



# 2020 Fire in Washington

Prepared by the Washington State Fire Marshal's Office

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This report has been prepared by the Washington State Fire Marshal's Office (SFMO) with data provided by Washington State fire service agencies. The SFMO would like to thank all of our fire service partners for their continuous support in providing the data necessary for the generation of this report.



Washington State Patrol

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Washington State Patrol

# STATE FIRE MARSHAL'S OFFICE

*Serving Washington Since 1901*

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JAY INSLEE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL

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April 1, 2021

Dear Fire Service Partners and Advocates:

The *2020 Fire in Washington* report captures the emergency response experience of the Washington State Fire Service for the year 2020. This report was compiled by the State Fire Marshal's Office from data generated by fire agencies to the National Fire Incident Reporting System (NFIRS).

Fire agencies participating in the NFIRS program provide valuable data that is used at the local, state, and national levels. This data is critical to the identification of trends, which leads to the development of effective and targeted fire prevention programs and suppression strategies.

The NFIRS program demonstrates the leadership of the Washington Fire Chiefs, Washington Fire Commissioners, and every member of our state's fire service. Together, we are making Washington a safer place to live, work, and play.

Sincerely,

A handwritten signature in blue ink that reads "John R. Batiste".

CHIEF JOHN R. BATISTE



JAY INSLEE  
Governor



JOHN R. BATISTE  
Chief

STATE OF WASHINGTON  
WASHINGTON STATE PATROL

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April 1, 2021

Dear Fire Service Partners:

The 2020 *Fire in Washington* report illustrates the emergency response information reported by 69% of fire agencies from across the state with an emphasis on fire incidents. Information contained in this year's annual report details:

- Fires claimed the lives of 75 people.
- Fires resulted in excess of \$302 million of property and content loss.
- More than 25,500 fire incidents.
- Over 826,000 total incidents.
- More than 585,000 rescue and emergency medical service incidents.
- 237 injuries related to the use of fireworks.

The fire service provides critical fire and life safety services to the citizens of Washington State. Tracking the array of emergencies that occur in our communities is an essential part of implementing and sustaining the programs and services that are needed to safeguard life and property. The National Fire Incident Reporting System (NFIRS) enables fire agencies to record each emergency incident and document the actions taken to mitigate the situation.

Today, leaders at the local, state, and national levels need timely, accurate, and useful NFIRS information to help guide the decision-making process. The Washington State Fire Marshal's Office continues to strongly encourage monthly reporting, so that we can provide the most detailed picture of fire incidents and emerging hazards around the state. We are pleased with the progress and commitment demonstrated by so many agencies across Washington.

Sincerely,

Handwritten signature of Charles P. LeBlanc in blue ink.

State Fire Marshal Charles P. LeBlanc  
Fire Protection Bureau



## PREFACE

This report provides an overview of all incident categories reported, with fire information in 2020 as the primary focus. The statistical reports are generated from the United States Fire Administration (USFA) website based on NFIRS 5.0 data reported from the Washington State Fire Service. Where necessary, information from secondary sources is used to provide more in-depth analysis and clarity. Figures presented may vary slightly based on the day the summary report was generated. Any data submitted after the summary reports were generated is not reflected in this publication.

NFIRS data plays a critical role in identifying fire risks in Washington State communities. Combined with other data sources, this report will become an integral element in completing a statewide Community Risk Assessment (CRA). A CRA provides fire service agencies and the communities they serve with data driven analysis of new and existing fire and life safety risks in order to prioritize and allocate resources for mitigation and reduction of those risks.

Washington State faces a unique set of hazards due to our topography, population distribution, and infrastructure. While there are many well-known hazards including wildland fires, inclement weather, and traffic disruptions, there are regional hazards that have developed in recent years due to shifting demographics, political activism, residential construction methods, changing energy demands, and climate instability. A comprehensive CRA will guide the State Fire Marshal's Office, local fire agencies, and other groups to effectively direct attention, funding, and workforce efforts to the most significant hazards that exist in a region.

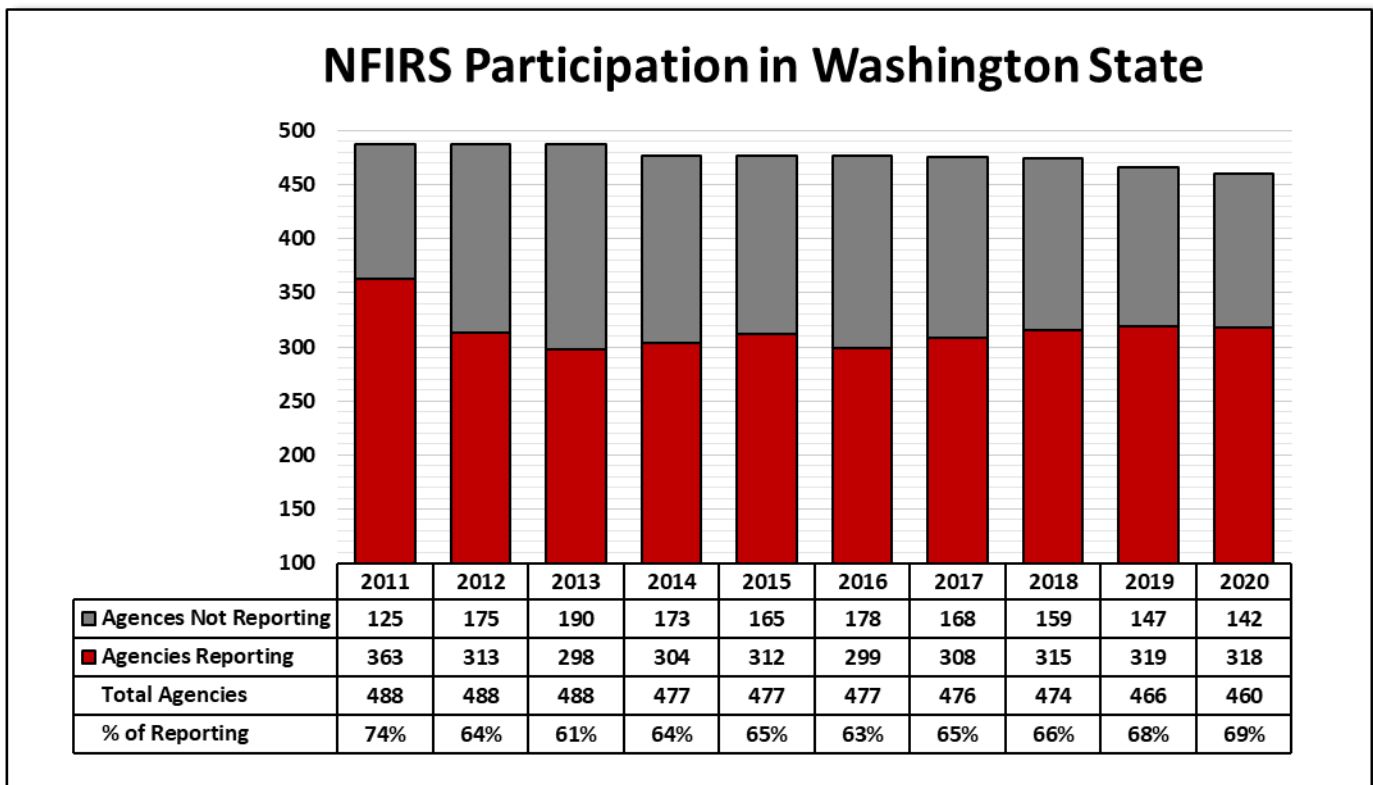
Washington State's 460 fire service agencies are staffed by career firefighters, volunteer firefighters, or a combination of career and volunteer firefighters. It is in the interest of protecting the residents and firefighters of Washington State that we present this report.

## NFIRS Participation in Washington State

The [Revised Code of Washington \(RCW\) 43.44.060](#) requires fire incidents to be reported to the Washington State Fire Marshal’s Office (SFMO) in accordance with the National Fire Incident Reporting System (NFIRS). The SFMO maintains the statewide NFIRS database, which is capable of accepting any incident documented in accordance with the NFIRS 5.0 format. This program is an all-incident reporting system that enables every fire agency to document incidents electronically in a uniform format. Many agencies document and report all incidents, while some agencies only report fires as required by statute.

The chart below provides the number of agencies that submitted data for inclusion in the *Fire in Washington* annual reports since 2011. While consolidation has reduced the actual number of fire agencies in the state, the percentage of agencies reporting has been steadily improving over the last five years.

In 2020, 318 of the state’s 460 agencies are reporting to NFIRS, representing 69% of the agencies.





# 2020 INCIDENT REPORTING SNAPSHOT

## 2020 INCIDENT COUNTS

FIRE: **25,504**

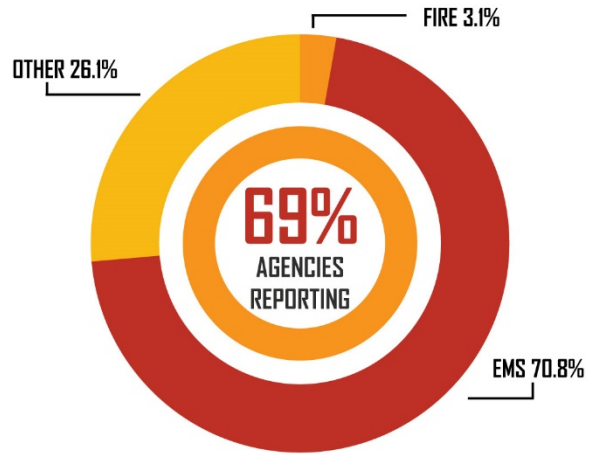
EMS: **584,977**

OTHER: **215,588**

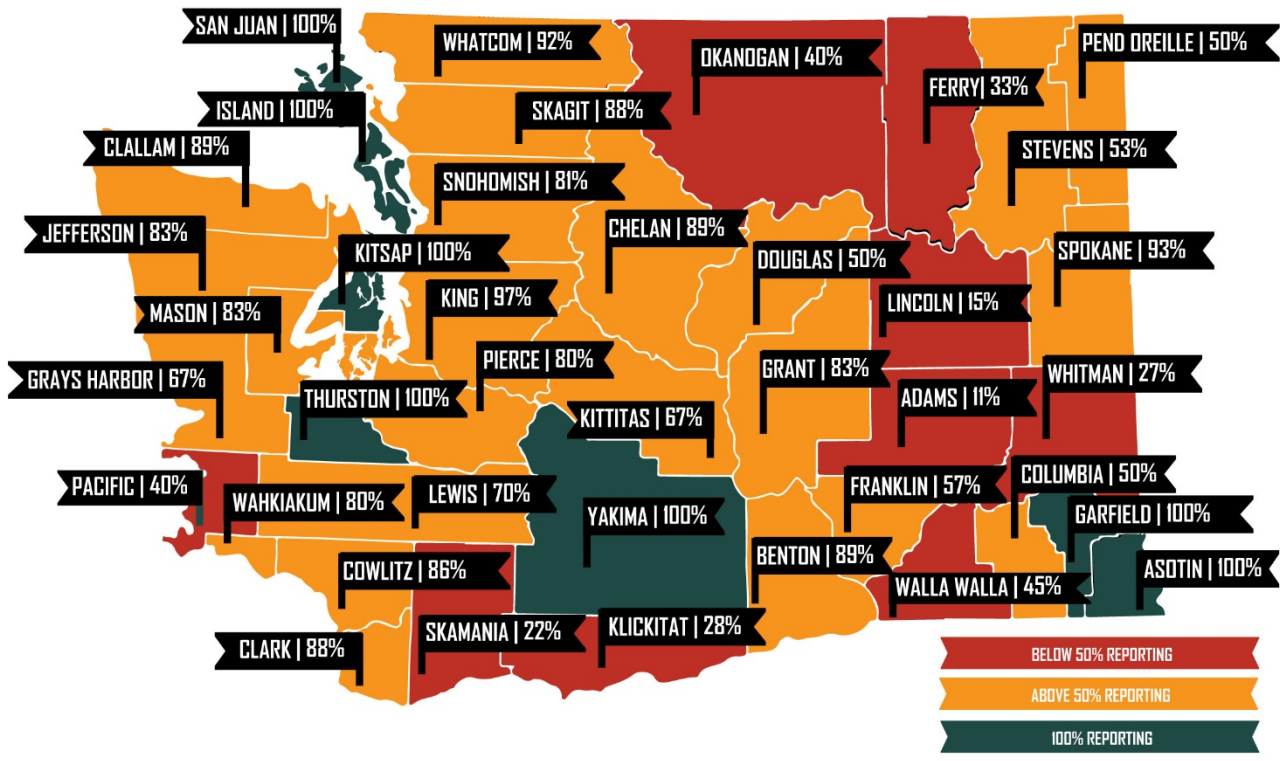
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TOTAL REPORTED: **826,069**

## INCIDENT TYPES



## PERCENTAGE OF AGENCIES REPORTING TO NFIRS PER COUNTY



## Washington Fire Clock

Washington fire agencies responded to over 826,000 incidents in 2020, including nearly 585,000 emergency medical service calls, over 91,000 good intent calls, over 57,000 service calls, over 47,000 false alarms, and over 25,000 fire calls. Their availability to respond to needs of the people of Washington at any time of day or night cannot be understated.

Overall, fires have resulted in more than \$302 million in fire losses in 2020. Structure fires accounted for 82% of that amount. Vehicle fires represented 9% of that amount and vegetation fires were responsible for just under 8% of the total. When averaged out, these financial losses accumulate at a dizzying rate.



## 2020 SUMMARY OF INCIDENTS

In Washington State, fire agencies are required to report fire incidents to the SFMO. Since NFIRS has been expanded to capture the full range of emergency incident response types, many fire agencies document and report every incident. This summary is an overview of all the incidents reported, but is not all encompassing of the total incident experience.

In 2020, fire agencies in Washington State reported 826,069 incidents to NFIRS. Of these incidents, 25,504 of them were reported as fires. **Fire** incidents resulted in 75 fatalities and over \$302 million in property and content loss. Fire agencies are encouraged to be as accurate as possible when documenting dollar loss because the figures are intended to provide insight into the financial impact fire has on our communities. Dollar loss estimates are calculated by fire service personnel and are not reflective of insurance settlements or actual total loss.

**Rescue and Emergency Medical Service** was the leading incident type category reported, representing over 70% of the total number of incidents. Good Intent calls were second at just over 11%. **Service Calls** were third at just over 7% of the total incidents. **False Alarms and False Calls** were the fourth most common incident at more than 5%. This category includes all malicious or mischievous false alarms, as well as fire protection system malfunctions and unintentional false fire protection activations.

Emphasis in this report is on **Fire** incidents.

2020 Incident Type Category Summary*	Total # of Incidents	% of Total Incidents	Total Property and Contents Loss Reported	% of Total Loss Reported
<b>Fire</b>	<b>25,504</b>	<b>3.09%</b>	<b>\$ 302,109,568</b>	<b>6.24%</b>
Structure Fires (including Confined Fires)	6,828	0.83%	\$ 246,641,837	1.87%
Vehicle Fires (Mobile Properties)	3,428	0.41%	\$ 26,412,159	0.99%
Natural Vegetation Fires	6,597	0.80%	\$ 23,492,157	1.46%
Fixed Mobile Property Fires	344	0.04%	\$ 2,495,804	0.10%
Fire, Other	1,335	0.16%	\$ 1,013,597	0.31%
Outside Storage and Equipment Fires	1,763	0.21%	\$ 970,847	0.30%
Cultivated Vegetation Fires	132	0.02%	\$ 634,900	0.03%
Outside Rubbish Fires	5,077	0.61%	\$ 448,267	1.16%
<b>Rescue and Emergency Medical Service</b>	<b>584,977</b>	<b>70.81%</b>	<b>\$ 2,520,450</b>	<b>67.92%</b>
<b>False Alarms and False Calls</b>	<b>47,153</b>	<b>5.71%</b>	<b>\$ 1,677,910</b>	<b>5.75%</b>
Unintentional False Fire Protection System Activation	23,717	2.87%	\$ 1,493,960	2.77%
Malicious or Mischievous False Alarm	8,858	1.07%	\$ 152,000	1.08%
Fire Protection System Malfunction	14,578	1.76%	\$ 31,950	1.89%
<b>Good Intent Calls</b>	<b>91,003</b>	<b>11.02%</b>	<b>\$ 248,111</b>	<b>10.47%</b>
<b>Service Calls</b>	<b>57,974</b>	<b>7.02%</b>	<b>\$ 230,540</b>	<b>7.23%</b>
<b>Hazardous Conditions (No Fire)</b>	<b>12,832</b>	<b>1.55%</b>	<b>\$ 153,030</b>	<b>1.68%</b>
<b>Severe Weather and Natural Disaster</b>	<b>549</b>	<b>0.07%</b>	<b>\$ 79,000</b>	<b>0.08%</b>
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>	<b>867</b>	<b>0.10%</b>	<b>\$ 48,882</b>	<b>0.14%</b>
<b>Other Types of Incidents</b>	<b>5,210</b>	<b>0.63%</b>	<b>\$ 13,200</b>	<b>0.50%</b>
<b>Grand Total</b>	<b>826,069</b>	<b>100.00%</b>	<b>\$ 307,080,691</b>	<b>100.00%</b>

\*Sorted by Total Property and Contents Loss Reported. Totals exclude Mutual or Automatic Aid Given.

## Incidents Based on Population

In Washington State, 13 of the 39 counties have populations of over 100,000, representing 86% of the state's population. In 2020, approximately 87% of the incidents and 92% of the dollar loss reported was a result of fire occurring in the most densely populated counties.

