

FIRE DEATHS IN MARYLAND



**January - December
2021**

OFFICE OF THE MARYLAND STATE FIRE MARSHAL
FIRE DEATHS IN MARYLAND
January - December 2021

The fire deaths reported in Maryland during 2021 show a significant increase in comparison to the previous year. The 63 deaths in 52 fires in 2021 represent an 23.5 percent death increase over the 51 deaths in 49 fires reported in 2020, and a 3.1 percent decrease over the 65 deaths in 58 fires in 2019.

ALLEGANY COUNTY - During January through December 2021, Allegany County reported three fire deaths compared to no fire deaths reported in 2020, and one fire death reported in 2019 for the same period.

- An undetermined fire that started in the victim's bedroom claimed the life of a 71 year old female subsequent to the daughter's unsuccessful attempts to extinguish the fire before the daughter was forced out alone by deteriorating fire conditions. The victim's body was found during excavation detail by firefighters, with no smoke alarms found at the scene.
- A 25 year old male perished in an undetermined residential fire that started on the front balcony area of the home, with the smoke alarm status reported as undetermined.
- An undetermined apartment fire resulted in the death of a 54 year old female. Investigators believe the victim discovered the fire and attempted to evacuate the apartment before succumbing to smoke inhalation. Investigators found non-working smoke alarms at the scene.

ANNE ARUNDEL COUNTY - Anne Arundel County reported in the twelve months of 2021, two fire deaths in one fire, a slight decrease compared to the three fire deaths reported in 2020, and a notable decrease compared to the five fire deaths reported in 2019.

- A 74 year old female and a 79 year old male were extricated by firefighters from a fire in their home, and both victims were declared deceased at the scene. Investigators revealed that one of the victim's had initially contacted 911 advising their home was filled with smoke and they could not escape, prior to their demise. The fire reportedly started in the kitchen as the result of combustibles too close to ignition source, with the smoke alarm status cited as undetermined.

BALTIMORE CITY - The twelve deaths in nine fatal fires reported by Baltimore City for 2021 represent a 20 percent increase in comparison to the ten fire deaths reported in 2020, and a notable decrease compared to the 16 fire deaths reported in 2019 during the same period.

- An undetermined double-fatal fire resulted in the death of a 48 year old male and 66 year old male. Investigations reported the fire started on the first floor of the vacant dwelling where the victims were squatting, with the presence of smoke alarms not found at the scene.
- An undetermined fire that originated in the living space of a residential structure claimed the life of a 62 year old male, with no smoke alarms found at the fire site by investigators.
- An undetermined vacant row home fire resulted in the demise of a 34 year old male who was squatting in the home. Investigators reported that the deceased victim was found by rescuers on the third floor of the structure, with no smoke alarms present at the scene.
- A 63 year old male perished in a residential fire caused by an electrical failure on the first floor of the structure, with the smoke alarm status reported as undetermined. The victim reportedly ambulated with a cane.
- An electrical failure event in the finished basement of a residential dwelling resulted in the death of a 53 year old male, with reports of no smoke alarms found at the scene by investigators.

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BALTIMORE CITY (CONTINUED)

- A 66 year old male succumbed to his injuries at a Medical Center after being rescued by firefighters from a fire originating in the electrical room of a business. Reports indicate that the victim was apparently secretly squatting in the space during the time of the fire, and the cause remains undetermined at this time.
- An undetermined single-family dwelling fire claimed the life of a 45 year old male who was found deceased inside the structure by rescuers, with the presence of smoke alarms not found at the scene.
- A 59 year old male sustained thermal burns and later succumbed to those injuries at a local Burn Center. The investigation revealed that the victim's bed caught on fire subsequent to the placement of a butane heater too close to bed combustibles, with the smoke alarm status reported as undetermined.
- An undetermined triple-fatal fire in a residential dwelling claimed the lives of three victims, a 25 year old female, 12 year old child and 7 year old child. The fire reportedly started in the front room/bedroom area of the home. An adult resident discovered the fire and attempted to alert all the occupants to evacuate. The resident and five children successfully evacuated and were transferred to a local Medical Center where they were treated and released. Investigators reported that working smoke alarms were found at the scene.

BALTIMORE COUNTY - Baltimore County reported eight deaths in eight fires during the twelve months of 2021, a slight increase compared to the seven fire deaths reported during that time in 2020, and a decrease compared to the 14 fire deaths in 2019.

- A 76 year old male succumbed to his fire related injuries subsequent to being rescued by firefighters from his burning home. The investigation revealed the rear outside deck was the point of fire origin, with smoke alarm status and fire cause reported as undetermined.
- An undetermined fire starting in the bedroom area of a residential dwelling claimed the life of a 63 year old female, with reports of no smoke alarms found on the scene by investigators.
- A mobile home fire resulted in the demise of a 58 year old male who was found deceased by rescuers in the living room recliner. Investigators determined the fire was caused by careless smoking while on home oxygen, with the smoke alarm status reported as present and operating.
- A 53 year old female was found deceased by rescuers in her home, and the cause was determined to be suicide by fire, with reports of working smoke alarms found at the location.
- A 51 year old male succumbed to his thermal injuries sustained following a commercial outside natural gas explosion.
- A senior living apartment fire caused by careless smoking, claimed the life of a 65 year old female who was found in the lobby elevator subsequent to vacating the apartment fire that started in the living space of the residence. Working smoke alarms were found in the apartment by investigators.
- A 67 year old male succumbed to his injuries at a local Burn Center subsequent to sustaining thermal burns while occupying the perimeter space of an outdoor trash pit and coming in contact with flammable liquid vapors while possibly smoking.
- An apartment fire claimed the life of a 7 year old child who was found by rescuers in the bedroom area of the residence, and subsequently transported to a local Medical Center where he succumbed to his injuries. Investigators reported the location of fire origin as the cluttered balcony, with the cause cited as careless smoking, and the smoke alarm status was reported as undetermined.

CALVERT COUNTY - There were no fire deaths reported in Calvert County during 2021, one fire death reported in 2020, and one fire death reported during 2019.

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CAROLINE COUNTY - Caroline County reported in 2021, one fire death compared to two fire deaths in 2020, and no fire death in 2019.

- An electrical failure event in the living room area was the cause of a mobile home fire that resulted in the demise of a 62 year old male, with no smoke alarms found at the scene by investigators.

CARROLL COUNTY - During the twelve months in 2021, Carroll County reported one fire death, compared to no fire deaths in 2020, and two fire deaths in 2019.

- A 58 year old male perished in a vehicle crash and subsequent fire, with the cause of death determination reported as smoke inhalation and thermal injuries by the Office of the State Medical Examiner.

CECIL COUNTY - Between the time span of January and December 2021, Cecil County reported no fire deaths, compared to one fire death in 2020, and one fire deaths in 2019.

CHARLES COUNTY - There were two fire deaths reported in Charles County during 2021, compared to no fire deaths in 2020, and two fire deaths in 2019 for the same time duration.

- Police responded to a well-being check request at a residence and forced entry inside the home where they discovered a 71 year old deceased victim and evidence of a self-extinguished fire. Fire Investigators were called and determined the fire cause to be the result of careless smoking, with working smoke alarms found at the home.

- A vehicle crash and subsequent fire resulted in the death of a 29 year old male who was found deceased inside the charred vehicle post fire extinguishment, with the cause of death cited by the medical examiner as smoke and thermal injuries.

DORCHESTER COUNTY - January through December 2021, Dorchester County reported three fire deaths, and no fire deaths in 2020 and 2019 for the same time frame.

-An undetermined triple-fatal apartment fire claimed the lives of a 41 year old male, 18 year old female and 8 year old female. The fire cause remains undetermined, with the smoke alarm status reported as present and operating.

FREDERICK COUNTY - During the calendar year 2021, Frederick County reported two fire deaths, compared to no fire deaths in 2020, and three fire deaths in 2019 for the same period.

- A vehicle crash and subsequent fire claimed the life of a 21 year old male who became entrapped in the passenger compartment of the vehicle. The driver was able to escape and sustained non-life threatening injuries.

- A Firefighter heroically lost his life while fighting a dwelling fire in Ijamsville. Reports revealed the Captain was the first engine arriving on the scene, entered the home and fell through the floor into the basement during firefighting operations. Captain Laird immediately issued a "Mayday", and a rescue operation was requested. The Captain was subsequently extricated by rescuers and transported to a Medical Center where he succumbed to his injuries. The cause of the fire was deemed probable lightning strike. Captain Laird was a 21 year veteran of the Frederick County Fire and Rescue.

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GARRETT COUNTY - Garrett County reported two fire deaths in reporting year 2021, no fire deaths in 2020, and two fire deaths in 2019 during the same annual period.

- A 77 year old male perished in an undetermined mobile home fire, with the smoke alarm status reported as present/function undetermined. The victim was an avid smoker, had several health issues and was on home oxygen. The combination most likely contributed to the victim's demise.
- A 60 year old male was found deceased in a parking lot mid-center next to a junk yard. Investigators determined the cause to be suicide/self-immolation.

HARFORD COUNTY - Between the reporting months, January through December 2021, Harford County reported one fire death, in comparison to the two fire deaths reported in 2020, and the six fire deaths reported in 2019 for the same reporting period.

- A 91 year old female perished in an undetermined apartment fire, with operating smoke alarms found at the scene of the incident. Reports indicate the victim suffered from numerous health issues and had difficulty ambulating which contributed to her demise.

