537	355	56	124
Friday	474	305	53	116
Saturday	575	354	58	163

<b>Time</b>	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>
00:01 – 04:00	216	147	30	39
04:01 – 08:00	245	164	38	43
08:01 – 12:00	669	474	75	120
12:01 – 16:00	911	502	100	309
16:01 – 20:00	1,126	741	102	283
20:01 – 00:00	546	367	43	136

### **Motor Vehicle Fires**

Total: 388

Automobiles: 298 (77%)

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



## Arson Fires

**Total Arsons: 93**

**Dollar loss: \$3,194,369**

### 0.1 Arson Fires/1,000 Population

Situation	Arsons	% Situation	% Arson	Dollar Loss
Structure Arsons	24	1%	25%	\$3,083,936
Vehicle Arsons	9	2%	10%	108,861
Other Arsons	60	6%	65%	1,572

0.03 Structure arsons/1,000 population

0.01 Vehicle arsons/1,000 population

0.08 Other arsons/1,000 population

1 Civilian Death

5 Civilian Injuries

5 Fire Service Injuries

### Peak Times of Day for:

Structure Arsons	#	%	Vehicle Arsons	#	%
00:01 – 04:00	7	29%	00:01 – 04:00	5	56%
16:01 – 20:00	6	25%	12:01 – 16:00	2	22%
04:01 – 08:00	4	17%	04:01 – 08:00	1	11%
20:01 – 08:00	4	17%	20:01 – 00:00	1	11%

Other Arsons	#	%
16:01 – 20:00	19	32%
12:01 – 16:00	15	25%
20:01 – 00:00	12	20%
08:01 – 12:00	10	17%

Peak Fixed Property Uses for Structure Arsons	#	%
Apartments	12	50%
1- or 2-Family homes	5	21%

<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>
2015	20	11	0	9	2	0	0	2
2016	14	3	0	11	0	0	0	0
2017	20	8	2	10	1	0	0	1
2018	18	10	3	5	0	0	0	0
2019	12	6	3	3	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>
2015	47	11	4	32	4	0	0	4
2016	60	27	5	28	2	1	0	1
2017	45	22	7	16	2	1	0	1
2018	42	19	5	18	1	1	0	0
2019	45	23	0	22	2	2	0	0

<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>
2015	71	21	16	34	0	0	0	0
2016	71	23	15	33	3	0	0	3
2017	52	25	11	16	6	1	1	4
2018	63	25	14	21	4	1	0	6
2019	56	24	18	14	4	3	0	1

<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>
2015	25	9	4	12	3	3	0	0
2016	36	9	0	27	2	0	0	2
2017	34	18	2	14	0	0	0	0
2018	32	19	4	9	4	2	2	0
2019	30	14	1	15	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>
2015	27	3	7	17	2	0	0	2
2016	21	0	4	17	2	0	1	1
2017	18	5	4	9	0	0	0	0
2018	23	5	7	11	2	1	0	1
2019	19	4	5	10	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>
2015	23	9	2	12	2	1	0	1
2016	20	4	1	15	0	0	0	0
2017	17	8	1	8	1	0	0	1
2018	11	5	0	6	1	1	0	0
2019	9	5	2	2	0	0	0	0

<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>
2015	22	5	3	14	0	0	0	0
2016	22	6	5	11	1	0	1	0
2017	13	3	5	5	0	0	0	0
2018	21	9	7	5	0	0	0	0
2019	19	10	7	2	0	0	0	0

<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>
2015	18	10	2	6	1	0	0	1
2016	11	3	1	7	2	0	0	2
2017	14	4	1	9	0	0	0	0
2018	15	9	1	5	3	1	0	2
2019	19	12	4	3	1	0	0	1

**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>
2015	7	3	1	3	1	0	0	1
2016	17	7	1	9	4	2	0	2
2017	13	5	2	6	1	0	0	1
2018	6	3	0	3	3	1	0	2
2019	10	5	2	3	1	0	0	1

**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>
2015	58	32	13	13	0	0	0	0
2016	51	25	12	14	2	0	0	2
2017	60	32	16	12	2	0	1	1
2018	47	25	13	9	1	0	0	1
2019	51	24	19	8	0	0	0	0

**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>
2015	67	29	2	36	5	0	0	5
2016	66	34	2	30	1	0	0	1
2017	49	31	6	12	2	2	0	0
2018	42	27	2	13	0	0	0	0
2019	32	20	1	11	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>
2015	31	10	4	17	1	0	0	1
2016	33	11	1	21	1	0	0	1
2017	18	7	3	8	1	0	0	1
2018	15	6	3	6	1	0	0	1
2019	24	9	5	10	1	1	0	0