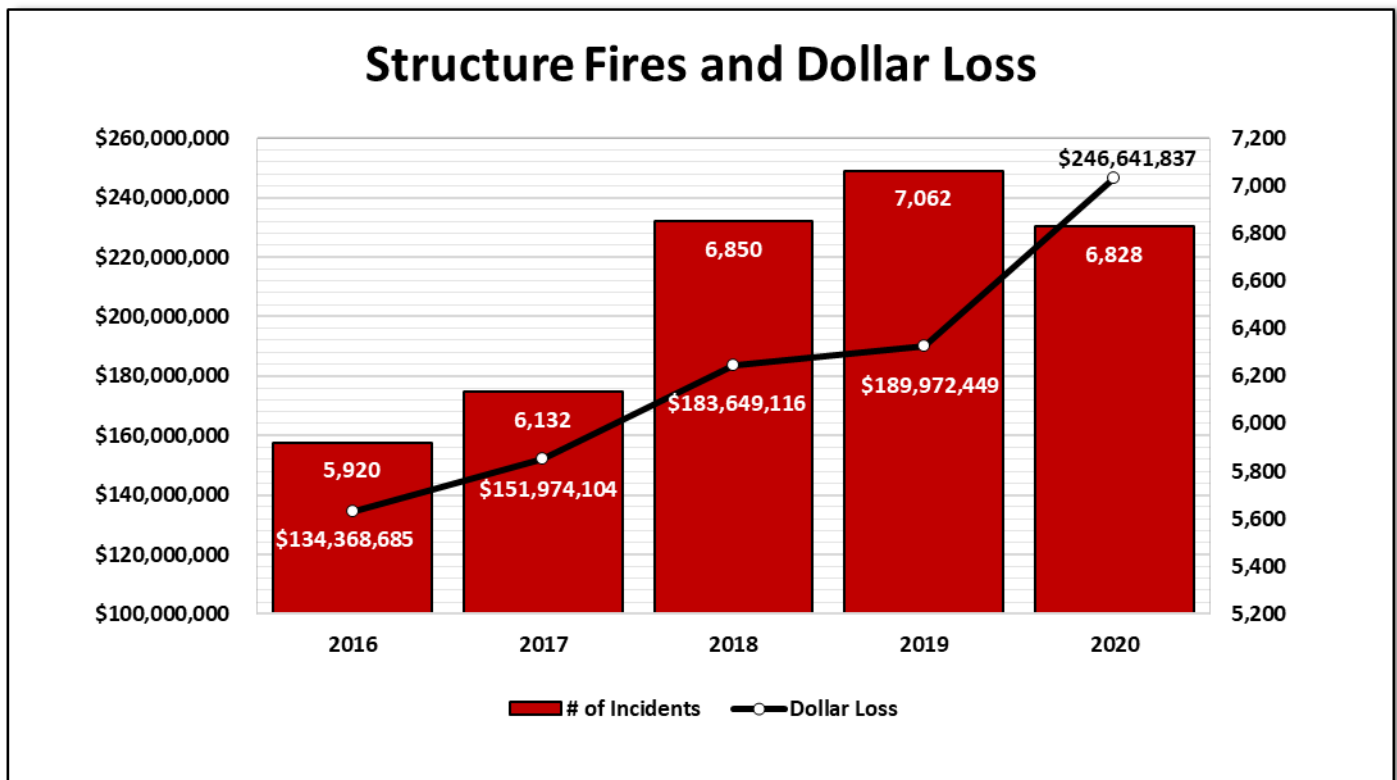


Estimated Population (Based on Figures from the Washington State Office of Financial Management)	13 Counties with Populations over 100,000		26 Counties with Populations under 100,000		Statewide	
	6,609,980	86%	1,046,220	14%	7,656,200	
Incident Type Categories	Total # of Incidents	% of Total Incidents	Total # of Incidents	% of Total Incidents	Total # of Incidents	% of Total Incidents
<b>Rescue and Emergency Medical Service</b>	<b>506,386</b>	<b>61.30%</b>	<b>78,591</b>	<b>9.51%</b>	<b>584,977</b>	<b>70.81%</b>
<b>Good Intent Calls</b>	<b>81,725</b>	<b>9.89%</b>	<b>9,278</b>	<b>1.12%</b>	<b>91,003</b>	<b>11.02%</b>
<b>Service Calls</b>	<b>49,579</b>	<b>6.00%</b>	<b>8,395</b>	<b>1.02%</b>	<b>57,974</b>	<b>7.02%</b>
<b>False Alarms and False Calls</b>	<b>41,678</b>	<b>5.05%</b>	<b>5,475</b>	<b>0.66%</b>	<b>47,153</b>	<b>5.71%</b>
Unintentional False Fire Protection System Activation	20,984	2.54%	2,733	0.33%	23,717	2.87%
Malicious or Mischievous False Alarm	7,759	0.94%	1,643	0.20%	8,858	1.07%
Fire Protection System Malfunction	12,935	1.57%	1,099	0.13%	14,578	1.76%
<b>Fire</b>	<b>21,046</b>	<b>2.55%</b>	<b>4,458</b>	<b>0.54%</b>	<b>25,504</b>	<b>3.09%</b>
Structure Fires (including Confined Fires)	5,526	0.67%	1,302	0.16%	6,828	0.83%
Vehicle Fires (Mobile Properties)	2,782	0.34%	646	0.08%	3,428	0.41%
Natural Vegetation Fires	5,079	0.61%	1,518	0.18%	6,597	0.80%
Fixed Mobile Property Fires	241	0.03%	103	0.01%	344	0.04%
Fire, Other	1,052	0.13%	44	0.01%	1,335	0.16%
Outside Storage and Equipment Fires	1,645	0.20%	118	0.01%	1,763	0.21%
Cultivated Vegetation Fires	4,633	0.56%	444	0.05%	132	0.02%
Outside Rubbish Fires	88	0.01%	283	0.03%	5,077	0.61%
<b>Hazardous Conditions (No Fire)</b>	<b>10,897</b>	<b>1.32%</b>	<b>1,935</b>	<b>0.23%</b>	<b>12,832</b>	<b>1.55%</b>
<b>Other Types of Incidents</b>	<b>4,367</b>	<b>0.53%</b>	<b>843</b>	<b>0.10%</b>	<b>5,210</b>	<b>0.63%</b>
<b>Overpressure Rupture, Explosion, and Overheat (No Fire)</b>	<b>770</b>	<b>0.09%</b>	<b>164</b>	<b>0.02%</b>	<b>867</b>	<b>0.10%</b>
<b>Severe Weather and Natural Disaster</b>	<b>385</b>	<b>0.05%</b>	<b>97</b>	<b>0.01%</b>	<b>549</b>	<b>0.07%</b>
<b>Grand Total</b>	<b>716,833</b>	<b>86.78%</b>	<b>109,236</b>	<b>13.22%</b>	<b>826,069</b>	<b>100%</b>
<b>Dollar Loss as a Result of Fire</b>	<b>\$ 279,230,175</b>	<b>92%</b>	<b>\$ 22,879,393</b>	<b>8%</b>	<b>\$ 302,109,568</b>	<b>100%</b>

## Categories of Fire Incidents

Fire service agencies have reported 114,339 fire incidents to the SFMO over the past five years. In these fires, 321 people have lost their lives and more than \$1.1 billion in property and content have been lost. In 2020, the overall number of fires reported increased 7% compared to the previous year.

**Structure Fires** were the leading type of fire incident type reported. Structure fires accounted for approximately 29% of the fires reported, 82% of the estimated dollar loss, and approximately 63% of the fire fatalities. **Structure Fires** include buildings or other types of structures, and fires confined to non-combustible containers such as food on stoves, chimneys or flues, boilers, trash receptacles, or commercial compactors. It is important to note that the number of structure fires in 2020 actually decreased 3.3% since 2019; however, the dollar loss from those fires increased nearly 30%.



**Natural Vegetation Fires** were the second leading type of fire reported over the past five years, accounting for 28% of the total. Dollar loss was estimated over \$37 million during that same time period, which includes \$15 million in structural losses in 2020 due to a large wildland incident that was included in the NFIRS incident report.

**Vehicle Fires** include mobile properties such as passenger vehicles, trains, mobile recreational vehicles, planes, and off-road vehicles. Over the past five years, vehicle fires accounted for nearly 14% of the total fires reported and more than \$131 million in loss.

**Fixed Mobile Property Fires** include mobile homes, recreational vehicles (RV) or trailers used as residences, and other portable buildings used in a fixed location. These fires account for approximately 1% of all fires and 1% of the dollar loss reported over the past five years.

**Fire, Other** is used when a more specific fire incident type is not available to describe the incident. Nearly 6% of the fires over a five-year period have been included in this category.

**Outside Storage and Equipment Fires** include mailboxes, gas or vapor combustion explosions without sustained fire, and other types of special outside fires. These fires account for approximately 6% of the fires reported over the past five years and resulted in more than \$5 million in loss.

**Cultivated Vegetation Fires** include grain, crops, orchards, vineyards, trees or nurseries, and other cultivated vegetation fires. The occurrence of these fires is low relative to other fire types, but the financial impact can be devastating to the property owner. Estimating dollar loss for cultivated vegetation fires can be a challenge for fire service personnel because the market value may not be known.

**Outside Rubbish Fires** include the burning of trash or waste in or out of trash receptacles or compactors, and fires in landfills. Over the past five years, over 16% of the fires were in this category.

**2016 – 2020 Fire Incident Type by Category (Five-year total sorted by dollar loss)**

Fire Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	5,920	6,132	6,850	7,062	6,828	32,792
Dollar Loss	\$ 134,368,685	\$ 151,974,104	\$ 183,649,116	\$ 189,972,449	\$ 246,641,837	\$ 906,606,191
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	2,772	2,914	3,221	3,335	3,428	15,670
Dollar Loss	\$ 12,513,925	\$ 17,647,228	\$ 56,216,069	\$ 18,677,259	\$ 26,412,159	\$ 131,466,640
<b>Natural Vegetation Fires</b>						
# of Incidents	5,129	6,534	7,331	6,096	6,597	31,687
Dollar Loss	\$ 1,686,281	\$ 4,061,942	\$ 5,593,509	\$ 2,815,124	\$ 23,492,157	\$ 37,649,013
<b>Fixed Mobile Property Fires</b>						
# of Incidents	207	251	295	323	344	1,420
Dollar Loss	\$ 1,312,573	\$ 1,576,165	\$ 2,436,606	\$ 4,774,452	\$ 2,495,804	\$ 12,595,600
<b>Fire, Other</b>						
# of Incidents	1,121	1,230	1,389	1,313	1,335	6,388
Dollar Loss	\$ 1,236,626	\$ 2,157,853	\$ 1,108,274	\$ 1,369,271	\$ 1,013,597	\$ 6,885,621
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	1,103	1,248	1,436	1,516	1,763	7,066
Dollar Loss	\$ 1,142,748	\$ 416,148	\$ 1,783,736	\$ 862,350	\$ 970,847	\$ 5,175,829
<b>Cultivated Vegetation Fires</b>						
# of Incidents	91	100	138	135	132	596
Dollar Loss	\$ 276,166	\$ 100,902	\$ 857,530	\$ 544,646	\$ 634,900	\$ 2,414,144
<b>Outside Rubbish Fires</b>						
# of Incidents	2,801	3,194	3,600	4,048	5,077	18,720
Dollar Loss	\$ 145,734	\$ 282,509	\$ 183,049	\$ 460,588	\$ 448,267	\$ 1,520,147
<b>Total # of Incidents</b>	<b>19,144</b>	<b>21,603</b>	<b>24,260</b>	<b>23,828</b>	<b>25,504</b>	<b>114,339</b>
<b>Total Dollar Loss</b>	<b>\$ 152,682,738</b>	<b>\$ 178,216,851</b>	<b>\$ 251,827,889</b>	<b>\$ 219,476,139</b>	<b>\$ 302,109,568</b>	<b>\$ 1,104,313,185</b>

## Fires by Heat Source

The table below provides a five-year overview of the heat source information reported in the Fire Module only. Confined fires, which do not require a Fire Module to be completed, and heat sources reported through the optional Wildland Module, are not included in the analysis.

**Operating Equipment** remains the leading known heat source, accounting for over 14% of the fires and a little over 20% of the dollar loss reported between 2016 and 2020. Operating equipment includes sparks, embers, or flames from operating equipment, radiated or conducted heat from operating equipment, and electrical arcing.

Heat Source Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	5,436	6,374	7,560	6,915	7,765	34,050
Dollar Loss	\$ 72,575,309	\$ 86,358,958	\$ 109,898,681	\$ 118,892,811	\$ 145,601,496	\$ 533,327,255
<b>Operating Equipment</b>						
# of Incidents	2,989	3,127	3,384	3,426	3,402	16,328
Dollar Loss	\$ 31,437,680	\$ 43,620,537	\$ 44,308,372	\$ 45,567,684	\$ 57,082,519	\$ 222,016,792
<b>Hot or Smoldering Object</b>						
# of Incidents	1,636	1,743	1,841	1,778	1,765	8,763
Dollar Loss	\$ 21,654,154	\$ 12,146,703	\$ 45,811,595	\$ 15,606,164	\$ 15,950,743	\$ 111,169,359
<b>Open Flame or Smoking Material</b>						
# of Incidents	1,819	1,955	2,142	2,095	2,060	10,071
Dollar Loss	\$ 13,486,195	\$ 15,991,498	\$ 28,758,102	\$ 19,100,827	\$ 21,088,880	\$ 98,425,502
<b>Heat Source Other</b>						
# of Incidents	626	767	814	834	841	3,882
Dollar Loss	\$ 4,160,139	\$ 5,502,971	\$ 3,142,554	\$ 5,940,598	\$ 29,323,703	\$ 48,069,965
<b>(blank)</b>						
# of Incidents	5,644	6,429	7,043	7,379	8,284	34,779
Dollar Loss	\$ 1,212,397	\$ 3,922,601	\$ 5,387,459	\$ 1,810,346	\$ 20,083,743	\$ 32,416,546
<b>Heat Spread from Another Fire</b>						
# of Incidents	375	408	530	514	532	2,359
Dollar Loss	\$ 3,070,960	\$ 5,264,647	\$ 7,812,958	\$ 5,552,541	\$ 4,185,545	\$ 25,886,651
<b>Chemical or Natural</b>						
# of Incidents	193	215	230	324	220	1,182
Dollar Loss	\$ 2,287,791	\$ 2,170,821	\$ 3,537,973	\$ 4,322,067	\$ 3,236,517	\$ 15,555,169
<b>Explosives and Fireworks</b>						
# of Incidents	391	549	662	516	582	2,700
Dollar Loss	\$ 1,199,387	\$ 1,818,613	\$ 2,544,269	\$ 2,545,586	\$ 4,201,822	\$ 12,309,677
<b>Multiple Heat Sources</b>						
# of Incidents	35	36	54	47	53	225
Dollar Loss	\$ 1,598,726	\$ 1,419,502	\$ 625,926	\$ 137,515	\$ 1,354,600	\$ 5,136,269
<b>Total # of Incidents</b>	<b>19,144</b>	<b>21,603</b>	<b>24,260</b>	<b>23,828</b>	<b>25,504</b>	<b>114,339</b>
<b>Total Dollar Loss</b>	<b>\$ 152,682,738</b>	<b>\$ 178,216,851</b>	<b>\$ 251,827,889</b>	<b>\$ 219,476,139</b>	<b>\$ 302,109,568</b>	<b>\$ 1,104,313,185</b>

## Fires by Area of Origin

Area of origin identifies the primary location where a fire started within a property. Fires that started in **Functional Areas** resulted in the greatest amount of dollar loss to property and contents at over \$242 million. Bedrooms, dining or eating areas, kitchens, bathrooms, laundry rooms, office spaces, and other functional areas are included in this category.

Area of Origin Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	1,897	1,898	2,069	2,111	2,048	10,023
Dollar Loss	\$35,425,337	\$48,576,602	\$37,637,863	\$44,435,813	\$76,145,364	\$242,220,979
<b>Undetermined</b>						
# of Incidents	1,392	1,636	1,989	1,917	2,186	9,120
Dollar Loss	\$22,912,392	\$27,511,368	\$45,551,834	\$36,033,688	\$41,963,162	\$173,972,444
<b>Structural Areas</b>						
# of Incidents	786	851	876	993	907	4,413
Dollar Loss	\$22,811,115	\$24,789,933	\$32,398,672	\$48,769,421	\$34,593,632	\$163,362,773
<b>Outside Areas</b>						
# of Incidents	5,106	6,013	7,131	6,094	6,729	31,073
Dollar Loss	\$9,275,437	\$9,847,655	\$46,454,950	\$12,679,357	\$52,364,780	\$130,622,179
<b>Storage Areas</b>						
# of Incidents	598	696	694	825	811	3,624
Dollar Loss	\$23,350,906	\$19,373,532	\$24,438,805	\$27,069,186	\$23,776,855	\$118,009,284
<b>Vehicle Areas</b>						
# of Incidents	2,446	2,545	2,774	2,829	2,828	13,422
Dollar Loss	\$12,080,658	\$15,764,294	\$20,998,501	\$16,984,685	\$25,388,023	\$91,216,161
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	172	227	230	222	237	1,088
Dollar Loss	\$8,575,932	\$8,443,835	\$14,664,970	\$13,856,395	\$8,794,303	\$54,335,435
<b>Service or Equipment Areas</b>						
# of Incidents	300	350	332	374	334	1,690
Dollar Loss	\$10,939,548	\$10,132,104	\$11,444,738	\$4,776,729	\$4,621,383	\$41,914,502
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	151	178	179	193	202	903
Dollar Loss	\$3,556,428	\$7,248,456	\$9,822,156	\$4,242,219	\$4,365,742	\$29,235,001
<b>Other Areas of Origin</b>						
# of Incidents	621	742	905	852	901	4,021
Dollar Loss	\$2,356,388	\$2,157,021	\$2,360,069	\$7,404,027	\$5,466,695	\$19,744,200
<b>Technical Processing Areas</b>						
# of Incidents	31	38	38	39	39	185
Dollar Loss	\$186,200	\$449,450	\$667,872	\$1,414,273	\$4,785,428	\$7,503,223
<b>(Blank)</b>						
# of Inc	1,406	1,713	1,797	1,824	1,901	8,641
Dollar Loss	\$209,380	\$220,391	\$1,258,312	\$582,892	\$439,175	\$2,710,150
<b>Total # of Incidents</b>	<b>19,144</b>	<b>21,603</b>	<b>24,260</b>	<b>23,828</b>	<b>25,504</b>	<b>114,339</b>
<b>Total Dollar Loss</b>	<b>\$ 152,682,738</b>	<b>\$ 178,216,851</b>	<b>\$ 251,827,889</b>	<b>\$ 219,476,139</b>	<b>\$ 302,109,568</b>	<b>\$ 1,104,313,185</b>



## Fire Incidents at Residential Properties

Over the past five years, 38% of the fires in Washington State occurred in residential properties. As categorized by NFIRS, residential properties include **One- and Two-Family Dwellings**, **Multi-Family Dwellings**, and **Other Residential Uses** (board and care facilities, hotel/motels, college housing, barracks, and dormitories).