HOWARD COUNTY - In the time period of January through December 2021, Howard County reported one fire death, compared to no fire deaths reported in 2020 and no fire deaths reported in 2019

- Suicide/Self-Immolation was the determined cause of a vehicle fire that resulted in the death of a 51 year old male. Witnesses reported they heard an explosion and then saw smoke and fire coming from the vehicle. Firefighters found the victim deceased inside the vehicle subsequent to extinguishing the fire.

KENT COUNTY - There were no fire deaths reported in Kent County during the twelve months of 2021, no fire deaths reported in 2020, and one fire death in 2019 for the same annual reporting periods.

MONTGOMERY COUNTY - Five fire deaths were reported in Montgomery County for the twelve months of 2021, compared to twelve fire deaths reported in 2020, and one fire death reported in 2019 for the same reporting period.

- A 72 year old female was rescued by firefighters from her burning home and was transported to a local Medical Center where she succumbed to her injuries. The cause was determined to be an electrical failure event in the living space of the residence, with hoarding conditions found at the scene. The smoke alarm status was reported as not present.
- An undetermined dwelling fire resulted in the demise of a 75 year old male victim who succumbed to his injuries subsequent to being transported to a Medical Center. The fire originated in the basement area of the home, with the smoke alarm status reported as present and operating.
- A 72 year old female perished in an undetermined residential fire, with reports of no smoke alarms found at the scene by investigators. The fire originated in the void space between the basement and the first floor.
- A reported wind-driven fire in a residential dwelling claimed the life of an 87 year old male who was extricated from the blaze by firefighters. A second occupant escaped the fire unhurt. Investigators reported the cause as an electrical failure event in the area of the living room, with reports of working smoke alarms found on the scene.
- An electrical failure event in the living space of a residential dwelling was ruled the cause of a fire that claimed the life of a 66 year old male who was found deceased inside the burning structure by firefighters. Investigators reported the smoke alarm status as present/function undetermined.

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PRINCE GEORGE'S COUNTY - Nine (9) fires claimed the lives of 11 people in Prince George's County during the twelve months of 2021, which revealed a slight decrease compared to 2020 where there were 12 deaths in 11 fires, and an increase for the same time period in 2019 with four deaths in four fires reported.

- An undetermined two-family dwelling fire claimed the life of a 42 year old female and sent several other occupants to a local Medical Center for treatment of non-life threatening injuries. Investigators reported the fire originated in the basement, with working smoke alarms found at the fire location.
- A 72 year old male was found deceased in the basement of a dwelling fire by firefighter search crews. Investigators reported the presence of working smoke alarms at the scene.
- A multiple-vehicle crash and subsequent fire claimed the life of a 42 year old male victim. The victim was inside his car, disabled on the roadway shoulder, when another vehicle slammed into his vehicle causing the car to catch fire thereby trapping the victim inside the burning car.
- A single-vehicle crash and subsequent fire resulted in the entrapment and death of a 23 year old male. The driver was reported by witnesses as driving erratically before the crash/fire.
- A 72 year old male was found deceased in the bedroom area of a residential structure fire by firefighters subsequent to the extinguishment of the blaze. Investigators revealed that fire originated in the bedroom area of the home, with reports of non-working smoke alarms found on-scene.
- A 19 year old male was pronounced deceased at the scene of a vehicle crash and subsequent fire. The victim's vehicle reportedly left the roadway and struck a utility pole, catching the vehicle on fire thereby entrapping the victim.
- A triple-fatal fire claimed the lives of three female children, ages 1, 6 and 9 years old. Investigators determined the fire to be cooking related, with the smoke alarm status reported as present/non-operational.
- An undetermined fire in a two-story residential structure, claimed the life of a 67 year old male who was pronounced deceased on the scene by rescuers. The fire reportedly originated in the kitchen area of the home, with no smoke alarms found present on the scene by investigators.
- A 68 year old male was found deceased by firefighters in the living room area of his single-family home subsequent to fire extinguishment operations. Investigators reported the basement as the point of fire origin, with no smoke alarms found on the scene.

QUEEN ANNE'S COUNTY - During the twelve months of 2021, Queen Anne's County reported no fire deaths, compared to no fire deaths in 2020, and no fire deaths in 2019 during the same period.

ST. MARY'S COUNTY - St. Mary's County reported one fire death in 2021, one fire death in 2020, and no fire deaths in 2019 for the same reporting period.

- A 27 year old male victim succumbed to his burn injuries after being transported at a Burn Center for treatment subsequent to accidentally catching himself on fire after coming too close to a fire active burn pit.

SOMERSET COUNTY - No fire deaths were revealed by Somerset County in the reporting period January through December 2021, compared to one fire death in 2020, and no fire deaths revealed in 2019 for the same time frame.

TALBOT COUNTY - Talbot County reported no fire deaths during the reporting period January through December 2021, one fire death in 2020, and one fire death in 2019 for the same time period.

WASHINGTON COUNTY - Reporting periods January through December 2021, revealed five fire deaths in Washington County, an increase compared to the three fire deaths reported in 2020, and an increase compared to the one fire death reported in 2019 for the same period.

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WASHINGTON COUNTY (CONTINUED)

- A garage fire claimed the life of a 57 year old male who was found deceased behind a truck in the garage by rescuers following extinguishment of the blaze. Investigators reported the victim was working on his car when the blaze broke out, and the cause of the fire remains undetermined.
- A residential dwelling fire claimed the life of a 55 year old male who was found deceased by rescuers in the hallway of the home, and the reported point of fire origin was the living room. The fire cause was determined to be smoking related, with non-working smoke alarms found on the scene by investigators.
- An undetermined triple-fatal residential fire claimed the lives of a 36 year old male, and two adolescent children. A juvenile female was able to escape the blaze and was treated for non-life threatening injuries. Non-working smoke alarms were found at the scene by investigators.

WICOMICO COUNTY - During the twelve months of 2021, Wicomico County reported two fire deaths, and no fire deaths in 2020, and one fire death was reported in 2019 for the same period.

- A single-family dwelling that was converted into seven individual apartments was the scene of an undetermined double-fatal fire that claimed the lives of an 83 year old female and a 60 year old male. The victims were occupying separate apartment units at the time of the blaze. Investigators reported the presence of smoke alarms with the function status cited as undetermined.

WORCESTER COUNTY - The entire 2021 year revealed one fire death in Worcester County, along with no fire deaths reported in 2020, and two fire deaths in 2019 during the same time duration.

- An undetermined residential fire claimed the life of a 47 year old female, with the smoke alarm status reported as present with function undetermined. Rescuers found the deceased victim on the floor five feet from the front door.

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THE YEAR IN REVIEW/OVERVIEW - The twelve months of 2021 proved to be a noteworthy period in relation to fire deaths when compared to the previous year for the same time period. Fifty-two (52) fires resulted in 63 fire deaths compared to previous years as follows: 2020 - 51 fire deaths; 2019 - 65 fire deaths, 2018 - 71 fire deaths, 2017 - 71 fire deaths, 2016 - 68 fire deaths, 2015 - 64 fire deaths, and 2014 - 64 fire deaths reported. A summary recap by county of the fire deaths in 2021 can be found below. **The comparison of fire death statistics by county utilizing population census data can be found on page 21 and 22 of this report.**

Baltimore City reported the most fire deaths of the 24 reporting jurisdictions in Maryland for this annual review period, incurring 12 deaths in 9 fires. In 2020, Baltimore City ranked second in reporting the most deaths of any county at ten deaths in ten fires, which was lower in comparison to 2019, reported at 16 deaths in 15 fires. One undetermined double-fatal fire residential fire and one triple fatal residential fire was reported in 2021, claiming the lives of three adults and two children total. One fatal residential fire within the county reported physical limitations presented by the victim. In 2021, conditions of hoarding was reported by rescuers at one of the fires. Working smoke alarms were confirmed at the scene in only two of the fatal fires.

Prince George's County ranked second, reporting 11 deaths in nine fires for January through June 2021. Prince George's County reported 11 fires resulting in 12 deaths for the previous year of 2020, placing first overall for the State at that time. In 2021, investigators confirmed the existence of operating smoke alarms in only one fire out of the nine total fires reported. One of the nine fires resulted in a multiple-fatal fire (triple-fatal), none of the fires involved reported conditions of hoarding, and one fire death victim presented with some type of physical limitation during the incident.

Baltimore County placed third, reporting eight deaths in eight fires for 2021, and during 2020, Baltimore County reported seven deaths in six fires for the entire year, coming in fourth at that time for the most reported fire deaths in that year. Three of the county's unrelated fires reported the presence of working smoke alarms, two of the fire scenes involved hoarding conditions, and two of the fires reported physical limitations of the victims.

Montgomery County came in fifth after Baltimore County in 2021, reporting five deaths in five fires. In comparison to the previous reporting year, Montgomery County reported seven deaths in seven fires during 2020. None of the five fires reported in 2021 involved multiple-fatal fires, with hoarding conditions found at two of the total five reported fires. Only two of the county's fatal fires reported working smoke alarms.

Calvert County, Cecil County, Kent County, Queen Anne's County, Somerset County and Talbot County reported ZERO fires deaths in 2021, totaling six counties reporting no fire deaths. In 2020, for the same period, 11 counties reported no fire deaths, which is a decrease for 2021 when comparing the two reporting years.

