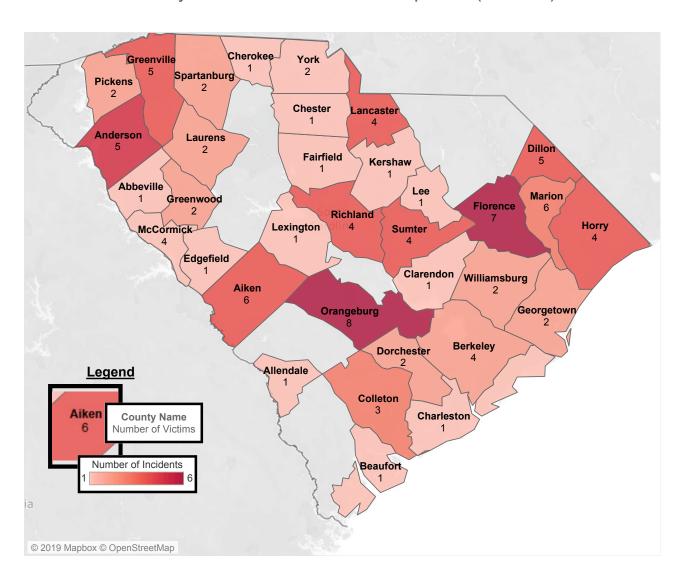
# **2018 Fire Fatality Summary Report**

South Carolina Office of State Fire Marshal Community Loss Education and Response (CLEAR) Team



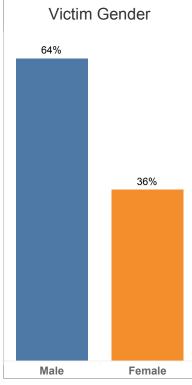
These findings are made possible by the research efforts of the CLEAR Team. In some cases, the percentages may not add up to 100% due to rounding. If you would like more information or outreach ideas based on the findings, please call South Carolina State Fire at (803) 896-9895.

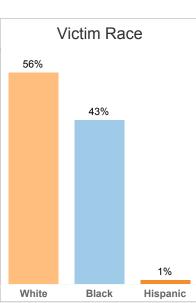
This report version was last updated on September 20, 2019.

## **Fire Fatality Victim Profile**

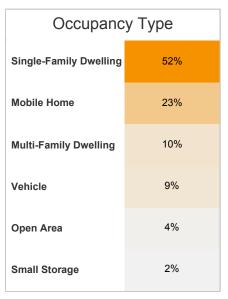
In 2018, there were 97 deaths from 81 incidents. The victims of fatal fires were reported in 34 of 46 counties, with the most incidents happening in Florence, Orangeburg, and Anderson counties. Aiken, Dillon, and Marion counties had a fewer number of incidents but more victims per incident. Most incidents had one victim; however, four incidents had three or more fatalities. Victims were mostly male, and 67 percent were older than the age of 50. White victims accounted for more than half of all victims, followed by black victims at 43 percent. Victims were typically found in residences, specifically single-family dwellings and mobile homes.

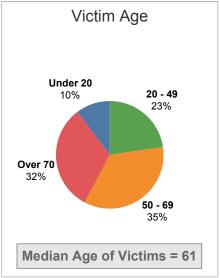
Incidents and Victims

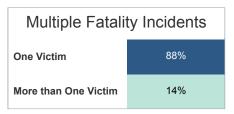




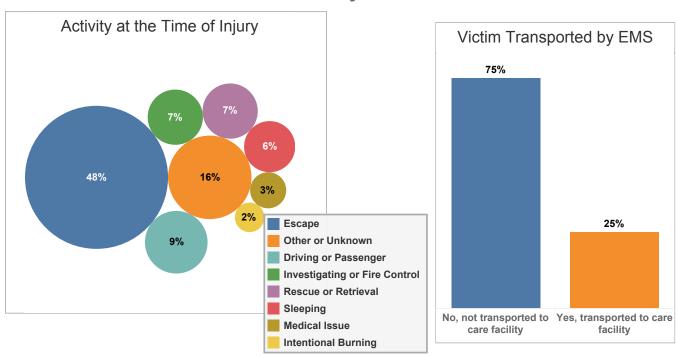
	Incidents	Victims
Abbeville	1	1
Aiken	4	6
Allendale	1	1
Anderson	5	5
Beaufort	1	1
Berkeley	2	4
Charleston	1	1
Cherokee	1	1
Chester	1	1
Clarendon	1	1
Colleton	3	3
Dillon	4	5
Dorchester	2	2
Edgefield	1	1
Fairfield	1	1
Florence	6	7
Georgetown	2	2
Greenville	4	5
Greenwood	2	2
Horry	4	4
Kershaw	1	1
Lancaster	4	4
Laurens	2	2
Lee	1	1
Lexington	1	1
Marion	3	6
McCormick	1	4
Orangeburg	6	8
Pickens	2	2
Richland	4	4
Spartanburg	2	2
Sumter	4	4
Williamsburg	2	2
York	1	2
Grand Total	81	97