Fires by Residential Property Uses	2016	2017	2018	2019	2020	5-Year Total
<b>One- and Two-Family Dwellings</b>						
# of Incidents	5,421	5,974	6,599	6,716	6,745	31,455
Dollar Loss	\$77,108,417	\$85,895,593	\$101,978,698	\$117,537,164	\$121,560,988	\$504,080,860
<b>Multi-Family Dwellings</b>						
# of Incidents	1,636	1,708	1,961	1,957	2,037	9,299
Dollar Loss	\$19,334,667	\$21,527,346	\$25,976,331	\$22,615,287	\$60,856,865	\$150,310,496
<b>Other Residential Uses</b>						
# of Incidents	522	616	655	705	675	3,173
Dollar Loss	\$1,343,424	\$2,794,797	\$8,113,889	\$3,378,077	\$5,049,491	\$20,679,678
<b>Total # of Incidents</b>	<b>7,579</b>	<b>8,298</b>	<b>9,215</b>	<b>9,378</b>	<b>9,457</b>	<b>43,927</b>
<b>Total Dollar Loss</b>	<b>\$97,786,508</b>	<b>\$110,217,736</b>	<b>\$136,068,918</b>	<b>\$143,530,528</b>	<b>\$187,467,344</b>	<b>\$675,071,034</b>

When breaking down types of residential fires into further detail, it is important to note that 95% of fire losses from residential fires over the past five years have primarily been due to structure fires.

Fire Incident Type Category - Residential	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	4,618	4,848	5,354	5,515	5,331	25,666
Dollar Loss	\$ 94,439,773	\$ 105,771,690	\$ 129,779,357	\$ 135,709,599	\$ 178,326,378	\$ 644,026,797
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	301	323	394	408	453	1,879
Dollar Loss	\$ 1,106,611	\$ 1,291,715	\$ 2,292,363	\$ 2,339,257	\$ 6,215,207	\$ 13,245,153
<b>Fixed Mobile Property Fires</b>						
# of Incidents	114	147	179	201	188	829
Dollar Loss	\$ 961,218	\$ 1,191,987	\$ 1,724,005	\$ 4,239,949	\$ 1,629,304	\$ 9,746,463
<b>Fire, Other</b>						
# of Incidents	555	587	655	609	635	3,041
Dollar Loss	\$ 339,778	\$ 1,713,426	\$ 726,272	\$ 815,547	\$ 660,927	\$ 4,255,950
<b>Natural Vegetation Fires</b>						
# of Incidents	831	1,052	1,228	1,133	1,156	5,400
Dollar Loss	\$ 774,007	\$ 116,749	\$ 1,279,156	\$ 219,538	\$ 202,572	\$ 2,592,022
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	173	230	241	261	274	1,179
Dollar Loss	\$ 81,335	\$ 96,365	\$ 196,470	\$ 114,427	\$ 326,309	\$ 814,906
<b>Outside Rubbish Fires</b>						
# of Incidents	974	1,101	1,143	1,235	1,398	5,851
Dollar Loss	\$ 83,584	\$ 33,204	\$ 45,295	\$ 87,211	\$ 83,747	\$ 333,041
<b>Cultivated Vegetation Fires</b>						
# of Incidents	13	10	21	16	22	82
Dollar Loss	\$ 202	\$ 2,600	\$ 26,000	\$ 5,000	\$ 22,900	\$ 56,702
<b>Total # of Incidents</b>	<b>7,579</b>	<b>8,298</b>	<b>9,215</b>	<b>9,378</b>	<b>9,457</b>	<b>43,927</b>
<b>Total Dollar Loss</b>	<b>\$ 97,786,508</b>	<b>\$ 110,217,736</b>	<b>\$ 136,068,918</b>	<b>\$ 143,530,528</b>	<b>\$ 187,467,344</b>	<b>\$ 675,071,034</b>

## Fires with Automatic Extinguishing Systems

Residential fire sprinklers are a proven way to help protect lives and property against fires at home. These systems respond quickly to reduce heat, flames, and smoke from a fire, giving occupants valuable time to get to safety. Each individual sprinkler head is designed and calibrated to activate when it senses a significant heat change. Only the sprinkler head closest to the fire will activate, spraying water directly on the fire.

In 2020, there were 325 fire suppression system activations reported at properties with full or partial automatic extinguishing systems present. Just under \$15 million was lost in property and contents. Where property loss is significant, incidents were reported where the fire occurred in an area of the building that was not protected, or where the AES shutoff prematurely.

Of the 75 fire fatalities reported during 2020, one occurred in a building that was equipped with fire sprinklers. In that fatality, a number of contributing factors were reported by the fire agency indicating the individual had direct thermal burns and may have been incapable of self-preservation.

<b>Automatic Extinguishing System (AES) Presence* by Property Use Category - 2020</b>	<b># of Incidents</b>	<b>Reported Property &amp; Contents Loss</b>
<b>Residential</b>	<b>206</b>	<b>\$7,636,330</b>
One- and Two-Family Dwellings	25	\$4,511,469
Multi-Family Dwellings	158	\$2,672,511
Hotel/Motel, Commercial	14	\$430,300
Residential Board and Care	6	\$19,550
Boarding/Rooming House, Residential Hotels	2	\$2,500
Dormitory Type Residence, Other	1	\$0
<b>Mercantile and Business</b>	<b>41</b>	<b>\$4,414,730</b>
<b>Manufacturing and Processing</b>	<b>21</b>	<b>\$2,236,372</b>
<b>Health Care, Detention, and Corrections</b>	<b>10</b>	<b>\$350,216</b>
<b>Assembly</b>	<b>16</b>	<b>\$115,900</b>
<b>Educational Uses</b>	<b>16</b>	<b>\$70,952</b>
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>	<b>6</b>	<b>\$40,000</b>
<b>Other Property Uses</b>	<b>1</b>	<b>\$30,000</b>
<b>Outside or Special Properties</b>	<b>2</b>	<b>\$7,054</b>
<b>Storage</b>	<b>6</b>	<b>\$3,000</b>
<b>Grand Total</b>	<b>325</b>	<b>\$14,904,554</b>

\*Data is based on full or partial AES presence

## Fires by Cause of Ignition

The cause of ignition is useful in determining the factors that result in a fire incident. The table below illustrates the causes of ignition reported through the NFIRS Fire Module over the past five years. Fire prevention measures and product safety features can be tailored to address the causes of fires reported through NFIRS.

Cause Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	6,670	8,046	8,821	8,889	10,254	42,679
Dollar Loss	\$ 39,251,797	\$ 66,565,594	\$ 85,328,924	\$ 92,251,929	\$ 159,412,373	\$ 442,810,617
<b>Other Unintentional, Careless</b>						
# of Incidents	2,035	2,354	2,837	2,533	2,697	12,456
Dollar Loss	\$ 21,301,312	\$ 21,958,674	\$ 22,308,507	\$ 18,535,286	\$ 21,917,533	\$ 106,021,312
<b>Electrical Malfunction</b>						
# of Incidents	974	1,053	1,064	1,166	1,094	5,351
Dollar Loss	\$ 12,170,120	\$ 16,945,905	\$ 16,697,192	\$ 15,898,185	\$ 19,931,692	\$ 81,643,094
<b>Other Heat</b>						
# of Incidents	994	1,114	1,247	1,182	1,166	5,703
Dollar Loss	\$ 7,545,387	\$ 10,352,687	\$ 39,372,522	\$ 11,044,803	\$ 11,724,799	\$ 80,040,198
<b>Intentional</b>						
# of Incidents	2,103	2,176	2,781	2,852	3,439	13,351
Dollar Loss	\$ 11,635,665	\$ 11,619,014	\$ 20,423,654	\$ 13,031,077	\$ 15,986,552	\$ 72,695,962
<b>Equipment Misoperation, Failure</b>						
# of Incidents	1,073	1,193	1,254	1,262	1,215	5,997
Dollar Loss	\$ 5,017,608	\$ 8,408,423	\$ 10,117,537	\$ 12,053,917	\$ 20,794,836	\$ 56,392,321
<b>Open Flame</b>						
# of Incidents	956	988	1,085	977	1,025	5,031
Dollar Loss	\$ 14,087,451	\$ 7,457,067	\$ 8,239,200	\$ 10,709,756	\$ 11,197,362	\$ 51,690,836
<b>Cooking</b>						
# of Incidents	1,902	1,779	2,108	2,069	1,997	9,855
Dollar Loss	\$ 6,244,850	\$ 4,712,326	\$ 7,876,899	\$ 9,806,824	\$ 9,644,283	\$ 38,285,182
<b>Appliances</b>						
# of Incidents	263	273	322	309	334	1,501
Dollar Loss	\$ 8,039,459	\$ 8,085,764	\$ 4,329,231	\$ 6,647,434	\$ 7,642,483	\$ 34,744,371
<b>Investigation with Arson Module</b>						
# of Incidents	175	156	201	157	128	817
Dollar Loss	\$ 8,909,479	\$ 3,365,234	\$ 9,090,464	\$ 7,771,687	\$ 5,163,348	\$ 34,300,212
<b>Heating</b>						
# of Incidents	779	927	918	969	835	4,428
Dollar Loss	\$ 5,809,902	\$ 4,695,683	\$ 7,981,030	\$ 7,463,990	\$ 4,755,109	\$ 30,705,714
<b>Smoking</b>						
# of Incidents	555	733	678	580	460	3,006
Dollar Loss	\$ 3,086,024	\$ 5,684,331	\$ 5,619,121	\$ 4,301,335	\$ 3,890,390	\$ 22,581,201
<b>Exposure</b>						
# of Incidents	109	117	217	144	133	720
Dollar Loss	\$ 2,556,274	\$ 3,868,421	\$ 8,791,908	\$ 3,228,709	\$ 3,284,300	\$ 21,729,612
<b>Natural</b>						
# of Incidents	422	504	531	566	557	2,580
Dollar Loss	\$ 2,753,825	\$ 2,641,105	\$ 4,706,948	\$ 4,621,640	\$ 4,171,485	\$ 18,895,003

Cause Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Other Equipment</b>						
# of Incidents	57	71	71	85	76	360
Dollar Loss	\$ 3,036,135	\$ 1,723,944	\$ 620,201	\$ 1,445,863	\$ 1,584,873	\$ 8,411,016
<b>Playing with Heat Source</b>						
# of Incidents	77	119	125	88	94	503
Dollar Loss	\$ 1,237,450	\$ 132,679	\$ 324,551	\$ 663,704	\$ 1,008,150	\$ 3,366,534
<b>Total # of Incidents</b>	<b>19,144</b>	<b>21,603</b>	<b>24,260</b>	<b>23,828</b>	<b>25,504</b>	<b>114,339</b>
<b>Total Dollar Loss</b>	<b>\$ 152,682,738</b>	<b>\$ 178,216,851</b>	<b>\$ 251,827,889</b>	<b>\$ 219,476,139</b>	<b>\$ 302,109,568</b>	<b>\$ 1,104,313,185</b>

These categories have been recently expanded and are calculated fields that run via a hierarchy matrix created by USFA on the back end of NFIRS. This matrix examines various data fields in a fire incident report, and assigns one of the 16 causes, depending on the data entered by the reporting agencies. This expanded Cause category is featured in the Fire Cause report available in the NFIRS Data Warehouse. These categories include:

**Unknown** category includes when the cause of fire is documented as undetermined or not reported. Of the 42,679 incidents over the last five years that are classified as **Unknown**, a total of 15,080 (35%) are blank in those fields, because they are for incidents where a fire or wildland module was not required to be completed, such as confined rubbish fires.

**Other Unintentional, Careless** causes include misuse of a material or product, abandoned or discarded materials or products, a heat source too close to combustibles, or other unintentional (mechanical failure/malfunction, backfire) sources.

**Electrical Malfunction** causes include electrical distribution, wiring, transformers, meter boxes, power switching gear, outlets, cords, plugs, surge protectors, electric fences, lighting fixtures, and electrical arcing as source of heat.

**Other Heat** causes include fireworks, explosives, flame/torch used for lighting, heat or spark from friction, molten material, hot material, and heat from hot or smoldering objects.

**Intentional** causes are where the ignition is intentional or the fire is deliberately set.

**Equipment Misoperation, Failure** causes include equipment operation deficiency or equipment malfunction.

**Open Flame** causes include torches, candles, matches, lighters, open fire, ember, ash, rekindled fire, or backfire from internal combustion engine as source of heat.

**Cooking** causes include confined cooking fires, stoves, ovens, fixed and portable warming units, deep fat fryers, or open grills as the source of heat.

**Appliances** causes include televisions, radios, video equipment, phonographs, dryers, washing machines, dishwashers, garbage disposals, vacuum cleaners, hand tools, electric blankets, irons, hairdryers, electric razors, can openers, dehumidifiers, heat pumps, water cooling devices, air conditioners, or freezers and refrigeration equipment as source of heat.

**Investigation with Arson Module** means the cause is under investigation and a valid NFIRS Arson Module is present.

**Heating** causes include confined chimney or flue fires, fires confined to fuel burner/boiler malfunction, central heating, fixed and portable local heating units, fireplaces and chimneys, furnaces, boilers, or water heaters as source of heat.

**Smoking** causes include cigarettes, cigars, pipes, and heat from undetermined smoking materials.

**Exposure** fires are caused by heat spreading from another hostile fire.

**Natural** fires are caused by the sun's heat, spontaneous ignition, chemicals, lightning, static discharge, high winds, storms, high water including floods, earthquakes, volcanic action, or animals.

**Other Equipment** causes include special equipment (radar, x-ray, computer, telephone, transmitters, vending machine, office machine, pumps, printing press, gardening tools, or agricultural equipment), processing equipment (furnace, kiln, other industrial machines), service or maintenance equipment (incinerator, elevator), separate motors or generators, vehicles in a structure, or other unspecified equipment.

**Playing with Heat Source** fires are caused by individuals playing with any materials contained in the categories above as well as fires where the factors contributing to ignition include playing with heat source. Children playing with fire are included in this category.

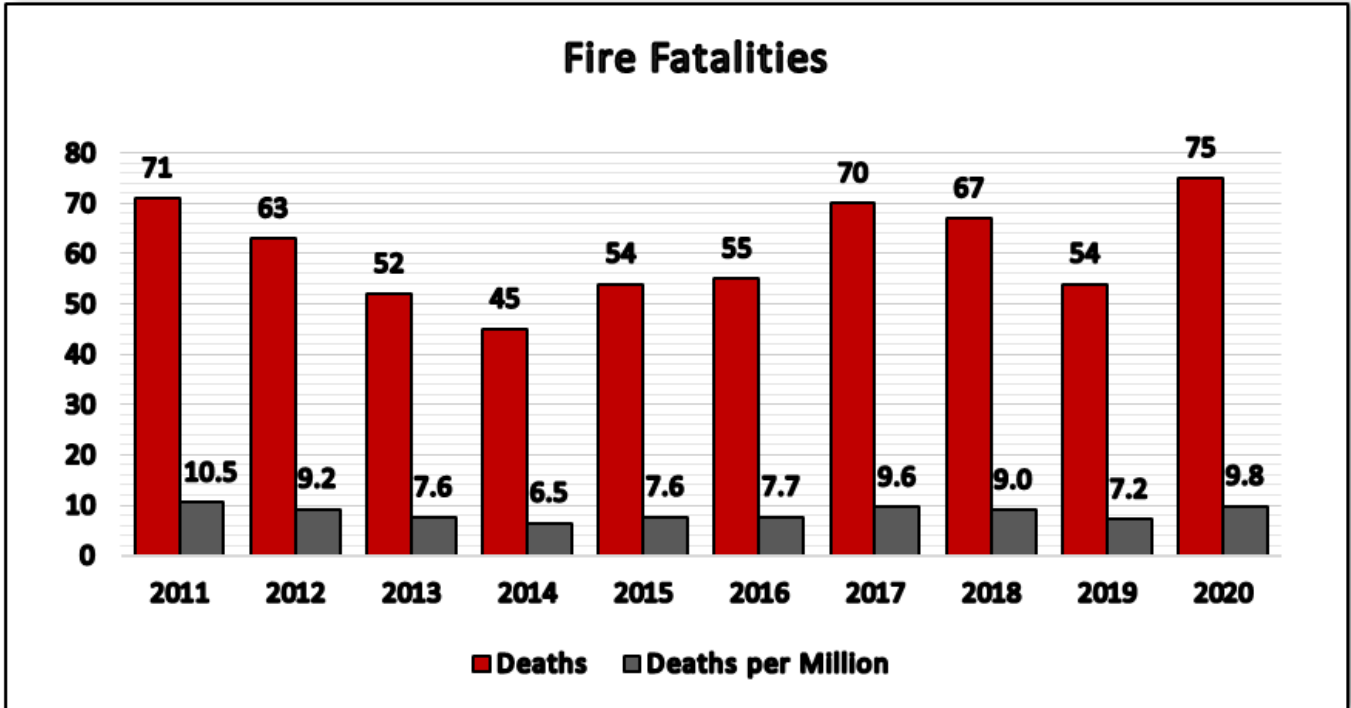
## Intentionally Set Fires by Property Use

In accordance with NFIRS, intentionally set fires are those fires set deliberately by the misuse of a heat source or the intentional ignition of property. Intentionally set fires result in millions of dollars in property loss in our state each year.