The remaining counties reported fire deaths as follows: **Allegany County** - three deaths/three fires; **Anne Arundel County** - two deaths/one fire; **Caroline County** - one death/one fire; **Carroll County** - one death/one fire; **Charles County** - two deaths/two fires; **Dorchester County** - three deaths/one fire; **Frederick County** - two deaths/two fires; **Garrett County** - two deaths/two fires; **Harford County** - one death/one fire; **Howard County** - one death/one fire; **St. Mary's County** - one death/one fire; **Washington County** - five deaths/three fires; **Wicomico County** - two deaths/one fire; and **Worcester County** - one death/one fire.

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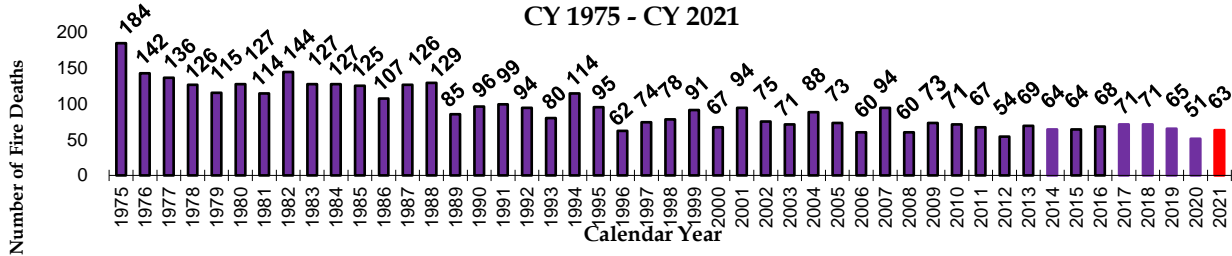
THE YEAR IN REVIEW/OVERVIEW (CONTINUED)

During the twelve month period of 2021, County jurisdictions reported a total of 14 deaths (22%) in 13 fires (25%) which involved victims who were physically disabled or physically limited. A summary of the physical disabilities and/or physical limitations were reported by fire investigators as follows: Ambulation Challenges - seven victims ; Chronic Health Issues - two victims; Cognitive Issues/Decline - three victims; and Home Oxygen Use - two victims.

Following is a summary of the fire deaths reported to the Maryland State Fire Marshal during the twelve months of 2021. Also included are summary tables of fire deaths for reporting years 2017 through 2021. The number of fire deaths in Maryland, by county, for the five-year period 2017 through 2021 are listed on page 21.

FIRE DEATHS IN MARYLAND

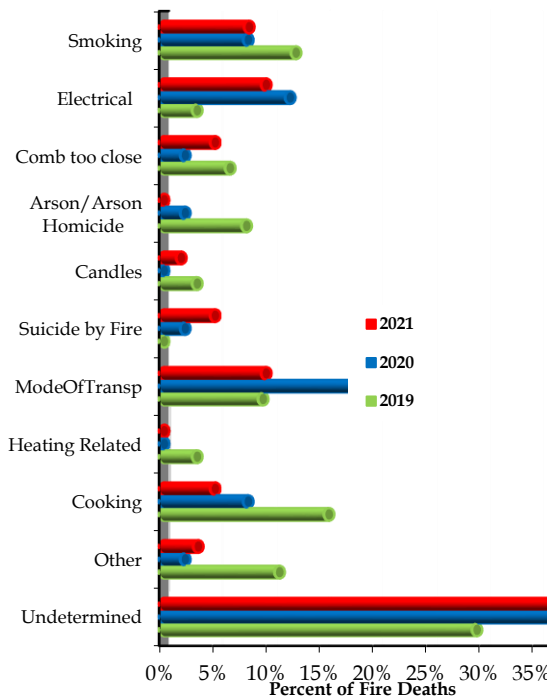
The fire deaths reported in Maryland during 2021 show a significant increase in comparison to the previous year. The 63 deaths in 52 fires in 2021 represent a 23.5 percent death increase over the 51 deaths in 49 fires reported in 2020, and a 3.1 percent decrease over the 65 deaths in 58 fires in 2019.



In recent years, the number of fire fatalities reported to the State Fire Marshal's Office have continued to fluctuate to a small degree averaging almost 64 fire deaths per year from 2017 through 2021. Fire deaths in the State have remained below 100 each year for over the past 27 years (1995 to 2021), as illustrated in the above graph. During that time, there has been an approximate average of 74 fire deaths a year. Previously, from 1975 to 1994, fire fatalities in Maryland averaged 120 deaths a year.

Mode of Transportation fires (Vehicle Crash - five, Self-Immolation - one) tied for first with **Electrical Failure cause**, claiming more lives than fires resulting from other known causes in 2021. Six victims, ranging in age from 19 years to 58 years, died in six vehicle-related fires. Those deaths accounted for 9.5 percent of the fire deaths in 2021, 19.6 percent of the fire deaths in 2020, compared to 9.2 percent of all fire deaths in 2019.

CAUSES OF FATAL FIRES



Fires attributed to **Electrical Failure** claimed six victims in six fires during reporting year 2021, ranging in age from 53 years to 87 years. Those deaths accounted for 9.5 percent of the fire deaths, compared to 11.8 percent of the fire deaths in 2020, and 3.1 percent of all fire deaths in 2019.

Smoking-Related deaths placed second in the cause of fatal fires category, reported at five deaths in five fires for the year 2021. Victims ranged in age from 7 to 71 years old. Those deaths accounted for 7.9 percent of the total deaths in 2021, compared to 7.8 percent in 2020, and 12.3 percent in 2019.

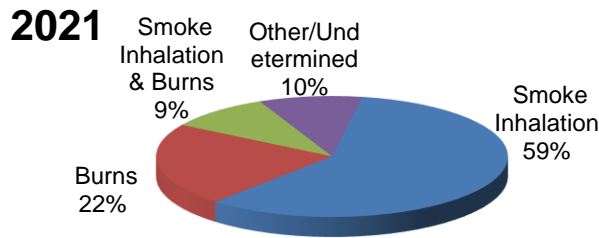
In 2021, **Combustibles Too Close to Ignition Source** fires, rated third, led to three deaths in two fires, with victims ranging in age from 59 years to 79 years. In comparison, those deaths accounted for 4.8 percent of the total deaths in 2021, 2 percent in 2020, and 6.2 percent in 2019.

The causes of 26 fires in which 34 lives were lost remain **Undetermined**.

The remaining fire causes were reported as follows: **Suicide** - three deaths/three fires; **Cooking Related** - three deaths/one fire; **Explosion** - one death/one fire; **Flammable Liquid Vapors** - one fire/one death; and **Open Flame** - one death/one fire.

FIRE DEATHS IN MARYLAND

CAUSE OF DEATH OF FIRE VICTIMS

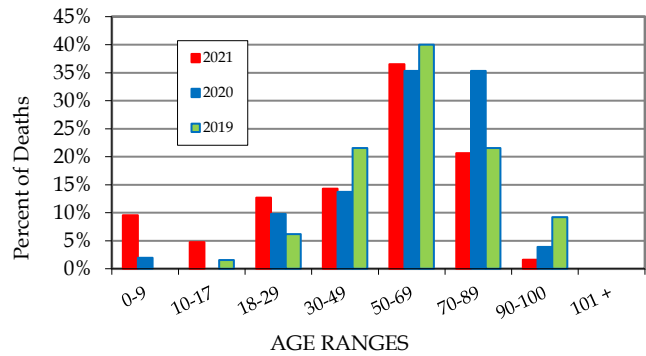


Smoke inhalation combined with thermal injuries was the cause of death reported most frequently for victims of fatal fires in 2021, claiming 37 lives.

Fourteen (14) victims of fatal fires died as the result of smoke inhalation, and six other fire victims succumbed as the result of burn injuries. Six victims perished from other fire-related causes of death related to, but not solely/mainly caused by smoke inhalation and/or thermal injuries.

AGE OF FIRE DEATH VICTIMS

Nine children died in five fires during 2021. Fire victims younger than 18 years accounted for almost 14 percent of all fire deaths for the year, an increase in comparison to the one victim who accounted for 2.0 percent of all fire deaths for 2020, and the one victim in 2019 who accounted for 1,5 percent of the fire deaths that year.



Four of the five unrelated fires resulted in multiple-deaths, not only claiming the lives of eight children total, but also claiming the total lives of four adults. Three of the multiple-death fires involving children reported working smoke alarms found at the scene, and two multiple-death fires reported the smoke alarm status as present/not operating. The one non-multiple death fire involving a child reported the presence of no smoke alarms on the scene.

There were 17 victims in the 18 to 49 years age range in 2021, a notable increase when compared to the 12 victims in that age range in 2020, and one less than the 18 victims in that age range reported in 2019. Victims in that age range accounted for nearly 27 percent of the total deaths in 2021, compared to the over 24 percent in 2020, and over 27 percent of the deaths in 2019.

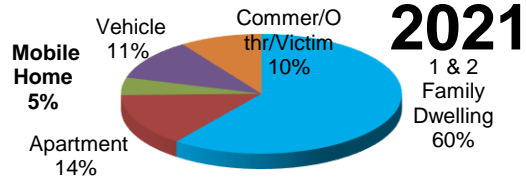
The number of fire death victims in the 50 to 69 years age range slightly increased in 2021, compared to 2020, and equaled the total deaths in 2019. Twenty-three (23) victims in that age range accounted for nearly 37 percent of the fire deaths in 2021, while 18 victims in that age range accounted for 35 percent of the deaths in 2020, and 23 victims in that age range accounted for 40 percent of the deaths in 2019.