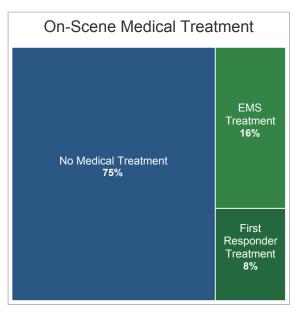


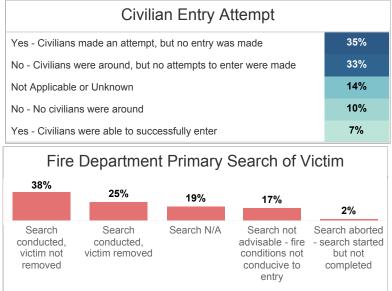
## **Fire Fatality Victim Profile**



Victims were generally found to be attempting escape when they were injured. Forty-eight percent of victims attempted an escape, while only four percent of victims were successful in their attempt. Six percent did not awaken to an emergency before succumbing. In three out of four cases, the victim was pronounced deceased at the fire scene. In 40 cases (42%), citizens attempted to rescue victims. Prior to fire department arrival, unsafe conditions did not allow for citizens to assist the victim in escaping. In 17 percent of cases, the fire department could not search for the victim due to conditions. Victims were only removed during search and rescue operations in one out of every four fatal fires.

The CLEAR Team was notified about fire fatalities within 24 hours of the death 84 percent of the time, and responded on-scene 53 percent of the time. This response allows us to understand more about why some fires are fatal and connect with fire departments and their communities to prevent further tragedies.





### **Human Factors Profile**

Human factors were deemed present in 82 percent of all incidents, with 56 percent of incidents having more than one human factor present. The human factors below account for some of the factors seen in this year's incidents. An inability to be notified of an emergency, an inability to go to a safe area, and risky behaviors contributed to a person's demise in the event of a fire.

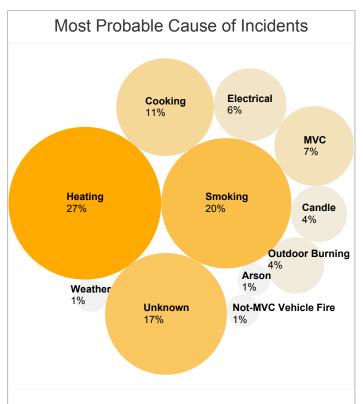
Eighty-three percent of vehicle-related and one-hundred percent of open area-related fire fatalities had at least one human factor which contributed to an improper response to the emergency.

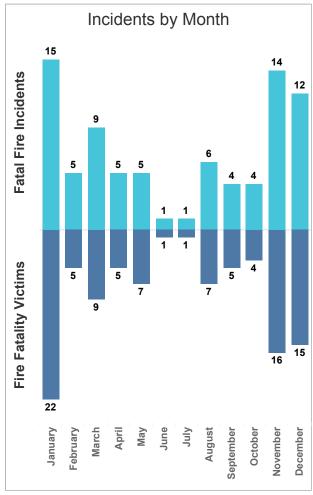
Four incidents had medical oxygen as a known human factor, and one-hundred percent of those incidents had smoking as an additional human factor present.

Asleep 42%	Alcohol 27%	Ambulatory 27%
Smoking 31%	Narcotics or Illicit Drugs 21%	Left Alone when Should Have been Medical Oxygen 5%
Medical Issue 28%	Prescription Drugs 21%	Unaccompanied 7%
		Other Speeding 4% 4%

#### **Fatal Incidents Profile**

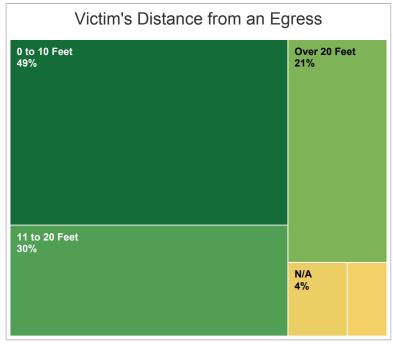
When cause could be determined, fatal incidents were most likely caused by improperly discarded smoking materials, unattended cooking, or malfunctioning or improperly-used heaters. Incidents occured on all days of the week, with an above average amount on Tuesday, Wednesday, Friday, and Saturday. Fatal incidents generally occured during overnight hours, from 9 p.m. to 6 a.m., and in January, November, and December.