Intentionally Set Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	723	702	979	1,018	1,120	4,542
Dollar Loss	\$ 4,960,846	\$ 5,769,411	\$ 6,160,609	\$ 6,683,461	\$ 7,925,278	\$ 31,499,605
<b>Mercantile and Business</b>						
# of Incidents	40	48	52	80	119	339
Dollar Loss	\$ 2,379,052	\$ 3,210,449	\$ 4,559,730	\$ 5,053,552	\$ 3,892,858	\$ 19,095,641
<b>Manufacturing and Processing</b>						
# of Incidents	3	12	3	8	5	31
Dollar Loss	\$ 850,000	\$ 34,100	\$ 6,500,000	\$ 1	\$ 3,650	\$ 7,387,751
<b>Assembly</b>						
# of Incidents	55	41	44	64	83	287
Dollar Loss	\$ 2,095,733	\$ 60,201	\$ 1,764,986	\$ 157,911	\$ 1,468,687	\$ 5,547,518
<b>Outside or Special Properties</b>						
# of Incidents	749	823	1,053	987	1,163	4,775
Dollar Loss	\$ 765,932	\$ 2,249,374	\$ 816,679	\$ 511,818	\$ 956,944	\$ 5,300,747
<b>Storage</b>						
# of Incidents	39	26	34	38	51	188
Dollar Loss	\$ 375,977	\$ 55,401	\$ 431,050	\$ 166,953	\$ 486,785	\$ 1,516,166
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	31	35	50	70	66	252
Dollar Loss	\$ 1,000	\$ 10,000	\$ -	\$ 46,821	\$ 954,800	\$ 1,012,621
<b>Other Property Uses</b>						
# of Incidents	47	50	36	53	70	256
Dollar Loss	\$ 101,718	\$ 96,575	\$ 91,710	\$ 123,900	\$ 223,501	\$ 637,404
<b>Educational Uses</b>						
# of Incidents	36	35	37	41	29	178
Dollar Loss	\$ 98,888	\$ 111,250	\$ 64,635	\$ 256,880	\$ 25,684	\$ 557,337
<b>Undetermined</b>						
# of Incidents	362	388	462	476	709	2,397
Dollar Loss	\$ 5,859	\$ 15,753	\$ 25,121	\$ 6,050	\$ 28,115	\$ 80,898
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	5	4	13	10	12	44
Dollar Loss	\$ 660	\$ 6,500	\$ 6,434	\$ 23,730	\$ 12,250	\$ 49,574
<b>None</b>						
# of Inc	13	12	18	7	12	62
Dollar Loss	\$ -	\$ -	\$ 2,700	\$ -	\$ 8,000	\$ 10,700
<b>Total # of Incidents</b>	<b>2,103</b>	<b>2,176</b>	<b>2,781</b>	<b>2,852</b>	<b>3,439</b>	<b>13,351</b>
<b>Total Dollar Loss</b>	<b>\$ 11,635,665</b>	<b>\$ 11,619,014</b>	<b>\$ 20,423,654</b>	<b>\$ 13,031,077</b>	<b>\$ 15,986,552</b>	<b>\$ 72,695,962</b>

## 2020 FIRE FATALITIES

In 2020, 75 fire fatalities were reported to the SFMO. Compared to the previous year, fire fatalities increased 39%, raising the rate in Washington State to 9.8 fire deaths per million people. According to the latest available statistics from the USFA (2018 figures), the national fire death rate was 11.7 per million people. Washington State ranked 15th lowest in the nation.



The increase in fatalities over 2019 may be attributed to a ten-fold increase in fatalities that occurred due to intentionally set fires, and a 35% increase in fatalities attributable to fires with an undetermined cause.

Additionally, there was an increase in the number of multiple death incidents in 2020:

- January** – In King County, two adults died in a mobile home fire.
- January** – In Yakima County, two adults died in mobile home fire.
- February** – In Thurston County, two adults died in a manufactured home fire.
- August** – In Benton County, one adult and three children died in a manufactured home fire.
- September** – In Clark County, two adults died in a single-family home fire.

The following pages provide further details on the incidents that resulted in fatalities.

## Fire Fatalities by Cause of Fire

**Smoking and/or Smoking Materials** fires have historically been the leading known cause for fire fatalities in Washington State. Over the past five years, 16.2% of the fire fatalities have been smoking-related. In 2020, 17.3% of the fire deaths were reported as due to smoking-related fires. Smoking in sleeping areas, while using medical oxygen systems, or while under the influence of alcohol or mind-altering drugs increases the risk of a fire occurring.

Fires started by **Home Heating** are the second leading known cause for fire fatalities on a five year average, resulting in 8.1% of the total. In 2020, 5.3% of the fire deaths were reported as due to home heating.

Fires that were **Intentionally Set** have accounted for 6.5% of the fatalities over the last five years. In 2020, 13.3% of the deaths were related to intentionally set fires.

Cause Category	2016	2017	2018	2019	2020	5- Year Total	5-Year % of Total
Undetermined	23	23	19	20	27	112	34.90%
Smoking and/or Smoking Materials	6	10	14	9	13	52	16.20%
Under Investigation	4	11	11	4	1	31	9.70%
Home Heating	4	4	5	9	4	26	8.10%
Intentionally Set (Self-inflicted or by Another Person)	6	4	0	1	10	21	6.50%
Vehicle Collision	2	0	8	1	2	13	4.00%
Open Flame	2	4	3	2	2	13	4.00%
Electrical Related	2	8	0	1	0	11	3.40%
Cooking	2	1	3	1	2	9	2.80%
Electrical Appliance	4	0	1	2	1	8	2.50%
Unknown	0	3	0	0	3	6	1.90%
Heat from Powered Equipment	0	0	1	2	3	6	1.90%
Spark/Ember	0	2	0	0	4	6	1.90%
Fireworks	0	0	0	2	1	3	0.90%
Wildfire	0	0	0	0	1	1	0.30%
Failure of Equipment	0	0	1	0	0	1	0.30%
Multiple Heat Sources	0	0	0	0	1	1	0.30%
Heat Source Failure	0	0	1	0	0	1	0.30%
<b>TOTAL</b>	<b>55</b>	<b>70</b>	<b>67</b>	<b>54</b>	<b>75</b>	<b>321</b>	<b>100%</b>

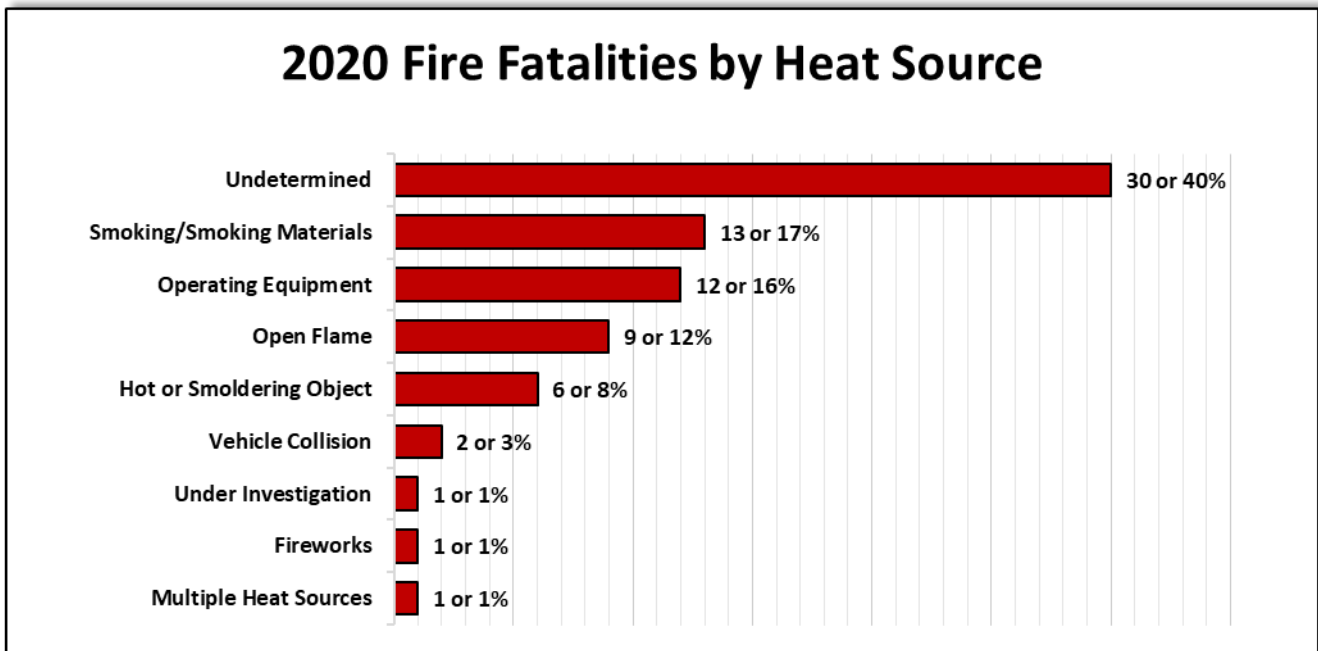


## Fire Fatalities by Heat Source

Of the 75 fire fatalities reported in 2020, **Smoking/Smoking Materials** fires were the leading known heat source, resulting in 13 deaths and 17% of the total number of deaths. The United States Fire Administration (USFA) reports smoking accounted for 14.6% of residential fire deaths in 2018 and 2.1% of non-residential building fires across the United States.

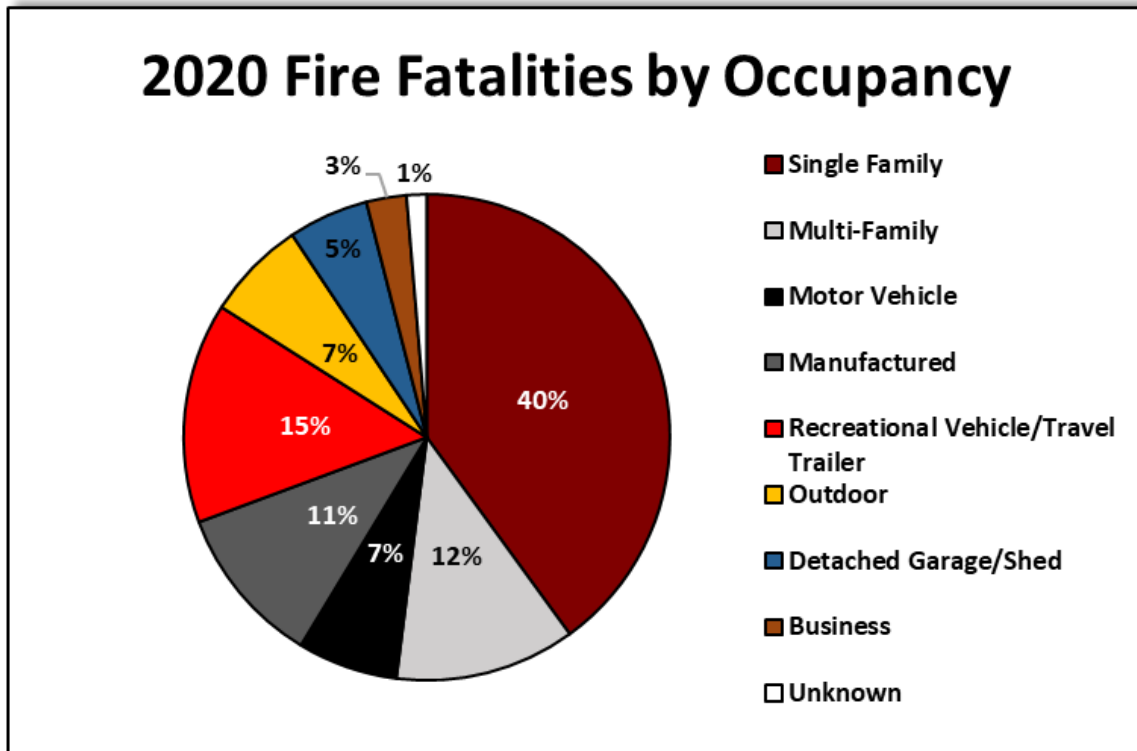
High risk behaviors, such as smoking in sleeping or lounging areas; smoking while using medical oxygen; and smoking while under the influence of mind-altering drugs or alcohol should be avoided. These fires can also occur due to improper disposal of smoking materials.

For **Undetermined** fire causes, the exact fire cause cannot be clearly identified by the fire investigator.



## Fire Fatalities by Occupancy

Nearly 63% of the fire fatalities occurred in Residential Occupancies (**Single Family, Multi-Family, and Manufactured**). Approximately 15% of the fatalities occurred in **Recreational Vehicles/Travel Trailers**. **Motor Vehicle** fires were responsible for 7% of the fire fatalities. Another 7% of the fire fatalities were due to **Outside** fires. Fires in **Detached Garage/Sheds** resulted in 5% of the fire fatalities. Fires in Business occupancies resulted in 3% of the fire fatalities. The remaining 1% of fatalities occurred in an occupancy that was not determined.



\*Percentages have been rounded to the nearest whole number

## Fire Fatalities by Age and Gender

Children are at significant risk in fire situations. In 2020, four children under age 10 died in fires, representing 5.3% of the fatalities. Young children may not be capable of escaping or know the dangers of fire exposure. Their ability to escape may be dependent on other occupants. Infants cannot save themselves, and young children may have limited fire escape skills or knowledge.

Age Group	FEMALE		MALE		Grand Total	% of Total
	Total	% of Total	Total	% of Total		
10 and Under	2	2.7%	2	2.7%	4	5.3%
11 - 19	1	1.3%	1	1.3%	2	2.7%
20 - 29	2	2.7%	5	6.7%	7	9.3%
30 - 39	3	4.0%	5	6.7%	8	10.7%
40 - 49	3	4.0%	7	9.3%	10	13.3%
50 - 59	5	6.7%	7	9.3%	12	16.0%
60 - 69	7	9.3%	4	5.3%	11	14.7%
70 - 79	3	4.0%	11	14.7%	14	18.7%
80 - 89	2	2.7%	3	4.0%	5	6.7%
90 - 99	0	0.0%	1	1.3%	1	1.3%
Unknown Age	0	0.0%	1	1.3%	1	1.3%
<b>Grand Total</b>	<b>28</b>	<b>37.3%</b>	<b>47</b>	<b>62.7%</b>	<b>75</b>	<b>100.0%</b>

In 2020, 57.4% of the people that died in fires were age 50 or older. As people age, they may become unable to react quickly in emergency situations, they may take medications that slow their ability to make rapid decisions, they may not be able to hear smoke alarms sounding, or they may be home alone at the time a fire starts. Most of the fatalities occurred in the 70-79 age group.

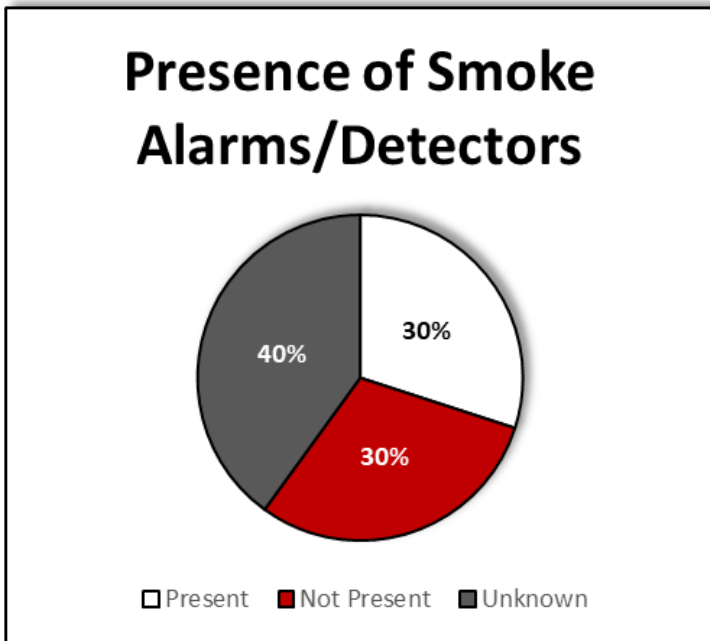
## Fire Fatalities by Cause of Ignition

Investigations to determine whether fire fatalities were due to **Intentional** or **Unintentional** causes found that 13% of fatalities were due to **Intentional** fires and 48% of fatalities were due to **Unintentional** fires. The remaining 39% of fatalities were due to fires that are still **Under Investigation** or could not be determined.