**Dudley** **Population: 11,390**

	<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>
2015	51	24	3	24	1	1	0	0
2016	32	18	2	12	0	0	0	0
2017	41	19	4	18	2	1	0	1
2018	30	21	3	6	2	1	1	0
2019	29	10	7	12	1	0	0	1

**East Brookfield** **Population: 2,183**

	<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>
2015	14	2	1	11	0	0	0	0
2016	11	4	1	6	0	0	0	0
2017	5	2	0	3	0	0	0	0
2018	14	1	2	11	0	0	0	0
2019	9	2	1	6	3	0	0	3

**Fitchburg** **Population: 40,318**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	505	380	33	92	10	7	2	1
2016	548	364	21	163	4	2	2	0
2017	458	406	15	37	6	4	2	0
2018	428	359	19	50	4	2	2	0
2019	489	399	21	69	4	4	0	0

**Gardner** **Population: 20,228**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	201	139	10	52	3	1	0	2
2016	232	189	7	36	1	0	1	0
2017	183	150	9	24	3	2	1	0
2018	147	119	11	17	2	1	1	0
2019	153	124	13	16	5	3	0	2

<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>
2015	30	18	1	11	1	0	1	0
2016	8	5	2	1	0	0	0	0
2017	21	15	1	5	0	0	0	0
2018	14	12	2	0	0	0	0	0
2019	1	1	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>
2015	5	5	0	0	0	0	0	0
2016	15	10	1	4	0	0	0	0
2017	10	6	0	4	0	0	0	0
2018	5	3	0	2	0	0	0	0
2019	11	5	2	4	0	0	0	0

<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>
2015	40	19	2	19	3	3	0	0
2016	19	6	2	11	0	0	0	0
2017	19	10	7	2	0	0	0	0
2018	22	9	4	9	0	0	0	0
2019	35	19	6	10	0	0	0	0

<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>
2015	36	18	2	16	2	0	1	1
2016	36	20	3	13	0	0	0	0
2017	37	21	3	13	2	0	0	2
2018	21	15	1	5	1	0	0	1
2019	35	19	3	13	1	0	0	1

<b>Hopedale</b>					<b>Population: 5,911</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>
2015	14	7	0	7	2	0	0	2
2016	35	19	0	16	4	0	0	4
2017	19	8	3	8	4	0	0	4
2018	28	14	1	13	4	0	0	4
2019	25	19	1	5	2	0	0	2

<b>Hubbardston</b>					<b>Population: 4,382</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>
2015	23	9	2	12	3	0	0	3
2016	33	13	3	17	2	0	0	2
2017	14	6	1	7	0	0	0	0
2018	14	8	3	3	0	0	0	0
2019	9	7	1	1	0	0	0	0

<b>Lancaster</b>					<b>Population: 8,055</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>
2015	18	7	4	7	0	0	0	0
2016	21	4	3	14	0	0	0	0
2017	22	9	5	8	0	0	0	0
2018	14	7	3	4	0	0	0	0
2019	19	8	1	10	0	0	0	0

<b>Leicester</b>					<b>Population: 10,970</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>
2015	18	8	1	9	1	0	0	1
2016	31	7	7	17	4	0	0	4
2017	33	30	2	1	0	0	0	0
2018	27	18	3	6	1	0	0	1
2019	47	27	6	14	5	0	0	5

**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>
2015	205	80	16	109	7	3	0	4
2016	257	142	8	107	2	0	0	2
2017	245	176	15	54	5	4	0	1
2018	219	154	20	45	2	1	0	1
2019	221	153	14	54	0	0	0	0

**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>
2015	41	19	2	20	2	1	0	1
2016	17	4	0	13	0	0	0	0
2017	45	21	5	19	1	0	0	1
2018	28	21	1	6	0	0	0	0
2019	22	14	1	7	0	0	0	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>
2015	22	7	1	14	2	1	0	1
2016	4	1	1	2	0	0	0	0
2017	6	1	2	3	0	0	0	0
2018	4	0	2	2	0	0	0	0
2019	21	10	1	10	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>
2015	99	36	11	52	1	1	0	0
2016	118	41	14	63	1	0	0	1
2017	104	50	13	41	2	1	0	1
2018	72	45	8	19	0	0	0	0
2019	73	39	15	19	3	1	1	1