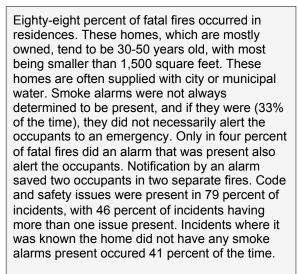


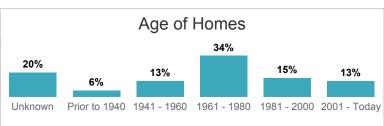


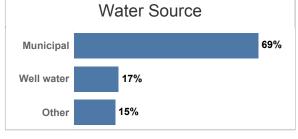
	Days and Times of Incidents Occurring							
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Grand Total
12 AM to 3 AM	3	2	2	1	1	2	2	13
3 AM to 6 AM	4	3	2		1	4	3	17
6 AM to 9 AM	1		2	4	1		3	11
9 AM to 12 PM			2	2	1	1	1	7
12 PM to 3 PM	2		1	1	2	1	1	8
3 PM to 6 PM		2	1		1	1		5
6 PM to 9 PM		1	1	2	1		1	6
9 PM to 12 PM		3	2	2		4	3	14
Grand Total	10	11	13	12	8	13	14	81

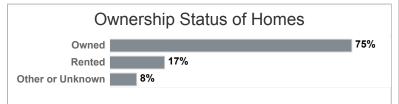
#### **Homes with Fatal Incidents Profile**

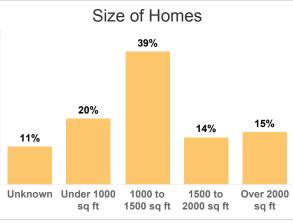




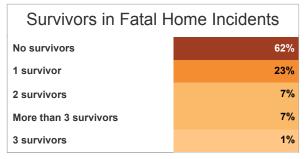






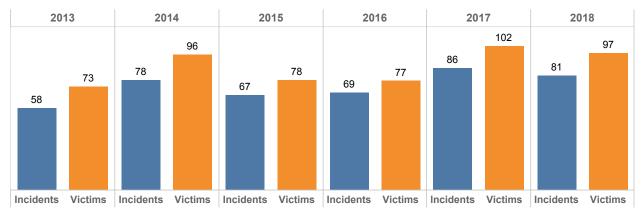


Known Code & Safety Issues					
No Smoke Alarms	41%				
Hoarding Conditions	22%				
Block Exits	21%				
Derelict Conditions	20%				
Issues with the Egress	14%				
Improper Storage of Materials	14%				
Trip Hazards	12%				
Electrical Risk	12%				
Poor Construction	11%				
No Power to Property	1%				



# Annual and Historical Fire Fatality Information

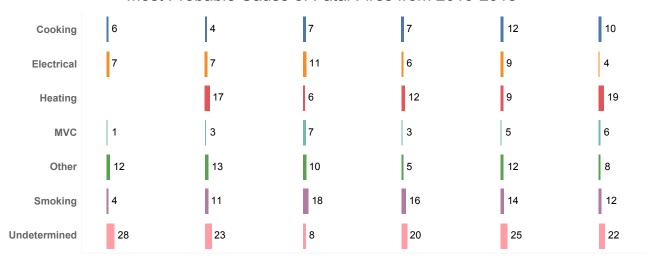
#### Number of Fatal Incidents and Fire Death Victims from 2013-2018



Fire deaths and fatal fires have increased steadily over the past five years. In 2013-2017, the average number of fire victims per year is 85. During the same time frame, the average number of fatal fires per year is 70. There is a 14 percent increase in fire deaths in 2018 compared to the average of the past five years. There is a 16 percent increase in fatal fires in 2018 compared to the average of the past five years. While it is unknown what is responsible for this increase in fire deaths and fatal fires, one possibility is there is better reporting by fire departments when this situation happens.

From 2013 to 2018, the number of "undetermined" cause of incidents decreased as researchers were better able to attribute a most probable cause. One cause of fatal fires that drastically increased from 2013 to 2018 was heating, from no fires to 19 fires.