Cause of Ignition	Total	% of Total
Unintentional	36	48%
Intentional	10	13%
Undetermined	15	20%
Under Investigation	14	19%
<b>TOTAL</b>	<b>75</b>	<b>100%</b>

## Fire Fatalities and Fire Protection Devices

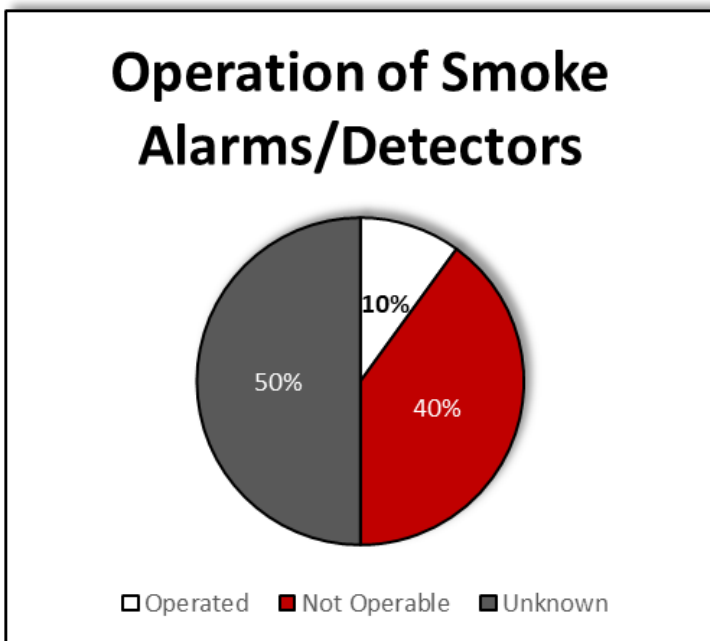
Smoke alarms detect smoke and provide early notification to building occupants, potentially reducing the loss of life in fires. Approximately 70% of the reported fire fatalities occurred in locations where smoke alarms should be installed; however, no smoke alarms or detectors were located and reported. Fatalities that occurred in areas where smoke alarms are not required and would not normally be located (such as Motor Vehicles) are not included in this section of data.



Presence	#	%
Present	18	30%
Not Present	18	30%
Unknown	24	40%
<b>TOTAL</b>	<b>60</b>	<b>100%</b>

Power Source when Present	#	%
Hard Wired	3	17%
Battery	9	50%
Both Battery & Hardwired	1	6%
Unknown	5	28%
<b>TOTAL</b>	<b>18</b>	<b>100%</b>

Ten percent of fire fatalities occurred in areas where smoke alarms or detectors should be installed and were found to be present and operational. In those fatalities, human factors, such as the individual was asleep, under the influence of drugs or alcohol, advanced age, or had physical or mental impairment, may have contributed to the individual not escaping the fire.

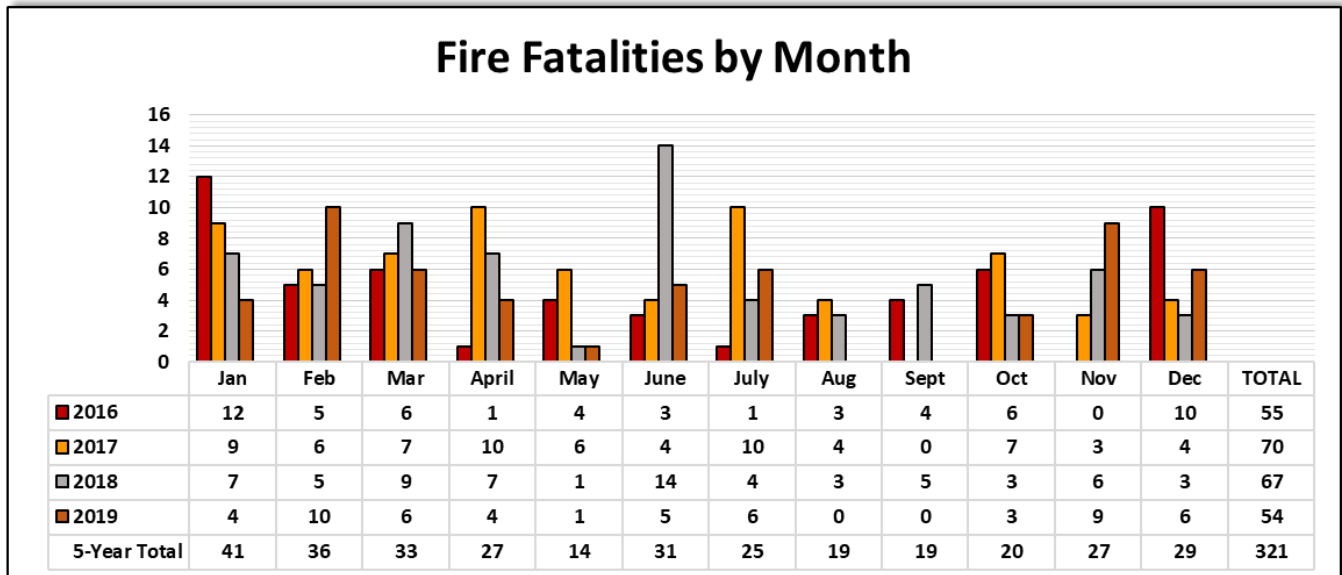


Operation	#	%
Operated	6	10%
Not Operable	24	40%
Unknown	30	50%
<b>TOTAL</b>	<b>60</b>	<b>100%</b>

## Fire Fatalities by Month

Over the last five years, 321 people have died in fires in Washington State. On average, more than five people die each month in fire incidents. Fire fatalities are usually higher in the winter months, particularly January and February.

June 2018 was the deadliest month in the past five years with 14 fire deaths in that month alone. August 2019, September 2017 and 2019, and November 2016 were the only months in the past five years with no fire fatalities reported.



## Fire Fatalities by County

The chart below provides the number of fire fatalities in each county for the past five years, as well as fire fatality rate by county, per 100,000 people for the past five years. From 2016 to 2020, Adams, Ferry, Garfield, Kittitas, Lincoln, Pend Oreille, San Juan, Wahkiakum, and Whitman counties have not reported any fire fatalities.

County	2016		2017		2018		2019		2020		5-Year Fatality Total
	# of Deaths	Rate	# of Deaths	Rate	# of Deaths	Rate	# of Deaths	Rate	# of Deaths	Rate	
Adams	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Asotin	0	0.0	1	4.5	0	0.0	1	4.4	0	0.0	2
Benton	2	1.0	1	0.5	4	2.0	2	1.0	5	2.4	14
Chelan	2	2.6	1	1.3	1	1.3	0	0.0	2	2.5	6
Clallam	0	0.0	0	0.0	1	1.3	1	1.3	0	0.0	2
Clark	2	0.4	3	0.6	2	0.4	1	0.2	5	1.0	13
Columbia	0	0.0	2	48.8	0	0.0	0	0.0	0	0.0	2
Cowlitz	1	1.0	1	0.9	0	0.0	0	0.0	1	0.9	3
Douglas	2	4.9	1	2.4	2	4.7	0	0.0	0	0.0	5
Ferry	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Franklin	0	0.0	1	1.1	0	0.0	0	0.0	1	1.0	2
Garfield	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Grant	0	0.0	2	2.1	1	1.0	2	2.0	2	2.0	7
Grays Harbor	0	0.0	2	2.7	4	5.4	1	1.3	2	2.7	9
Island	4	4.8	3	3.6	0	0.0	1	1.2	0	0.0	8
Jefferson	0	0.0	2	6.4	6	19.0	1	3.1	0	0.0	9
King	12	0.6	13	0.6	16	0.7	10	0.4	17	0.8	68
Kitsap	2	0.8	7	2.6	5	1.9	2	0.7	0	0.0	16
Kittitas	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Klickitat	1	4.7	0	0.0	0	0.0	0	0.0	1	4.4	2
Lewis	4	5.2	4	5.2	0	0.0	2	2.5	1	1.2	11
Lincoln	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Mason	0	0.0	0	0.0	1	1.6	1	1.5	1	1.5	3
Okanogan	1	2.4	0	0.0	0	0.0	0	0.0	4	9.3	5
Pacific	1	4.7	2	9.4	1	4.7	1	4.6	1	4.6	6
Pend Oreille	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Pierce	7	0.8	6	0.7	5	0.6	4	0.5	6	0.7	28
San Juan	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Skagit	1	0.8	3	2.4	3	2.4	3	2.3	2	1.5	12
Skamania	0	0.0	0	0.0	1	8.4	0	0.0	0	0.0	1
Snohomish	4	0.5	6	0.8	3	0.4	8	1.0	9	1.1	30
Spokane	5	1.0	2	0.4	7	1.4	1	0.2	4	0.8	19
Stevens	2	4.5	1	2.2	0	0.0	0	0.0	0	0.0	3
Thurston	1	0.4	1	0.4	1	0.4	3	1.0	5	1.7	11
Wahkiakum	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Walla Walla	0	0.0	0	0.0	0	0.0	2	3.2	0	0.0	2
Whatcom	0	0.0	2	0.9	0	0.0	6	2.7	2	0.9	10
Whitman	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Yakima	1	0.4	3	1.2	3	1.2	1	0.4	4	1.5	12
<b>STATE TOTAL</b>	<b>55</b>	<b>0.8</b>	<b>70</b>	<b>1.0</b>	<b>67</b>	<b>0.9</b>	<b>54</b>	<b>0.7</b>	<b>75</b>	<b>1.0</b>	<b>321</b>

## 2020 REGIONAL REPORTS

### Region 1

Region 1 is comprised of Clallam, Jefferson, Kitsap, and Mason counties. In 2020, 91% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,236	1,280	1,556	1,311	1,244	6,627
Dollar Loss	\$8,620,647	\$9,794,726	\$10,717,356	\$10,749,893	\$12,090,599	\$51,973,221
<b>Service Calls</b>						
# of Incidents	6,096	6,401	7,450	6,889	6,219	33,055
Dollar Loss	\$195,000	\$41,500	\$0	\$82,500	\$3,600	\$322,600
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	37,636	40,114	48,645	51,928	50,154	228,477
Dollar Loss	\$0	\$19,000	\$80,100	\$92,000	\$0	\$191,100
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	1,397	1,323	1,340	1,209	1,288	6,557
Dollar Loss	\$1,000	\$51,000	\$33,500	\$26,300	\$5,010	\$116,810
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	54	80	72	70	45	321
Dollar Loss	\$0	\$0	\$0	\$20,900	\$1,500	\$22,400
<b>False Alarms and False Calls</b>						
# of Incidents	2,712	2,685	2,843	3,117	3,174	14,531
Dollar Loss	\$0	\$0	\$10,000	\$0	\$0	\$10,000
<b>Other Types of Incidents</b>						
# of Incidents	207	350	302	573	548	1,980
Dollar Loss	\$500	\$0	\$0	\$0	\$12,000	\$12,500
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	113	69	151	112	53	498
Dollar Loss	\$0	\$0	\$0	\$0	\$15,000	\$15,000
<b>Good Intent Calls</b>						
# of Incidents	4,492	4,893	5,968	6,083	6,832	28,268
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>53,943</b>	<b>57,195</b>	<b>68,327</b>	<b>71,292</b>	<b>69,557</b>	<b>320,314</b>
<b>Total Dollar Loss</b>	<b>\$8,817,147</b>	<b>\$9,906,226</b>	<b>\$10,840,956</b>	<b>\$10,971,593</b>	<b>\$12,127,709</b>	<b>\$52,663,631</b>

### Region 1 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 6,627 fire incidents, resulting in nearly \$52 million in property and content loss, have been reported by fire service agencies in Region 1. **Structure Fires (including Confined Fires)** accounted for 35% of the five-year total and 90% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	471	480	511	453	387	2,302
Dollar Loss	\$7,950,418	\$9,325,911	\$9,458,836	\$9,120,780	\$10,671,661	\$46,527,606
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	171	161	202	234	204	972
Dollar Loss	\$456,113	\$393,728	\$791,920	\$1,060,044	\$1,142,284	\$3,844,089
<b>Fixed Mobile Property Fires</b>						
# of Incidents	23	29	36	23	29	140
Dollar Loss	\$143,384	\$54,745	\$121,300	\$287,000	\$179,125	\$785,554
<b>Natural Vegetation Fires</b>						
# of Incidents	359	395	513	347	373	1,987
Dollar Loss	\$25,201	\$3,502	\$216,120	\$105,771	\$42,474	\$393,068
<b>Fire, Other</b>						
# of Incidents	81	81	116	80	101	459
Dollar Loss	\$23,921	\$13,040	\$22,200	\$146,058	\$34,235	\$239,454
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	32	30	48	37	28	175
Dollar Loss	\$16,100	\$2,550	\$103,130	\$27,255	\$17,070	\$166,105
<b>Outside Rubbish Fires</b>						
# of Incidents	96	103	129	134	121	583
Dollar Loss	\$5,210	\$1,250	\$3,850	\$2,985	\$3,750	\$17,045
<b>Cultivated Vegetation Fires</b>						
# of Incidents	3	1	1	3	1	9
Dollar Loss	\$300	\$0	\$0	\$0	\$0	\$300
<b>Total # of Incidents</b>	<b>1,236</b>	<b>1,280</b>	<b>1,556</b>	<b>1,311</b>	<b>1,244</b>	<b>6,627</b>
<b>Total Dollar Loss</b>	<b>\$8,620,647</b>	<b>\$9,794,726</b>	<b>\$10,717,356</b>	<b>\$10,749,893</b>	<b>\$12,090,599</b>	<b>\$51,973,221</b>



### Region 1 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 2,302 structure fire incidents, resulting in more than \$46 million in property and content loss, have been reported by fire service agencies in Region 1. **Building Fires** accounted for 48% of the five-year total and 99% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	216	235	249	219	194	1,113
Dollar Loss	\$7,938,803	\$9,271,841	\$9,281,685	\$9,004,103	\$10,500,666	\$45,997,098
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	19	15	19	18	18	89
Dollar Loss	\$650	\$22,320	\$147,100	\$36,720	\$152,150	\$358,940
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	102	78	92	89	64	425
Dollar Loss	\$3,400	\$18,500	\$13,551	\$64,607	\$11,445	\$111,503
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	73	88	78	86	78	403
Dollar Loss	\$3,565	\$8,200	\$500	\$14,600	\$5,000	\$31,865
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	4	4	5	5	1	19
Dollar Loss	\$2,500	\$5,000	\$11,000	\$0	\$1,000	\$19,500
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	55	59	68	36	32	250
Dollar Loss	\$1,500	\$50	\$5,000	\$750	\$1,400	\$8,700
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	2	1	0	0	0	3
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>471</b>	<b>480</b>	<b>511</b>	<b>453</b>	<b>387</b>	<b>2,302</b>
<b>Total Dollar Loss</b>	<b>\$7,950,418</b>	<b>\$9,325,911</b>	<b>\$9,458,836</b>	<b>\$9,120,780</b>	<b>\$10,671,661</b>	<b>\$46,527,606</b>

### Region 1 Fires by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 3,280 fire incidents in **Residential** properties, resulting in more than \$43 million in property and content loss, have been reported by fire service agencies in Region 1. **Residential** fires accounted for 49% of the five-year total and 84% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	628	629	746	667	610	3,280
Dollar Loss	\$7,050,209	\$8,909,513	\$9,540,036	\$9,584,030	\$8,701,434	\$43,785,222
<b>Outside or Special Properties</b>						
# of Incidents	430	462	581	441	439	2,353
Dollar Loss	\$428,938	\$346,038	\$588,800	\$786,860	\$597,193	\$2,747,829
<b>Mercantile and Business</b>						
# of Incidents	46	59	63	57	50	275
Dollar Loss	\$104,825	\$274,690	\$92,020	\$101,603	\$2,036,450	\$2,609,588
<b>Storage</b>						
# of Incidents	32	26	40	33	42	173
Dollar Loss	\$576,225	\$218,920	\$329,600	\$148,700	\$658,700	\$1,932,145
<b>Assembly</b>						
# of Incidents	35	25	32	32	29	153
Dollar Loss	\$401,500	\$4,520	\$56,900	\$33,200	\$46,122	\$542,242
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	5	13	13	10	10	51
Dollar Loss	\$40,000	\$4,525	\$100,000	\$500	\$2,550	\$147,575
<b>Educational Uses</b>						
# of Incidents	9	14	14	13	3	53
Dollar Loss	\$17,500	\$10,020	\$6,000	\$43,000	\$0	\$76,520
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	16	23	31	29	38	137
Dollar Loss	\$350	\$22,000	\$4,000	\$500	\$41,000	\$67,850
<b>Manufacturing and Processing</b>						
# of Incidents	11	5	5	6	6	33
Dollar Loss	\$0	\$0	\$0	\$50,000	\$0	\$50,000
<b>Other Property Uses</b>						
# of Incidents	18	13	18	9	10	68
Dollar Loss	\$0	\$4,500	\$0	\$0	\$2,000	\$6,500
<b>None</b>						
# of Incidents	2	5	3	4	3	17
Dollar Loss	\$1,100	\$0	\$0	\$0	\$5,000	\$6,100
<b>Undetermined</b>						
# of Incidents	4	6	10	10	4	34
Dollar Loss	\$0	\$0	\$0	\$1,500	\$150	\$1,650
<b>Total # of Incidents</b>	<b>1,236</b>	<b>1,280</b>	<b>1,556</b>	<b>1,311</b>	<b>1,244</b>	<b>6,627</b>
<b>Total Dollar Loss</b>	<b>\$8,620,647</b>	<b>\$9,794,726</b>	<b>\$10,717,356</b>	<b>\$10,749,893</b>	<b>\$12,090,599</b>	<b>\$51,973,221</b>