**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>
2015	53	26	7	20	2	1	1	0
2016	56	29	6	21	0	0	0	0
2017	55	30	5	20	0	0	0	0
2018	54	33	12	9	0	0	0	0
2019	52	36	9	7	1	1	0	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>
2015	10	3	2	5	0	0	0	0
2016	10	8	1	1	0	0	0	0
2017	4	2	1	1	0	0	0	0
2018	7	4	0	3	1	1	0	0
2019	10	8	1	1	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>
2015	1	1	0	0	0	0	0	0
2016	1	1	0	0	0	0	0	0
2017	6	2	1	3	0	0	0	0
2018	1	1	0	0	0	0	0	0
2019	Non-reporting Department							

**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>
2015	16	7	0	9	2	0	0	2
2016	1	0	1	0	0	0	0	0
2017	20	8	0	12	1	0	0	1
2018	23	14	0	9	0	0	0	0
2019	9	4	3	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>
2015	37	11	2	24	1	0	0	1
2016	45	9	7	29	2	0	0	2
2017	32	11	5	16	0	0	0	0
2018	38	15	4	19	0	0	0	0
2019	38	16	8	14	0	0	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>
2015	56	27	3	26	0	0	0	0
2016	54	23	2	29	2	0	0	2
2017	42	18	5	19	0	0	0	0
2018	29	19	5	5	1	0	0	1
2019	35	18	9	8	1	0	0	1

**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>
2015	15	8	3	4	0	0	0	0
2016	9	3	0	6	0	0	0	0
2017	4	0	2	2	0	0	0	0
2018	8	6	0	2	2	1	0	1
2019	3	3	0	0	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>
2015	61	25	11	25	4	0	0	4
2016	66	22	9	35	0	0	0	0
2017	61	32	6	23	1	0	1	0
2018	54	32	7	15	1	1	0	0
2019	47	24	6	17	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>
2015	16	14	1	1	0	0	0	0
2016	19	9	1	9	0	0	0	0
2017	12	9	0	3	0	0	0	0
2018	14	10	2	2	0	0	0	0
2019	9	9	0	0	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>
2015	Fire Department in Good Standing, Certified No Reportable Fires							
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	1	0	1	0	0	0	0	0
2018	Fire Department in Good Standing, Certified No Reportable Fires							
2019	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>
2015	5	1	0	4	0	0	0	0
2016	10	3	1	6	0	0	0	0
2017	5	2	0	3	0	0	0	0
2018	5	1	3	1	0	0	0	0
2019	4	2	2	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>
2015	11	5	1	5	0	0	0	0
2016	7	3	1	3	0	0	0	0
2017	14	13	0	1	1	0	0	1
2018	8	5	1	2	0	0	0	0
2019	14	8	1	5	0	0	0	0

**Royalston** **Population: 1,258**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	1	1	0	0	0	0	0	0
2016	Fire Department in Good Standing, Certified No Reportable Fires							
2017	7	3	0	4	0	0	0	0
2018	10	3	0	7	3	0	0	3
2019	4	2	0	2	1	0	0	1

**Rutland** **Population: 7,973**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	19	10	1	8	0	0	0	0
2016	26	6	7	13	2	0	0	2
2017	22	13	0	9	0	0	0	0
2018	22	8	1	13	0	0	0	0
2019	17	9	2	6	0	0	0	0

**Shrewsbury** **Population: 35,608**

	<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>
2015	141	74	16	51	1	0	1	0
2016	150	77	17	56	1	0	0	1
2017	99	54	14	31	2	1	0	1
2018	116	63	17	36	2	0	0	2
2019	90	56	12	22	6	0	1	5

**Southborough** **Population: 9,767**

	<b>Total Fires</b>	<b>Structure Fires</b>	<b>Vehicle Fires</b>	<b>Other Fires</b>	<b>Total Arsons</b>	<b>Structure Arsons</b>	<b>Vehicle Arsons</b>	<b>Other Arsons</b>
2015	34	6	6	22	1	0	0	1
2016	36	10	4	22	1	0	0	1
2017	25	8	7	10	0	0	0	0
2018	30	18	7	5	0	0	0	0
2019	21	8	6	7	4	0	1	3

<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>
2015	69	40	14	15	3	1	1	1
2016	49	30	6	13	0	0	0	0
2017	36	21	12	3	0	0	0	0
2018	45	28	6	11	0	0	0	0
2019	51	28	12	11	0	0	0	0