#### Most Probable Cause of Fatal Fires from 2013-2018



\*Other = Arson, Weather, Explosions, Suicide, Outdoor Burning, Playing with a Heat Source, and Unattended Candle

# **Detailed Fatality Information**

Data contained in this report or on this site is collected, compiled, and reported for research and educational purposes only. The contents of any report or data herein is not intended to be used as a definitive conclusion related to a fire's origin and cause or a decedent's manner of death. Therefore, data contained in this report or on this site does not replace nor supersede investigative reports for origin and cause or manner of death.

#### January

Incident Date	County	Occupancy	Age	Gender	Race
1/3/18	Anderson	Single-Family Dwelling	62	Male	White
1/4/18	Williamsburg	Mobile Home	51	Male	White
1/5/18	Lee	Single-Family Dwelling	84	Female	Black
1/6/18	Richland	Multi-Family Dwelling	70	Male	White
1/7/18	Berkeley	Mobile Home	69	Male	Black
			79	Female	Black
1/8/18	McCormick	Mobile Home	1	Male	White
			3	Female	White
			4	Male	White
			25	Male	White
1/9/18	Lancaster	Open Area	79	Male	White
1/10/18	Clarendon	Mobile Home	65	Male	Black
1/12/18	Greenwood	Single-Family Dwelling	48	Male	White
1/14/18	Dillon	Single-Family Dwelling	74	Male	White
			79	Female	White
1/16/18	Williamsburg	Single-Family Dwelling	86	Male	Black
1/24/18	Marion	Single-Family Dwelling	53	Male	Black
			67	Male	Black
1/25/18	Greenville	Open Area	56	Male	White
1/26/18	Florence	Single-Family Dwelling	52	Female	Black
			62	Male	Black
1/29/18	Orangeburg	Single-Family Dwelling	62	Male	Black

### **February**

Incident Date	County	Occupancy	Age	Gender	Race
2/2/18	Colleton	Single-Family Dwelling	70	Male	White
2/7/18	Laurens	Single-Family Dwelling	59	Female	Black
2/9/18	Florence	Mobile Home	38	Male	Black
2/20/18	Anderson	Mobile Home	45	Female	White
2/22/18	Anderson	Mobile Home	65	Female	White

#### March

Incident Date	County	Occupancy	Age	Gender	Race
3/4/18	Florence	Single-Family Dwelling	50	Male	Black
3/7/18	Florence	Multi-Family Dwelling	36	Female	White
3/12/18	Colleton	Single-Family Dwelling	86	Female	Black
3/13/18	Dillon	Single-Family Dwelling	78	Female	Black
3/16/18	Richland	Vehicle	16	Male	Black
3/24/18	Aiken	Single-Family Dwelling	26	Male	White
3/25/18	Chester	Small Storage	61	Male	White
3/31/18	Allendale	Single-Family Dwelling	5	Male	Black
	Kershaw	Single-Family Dwelling	72	Female	White

# **April**

Incident Date	County	Occupancy	Age	Gender	Race
4/9/18	Anderson	Mobile Home	36	Female	White
	Spartanburg	Single-Family Dwelling	25	Female	White
4/14/18	Greenville	Single-Family Dwelling	87	Female	White
4/16/18	Richland	Single-Family Dwelling	86	Male	White
4/22/18	Dorchester	Vehicle	20	Female	White

# May

Incident Date	County	Occupancy	Age	Gender	Race
5/2/18	Dillon	Single-Family Dwelling	69	Male	White
5/5/18	Charleston	Single-Family Dwelling	75	Male	Black
5/7/18	Orangeburg	Vehicle	2	Female	White
			4	Male	White
			24	Female	White
5/10/18	Greenwood	Single-Family Dwelling	76	Female	White
5/12/18	Colleton	Single-Family Dwelling	65	Male	White

## June

Incident Date	County	Occupancy	Age	Gender	Race
6/4/18	Florence	Mobile Home	74	Male	White

# July

Incident Date	County	Occupancy	Age	Gender	Race
7/28/18	Sumter	Multi-Family Dwelling	27	Male	Hispanic

# August

Incident Date	County	Occupancy	Age	Gender	Race
8/8/18	Aiken	Single-Family Dwelling	101	Female	Black
	Berkeley	Single-Family Dwelling	72	Female	White
			80	Male	White
8/10/18	Pickens	Single-Family Dwelling	66	Male	White
8/14/18	Georgetown	Single-Family Dwelling	60	Male	White
8/28/18	Spartanburg	Mobile Home	30	Male	Black
8/31/18	Anderson	Single-Family Dwelling	58	Male	Black