## Region 1 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 854 fire incidents in the **Functional Areas** of a building, resulting in more than \$11 million in property and content loss, have been reported by fire service agencies in Region 1. **Functional Areas** fires accounted for 13% of the five-year total and 23% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	178	172	188	163	153	854
Dollar Loss	\$1,764,827	\$1,649,376	\$1,921,899	\$2,488,550	\$3,872,260	\$11,696,912
<b>Storage Areas</b>						
# of Incidents	64	47	71	70	42	294
Dollar Loss	\$1,580,787	\$2,686,676	\$2,071,500	\$2,023,188	\$725,520	\$9,087,671
<b>Undetermined</b>						
# of Incidents	107	113	133	90	123	566
Dollar Loss	\$1,862,098	\$2,191,080	\$2,277,640	\$1,204,330	\$1,043,394	\$8,578,542
<b>Structural Areas</b>						
# of Incidents	71	68	76	80	58	353
Dollar Loss	\$1,519,464	\$713,885	\$2,583,246	\$1,009,070	\$1,777,920	\$7,603,585
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	13	22	31	20	31	117
Dollar Loss	\$741,012	\$1,008,339	\$578,200	\$1,977,000	\$2,627,990	\$6,932,541
<b>Vehicle Areas</b>						
# of Incidents	153	147	176	194	163	833
Dollar Loss	\$543,553	\$449,728	\$555,120	\$1,017,414	\$686,144	\$3,251,959
<b>Service or Equipment Areas</b>						
# of Incidents	31	39	33	37	31	171
Dollar Loss	\$278,050	\$413,000	\$165,000	\$709,950	\$307,730	\$1,873,730
<b>Outside Areas</b>						
# of Incidents	413	370	454	317	292	1,846
Dollar Loss	\$113,000	\$563,650	\$133,230	\$155,221	\$453,320	\$1,418,421
<b>Other Areas of Origin</b>						
# of Incidents	79	102	81	73	76	411
Dollar Loss	\$111,630	\$78,820	\$50,300	\$4,428	\$351,356	\$596,534
<b>(Blank)</b>						
# of Inc	115	188	295	260	259	1,117
Dollar Loss	\$28,976	\$13,152	\$240,021	\$154,742	\$20,465	\$457,356
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	10	10	17	6	14	57
Dollar Loss	\$2,250	\$7,020	\$141,200	\$6,000	\$224,500	\$380,970
<b>Technical Processing Areas</b>						
# of Incidents	2	2	1	1	2	8
Dollar Loss	\$75,000	\$20,000	\$0	\$0	\$0	\$95,000
<b>Total # of Incidents</b>	<b>1,236</b>	<b>1,280</b>	<b>1,556</b>	<b>1,311</b>	<b>1,244</b>	<b>6,627</b>
<b>Total Dollar Loss</b>	<b>\$8,620,647</b>	<b>\$9,794,726</b>	<b>\$10,717,356</b>	<b>\$10,749,893</b>	<b>\$12,090,599</b>	<b>\$51,973,221</b>

## Region 1 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,229 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$9 million in property and content loss, have been reported by fire service agencies in Region 1.

**Operating Equipment** fires accounted for 19% of the five-year total and 19% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	406	395	513	428	421	2,163
Dollar Loss	\$3,626,684	\$5,552,292	\$5,834,336	\$5,122,760	\$7,493,411	\$27,629,483
<b>Operating Equipment</b>						
# of Incidents	255	251	274	229	220	1,229
Dollar Loss	\$1,983,252	\$1,822,137	\$1,756,973	\$2,316,575	\$1,819,003	\$9,697,940
<b>Open Flame or Smoking Material</b>						
# of Incidents	159	145	154	97	82	637
Dollar Loss	\$968,200	\$807,726	\$341,550	\$2,102,181	\$361,340	\$4,580,997
<b>Hot or Smoldering Object</b>						
# of Incidents	129	141	143	108	104	625
Dollar Loss	\$396,550	\$541,616	\$1,126,336	\$573,200	\$661,400	\$3,299,102
<b>Heat Source Other</b>						
# of Incidents	76	80	89	83	84	412
Dollar Loss	\$199,500	\$311,590	\$446,000	\$147,100	\$1,272,900	\$2,377,090
<b>Heat Spread from Another Fire</b>						
# of Incidents	58	41	38	52	37	226
Dollar Loss	\$832,485	\$524,143	\$568,340	\$133,800	\$272,350	\$2,331,118
<b>Explosives and Fireworks</b>						
# of Incidents	17	18	24	25	20	104
Dollar Loss	\$550,000	\$20,000	\$2,800	\$183,535	\$164,830	\$921,165
<b>Chemical or Natural</b>						
# of Incidents	18	19	23	24	17	101
Dollar Loss	\$20,000	\$202,070	\$401,000	\$15,500	\$24,900	\$663,470
<b>(blank)</b>						
# of Incidents	115	188	295	260	259	1,117
Dollar Loss	\$28,976	\$13,152	\$240,021	\$154,742	\$20,465	\$457,356
<b>Multiple Heat Sources</b>						
# of Incidents	3	2	3	5	0	13
Dollar Loss	\$15,000	\$0	\$0	\$500	\$0	\$15,500
<b>Total # of Incidents</b>	<b>1,236</b>	<b>1,280</b>	<b>1,556</b>	<b>1,311</b>	<b>1,244</b>	<b>6,627</b>
<b>Total Dollar Loss</b>	<b>\$8,620,647</b>	<b>\$9,794,726</b>	<b>\$10,717,356</b>	<b>\$10,749,893</b>	<b>\$12,090,599</b>	<b>\$51,973,221</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 1 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 1,833 fire incidents with an **Unknown** cause of ignition, resulting in more than \$19 million in property and content loss, have been reported by fire service agencies in Region 1. **Unknown** ignition caused fires accounted for 28% of the five-year total and 38% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	246	328	480	388	391	1,833
Dollar Loss	\$2,151,005	\$4,082,369	\$3,757,739	\$4,427,260	\$5,215,003	\$19,633,376
<b>Other Unintentional, Careless</b>						
# of Incidents	136	156	171	137	139	739
Dollar Loss	\$1,069,108	\$1,809,983	\$1,303,237	\$359,800	\$2,024,289	\$6,566,417
<b>Open Flame</b>						
# of Incidents	75	71	84	56	62	348
Dollar Loss	\$571,250	\$632,801	\$377,800	\$1,896,065	\$518,050	\$3,995,966
<b>Electrical Malfunction</b>						
# of Incidents	75	89	100	60	66	390
Dollar Loss	\$956,189	\$568,087	\$799,830	\$1,169,058	\$246,361	\$3,739,525
<b>Appliances</b>						
# of Incidents	24	14	19	21	28	106
Dollar Loss	\$400,217	\$361,900	\$692,000	\$263,900	\$1,373,190	\$3,091,207
<b>Other Heat</b>						
# of Incidents	58	73	71	63	56	321
Dollar Loss	\$896,250	\$190,300	\$330,780	\$665,780	\$698,985	\$2,782,095
<b>Heating</b>						
# of Incidents	90	122	113	110	104	539
Dollar Loss	\$79,615	\$378,520	\$989,696	\$171,500	\$531,150	\$2,150,481
<b>Cooking</b>						
# of Incidents	120	94	114	107	86	521
Dollar Loss	\$484,520	\$143,575	\$84,001	\$444,812	\$724,165	\$1,881,073
<b>Exposure</b>						
# of Incidents	28	8	15	23	13	87
Dollar Loss	\$723,040	\$317,500	\$531,900	\$84,920	\$160,550	\$1,817,910
<b>Investigation with Arson Module</b>						
# of Incidents	28	13	32	20	9	102
Dollar Loss	\$233,980	\$76,150	\$527,300	\$430,650	\$100,000	\$1,368,080

**Region 1 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Intentional</b>						
# of Incidents	194	141	186	155	169	845
Dollar Loss	\$70,120	\$310,196	\$439,900	\$265,000	\$24,885	\$1,110,101
<b>Other Equipment</b>						
# of Incidents	9	12	7	7	8	43
Dollar Loss	\$338,628	\$416,195	\$48,500	\$54,500	\$231,375	\$1,089,198
<b>Equipment Misoperation, Failure</b>						
# of Incidents	71	71	77	89	55	363
Dollar Loss	\$111,525	\$112,560	\$255,073	\$370,047	\$181,692	\$1,030,897
<b>Natural</b>						
# of Incidents	39	34	49	46	39	207
Dollar Loss	\$20,000	\$203,570	\$526,000	\$88,500	\$55,904	\$893,974
<b>Smoking</b>						
# of Incidents	40	47	28	24	17	156
Dollar Loss	\$515,200	\$191,020	\$53,500	\$36,101	\$5,000	\$800,821
<b>Playing with Heat Source</b>						
# of Incidents	3	7	10	5	2	27
Dollar Loss	\$0	\$0	\$100	\$22,000	\$0	\$22,100
<b>Total # of Incidents</b>	<b>1,236</b>	<b>1,280</b>	<b>1,556</b>	<b>1,311</b>	<b>1,244</b>	<b>6,627</b>
<b>Total Dollar Loss</b>	<b>\$8,620,647</b>	<b>\$9,794,726</b>	<b>\$10,717,356</b>	<b>\$10,749,893</b>	<b>\$12,090,599</b>	<b>\$51,973,221</b>

## Region 1 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 1.

REGION 1 2020 REPORTING SUMMARY							
% of Region Reporting = 91%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Clallam</b>	<b>% of County Reporting = 89%</b>	<b>14,664</b>	<b>0</b>	<b>110</b>	<b>3</b>	<b>14,777</b>	<b>\$ 323,200</b>
05D01	Clallam #1, Forks	162	0	2	0	164	\$ 107,000
05D02	Clallam #2, Clallam 2 Fire-Rescue	1,771	0	86	0	1,857	\$ -
05D03	Clallam #3, Sequim	7,579	0	5	0	7,584	\$ -
05D04	Clallam #4, Joyce	96	0	8	0	104	\$ -
05D05	Clallam #5, Clallam Bay/Sekiu	185	0	0	0	185	\$ -
05D06	Clallam #6, Three Rivers	18	0	7	2	27	\$ -
05M03	Port Angeles Fire Dept	4,828	0	2	0	4,830	\$ 200,000
05S03	Quileute Fire Dept	0	0	0	0	0	\$ -
05X01	Neah Bay Volunteer Fire Dept	25	0	0	1	26	\$ 16,200
<b>Jefferson</b>	<b>% of County Reporting = 83%</b>	<b>5,879</b>	<b>0</b>	<b>601</b>	<b>0</b>	<b>6,480</b>	<b>\$ 1,921,956</b>
16D01	Jefferson #1, E. Jefferson Fire-Rescue	4,325	0	91	0	4,416	\$ 1,660,906
16D02	Jefferson #2, Quilcene	315	0	169	0	484	\$ 80,000
16D03	Jefferson #3, Port Ludlow Fire & Rescue	726	0	186	0	912	\$ 178,050
16D04	Jefferson #4, Brinnon	437	0	141	0	578	\$ 3,000
16D05	Jefferson #5, Discovery Bay	76	0	14	0	90	\$ -
16D07	Jefferson #7, Clearwater	0	0	0	0	0	\$ -
<b>Kitsap</b>	<b>% of County Reporting = 100%</b>	<b>37,910</b>	<b>9</b>	<b>1,607</b>	<b>0</b>	<b>39,526</b>	<b>\$ 8,751,588</b>
18D01	Kitsap #1, Central Kitsap Fire & Rescue	8,830	0	363	0	9,193	\$ 3,120,292
18D02	Kitsap #2, Bainbridge Island Fire Dept	2,871	0	51	0	2,922	\$ 765,000
18D07	Kitsap #7, South Kitsap Fire & Rescue	10,995	9	168	0	11,172	\$ 2,511,444
18D10	Kitsap #10, North Kitsap Fire & Rescue	3,027	0	144	0	3,171	\$ 451,140
18M01	Bremerton Fire Department	8,449	0	539	0	8,988	\$ 1,343,362
18M04	Kitsap #18/Poulsbo FD	3,738	0	342	0	4,080	\$ 560,350
<b>Mason</b>	<b>% of County Reporting = 83%</b>	<b>11,104</b>	<b>0</b>	<b>3,474</b>	<b>13</b>	<b>14,591</b>	<b>\$ 1,130,965</b>
23D01	Mason #1, Hoodspout	0	0	0	0	0	\$ -
23D02	North Mason Regional Fire Authority	1,728	0	21	0	1,749	\$ 100,000
23D03	Mason #3, Grapeview	449	0	271	0	720	\$ -
23D04	Mason #4, Arcadia/Kamilche	790	0	53	0	843	\$ -
23D05	Mason #5, Central Mason Fire & EMS	6,130	0	2,219	0	8,349	\$ 1,030,965
23D06	Mason #6, Union	301	0	125	0	426	\$ -
23D11	Mason #11	483	0	447	0	930	\$ -
23D12	Mason #12	0	0	0	4	4	\$ -
23D13	Mason #13	0	0	0	0	0	\$ -
23D16	Mason #16, W. Mason Fire	700	0	119	0	819	\$ -
23D17	Mason #17, Lilliwaup/Eldon	129	0	21	9	159	\$ -
23D18	Mason #18, Lake Cushman	394	0	198	0	592	\$ -
<b>REGION 1 TOTALS</b>		<b>69,557</b>	<b>9</b>	<b>5,792</b>	<b>16</b>	<b>75,374</b>	<b>\$ 12,127,709</b>

## Region 2

Region 2 is comprised of Grays Harbor, Pacific, and Thurston counties. In 2020, 70% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,230	1,396	1,549	1,414	1,493	7,082
Dollar Loss	\$7,076,678	\$7,184,098	\$9,007,059	\$10,134,004	\$12,247,436	\$45,649,275
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	34,688	40,286	45,123	48,600	49,338	218,035
Dollar Loss	\$16,500	\$108,900	\$0	\$40,000	\$0	\$165,400
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	649	749	632	813	700	3,543
Dollar Loss	\$5,700	\$100	\$19,500	\$75,750	\$2,000	\$103,050
<b>False Alarms and False Calls</b>						
# of Incidents	2,114	2,214	2,344	2,477	2,521	11,670
Dollar Loss	\$0	\$77,000	\$0	\$0	\$0	\$77,000
<b>Service Calls</b>						
# of Incidents	3,051	3,649	3,963	4,281	4,816	19,760
Dollar Loss	\$30,000	\$0	\$0	\$2,001	\$17,100	\$49,101
<b>Good Intent Calls</b>						
# of Incidents	4,150	4,961	5,482	6,237	6,573	27,403
Dollar Loss	\$150	\$0	\$0	\$0	\$0	\$150
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	21	29	19	32	38	139
Dollar Loss	\$0	\$100	\$0	\$0	\$0	\$100
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	6	20	21	17	26	90
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Other Types of Incidents</b>						
# of Incidents	65	100	101	80	303	649
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>45,974</b>	<b>53,404</b>	<b>59,234</b>	<b>63,951</b>	<b>65,808</b>	<b>288,371</b>
<b>Total Dollar Loss</b>	<b>\$7,129,028</b>	<b>\$7,370,198</b>	<b>\$9,026,559</b>	<b>\$10,251,755</b>	<b>\$12,266,536</b>	<b>\$46,044,076</b>



## Region 2 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 7,082 fire incidents, resulting in more than \$45 million in property and content loss, have been reported by fire service agencies in Region 2. **Structure Fires (including Confined Fires)** accounted for 35% of the five-year total and 91% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	452	460	526	496	537	2,471
Dollar Loss	\$6,330,443	\$6,772,629	\$8,307,198	\$9,415,097	\$10,601,497	\$41,426,864
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	165	178	178	164	186	871
Dollar Loss	\$458,700	\$310,315	\$454,650	\$396,971	\$1,360,997	\$2,981,633
<b>Fixed Mobile Property Fires</b>						
# of Incidents	24	18	28	30	37	137
Dollar Loss	\$245,400	\$52,500	\$190,000	\$309,662	\$222,975	\$1,020,537
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	25	41	39	69	71	245
Dollar Loss	\$26,880	\$7,001	\$24,590	\$5,652	\$35,289	\$99,412
<b>Natural Vegetation Fires</b>						
# of Incidents	371	439	512	433	416	2,171
Dollar Loss	\$13,350	\$8,553	\$24,181	\$342	\$4,856	\$51,282
<b>Fire, Other</b>						
# of Incidents	64	82	63	53	62	324
Dollar Loss	\$1,355	\$28,200	\$100	\$3,250	\$18,100	\$51,005
<b>Outside Rubbish Fires</b>						
# of Incidents	126	175	198	167	183	849
Dollar Loss	\$550	\$4,900	\$6,340	\$3,030	\$3,722	\$18,542
<b>Cultivated Vegetation Fires</b>						
# of Incidents	3	3	5	2	1	14
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>1,230</b>	<b>1,396</b>	<b>1,549</b>	<b>1,414</b>	<b>1,493</b>	<b>7,082</b>
<b>Total Dollar Loss</b>	<b>\$7,076,678</b>	<b>\$7,184,098</b>	<b>\$9,007,059</b>	<b>\$10,134,004</b>	<b>\$12,247,436</b>	<b>\$45,649,275</b>