The 14 fire death victims 70 and older reported in 2021, represent a decreased value compared to the number of deaths of 20 such victims in 2020, and also a decrease compared to the 20 deaths reported in 2019. Those victims 70 years and older accounted for just over 22 percent of the fire deaths in 2021, compared to over 39 percent of the fire deaths during 2020, and over 30 percent of the fire deaths in 2019. Additionally, in 2021, there were no fire deaths reported in persons over the age of 91.

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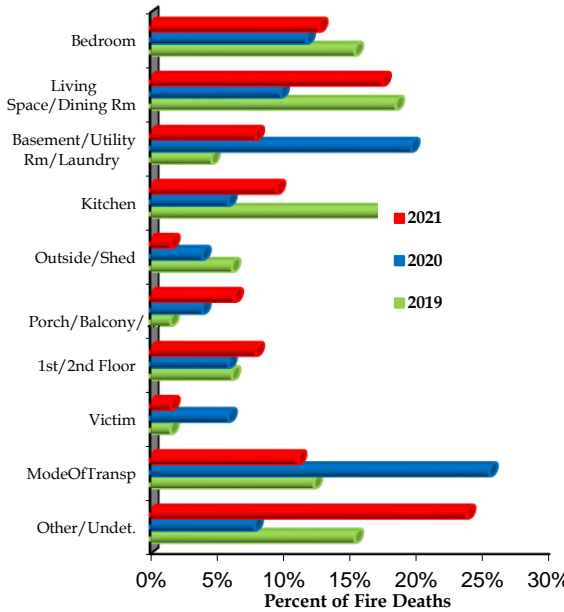
LOCATION OF FATAL FIRES

In 2021, as in other years, most fire deaths occurred in residential structures, including 38 deaths in *One-and-two Family Dwellings*, nine victims of *Apartment* fires, and three victims of *Mobile Home* fires. Residential fires accounted for almost 79 percent of the fire deaths in 2021, compared to 65 percent of the fire deaths in 2020 and 80 percent in 2019.



Seven Mode-of-Transportation-related fires resulted in seven deaths, with six of the fires caused by vehicle-related crashes. Victim contained fires/burn injuries claimed the lives of four individuals in four fires. A garage fire claimed the life of one victim after becoming pinned by combustible materials while working on his car. An Undetermined fire in an electrical room claimed the life of a victim who was squatting on the fourth floor of the business

AREA OF FIRE ORIGIN



Living Space fires claimed the lives of 11 victims in 11 fires. Four of the total 11 fires were caused by *Careless Smoking*, four of the fires were deemed *Electrical Failure*-related, and three fires remain *Undetermined*.

Six fires claimed the lives of eight victims in 2021 where the fire origin was reported as the *Bedroom* area of the home, compared to six deaths in six fires in 2020. One of the total six fires involved multiple-deaths claiming the lives of three victims, with the cause remaining *Undetermined* for the multi-fatal and six other unrelated fires. *Combustibles Too Close* to Hearing Source was deemed the cause of one fire.

Seven Mode-of-Transportation/Vehicle fires claimed the lives of seven victims in 2021. Six of the vehicle fires were the direct result of vehicle crashes, claiming six lives in six fires, and one fire/one death was deemed *Suicide/Self Immolation* inside a vehicle. In 2020, 13 victims in 12 vehicle fires lost their lives.

Fires originating in the *Kitchen* placed fourth in known causes for 2021, each claiming six victims in three fires. The causes of the *Kitchen* fires were reported as follows: *Cooking-Related* - one fire/three deaths (triple-fatal); *Combustibles Too Close* - one fire/two deaths (double-fatal) and *Undetermined* - one fire/one death. In comparison, three fires originating in the *Kitchen* claimed three lives during 2020.

SMOKE ALARM PERFORMANCE

Ten fatal residential structure fires occurred where the smoke alarms were known to function properly, but the fires still claimed the lives of 14 individuals (22 percent of total dwelling deaths in 2021).

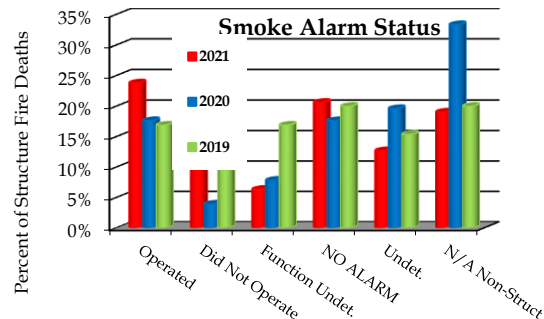
There were no smoke alarms present in 12 fatal residential structure fires that killed 13 Maryland residents (almost 21 percent of total dwelling deaths) in 2021.

Residential dwelling fires that reported the presence of non-functioning smoke alarms accounted for 17 percent of the total dwelling deaths (11 deaths in seven fires).

Another four people died (6 percent) in three structure fires where the smoke alarms were present, but the operational status was undetermined.

Seven fires resulted in eight deaths (13 percent) where the presence of smoke alarms was unknown.

The remaining fires in the *Area of Origin* category can be summarized as follows: *Undetermined* - six fires/ten deaths; *Basement* - five fires/five deaths; *Porch/Balcony/Deck* - four fires/four deaths; *First-Second Floor* - three fires/five deaths; *Other* - 2 fires/2 deaths; *Outside/Yard/Shed* - three fires/three deaths; *Victim* - one fire/one death; and *Garage* one fire/one death..



Office of the Maryland State Fire Marshal

TIME OF FATAL FIRES

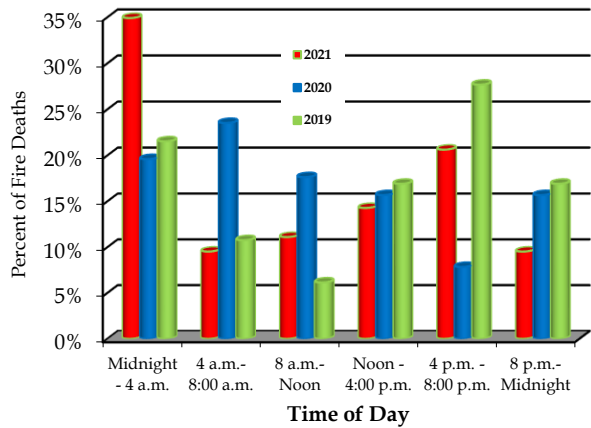
FIRE DEATHS IN MARYLAND

Consistent with most previous years, more fire deaths occurred in the early morning hours than at other time of the day, with the hours between 12 midnight- 6 a.m., proving to be the most deadly eight-hour period in 2021. The 17 fatal fires that started during those eight hours resulted in 26 deaths accounting for over 41 percent of the 63 total fire deaths for the year. Six multiple-death fires occurred during those hours in 2021.

The hours between 6 a.m. and 12 noon, rated at 14 percent of the total 63 deaths or nine deaths in nine fires, ranking fourth. No multiple-fatal fires were reported during that time period..

The hours between 12 noon and 6 p.m. ranked second overall reporting 15 deaths (24 percent) in 15 fires

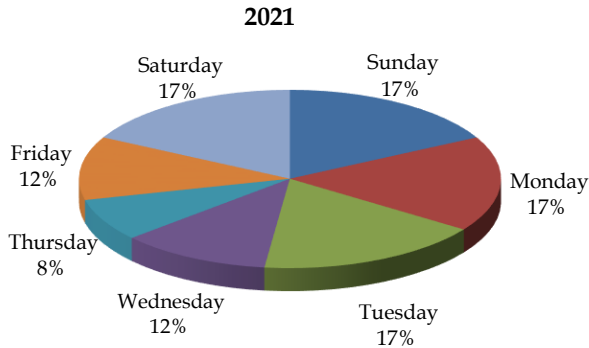
The hours between 6 p.m. and 12 midnight for (21 percent) of fire deaths) ranked third overall with 13 deaths in 11 fires.



In previous years, fatal fires have been more likely to occur over the weekend which was NOT the case for 2021. A total of 37 deaths (59 percent) in 28 fires (54 percent) occurred on Monday-Thursday in the reporting year 2021. Additionally, all three unrelated triple-fatal fires in 2021 occurred during the weekday.

Significantly less than a half of the fatal fires occurred during the weekend, which resulted in approximately 41 percent of the 63 fire deaths for the year. Twenty-six (26) people died from 24 fires (46 percent) that started on those days.

DAY OF WEEK OF FATAL FIRES

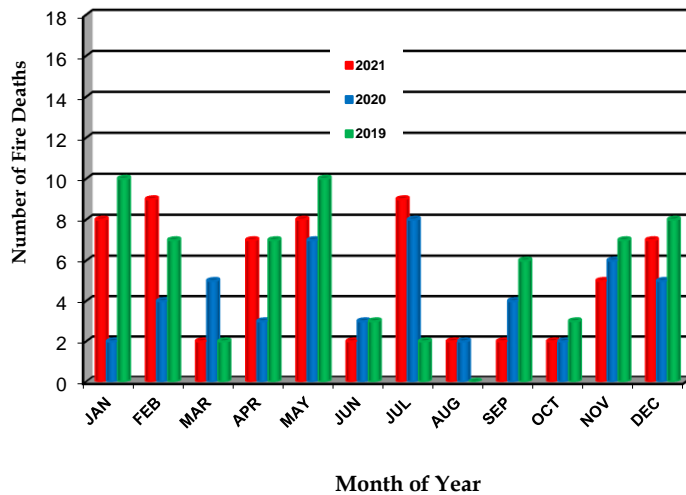


MONTH OF YEAR

The fall and winter months have often been the deadliest months for fatal fires, and this proved true for 2021. Approximately 52 percent of the fire deaths resulted from fires that occurred in January through March and October through December, when 26 fires claimed 33 lives.