<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>
2015	67	41	3	23	1	0	0	1
2016	62	44	5	13	0	0	0	0
2017	56	39	3	14	1	0	0	1
2018	28	17	5	6	1	0	0	1
2019	48	25	4	19	1	1	0	0

<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>
2015	28	4	8	16	0	0	0	0
2016	24	7	3	14	1	0	1	0
2017	21	8	6	7	3	1	0	2
2018	13	5	5	3	0	0	0	0
2019	17	7	2	8	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>
2015	52	15	9	28	2	0	0	2
2016	44	14	5	25	5	1	0	4
2017	44	16	8	20	0	0	0	0
2018	32	13	10	9	0	0	0	0
2019	47	20	8	19	4	0	0	4

<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>
2015	47	14	5	28	2	0	0	2
2016	41	16	7	18	1	1	0	0
2017	26	8	6	12	0	0	0	0
2018	24	16	2	6	0	0	0	0
2019	31	19	6	6	0	0	0	0

<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>
2015	8	5	2	1	0	0	0	0
2016	8	6	1	1	0	0	0	0
2017	11	9	0	2	0	0	0	0
2018	6	2	3	1	0	0	0	0
2019	Non-reporting Department							

<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>
2015	12	3	4	5	1	0	0	1
2016	21	10	2	9	2	0	0	2
2017	14	10	0	4	2	0	0	2
2018	24	15	4	5	0	0	0	0
2019	14	8	1	5	1	0	0	1

<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>
2015	33	12	7	14	0	0	0	0
2016	53	23	8	22	2	1	1	0
2017	36	11	6	19	50	0	0	5
2018	22	12	6	4	1	0	0	1
2019	32	11	9	12	2	0	0	2

<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>
2015	23	9	5	9	1	1	0	0
2016	23	4	3	16	1	0	0	1
2017	14	5	3	6	0	0	0	0
2018	12	8	2	2	0	0	0	0
2019	29	11	8	10	3	0	0	3

<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>
2015	67	32	8	27	9	3	1	5
2016	62	31	10	21	6	0	1	5
2017	57	36	10	11	5	2	1	2
2018	53	32	11	10	0	0	0	0
2019	41	25	5	11	1	0	0	1

<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>
2015	23	6	8	9	0	0	0	0
2016	38	17	4	17	0	0	0	0
2017	17	7	4	6	0	0	0	0
2018	17	9	2	6	1	0	0	1
2019	19	7	6	6	0	0	0	0

<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>
2015	2	2	0	0	0	0	0	0
2016	1	0	1	0	0	0	0	0
2017	10	6	3	1	1	0	0	1
2018	13	5	2	6	4	0	0	4
2019	2	2	0	0	0	0	0	0

<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>
2015	120	62	12	42	3	0	0	3
2016	135	81	12	42	2	0	0	2
2017	138	109	9	20	5	3	0	2
2018	96	72	4	20	2	1	0	1
2019	150	114	23	13	1	0	1	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>
2015	31	13	5	13	1	0	0	1
2016	43	18	10	15	1	0	0	1
2017	27	10	11	6	0	0	0	0
2018	25	12	5	8	1	1	0	0
2019	31	11	9	11	1	0	0	1

<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>
2015	29	23	0	6	0	0	0	0
2016	37	23	3	11	1	0	1	0
2017	19	10	3	6	1	0	0	1
2018	41	19	10	12	3	1	2	0
2019	23	14	2	7	0	0	0	0

<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>
2015	1,510	826	91	593	19	12	6	1
2016	1,426	827	88	511	16	8	7	1
2017	1,270	852	70	348	11	8	3	0
2018	1,384	963	87	334	24	11	5	8
2019	1,300	878	74	348	32	7	5	20



## 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	756	13	3	485	17	83	45	107	1	2
27015	Athol	2,843	53	2	2,031	99	293	137	185	42	1
27017	Auburn	3,793	67	3	2,726	131	302	256	302	2	4
27021	Barre	1,243	44	2	858	103	122	24	84	6	0
27028	Berlin	680	22	1	443	17	40	43	113	0	1
27032	Blackstone	387	11	1	165	33	17	44	114	1	1
27034	Bolton	279	19	0	97	24	18	28	93	0	0
27039	Boylston	614	22	3	466	15	32	12	63	0	1
27045	Brookfield	111	18	0	32	8	9	13	30	1	0
27054	Charlton	2,638	59	4	1,919	114	258	119	156	0	9
27064	Clinton	1,660	36	0	1,160	24	75	25	337	1	2
27077	Douglas	344	28	0	131	39	35	23	81	3	4
27080	Dudley	561	43	0	171	42	46	96	159	0	4
27084	East Brookfield	113	12	0	22	30	11	7	30	1	0
27097	Fitchburg	4,737	508	2	1,954	198	482	563	1,029	1	0
27103	Gardner	5,162	163	10	3,751	136	444	223	426	1	8