## Region 2 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 2,471 structure fire incidents, resulting in more than \$41 million in property and content loss, have been reported by fire service agencies in Region 2. **Building Fires** accounted for 49% of the five-year total and 99% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	208	216	268	251	257	1,200
Dollar Loss	\$6,274,031	\$6,687,869	\$8,253,567	\$9,390,817	\$10,564,420	\$41,170,704
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	16	12	11	11	14	64
Dollar Loss	\$45,100	\$54,850	\$1,000	\$3,500	\$21,000	\$125,450
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	91	60	82	80	94	407
Dollar Loss	\$5,612	\$17,060	\$29,110	\$20,280	\$14,555	\$86,617
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	60	92	95	77	99	423
Dollar Loss	\$3,700	\$11,850	\$16,622	\$0	\$20	\$32,192
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	0	4	1	2	0	7
Dollar Loss	\$0	\$0	\$4,999	\$0	\$0	\$4,999
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	72	72	64	72	67	347
Dollar Loss	\$1,000	\$1,000	\$1,500	\$500	\$2	\$4,002
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	4	4	5	3	4	20
Dollar Loss	\$1,000	\$0	\$400	\$0	\$1,500	\$2,900
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	1	0	0	0	2	3
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>452</b>	<b>460</b>	<b>526</b>	<b>496</b>	<b>537</b>	<b>2,471</b>
<b>Total Dollar Loss</b>	<b>\$6,330,443</b>	<b>\$6,772,629</b>	<b>\$8,307,198</b>	<b>\$9,415,097</b>	<b>\$10,601,497</b>	<b>\$41,426,864</b>

## Region 2 Fires by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 3,149 fire incidents in **Residential** properties, resulting in more than \$33 million in property and content loss, have been reported by fire service agencies in Region 2. **Residential** fires accounted for 44% of the five-year total and 73% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	576	614	661	618	680	3,149
Dollar Loss	\$5,391,498	\$5,447,591	\$6,297,914	\$8,638,227	\$7,645,822	\$33,421,052
<b>Manufacturing and Processing</b>						
# of Incidents	8	18	12	8	4	50
Dollar Loss	\$1,001,600	\$517,500	\$29,999	\$10,000	\$2,000,000	\$3,559,099
<b>Outside or Special Properties</b>						
# of Incidents	476	589	688	595	662	3,010
Dollar Loss	\$279,100	\$344,929	\$496,240	\$312,193	\$1,338,847	\$2,771,309
<b>Assembly</b>						
# of Incidents	39	26	40	30	25	160
Dollar Loss	\$8,030	\$31,270	\$1,636,525	\$458,513	\$358,002	\$2,492,340
<b>Storage</b>						
# of Incidents	28	27	27	36	35	153
Dollar Loss	\$227,200	\$660,400	\$68,150	\$339,250	\$287,700	\$1,582,700
<b>Mercantile and Business</b>						
# of Incidents	49	62	62	58	42	273
Dollar Loss	\$73,750	\$104,405	\$443,510	\$365,271	\$545,565	\$1,532,501
<b>Undetermined</b>						
# of Incidents	4	5	1	5	2	17
Dollar Loss	\$71,000	\$2	\$0	\$0	\$0	\$71,002
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	12	11	6	6	2	37
Dollar Loss	\$11,500	\$46,500	\$12,700	\$0	\$100	\$70,800
<b>None</b>						
# of Incidents	8	5	6	3	3	25
Dollar Loss	\$0	\$500	\$0	\$0	\$70,000	\$70,500
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	20	20	31	36	21	128
Dollar Loss	\$13,000	\$16,001	\$3,001	\$0	\$1,200	\$33,202
<b>Other Property Uses</b>						
# of Incidents	7	14	6	9	9	45
Dollar Loss	\$0	\$15,000	\$12,000	\$0	\$0	\$27,000
<b>Educational Uses</b>						
# of Incidents	3	5	9	10	8	35
Dollar Loss	\$0	\$0	\$7,020	\$10,550	\$200	\$17,770
<b>Total # of Incidents</b>	<b>1,230</b>	<b>1,396</b>	<b>1,549</b>	<b>1,414</b>	<b>1,493</b>	<b>7,082</b>
<b>Total Dollar Loss</b>	<b>\$7,076,678</b>	<b>\$7,184,098</b>	<b>\$9,007,059</b>	<b>\$10,134,004</b>	<b>\$12,247,436</b>	<b>\$45,649,275</b>

## Region 2 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 814 fire incidents in the **Functional Areas** of a building, resulting in more than \$11 million in property and content loss, have been reported by fire service agencies in Region 2. **Functional Areas** fires accounted for 11% of the five-year total and 25% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	144	145	179	148	198	814
Dollar Loss	\$1,450,692	\$1,978,501	\$2,067,337	\$1,935,773	\$3,827,779	\$11,260,082
<b>Structural Areas</b>						
# of Incidents	70	86	70	71	70	367
Dollar Loss	\$1,092,869	\$1,745,453	\$849,040	\$2,192,400	\$1,641,615	\$7,521,377
<b>Undetermined</b>						
# of Incidents	96	151	190	172	140	749
Dollar Loss	\$1,394,730	\$247,250	\$2,286,450	\$1,226,000	\$1,613,900	\$6,768,330
<b>Storage Areas</b>						
# of Incidents	50	57	48	56	43	254
Dollar Loss	\$1,079,200	\$1,634,100	\$1,204,000	\$582,592	\$639,700	\$5,139,592
<b>Service or Equipment Areas</b>						
# of Incidents	30	37	30	36	28	161
Dollar Loss	\$278,450	\$670,500	\$36,399	\$425,500	\$2,002,000	\$3,412,849
<b>Outside Areas</b>						
# of Incidents	316	388	455	423	441	2,023
Dollar Loss	\$296,300	\$146,876	\$312,860	\$1,398,095	\$984,163	\$3,138,294
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	15	15	30	14	23	97
Dollar Loss	\$385,325	\$426,600	\$1,130,800	\$720,800	\$270,000	\$2,933,525
<b>Vehicle Areas</b>						
# of Incidents	148	149	151	142	168	758
Dollar Loss	\$519,500	\$243,665	\$448,200	\$582,970	\$650,839	\$2,445,174
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	24	9	19	24	14	90
Dollar Loss	\$548,500	\$45,750	\$497,300	\$888,632	\$296,800	\$2,276,982
<b>Other Areas of Origin</b>						
# of Incidents	66	52	64	65	72	319
Dollar Loss	\$2,000	\$0	\$131,700	\$173,500	\$277,100	\$584,300
<b>(Blank)</b>						
# of Inc	269	305	312	260	294	1,440
Dollar Loss	\$18,112	\$38,403	\$42,973	\$7,242	\$43,540	\$150,270
<b>Technical Processing Areas</b>						
# of Incidents	2	2	1	3	2	10
Dollar Loss	\$11,000	\$7,000	\$0	\$500	\$0	\$18,500
<b>Total # of Incidents</b>	<b>1,230</b>	<b>1,396</b>	<b>1,549</b>	<b>1,414</b>	<b>1,493</b>	<b>7,082</b>
<b>Total Dollar Loss</b>	<b>\$7,076,678</b>	<b>\$7,184,098</b>	<b>\$9,007,059</b>	<b>\$10,134,004</b>	<b>\$12,247,436</b>	<b>\$45,649,275</b>

## Region 2 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,035 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$13 million in property and content loss, have been reported by fire service agencies in Region 2. **Operating Equipment** fires accounted for 15% of the five-year total and 29% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	409	485	566	486	550	2,496
Dollar Loss	\$4,664,266	\$3,421,639	\$5,503,354	\$5,543,599	\$5,211,130	\$24,343,988
<b>Operating Equipment</b>						
# of Incidents	202	183	226	201	223	1,035
Dollar Loss	\$1,055,035	\$2,145,456	\$2,082,799	\$3,049,331	\$4,869,545	\$13,202,166
<b>Open Flame or Smoking Material</b>						
# of Incidents	144	158	159	171	136	768
Dollar Loss	\$398,790	\$441,351	\$143,250	\$182,700	\$1,111,602	\$2,277,693
<b>Hot or Smoldering Object</b>						
# of Incidents	97	124	136	151	141	649
Dollar Loss	\$377,600	\$119,260	\$923,410	\$355,580	\$91,200	\$1,867,050
<b>Heat Spread from Another Fire</b>						
# of Incidents	29	40	44	34	41	188
Dollar Loss	\$240,900	\$169,389	\$78,290	\$537,500	\$306,619	\$1,332,698
<b>Chemical or Natural</b>						
# of Incidents	6	9	8	17	9	49
Dollar Loss	\$147,000	\$502,000	\$27,000	\$251,000	\$25,000	\$952,000
<b>Heat Source Other</b>						
# of Incidents	51	64	63	71	72	321
Dollar Loss	\$174,925	\$346,600	\$59,500	\$207,050	\$21,600	\$809,675
<b>Multiple Heat Sources</b>						
# of Incidents	1	1	2	2	5	11
Dollar Loss	\$0	\$0	\$0	\$0	\$550,000	\$550,000
<b>Explosives and Fireworks</b>						
# of Incidents	22	27	33	21	21	124
Dollar Loss	\$50	\$0	\$146,483	\$2	\$17,000	\$163,535
<b>(blank)</b>						
# of Incidents	269	305	312	260	295	1,441
Dollar Loss	\$18,112	\$38,403	\$42,973	\$7,242	\$43,740	\$150,470
<b>Total # of Incidents</b>	<b>1,230</b>	<b>1,396</b>	<b>1,549</b>	<b>1,414</b>	<b>1,493</b>	<b>7,082</b>
<b>Total Dollar Loss</b>	<b>\$7,076,678</b>	<b>\$7,184,098</b>	<b>\$9,007,059</b>	<b>\$10,134,004</b>	<b>\$12,247,436</b>	<b>\$45,649,275</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 2 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 2,297 fire incidents with an **Unknown** cause of ignition, resulting in more than \$13 million in property and content loss, have been reported by fire service agencies in Region 2. **Unknown** ignition caused fires accounted for 32% of the five-year total and 29% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	Grand Total
<b>Unknown</b>						
# of Incidents	392	493	516	421	475	2,297
Dollar Loss	\$1,890,225	\$2,184,130	\$2,684,073	\$2,097,342	\$4,593,868	\$13,449,638
<b>Equipment Misoperation, Failure</b>						
# of Incidents	80	78	83	73	73	387
Dollar Loss	\$342,980	\$409,425	\$78,299	\$979,150	\$3,030,537	\$4,840,391
<b>Intentional</b>						
# of Incidents	126	184	205	165	214	894
Dollar Loss	\$1,342,400	\$206,500	\$1,704,533	\$96,500	\$1,139,100	\$4,489,033
<b>Investigation with Arson Module</b>						
# of Incidents	16	12	21	18	16	83
Dollar Loss	\$470,470	\$369,912	\$1,165,300	\$1,869,746	\$366,360	\$4,241,788
<b>Other Unintentional, Careless</b>						
# of Incidents	160	165	227	181	185	918
Dollar Loss	\$651,228	\$924,128	\$746,854	\$845,112	\$348,700	\$3,516,022
<b>Electrical Malfunction</b>						
# of Incidents	71	69	65	75	71	351
Dollar Loss	\$673,955	\$519,500	\$923,700	\$865,851	\$220,750	\$3,203,756
<b>Heating</b>						
# of Incidents	80	96	92	94	91	453
Dollar Loss	\$168,500	\$945,000	\$456,150	\$682,000	\$402,067	\$2,653,717
<b>Cooking</b>						
# of Incidents	96	71	100	103	113	483
Dollar Loss	\$267,362	\$371,177	\$282,110	\$1,096,280	\$264,850	\$2,281,779
<b>Appliances</b>						
# of Incidents	23	15	21	12	38	109
Dollar Loss	\$281,450	\$219,000	\$238,000	\$136,650	\$1,127,800	\$2,002,900
<b>Open Flame</b>						
# of Incidents	54	66	83	96	59	358
Dollar Loss	\$305,008	\$16,500	\$487,250	\$114,430	\$504,452	\$1,427,640

**Region 2 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>Grand Total</b>
<b>Exposure</b>						
# of Incidents	4	9	7	17	14	51
Dollar Loss	\$95,000	\$181,500	\$8,540	\$916,793	\$10,100	\$1,211,933
<b>Natural</b>						
# of Incidents	32	26	24	27	23	132
Dollar Loss	\$169,000	\$502,250	\$29,000	\$191,000	\$86,752	\$978,002
<b>Other Heat</b>						
# of Incidents	49	65	68	88	84	354
Dollar Loss	\$208,500	\$103,312	\$127,450	\$77,650	\$90,000	\$606,912
<b>Smoking</b>						
# of Incidents	35	33	24	35	22	149
Dollar Loss	\$850	\$159,264	\$58,300	\$159,500	\$0	\$377,914
<b>Other Equipment</b>						
# of Incidents	4	8	9	6	9	36
Dollar Loss	\$149,400	\$43,500	\$17,500	\$6,000	\$17,100	\$233,500
<b>Playing with Heat Source</b>						
# of Incidents	8	6	4	3	6	27
Dollar Loss	\$60,350	\$29,000	\$0	\$0	\$45,000	\$134,350
<b>Total # of Incidents</b>	<b>1,230</b>	<b>1,396</b>	<b>1,549</b>	<b>1,414</b>	<b>1,493</b>	<b>7,082</b>
<b>Total Dollar Loss</b>	<b>\$7,076,678</b>	<b>\$7,184,098</b>	<b>\$9,007,059</b>	<b>\$10,134,004</b>	<b>\$12,247,436</b>	<b>\$45,649,275</b>

## Region 2 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 2.

REGION 2 2020 REPORTING SUMMARY							
% of Region Reporting = 70%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Grays Harbor</b>	<b>% of County Reporting = 67%</b>	<b>17,241</b>	<b>2</b>	<b>1,853</b>	<b>6</b>	<b>19,102</b>	<b>\$ 1,315,580</b>
14D01	Grays Harbor #1, Oakville	410	0	0	0	410	\$ -
14D02	Grays Harbor #2, Brady/Central Park	1,256	0	33	0	1,289	\$ 21,500
14D04	Grays Harbor #4, Quinault/Amanda Park	0	0	0	0	0	\$ -
14D05	Grays Harbor #5, Porter/Elma/Satsop	1,111	0	908	0	2,019	\$ 55,000
14D06	Grays Harbor #6, N. Hoquiam	0	0	0	0	0	\$ -
14D07	Grays Harbor #7, Copalis Beach/Ocean City	430	0	151	0	581	\$ -
14D08	Grays Harbor #8, Pacific Beach	5	0	2	0	7	\$ -
14D10	Grays Harbor #10, Wishkah/E. Hoquiam	7	0	3	6	16	\$ 35,000
14D12	Grays Harbor #12	0	0	0	0	0	\$ -
14D15	Grays Harbor #15, Arctic	0	0	0	0	0	\$ -
14D16	Grays Harbor #16, Copalis Crossing	0	0	0	0	0	\$ -
14D17	Grays Harbor #17, Humptulips/Axford	0	0	0	0	0	\$ -
14M01	Aberdeen Fire Dept	5,668	2	41	0	5,711	\$ 496,967
14M02	Cosmopolis Fire Dept	1	0	0	0	1	
14M03	Elma Fire Dept	165	0	36	0	201	\$ -
14M04	Hoquiam Fire Dept	2,871	0	456	0	3,327	\$ 417,111
14M05	McCleary Fire Dept	39	0	0	0	39	\$ -
14M06	Montesano Fire Dept	1,270	0	12	0	1,282	\$ -
14M08	Ocean Shores Fire Dept	2,359	0	211	0	2,570	\$ 2
14M09	South Beach Regional Fire Authority	1,649	0	0	0	1,649	\$ 290,000
14X01	Quinault Indian Nation Fire Dept	0	0	0	0	0	\$ -
<b>Pacific</b>	<b>% of County Reporting = 40%</b>	<b>3,966</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>3,985</b>	<b>\$ 273,372</b>
25D01	Pacific #1	2,355	0	14	0	2,369	\$ 80,972
25D02	Pacific #2, Chinook	0	0	0	0	0	\$ -
25D03	Pacific #3	43	0	3	0	46	\$ 104,300
25D04	Pacific #4, Naselle	0	0	0	0	0	\$ -
25D06	Pacific #6, Bay Center	0	0	0	0	0	\$ -
25D07	Pacific #7, Nemah	0	0	0	0	0	\$ -
25M01	Ilwaco Fire Dept	106	0	1	0	107	\$ 50,100
25M02	Long Beach Fire Dept	0	0	0	0	0	\$ -
25M03	Raymond Fire Dept	1,462	0	1	0	1,463	\$ 38,000
25M04	South Bend Fire Dept	0	0	0	0	0	\$ -
<b>Thurston</b>	<b>% of County Reporting = 100%</b>	<b>44,601</b>	<b>1</b>	<b>1,859</b>	<b>2</b>	<b>46,463</b>	<b>\$ 10,677,584</b>
34D01	West Thurston Regional Fire Authority	2,826	0	100	0	2,926	\$ 11,500
34D02	Southeast Thurston Fire Authority	3,603	0	21	0	3,624	\$ -
34D03	Thurston #3, Lacey Fire District 3	14,578	0	168	0	14,746	\$ 2,823,160
34D06	Thurston #6, E. Olympia	1,097	0	299	0	1,396	\$ 201,000
34D08	Thurston #8, South Bay Fire Dept	1,010	0	170	0	1,180	\$ -
34D09	Thurston #9, McLane Black Lake Fire Dept	1,620	0	535	0	2,155	\$ 985,000
34D12	Thurston #12, S. Thurston Fire & EMS	991	0	154	0	1,145	\$ 50,000
34D13	Thurston #13, Griffin	574	0	35	0	609	\$ -
34D17	Thurston #17, Bald Hills	556	1	30	0	587	\$ 112,480
34M01	Bucoda Volunteer Fire Dept	125	0	4	0	129	\$ -
34M02	Olympia Fire Dept	12,034	0	296	0	12,330	\$ 2,932,094
34M04	Tumwater Fire Department	5,587	0	47	2	5,636	\$ 3,562,350
<b>REGION 2 TOTALS</b>		<b>65,808</b>	<b>3</b>	<b>3,731</b>	<b>8</b>	<b>69,550</b>	<b>\$ 12,266,536</b>