April through September recorded 30 deaths in 26 fires which is equal to approximately 48 percent of the total deaths for the year.

As illustrated in the adjacent graph, February and May were the deadliest months, with nine deaths in seven fires reported in February and eight deaths in eight fires reported in May.

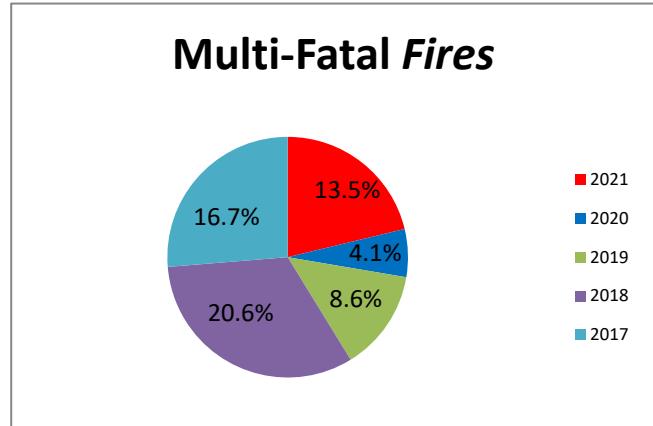


FIRE DEATHS IN MARYLAND

MULTIPLE-FATAL FIRES

A multiple-fatal fire is an incident whereby a fire claims the life of more than one individual. In comparison to previous years, 2021 showed an increase in the total number of multi-fatal fires which was seven fires or 13.5 percent of the 52 total fires for the year. During 2020, the percentage of multi-fatal fires was at 4.1 percent of the 49 total fires for that year, and at 8.6 percent of the 58 total fires for the year 2019.

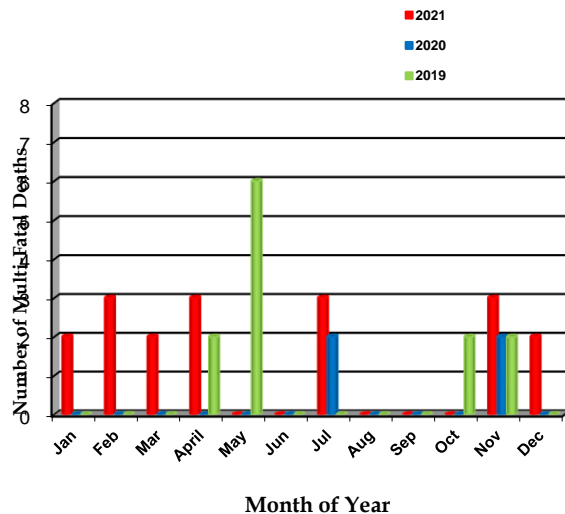
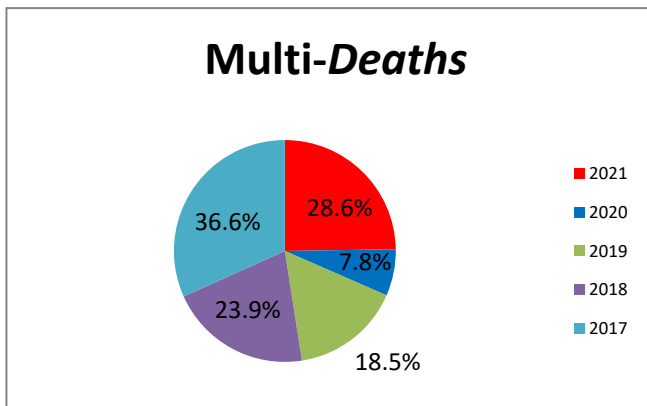
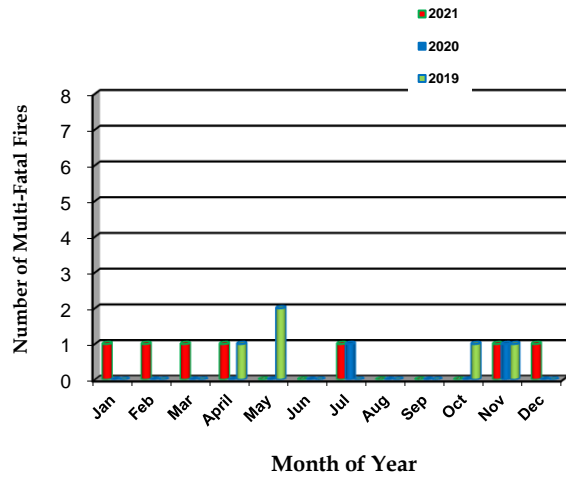
The months of January, March, and December 2022 each reported one unrelated double-fatal dwelling fire; and months of February, April, July and November each report one unrelated triple-fatal dwelling fire. There were no multi-fatal fires reported in the months of May, June, August, September, or October.



MULTIPLE DEATHS IN FATAL FIRES

In 2021, the number of multi-deaths in fatal fires increased in comparison to the prior year to 18 deaths in seven multi-fatal fires or 28.6 percent of the 63 total deaths reported for the year. Multi-deaths in fatal fires in 2020 was recorded at four deaths or 7.8 percent of the 51 total deaths, and 2019 was recorded at 12 deaths or 18.5 percent of the 65 total deaths.

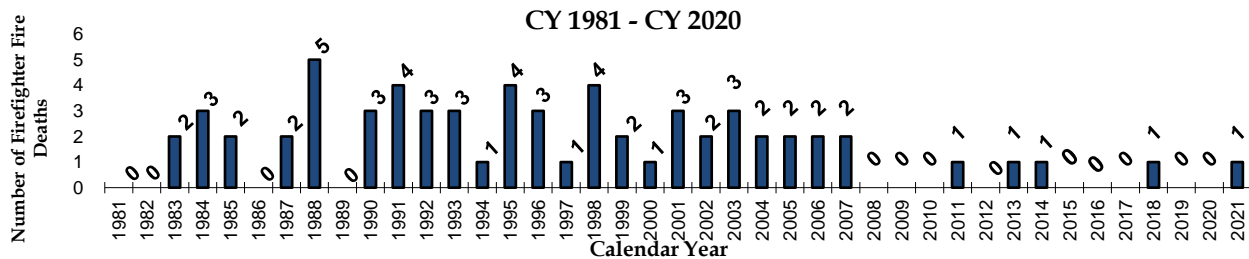
Multi-fatal fires claimed the lives of victims in 2021 as follows: January, two victims/one fire; February, three victims/ one fire; March, two victims/one fire; April, three victims/one fire; July, three victims/one fire; November, three victims/one fire; and December, two victims/one fire.



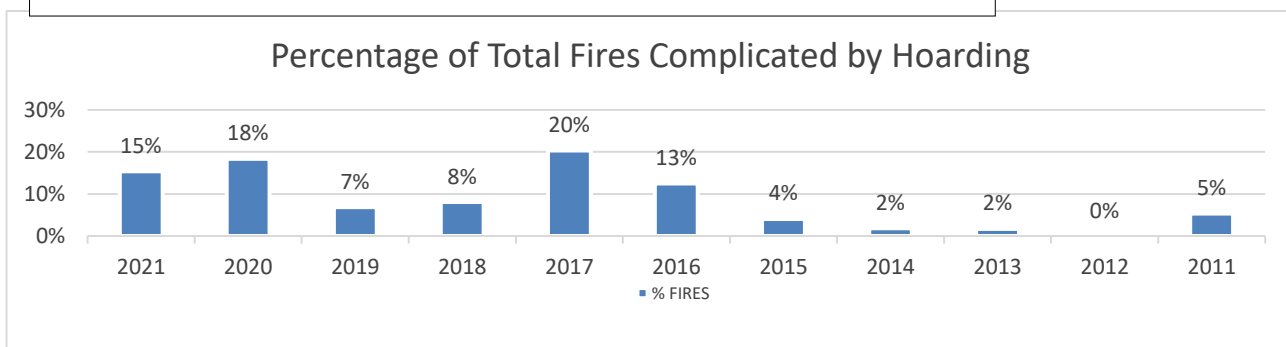
FIRE DEATHS IN MARYLAND

FIREFIGHTER FIRE DEATHS

The total number of Maryland firefighters who lost their lives in the line of duty due to [fire](#) was reported at one death in 2021, no deaths in 2020 and 2019, one death during 2018, zero deaths in 2017, 2016 and 2015, and one death reported in 2014 and 2013. On 08/11/2021 Captain Joshua D. Laird succumbed to his injuries sustained while heroically fighting a house fire in Frederick County. Captain Laird was a 21 veteran of Frederick County Fire and Rescue Services.



FIRE FATALITY INCIDENTS WITH REPORTED CONDITIONS OF HOARDING



Hoarding conditions present hazards which can result in catastrophic fire related events that jeopardize the safety of all concerned including, but not limited to, occupant(s) **and** emergency responders. The Office of the State Fire Marshal, under the direction of Fire Marshal Brian Geraci, continues to educate the public regarding the dangers of hoarding. Eight deaths resulted from 11 fires with reported hoarding conditions which is calculated at 15 percent of the total 52 fires reported for the entire year, representing a decrease in comparison to the previous year as illustrated in the above chart. The following is a report summarization of fire-related deaths that were complicated by conditions of hoarding in the reporting year of 2021.