# September

Incident Date	County	Occupancy	Age	Gender	Race
9/8/18	Marion	Multi-Family Dwelling	29	Female	Black
9/24/18	Aiken	Vehicle	43	Male	White
9/29/18	York	Single-Family Dwelling	35	Female	Black
				Male	Black
9/30/18	Laurens	Mobile Home	57	Female	White

### October

Incident Date	County	Occupancy	Age	Gender	Race
10/2/18	Sumter	Vehicle	44	Female	White
10/20/18	Horry	Single-Family Dwelling	88	Male	White
10/26/18	Sumter	Single-Family Dwelling	70	Male	Black
10/27/18	Dillon	Single-Family Dwelling	18	Male	Black

### **November**

County	Occupancy	Age	Gender	Race
Lancaster	Mobile Home	51	Male	White
Lancaster	Vehicle	20	Male	Black
Edgefield	Mobile Home	58	Male	White
Beaufort	Open Area	71	Male	White
Orangeburg	Single-Family Dwelling	61	Male	Black
Greenville	Single-Family Dwelling	52	Female	Black
Pickens	Small storage	61	Male	White
Fairfield	Single-Family Dwelling	70	Male	Black
Abbeville	Single-Family Dwelling	58	Female	Black
Orangeburg	Vehicle	24	Male	Black
Georgetown	Multi-Family Dwelling	68	Male	White
Horry	Mobile Home	78	Male	Black
Aiken	Mobile Home	67	Male	White
		69	Male	White
		80	Female	White
Orangeburg	Single-Family Dwelling	4	Female	White
	Lancaster Lancaster Edgefield Beaufort Orangeburg Greenville Pickens Fairfield Abbeville Orangeburg Georgetown Horry Aiken	Lancaster Vehicle  Edgefield Mobile Home  Beaufort Open Area  Orangeburg Single-Family Dwelling  Greenville Single-Family Dwelling  Pickens Small storage  Fairfield Single-Family Dwelling  Abbeville Single-Family Dwelling  Orangeburg Vehicle  Georgetown Multi-Family Dwelling  Horry Mobile Home  Aiken Mobile Home	Lancaster         Mobile Home         51           Lancaster         Vehicle         20           Edgefield         Mobile Home         58           Beaufort         Open Area         71           Orangeburg         Single-Family Dwelling         61           Greenville         Single-Family Dwelling         52           Pickens         Small storage         61           Fairfield         Single-Family Dwelling         70           Abbeville         Single-Family Dwelling         58           Orangeburg         Vehicle         24           Georgetown         Multi-Family Dwelling         68           Horry         Mobile Home         78           Aiken         Mobile Home         67           69         80	Lancaster         Mobile Home         51         Male           Lancaster         Vehicle         20         Male           Edgefield         Mobile Home         58         Male           Beaufort         Open Area         71         Male           Orangeburg         Single-Family Dwelling         61         Male           Greenville         Single-Family Dwelling         52         Female           Pickens         Small storage         61         Male           Fairfield         Single-Family Dwelling         70         Male           Abbeville         Single-Family Dwelling         58         Female           Orangeburg         Vehicle         24         Male           Georgetown         Multi-Family Dwelling         68         Male           Horry         Mobile Home         78         Male           Aiken         Mobile Home         67         Male           69         Male           80         Female

### December

Incident Date	County	Occupancy	Age	Gender	Race
12/1/18	Greenville	Mobile Home	9	Male	Black
			51	Male	Black
12/2/18	Lexington	Mobile Home	52	Male	White
12/8/18	Orangeburg	Single-Family Dwelling	72	Male	White
12/11/18	Florence	Mobile Home	72	Female	White
12/18/18	Horry	Mobile Home	69	Female	Black
	Lancaster	Single-Family Dwelling	85	Male	Black
12/20/18	Richland	Multi-Family Dwelling	44	Female	Black
12/24/18	Cherokee	Single-Family Dwelling	85	Male	White
	Marion	Multi-Family Dwelling	44	Female	Black
			55	Female	Black
			70	Male	Black
12/25/18	Horry	Multi-Family Dwelling	69	Male	Black
	Sumter	Single-Family Dwelling	33	Male	White
12/28/18	Dorchester	Single-Family Dwelling	73	Female	White