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## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27110	Grafton	1	1	0	0	0	0	0	0	0	0
27124	Hardwick	97	12	0	16	9	10	9	41	0	0
27125	Harvard	335	35	0	75	24	49	47	102	0	3
27134	Holden	2,054	39	1	1,636	53	68	84	170	3	0
27138	Hopedale	1,543	39	3	845	59	350	106	125	12	4
27140	Hubbardston	650	9	0	409	32	92	66	40	2	0
27147	Lancaster	940	37	1	687	15	34	44	112	0	10
27151	Leicester	336	49	0	64	51	49	33	88	0	2
27153	Leominster	8,175	223	5	5,343	233	897	583	856	6	29
27162	Lunenburg	420	28	1	92	37	62	33	164	1	2
27179	Mendon	713	22	0	505	22	44	44	73	0	3
27185	Milford	5,550	85	2	3,911	151	667	258	470	2	4
27186	Millbury	362	55	1	14	47	41	45	158	1	0
27188	Millville	361	15	1	215	27	16	59	28	0	0
27202	New Braintree**	0	0	0	0	0	0	0	0	0	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
27212	North Brookfield	237	17	0	37	47	42	7	81	6	0
27215	Northborough	2,332	53	1	1,578	78	194	114	309	2	3
27216	Northbridge	1,011	39	0	359	65	72	143	330	2	1
27222	Oakham	249	7	0	147	15	12	40	26	2	0
27226	Oxford	613	48	2	155	53	105	67	175	4	4
27228	Paxton	1,163	16	0	702	7	273	78	85	1	1
27234	Petersham*	0	0	0	0	0	0	0	0	0	0
27235	Phillipston	175	14	0	122	9	10	5	10	0	5
27241	Princeton	320	14	1	203	11	17	16	56	1	1
27255	Royalston	104	12	1	26	19	25	9	9	3	0
27257	Rutland	1,266	17	0	869	22	181	84	87	4	2
27271	Shrewsbury	4,265	94	1	3,099	148	291	134	470	7	21
27277	Southborough	1,349	30	2	821	47	117	112	217	2	1
27278	Southbridge	1,020	65	1	361	81	113	99	276	1	23
27280	Spencer	691	61	0	246	85	55	61	170	5	8

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## Responses Reported to MFIRS by Department

FDID #	Department	Total # of Reported Responses	Fires	Overpressure Rupt. & Explos. (No fire)	Rescue EMS Incidents	Hazardous Conditions (No fire)	Service Calls	Good Intent Calls	False Alarm Calls	Severe WX & Natural Disaster	Special Incident Type
27282	Sterling	1,474	31	0	941	24	208	154	115	1	0
27287	Sturbridge	1,975	50	7	1,311	51	197	105	247	1	6
27290	Sutton	545	50	1	284	41	50	24	94	1	0
27294	Templeton**	0	0	0	0	0	0	0	0	0	0
27303	Upton	274	14	0	30	65	51	17	92	2	3
27304	Uxbridge	819	38	23	154	48	167	115	264	3	7
27311	Warren	775	35	1	549	31	40	63	56	0	0
27316	Webster	729	54	1	168	58	75	80	291	0	2
27321	West Boylston	1,330	26	0	947	38	117	59	140	0	3
27323	West Brookfield	3	2	0	0	0	1	0	0	0	0
27328	Westborough	4,101	166	5	2,858	185	176	222	486	2	1
27332	Westminster	1,548	31	1	956	57	159	76	248	3	17
27343	Winchendon	1,960	29	0	1,381	42	264	79	163	1	1
27348	Worcester	31,931	1,301	75	21,897	1,017	1,957	2,169	3,497	1	17
<b>Total</b>	<b>Worcester County</b>	<b>109,717</b>	<b>4,081</b>	<b>169</b>	<b>70,424</b>	<b>4,134</b>	<b>9,615</b>	<b>7,201</b>	<b>13,730</b>	<b>142</b>	<b>221</b>

\* Certified no reportable fires.

\*\*Non reporting department.

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