Anne Arundel County - A 74 year old female and a 79 year old male perished in an undetermined residential fire that started in the kitchen area as a result of combustibles too close to ignition source, with the smoke alarm status reported as undetermined.

Baltimore City - An undetermined triple-fatal residential fire, originating in the front room/bedroom area, claimed the life of a 25 year old female and two children, with the presence of operating smoke alarms found at the scene.

Baltimore County - An undetermined residential fire that started in a second floor bedroom claimed the life of a 63 year old female, with no working smoke alarms found on location. A 53 year old female perished in a residential fire that was intentionally set in an act of suicide by the victim, with working smoke alarms found on the scene.

Garrett County - An undetermined mobile home fire claimed the life of a 77 year old male who was on home oxygen, with the smoke alarm status reported as present and non-operating.

Harford County - A 91 year old physically disabled female perished in an undetermined apartment fire, with working smoke alarms found present at the scene.

Montgomery County - A 72 year old female succumbed to her injuries subsequent to being extricated by firefighters from a blaze in her home, with reports of no smoke alarms found by investigators. The cause of the fire was determined to be the result of an electrical failure event. An undetermined fire originating in the basement of the home claimed the life of an 75 year old male, with operating smoke alarms found on the scene by investigators..

Office of the Maryland State Fire Marshal
FIRE DEATHS IN MARYLAND
 CY 2021

COUNTY	FIRE CAUSE													FIRE DEATHS		FATAL FIRES	
	Smoking	Electrical	Heating related	Unattended Candle/ Incense	Cooking	Arson/Homicide Arson	Suicide	Open Flame	Flamm. Liq/Vapor/Explosion	Combust. too close	Mode of Transp	Child Play	UnInvest /Undet/ Other	Total Deaths	Percent of Total	Total Fires	Percent of Total
Allegany	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4.8%	3	5.8%
Anne Arundel	0	0	0	0	0	0	0	0	0	2	0	0	0	2	3.2%	1	1.9%
Baltimore City	0	2	0	0	0	0	0	0	0	1	0	0	9	12	19.0%	9	17.3%
Baltimore County	3	0	0	0	0	0	1	0	2	0	0	0	2	8	12.7%	8	15.4%
Calvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Caroline	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1.6%	1	1.9%
Carroll	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1.6%	1	1.9%
Cecil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Charles	1	0	0	0	0	0	0	0	0	0	1	0	0	2	3.2%	2	3.8%
Dorchester	0	0	0	0	0	0	0	0	0	0	0	0	3	3	4.8%	1	1.9%
Frederick	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3.2%	2	3.8%
Garrett	0	0	0	0	0	0	1	0	0	0	0	0	1	2	3.2%	2	3.8%
Harford	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.6%	1	1.9%
Howard	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1.6%	1	1.9%
Kent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Montgomery	0	3	0	0	0	0	0	0	0	0	0	0	2	5	7.9%	5	9.6%
Prince George's	0	0	0	0	3	0	1	0	0	0	3	0	4	11	17.5%	9	17.3%
Queen Anne's	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
St. Mary's	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1.6%	1	1.9%
Somerset	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Talbot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Washington	1	0	0	0	0	0	0	0	0	0	0	0	4	5	7.9%	3	5.8%
Wicomico	0	0	0	0	0	0	0	0	0	0	0	0	2	2	3.2%	1	1.9%
Worcester	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.6%	1	1.9%
TOTAL FIRE DEATHS	5	6	0	0	3	0	4	1	2	3	6	0	33	63	100%	52	100%
Column % of Fire Deaths	8%	10%	0%	0%	5%	0%	6%	2%	3%	5%	10%	0%	52%		100%		
TOTAL FATAL FIRES	5	6	0	0	1	0	3	1	2	2	6	0	26		52		
Column % of Fatal Fires	10%	12%	0%	0%	2%	0%	6%	2%	4%	4%	12%	0%	50%		100%		

*Fire Cause Categories include probable and possible determinations

Office of the Maryland State Fire Marshal
FIRE DEATHS IN MARYLAND
 CY 2021

COUNTY	FIRE CAUSE													FATAL FIRES		FIRE DEATHS	
	Smoking	Electrical	Heating related	Unattended Candle/Incense	Cooking	Arson/Homicide	Suicide	Open Flame	Flamm. Liq/Vapor/Explosion	Combust too close	Mode Transp	Child Play	UnInvest/Undet/Other	Total Fires	Percent of Total	Total Deaths	Percent of Total
Allegany	0	0	0	0	0	0	0	0	0	0	0	0	3	3	5.8%	3	4.8%
Anne Arundel	0	0	0	0	0	0	0	0	0	1	0	0	0	1	1.9%	2	3.2%
Baltimore City	0	2	0	0	0	0	0	0	0	1	0	0	6	9	17.3%	12	19.0%
Baltimore County	3	0	0	0	0	0	1	0	2	0	0	0	2	8	15.4%	8	12.7%
Calvert	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Caroline	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1.9%	1	1.6%
Carroll	0	0	0	0	0	0	0	0	0	0	1	0	0	1	1.9%	1	1.6%
Cecil	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Charles	1	0	0	0	0	0	0	0	0	0	1	0	0	2	3.8%	2	3.2%
Dorchester	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.9%	3	4.8%
Frederick	0	0	0	0	0	0	0	0	0	0	1	0	1	2	3.8%	2	3.2%
Garrett	0	0	0	0	0	0	1	0	0	0	0	0	1	2	3.8%	2	3.2%
Harford	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.9%	1	1.6%
Howard	0	0	0	0	0	0	1	0	0	0	0	0	0	1	1.9%	1	1.6%
Kent	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Montgomery	0	3	0	0	0	0	0	0	0	0	0	0	2	5	9.6%	5	7.9%
Prince George's	0	0	0	0	1	0	0	0	0	0	3	0	5	9	17.3%	11	17.5%
Queen Anne's	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
St. Mary's	0	0	0	0	0	0	0	1	0	0	0	0	0	1	1.9%	1	1.6%
Somerset	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Talbot	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0%	0	0.0%
Washington	1	0	0	0	0	0	0	0	0	0	0	0	2	3	5.8%	5	7.9%
Wicomico	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.9%	2	3.2%
Worcester	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1.9%	1	1.6%
TOTAL FATAL FIRES	5	6	0	0	1	0	3	1	2	2	6	0	26	52	100%	63	100%
Column % of Total	10%	12%	0%	0%	2%	0%	6%	2%	4%	4%	12%	0%	50%		100%		

*Fire Cause Categories include probable and possible determinations

Office of the Maryland State Fire Marshal

FIRE DEATHS IN MARYLAND

FIRE CAUSE	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
Smoking Related/Probable	13	18.3%	7	9.9%	8	12.3%	4	7.8%	5	7.9%
Electrical Failure	14	19.7%	12	16.9%	2	3.1%	6	11.8%	6	9.5%
Combustibles too Close	2	2.8%	5	7.0%	4	6.2%	1	2.0%	3	4.8%
Mode of Transportation	3	4.2%	5	7.0%	6	9.2%	10	19.6%	6	9.5%
Cooking Related	8	11.3%	3	4.2%	10	15.4%	4	7.8%	3	4.8%
Heating Related	0	0.0%	0	0.0%	2	3.1%	0	0.0%	0	0.0%
Arson/Arson Homicide	7	9.9%	0	0.0%	5	7.7%	1	2.0%	0	0.0%
Open Flame	1	1.4%	0	0.0%	0	0.0%	0	0.0%	1	1.6%
Flammable Liquid/Vapors	1	1.4%	2	2.8%	3	4.6%	1	2.0%	1	1.6%
Candles/Incense	2	2.8%	2	2.8%	2	3.1%	0	0.0%	0	0.0%
Suicide Arson	Category Sub-Divided		Category Sub-Divided		Category Sub-Divided		Category Sub-Divided		Category Sub-Divided	
Suicide/Incendiary	0	0.0%	1	1.4%	0	0.0%	1	2.0%	1	1.6%
Suicide/Self-Immoliz.	1	1.4%	3	4.2%	0	0.0%	0	0.0%	2	3.2%
Suicide/Homicide/Arson	1	1.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Child Playing	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Other/Explosion	0	0.0%	4	5.6%	4	6.2%	0	0.0%	1	1.6%
Under Invest/Undetermined	18	25.4%	27	38.0%	19	29.2%	23	45.1%	34	54.0%
TOTAL DEATHS	71	100.0%	71	100.0%	65	100.0%	51	100.0%	63	100.0%
*Heating Includes:										
Kerosene/Propane Heater	3		0		0		0		0	
Space/Bsbrd Heater	0		0		0		0		0	
Furnace	1		0		0		0		0	
Gas Fireplace	1		0		0		0		0	
Faulty Chimney/Flue	0		0		0		0		0	
DEATH CAUSE	CY 2017		CY 2018		CY 2018		CY 2020		CY 2021	
Smoke Inhalation & Burns	28	39.4%	35	49.3%	32	49.2%	23	45.1%	37	58.7%
Smoke Inhalation	34	47.9%	18	25.4%	17	26.2%	12	23.5%	14	22.2%
Thermal Burns	3	4.2%	6	8.5%	6	9.2%	4	7.8%	6	9.5%
Other	6	8.5%	12	16.9%	10	15.4%	12	23.5%	6	9.5%
SEX OF VICTIM	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
Male	40	56.3%	44	62.0%	36	55.4%	30	58.8%	43	68.3%
Female	31	43.7%	27	38.0%	29	44.6%	21	41.2%	20	31.7%
AGE OF VICTIM	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
0 -9	9	12.7%	5	7.0%	0	0.0%	1	2.0%	6	9.5%
10 - 17	3	4.2%	0	0.0%	1	1.5%	0	0.0%	3	4.8%
18 - 29	5	7.0%	2	2.8%	4	6.2%	5	9.8%	8	12.7%
30 - 49	10	14.1%	15	21.1%	14	21.5%	7	13.7%	9	14.3%
50 - 69	25	35.2%	23	32.4%	26	40.0%	18	35.3%	23	36.5%
70 - 89	15	21.1%	22	31.0%	14	21.5%	18	35.3%	13	20.6%
90 - 100	3	4.2%	4	5.6%	6	9.2%	2	3.9%	1	1.6%
>100	1	1.4%	0	0.0%	0	0.0%	0	0.0%	0	0.0%

*Fire Cause Categories include probable and possible determinations

Office of the Maryland State Fire Marshal

FIRE DEATHS IN MARYLAND

RACE	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
African American	37	52.1%	35	49.3%	22	33.8%	24	47.1%	21	33.3%
American Indian or Alaskan Native	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Asian	1	1.4%	1	1.4%	0	0.0%	1	2.0%	1	1.6%
Native Hawaiian or Pacific Islander	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Caucasian	33	46.5%	35	49.3%	43	66.2%	26	51.0%	41	65.1%
Other	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Not Reported/Unk	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
TOTAL DEATHS	71	100.0%	71	100.0%	65	100.0%	51	100.0%	63	100.0%

STRUCTURE YEAR	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
0 - 5 YEARS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	1	1.6%
6 - 10 YEARS	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
11 - 15 YEARS	0	0.0%	0	0.0%	0	0.0%	1	2.0%	1	1.6%
16 -20 YEARS	0	0.0%	0	0.0%	2	3.1%	1	2.0%	1	1.6%
21 - 25 YEARS	0	0.0%	1	1.4%	3	4.6%	1	2.0%	0	0.0%
26 - 30 YEARS	1	1.4%	2	2.8%	1	1.5%	0	0.0%	1	1.6%
31 - 35 YEARS	1	1.4%	3	4.2%	2	3.1%	2	3.9%	2	3.2%
36 - 40 YEARS	5	7.0%	3	4.2%	1	1.5%	3	5.9%	1	1.6%
41 -45 YEARS	1	1.4%	1	1.4%	5	7.7%	3	5.9%	2	3.2%
46 - 50 YEARS	2	2.8%	9	12.7%	1	1.5%	2	3.9%	3	4.8%
> 50 YEARS	43	60.6%	30	42.3%	26	40.0%	20	39.2%	40	63.5%
Non-Structure	6	8.5%	12	16.9%	12	18.5%	18	35.3%	10	15.9%
Not Reported/Unk	12	16.9%	10	14.1%	12	18.5%	0	0.0%	1	1.6%
TOTAL DEATHS	71	100.0%	71	100.0%	65	100.0%	51	100.0%	63	100.0%

Office of the Maryland State Fire Marshal

FIRE DEATHS IN MARYLAND

LOCATION OF FIRE	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
Home	52	73.2%	44	62.0%	38	58.5%	26	51.0%	38	60.3%
Apartment	6	8.5%	7	9.9%	6	9.2%	5	9.8%	9	14.3%
Mobile Home/Trailer	2	2.8%	0	0.0%	4	6.2%	2	3.9%	3	4.8%
Outside/Tent/Shed	2	2.8%	0	0.0%	1	1.5%	1	2.0%	1	1.6%
Vehicle/Road	5	7.0%	6	8.5%	8	12.3%	13	25.5%	7	11.1%
Hotel/Nursing Home/Hosp.	4	5.6%	7	9.9%	4	6.2%	0	0.0%	0	0.0%
Commercial/Other/Victim	0	0.0%	7	9.9%	4	6.2%	4	7.8%	5	7.9%
TOTAL DEATHS	71	100.0%	71	100.0%	65	100.0%	51	100.0%	63	100.0%

AREA OF FIRE ORIGIN	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
Bedroom	3	4.2%	20	28.2%	10	15.4%	6	11.8%	8	12.7%
Living Space	7	9.9%	8	11.3%	12	18.5%	5	9.8%	11	17.5%
Kitchen	9	12.7%	5	7.0%	12	18.5%	3	5.9%	6	9.5%
Outside/Yard	5	7.0%	1	1.4%	3	4.6%	2	3.9%	3	4.8%
Vehicle/Boat/Plane	4	5.6%	6	8.5%	8	12.3%	13	25.5%	7	11.1%
Basement/Utility Room	6	8.5%	6	8.5%	3	4.6%	10	19.6%	5	7.9%
1st Floor/2nd Floor/Use Undet	24	33.8%	1	1.4%	4	6.2%	3	5.9%	5	7.9%
Porch/Balcony/Deck/AttdGarage	3	4.2%	4	5.6%	1	1.5%	2	3.9%	4	6.3%
Shed/Out-Building/Out Garage	0	0.0%	0	0.0%	1	1.5%	0	0.0%	1	1.6%
Victim	4	5.6%	6	8.5%	1	1.5%	3	5.9%	1	1.6%
Dining Room	0	0.0%	5	7.0%	0	0.0%	0	0.0%	0	0.0%
Laundry Room	0	0.0%	0	0.0%	0	0.0%	0	0.0%	0	0.0%
Bathroom	1	1.4%	1	1.4%	0	0.0%	0	0.0%	0	0.0%
Hallway/Entrance/Foyer/Stairwa	0	0.0%	2	2.8%	0	0.0%	0	0.0%	0	0.0%
Other/Under Inv/Undet.	5	7.0%	6	8.5%	10	15.4%	4	7.8%	12	19.0%

SMOKE ALARM STATUS	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
Present/Operated	15	21.1%	20	28.2%	11	16.9%	9	17.6%	15	23.8%
Present/Did Not Operate	13	18.3%	10	14.1%	7	10.8%	2	3.9%	11	17.5%
Present/Function Undetermined	8	11.3%	8	11.3%	11	16.9%	4	7.8%	4	6.3%
NO ALARM PRESENT	10	14.1%	8	11.3%	13	20.0%	9	17.6%	13	20.6%
Fire too Small/Non-Structure	7	9.9%	12	16.9%	13	20.0%	17	33.3%	12	19.0%
Undetermined	18	25.4%	13	18.3%	10	15.4%	10	19.6%	8	12.7%

Office of the Maryland State Fire Marshal

FIRE DEATHS IN MARYLAND

TIME OF ALARM	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
0001 - 0159	14	19.7%	10	14.1%	6	9.2%	6	11.8%	12	19.0%
0200 - 0359	14	19.7%	10	14.1%	8	12.3%	3	5.9%	10	15.9%
0400 - 0559	10	14.1%	7	9.9%	4	6.2%	7	13.7%	4	6.3%
0600 - 0759	2	2.8%	3	4.2%	3	4.6%	5	9.8%	2	3.2%
0800 - 0959	5	7.0%	4	5.6%	2	3.1%	2	3.9%	1	1.6%
1000 - 1159	1	1.4%	1	1.4%	2	3.1%	7	13.7%	6	9.5%
1200 - 1359	3	4.2%	2	2.8%	7	10.8%	5	9.8%	6	9.5%
1400 - 1559	7	9.9%	3	4.2%	4	6.2%	3	5.9%	3	4.8%
1600 - 1759	3	4.2%	0	0.0%	8	12.3%	2	3.9%	6	9.5%
1800 - 1959	3	4.2%	8	11.3%	10	15.4%	2	3.9%	7	11.1%
2000 - 2159	1	1.4%	7	9.9%	4	6.2%	2	3.9%	4	6.3%
2200 - 2400	8	11.3%	16	22.5%	7	10.8%	7	13.7%	2	3.2%
TOTAL DEATHS	71	100.0%	71	100.0%	65	100.0%	51	100.0%	63	100.0%

DAY OF WEEK	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
Sunday	13	18.3%	9	12.7%	13	20.0%	4	7.8%	9	14.3%
Monday	7	9.9%	8	11.3%	12	18.5%	8	15.7%	13	20.6%
Tuesday	10	14.1%	9	12.7%	6	9.2%	4	7.8%	9	14.3%
Wednesday	9	12.7%	12	16.9%	11	16.9%	7	13.7%	8	12.7%
Thursday	14	19.7%	15	21.1%	14	21.5%	10	19.6%	7	11.1%
Friday	12	16.9%	7	9.9%	3	4.6%	10	19.6%	6	9.5%
Saturday	6	8.5%	11	15.5%	6	9.2%	8	15.7%	11	17.5%

BY MONTH	CY 2017		CY 2018		CY 2019		CY 2020		CY 2021	
	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total	Number of Deaths	Percent of Total
January	11	15.5%	5	7.0%	10	15.4%	2	3.9%	8	12.7%
February	4	5.6%	3	4.2%	7	10.8%	4	7.8%	9	14.3%
March	13	18.3%	14	19.7%	2	3.1%	5	9.8%	2	3.2%
April	5	7.0%	8	11.3%	7	10.8%	3	5.9%	7	11.1%
May	1	1.4%	5	7.0%	10	15.4%	7	13.7%	8	12.7%
June	4	5.6%	4	5.6%	3	4.6%	3	5.9%	2	3.2%
July	0	0.0%	3	4.2%	2	3.1%	8	15.7%	9	14.3%
August	7	9.9%	4	5.6%	0	0.0%	2	3.9%	2	3.2%
September	3	4.2%	6	8.5%	6	9.2%	4	7.8%	2	3.2%
October	5	7.0%	2	2.8%	3	4.6%	2	3.9%	2	3.2%
November	11	15.5%	10	14.1%	7	10.8%	6	11.8%	5	7.9%
December	7	9.9%	7	9.9%	8	12.3%	5	9.8%	7	11.1%

Office of the State Fire Marshal

FIRE DEATHS IN MARYLAND

COUNTY	CY 2017	CY 2018	CY 2019	CY 2020	CY 2021	5-Year Average	Percent of State Total	5 YR FIRE DEATH RATE*	% of Total Deaths 2021*
Allegany	0	1	1	0	3	1.0	1.6%	1.5	4.8%
Anne Arundel	3	6	5	3	2	3.8	5.9%	0.6	3.2%
Baltimore City	30	13	16	10	12	16.2	25.2%	2.8	19.0%
Baltimore County	12	12	14	7	8	10.6	16.5%	1.2	12.7%
Calvert	0	1	2	1	0	0.8	1.2%	0.9	0.0%
Caroline	0	1	0	2	1	0.8	1.2%	2.4	1.6%
Carroll	2	3	2	0	1	1.6	2.5%	0.9	1.6%
Cecil	0	1	1	1	0	0.6	0.9%	0.6	0.0%
Charles	4	3	2	0	2	2.2	3.4%	1.3	3.2%
Dorchester	0	0	0	0	3	0.6	0.9%	1.8	4.8%
Frederick	0	1	3	0	2	1.2	1.9%	0.4	3.2%
Garrett	0	0	2	0	2	0.8	1.2%	2.8	3.2%
Harford	0	0	6	2	1	1.8	2.8%	0.7	1.6%
Howard	1	3	0	0	1	1.0	1.6%	0.3	1.6%
Kent	0	0	1	0	0	0.2	0.3%	1.0	0.0%
Montgomery	4	3	1	7	5	4.0	6.2%	0.4	7.9%
Prince George's	8	14	4	12	11	9.8	15.3%	1.0	17.5%
Queen Anne's	2	0	0	0	0	0.4	0.6%	0.8	0.0%
St. Mary's	1	3	0	1	1	1.2	1.9%	1.0	1.6%
Somerset	1	1	0	1	0	0.6	0.9%	2.4	0.0%
Talbot	0	2	1	1	0	0.8	1.2%	2.1	0.0%
Washington	3	3	1	3	5	3.0	4.7%	1.9	7.9%
Wicomico	0	0	1	0	2	0.6	0.9%	0.6	3.2%
Worcester	0	0	2	0	1	0.6	0.9%	1.1	1.6%
TOTAL FIRE DEATHS	71	71	65	51	63	64.2	100.0%	1.0	100.0%

FIRE DEATH RATE** 1.15 1.15 1.05 0.83 1.02 1.04

*DEATH RATE: Number of civilian fire deaths per 100,000 population

**Rates are based on the 2021 estimated census estimates

Office of the State Fire Marshal

FIRE DEATHS IN MARYLAND

COUNTY	FATAL FIRES CY 2021	DEATHS CY 2021	FATAL FIRE RATE* 100,000	% of Total Fatal Fires 2021	DEATH RATE* 100,000	DEATH RATE* 1,000,000	% of Total Deaths 2021
Allegany	3	3	4.4	5.8%	4.4	44.3	4.8%
Anne Arundel	1	2	0.2	1.9%	0.3	3.4	3.2%
Baltimore City	9	12	1.5	17.3%	2.0	20.5	19.0%
Baltimore County	8	8	0.9	15.4%	0.9	9.4	12.7%
Calvert	0	0	0.0	0.0%	0.0	0.0	0.0%
Caroline	1	1	3.0	1.9%	3.0	30.0	1.6%
Carroll	1	1	0.6	1.9%	0.6	5.8	1.6%
Cecil	0	0	0.0	0.0%	0.0	0.0	0.0%
Charles	2	2	1.2	3.8%	1.2	11.9	3.2%
Dorchester	1	3	3.1	1.9%	9.2	92.3	4.8%
Frederick	2	2	0.7	3.8%	0.7	7.1	3.2%
Garrett	2	2	7.0	3.8%	7.0	69.7	3.2%
Harford	1	1	0.4	1.9%	0.4	3.8	1.6%
Howard	1	1	0.3	1.9%	0.3	3.0	1.6%
Kent	0	0	0.0	0.0%	0.0	0.0	0.0%
Montgomery	5	5	0.5	9.6%	0.5	4.7	7.9%
Prince George's	9	11	0.9	17.3%	1.2	11.5	17.5%
Queen Anne's	0	0	0.0	0.0%	0.0	0.0	0.0%
St. Mary's	1	1	0.9	1.9%	0.9	8.7	1.6%
Somerset	0	0	0.0	0.0%	0.0	0.0	0.0%
Talbot	0	0	0.0	0.0%	0.0	0.0	0.0%
Washington	3	5	1.9	5.8%	3.2	32.3	7.9%
Wicomico	1	2	1.0	1.9%	1.9	19.2	3.2%
Worcester	1	1	1.9	1.9%	1.9	18.8	1.6%
TOTAL FIRE DEATHS	52	63	0.84	100.0%	1.0	10.2	100.0%

FIRE DEATHS IN MARYLAND

	2021						2020						2019					
	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths
Jan	1	7	14.3%	2	8	25.0%	0	2	0.0%	0	2	0.0%	0	10	0.0%	0	10	0.0%
Feb	1	7	14.3%	3	9	33.3%	0	4	0.0%	0	4	0.0%	0	7	0.0%	0	7	0.0%
Mar	1	1	100.0%	2	2	100.0%	0	5	0.0%	0	5	0.0%	0	2	0.0%	0	2	0.0%
April	1	5	20.0%	3	7	42.9%	0	3	0.0%	0	3	0.0%	1	6	16.7%	2	7	28.6%
May	0	8	0.0%	0	8	0.0%	0	7	0.0%	0	7	0.0%	2	6	33.3%	6	10	60.0%
Jun	0	2	0.0%	0	2	0.0%	0	3	0.0%	0	3	0.0%	0	3	0.0%	0	3	0.0%
Jul	1	7	14.3%	3	9	33.3%	1	7	14.3%	2	8	25.0%	0	2	0.0%	0	2	0.0%
Aug	0	2	0.0%	0	2	0.0%	0	2	0.0%	0	2	0.0%	0	0	0.0%	0	0	0.0%
Sep	0	2	0.0%	0	2	0.0%	0	4	0.0%	0	4	0.0%	0	6	0.0%	0	6	0.0%
Oct	0	2	0.0%	0	2	0.0%	0	2	0.0%	0	2	0.0%	1	2	50.0%	2	3	66.7%
Nov	1	3	33.3%	3	5	60.0%	1	5	20.0%	2	6	33.3%	1	6	16.7%	2	7	28.6%
Dec	1	6	16.7%	2	7	28.6%	0	5	0.0%	0	5	0.0%	0	8	0.0%	0	8	0.0%
TOTAL	7	52	13.5%	18	63	28.6%	2	49	4.1%	4	51	7.8%	5	58	8.6%	12	65	18.5%

	2018						2017						2016					
	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths	Multi-Fatal Fires	Total Fires	% Multi-Fatal Fires	Multi-Fatal Dths	Total Deaths	% Multi-Fatal Deaths
Jan	1	4	25.0%	2	5	40.0%	1	6	16.7%	6	11	54.5%	1	9	11.1%	4	12	33.3%
Feb	0	3	0.0%	0	3	0.0%	0	4	0.0%	0	4	0.0%	0	5	0.0%	0	5	0.0%
Mar	5	9	55.6%	10	14	71.4%	2	9	22.2%	6	13	46.2%	0	2	0.0%	0	2	0.0%
April	1	6	16.7%	3	8	37.5%	0	5	0.0%	0	5	0.0%	0	3	0.0%	0	3	0.0%
May	0	5	0.0%	0	5	0.0%	0	1	0.0%	0	1	0.0%	0	1	0.0%	0	1	0.0%
Jun	0	4	0.0%	0	4	0.0%	0	4	0.0%	0	4	0.0%	0	1	0.0%	0	1	0.0%
Jul	0	3	0.0%	0	3	0.0%	0	0	0.0%	0	0	0.0%	0	2	0.0%	0	2	0.0%
Aug	0	4	0.0%	0	4	0.0%	2	4	50.0%	5	7	71.4%	2	3	66.7%	6	7	85.7%
Sep	0	6	0.0%	0	6	0.0%	0	3	0.0%	0	3	0.0%	0	3	0.0%	0	3	0.0%
Oct	0	2	0.0%	0	2	0.0%	1	4	25.0%	2	5	40.0%	2	7	28.6%	5	10	50.0%
Nov	1	9	11.1%	2	10	20.0%	2	9	22.2%	4	11	36.4%	0	9	0.0%	0	9	0.0%
Dec	0	7	0.0%	0	7	0.0%	1	5	20.0%	3	7	42.9%	2	11	18.2%	4	13	30.8%
TOTAL	8	62	12.9%	17	71	23.9%	9	54	16.7%	26	71	36.6%	7	56	12.5%	19	68	27.9%

NOTES