### Region 3

Region 3 is comprised of Island, San Juan, Skagit, and Whatcom counties. In 2020, 91% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,120	1,063	1,443	1,610	1,545	<b>6,781</b>
Dollar Loss	\$11,884,328	\$5,804,092	\$13,282,004	\$16,501,629	\$10,484,227	<b>\$57,956,280</b>
<b>Service Calls</b>						
# of Incidents	3,064	3,266	3,811	3,443	3,586	<b>17,170</b>
Dollar Loss	\$12,500	\$45,000	\$40,000	\$145,000	\$0	<b>\$242,500</b>
<b>Other Types of Incidents</b>						
# of Incidents	257	337	371	412	382	<b>1,759</b>
Dollar Loss	\$0	\$0	\$1,500	\$185,000	\$0	<b>\$186,500</b>
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	25,585	25,102	38,851	47,849	47,102	<b>184,489</b>
Dollar Loss	\$10,050	\$5,000	\$25,300	\$0	\$69,500	<b>\$109,850</b>
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	1,147	950	1,251	1,205	1,510	<b>6,063</b>
Dollar Loss	\$26,500	\$1,500	\$650	\$1,050	\$5,800	<b>\$35,500</b>
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	177	127	157	54	122	<b>637</b>
Dollar Loss	\$0	\$0	\$0	\$0	\$30,000	<b>\$30,000</b>
<b>False Alarms and False Calls</b>						
# of Incidents	1,825	1,679	2,550	3,025	3,176	<b>12,255</b>
Dollar Loss	\$5,001	\$0	\$3,000	\$1,000	\$11,000	<b>\$20,001</b>
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	29	29	33	32	37	<b>160</b>
Dollar Loss	\$0	\$0	\$0	\$20	\$750	<b>\$770</b>
<b>Good Intent Calls</b>						
# of Incidents	2,387	2,358	3,537	5,961	5,850	<b>20,093</b>
Dollar Loss	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Total # of Incidents</b>	<b>35,591</b>	<b>34,911</b>	<b>52,004</b>	<b>63,591</b>	<b>63,310</b>	<b>249,407</b>
<b>Total Dollar Loss</b>	<b>\$11,938,379</b>	<b>\$5,855,592</b>	<b>\$13,352,454</b>	<b>\$16,833,699</b>	<b>\$10,601,277</b>	<b>\$58,581,401</b>

### Region 3 Fire Incidents by Type (Five-year total sorted by dollar loss)

Over the past five years, 6,781 fire incidents, resulting in nearly \$58 million in property and content loss, have been reported by fire service agencies in Region 3. **Structure Fires (including Confined Fires)** accounted for nearly 33% of the five-year total and 89% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	364	362	461	516	507	2,210
Dollar Loss	\$11,345,138	\$4,550,697	\$12,594,162	\$14,606,882	\$8,341,131	\$51,438,010
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	164	150	207	206	195	922
Dollar Loss	\$359,778	\$1,061,595	\$549,470	\$677,651	\$1,854,893	\$4,503,387
<b>Natural Vegetation Fires</b>						
# of Incidents	304	316	395	436	326	1,777
Dollar Loss	\$13,156	\$2,500	\$3,550	\$917,770	\$6,006	\$942,982
<b>Fixed Mobile Property Fires</b>						
# of Incidents	19	19	16	34	28	116
Dollar Loss	\$141,400	\$137,200	\$95,650	\$222,202	\$181,021	\$777,473
<b>Fire, Other</b>						
# of Incidents	64	73	84	81	74	376
Dollar Loss	\$10,600	\$40,600	\$19,110	\$49,020	\$60,801	\$180,131
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	30	32	45	49	51	207
Dollar Loss	\$13,350	\$5,800	\$0	\$21,602	\$33,725	\$74,477
<b>Outside Rubbish Fires</b>						
# of Incidents	168	106	230	284	356	1,144
Dollar Loss	\$904	\$5,700	\$20,062	\$6,502	\$4,650	\$37,818
<b>Cultivated Vegetation Fires</b>						
# of Incidents	7	5	5	4	8	29
Dollar Loss	\$2	\$0	\$0	\$0	\$2,000	\$2,002
<b>Total # of Incidents</b>	<b>1,120</b>	<b>1,063</b>	<b>1,443</b>	<b>1,610</b>	<b>1,545</b>	<b>6,781</b>
<b>Total Dollar Loss</b>	<b>\$11,884,328</b>	<b>\$5,804,092</b>	<b>\$13,282,004</b>	<b>\$16,501,629</b>	<b>\$10,484,227</b>	<b>\$57,956,280</b>

### Region 3 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 2,210 structure fire incidents, resulting in more than \$51 million in property and content loss, have been reported by fire service agencies in Region 3. **Building Fires** accounted for 50% of the five-year total and 96% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	195	178	217	274	251	1,115
Dollar Loss	\$9,779,759	\$4,529,947	\$12,555,044	\$14,517,167	\$8,036,651	\$49,418,568
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	12	10	12	12	10	56
Dollar Loss	\$1,510,002	\$12,500	\$3,650	\$43,400	\$258,053	\$1,827,605
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	55	51	118	100	124	448
Dollar Loss	\$6,550	\$4,750	\$26,918	\$41,363	\$21,876	\$101,457
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	1	0	2	1	3	7
Dollar Loss	\$37,000	\$0	\$5,000	\$0	\$5,000	\$47,000
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	62	76	62	64	48	312
Dollar Loss	\$8,550	\$2,000	\$1,200	\$2,502	\$7,500	\$21,752
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	36	40	46	58	63	243
Dollar Loss	\$3,277	\$1,500	\$1,550	\$2,450	\$12,051	\$20,828
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	3	6	4	6	6	25
Dollar Loss	\$0	\$0	\$800	\$0	\$0	\$800
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	0	1	0	1	2	4
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>364</b>	<b>362</b>	<b>461</b>	<b>516</b>	<b>507</b>	<b>2,210</b>
<b>Total Dollar Loss</b>	<b>\$11,345,138</b>	<b>\$4,550,697</b>	<b>\$12,594,162</b>	<b>\$14,606,882</b>	<b>\$8,341,131</b>	<b>\$51,438,010</b>

### Region 3 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 3,371 fire incidents in **Residential** properties, resulting in more than \$30 million in property and content loss, have been reported by fire service agencies in Region 3. **Residential** fires accounted for 50% of the five-year total and 53% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	Grand Total
<b>Residential</b>						
# of Incidents	539	515	709	823	785	3,371
Dollar Loss	\$2,932,823	\$4,020,442	\$4,117,734	\$13,223,263	\$6,218,755	\$30,513,017
<b>Mercantile and Business</b>						
# of Incidents	42	35	40	65	57	239
Dollar Loss	\$5,590,007	\$300,400	\$1,258,750	\$1,391,500	\$120,767	\$8,661,424
<b>Manufacturing and Processing</b>						
# of Incidents	9	14	8	15	12	58
Dollar Loss	\$957,003	\$4,000	\$6,509,000	\$952,000	\$12,500	\$8,434,503
<b>Outside or Special Properties</b>						
# of Incidents	428	386	543	558	539	2,454
Dollar Loss	\$1,723,162	\$162,350	\$494,756	\$436,560	\$1,587,893	\$4,404,721
<b>Storage</b>						
# of Incidents	25	32	31	43	39	170
Dollar Loss	\$557,240	\$709,750	\$396,101	\$347,802	\$1,158,960	\$3,169,853
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	31	30	39	38	32	170
Dollar Loss	\$107,500	\$490,000	\$175,001	\$30,054	\$917,200	\$1,719,755
<b>Assembly</b>						
# of Incidents	19	30	33	28	47	157
Dollar Loss	\$15,491	\$41,500	\$289,510	\$114,050	\$407,602	\$868,153
<b>Educational Uses</b>						
# of Incidents	4	5	9	10	9	37
Dollar Loss	\$102	\$22,050	\$3,002	\$2,200	\$25,500	\$52,854
<b>Undetermined</b>						
# of Incidents	2	2	4	4	4	16
Dollar Loss	\$0	\$50,000	\$0	\$0	\$0	\$50,000
<b>Other Property Uses</b>						
# of Incidents	14	6	11	15	12	58
Dollar Loss	\$0	\$0	\$20,000	\$4,200	\$22,900	\$47,100
<b>None</b>						
# of Incidents	1	4	9	4	2	20
Dollar Loss	\$0	\$3,600	\$16,650	\$0	\$10,150	\$30,400
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	6	4	7	7	7	31
Dollar Loss	\$1,000	\$0	\$1,500	\$0	\$2,000	\$4,500
<b>Total # of Incidents</b>	<b>1,120</b>	<b>1,063</b>	<b>1,443</b>	<b>1,610</b>	<b>1,545</b>	<b>6,781</b>
<b>Total Dollar Loss</b>	<b>\$11,884,328</b>	<b>\$5,804,092</b>	<b>\$13,282,004</b>	<b>\$16,501,629</b>	<b>\$10,484,227</b>	<b>\$57,956,280</b>

### Region 3 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 597 fire incidents in the **Functional Areas** of a building, resulting in more than \$10 million in property and content loss, have been reported by fire service agencies in Region 3. **Functional Areas** fires accounted for 9% of the five-year total and 18% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	106	103	130	130	128	597
Dollar Loss	\$1,540,156	\$1,662,567	\$1,618,554	\$2,609,353	\$2,929,852	\$10,360,482
<b>Storage Areas</b>						
# of Incidents	36	44	28	57	43	208
Dollar Loss	\$6,245,179	\$358,350	\$601,400	\$885,014	\$1,907,252	\$9,997,195
<b>Undetermined</b>						
# of Incidents	127	98	120	165	153	663
Dollar Loss	\$655,900	\$578,200	\$1,933,271	\$1,780,219	\$2,162,450	\$7,110,040
<b>Structural Areas</b>						
# of Incidents	41	35	57	62	64	259
Dollar Loss	\$447,904	\$756,250	\$345,900	\$4,092,881	\$1,490,250	\$7,133,185
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	6	12	12	10	19	59
Dollar Loss	\$165,500	\$56,050	\$6,531,500	\$81,500	\$284,257	\$7,118,807
<b>Service or Equipment Areas</b>						
# of Incidents	32	27	23	31	22	135
Dollar Loss	\$1,817,002	\$408,100	\$1,253,000	\$1,455,252	\$304,500	\$5,237,854
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	12	18	21	36	18	105
Dollar Loss	\$42,725	\$136,000	\$237,820	\$3,272,603	\$96,600	\$3,785,748
<b>Vehicle Areas</b>						
# of Incidents	131	112	171	164	156	734
Dollar Loss	\$328,676	\$969,395	\$350,610	\$639,848	\$863,742	\$3,152,271
<b>Outside Areas</b>						
# of Incidents	252	292	309	357	213	1,423
Dollar Loss	\$427,895	\$433,500	\$182,398	\$535,447	\$325,051	\$1,904,291
<b>Other Areas of Origin</b>						
# of Incidents	33	51	50	54	39	227
Dollar Loss	\$156,802	\$429,930	\$13,600	\$1,097,620	\$46,825	\$1,744,777
<b>Technical Processing Areas</b>						
# of Incidents	1	3	2	1	5	12
Dollar Loss	\$0	\$6,000	\$175,000	\$0	\$28,000	\$209,000
<b>(Blank)</b>						
# of Inc	343	268	520	543	685	2,359
Dollar Loss	\$56,589	\$9,750	\$38,951	\$51,892	\$45,448	\$202,630
<b>Total # of Incidents</b>	<b>1,120</b>	<b>1,063</b>	<b>1,443</b>	<b>1,610</b>	<b>1,545</b>	<b>6,781</b>
<b>Total Dollar Loss</b>	<b>\$11,884,328</b>	<b>\$5,804,092</b>	<b>\$13,282,004</b>	<b>\$16,501,629</b>	<b>\$10,484,227</b>	<b>\$57,956,280</b>

### Region 3 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 968 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$13 million in property and content loss, have been reported by fire service agencies in Region 3. **Operating Equipment** fires accounted for 14% of the five-year total and 23% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	326	345	391	439	371	1,872
Dollar Loss	\$3,274,008	\$2,874,192	\$3,663,995	\$7,650,679	\$5,404,959	\$22,867,833
<b>Operating Equipment</b>						
# of Incidents	192	172	179	229	196	968
Dollar Loss	\$2,234,583	\$1,683,200	\$2,101,620	\$4,618,835	\$2,726,123	\$13,364,361
<b>Open Flame or Smoking Material</b>						
# of Incidents	79	75	83	134	90	461
Dollar Loss	\$283,491	\$269,000	\$7,017,323	\$1,705,105	\$319,560	\$9,594,479
<b>Hot or Smoldering Object</b>						
# of Incidents	73	77	111	100	69	430
Dollar Loss	\$5,683,555	\$73,250	\$233,951	\$384,768	\$291,751	\$6,667,275
<b>Heat Source Other</b>						
# of Incidents	46	62	76	77	74	335
Dollar Loss	\$114,602	\$138,900	\$64,204	\$1,291,900	\$254,044	\$1,863,650
<b>Heat Spread from Another Fire</b>						
# of Incidents	24	27	33	48	27	159
Dollar Loss	\$186,500	\$709,500	\$30,950	\$743,600	\$153,000	\$1,823,550
<b>Chemical or Natural</b>						
# of Incidents	14	14	14	22	16	80
Dollar Loss	\$46,000	\$21,050	\$131,010	\$48,850	\$714,500	\$961,410
<b>(blank)</b>						
# of Incidents	343	268	520	543	686	2,360
Dollar Loss	\$56,589	\$9,750	\$38,951	\$51,892	\$284,790	\$441,972
<b>Explosives and Fireworks</b>						
# of Incidents	21	23	33	16	15	108
Dollar Loss	\$5,000	\$25,250	\$0	\$0	\$335,500	\$365,750
<b>Multiple Heat Sources</b>						
# of Incidents	2	0	3	2	1	8
Dollar Loss	\$0	\$0	\$0	\$6,000	\$0	\$6,000
<b>Total # of Incidents</b>	<b>1,120</b>	<b>1,063</b>	<b>1,443</b>	<b>1,610</b>	<b>1,545</b>	<b>6,781</b>
<b>Total Dollar Loss</b>	<b>\$11,884,328</b>	<b>\$5,804,092</b>	<b>\$13,282,004</b>	<b>\$16,501,629</b>	<b>\$10,484,227</b>	<b>\$57,956,280</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

### Region 3 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 2,624 fire incidents with an **Unknown** cause of ignition, resulting in more than \$15 million in property and content loss, have been reported by fire service agencies in Region 3. **Unknown** ignition caused fires accounted for 39% of the five-year total and 27% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	390	333	570	619	712	2,624
Dollar Loss	\$1,167,794	\$1,559,617	\$2,521,087	\$6,979,875	\$3,703,133	\$15,931,506
<b>Open Flame</b>						
# of Incidents	45	35	48	54	38	220
Dollar Loss	\$5,884,502	\$39,600	\$237,651	\$1,244,804	\$229,375	\$7,635,932
<b>Intentional</b>						
# of Incidents	117	117	134	180	160	708
Dollar Loss	\$40,940	\$14,000	\$6,559,073	\$109,700	\$652,100	\$7,375,813
<b>Electrical Malfunction</b>						
# of Incidents	61	57	61	78	52	309
Dollar Loss	\$1,107,598	\$828,700	\$1,159,720	\$2,258,562	\$1,422,044	\$6,776,624
<b>Other Unintentional, Careless</b>						
# of Incidents	151	155	163	193	158	820
Dollar Loss	\$2,167,783	\$1,128,245	\$365,120	\$1,403,230	\$1,289,716	\$6,354,094
<b>Investigation with Arson Module</b>						
# of Incidents	6	8	14	13	10	51
Dollar Loss	\$120,000	\$162,000	\$783,725	\$1,357,600	\$211,702	\$2,635,027
<b>Equipment Misoperation, Failure</b>						
# of Incidents	69	56	85	83	63	356
Dollar Loss	\$229,377	\$647,600	\$351,400	\$564,803	\$494,901	\$2,288,081
<b>Heating</b>						
# of Incidents	87	97	82	88	83	437
Dollar Loss	\$316,950	\$206,500	\$520,900	\$397,642	\$324,750	\$1,766,742
<b>Other Heat</b>						
# of Incidents	61	55	71	62	52	301
Dollar Loss	\$36,253	\$311,300	\$360,200	\$462,652	\$487,950	\$1,658,355
<b>Appliances</b>						
# of Incidents	14	11	18	27	24	94
Dollar Loss	\$530,630	\$7,750	\$45,600	\$675,003	\$181,450	\$1,440,433

**Region 3 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Natural</b>						
# of Incidents	26	44	32	46	20	168
Dollar Loss	\$49,000	\$21,050	\$156,010	\$98,895	\$724,500	\$1,049,455
<b>Exposure</b>						
# of Incidents	5	2	5	6	5	23
Dollar Loss	\$105,000	\$796,130	\$600	\$5,000	\$10,000	\$916,730
<b>Cooking</b>						
# of Incidents	67	63	130	110	142	512
Dollar Loss	\$26,550	\$51,600	\$151,268	\$126,363	\$493,376	\$849,157
<b>Other Equipment</b>						
# of Incidents	5	7	3	13	6	34
Dollar Loss	\$80,700	\$25,000	\$30,000	\$503,500	\$17,020	\$656,220
<b>Smoking</b>						
# of Incidents	15	22	20	28	15	100
Dollar Loss	\$21,251	\$5,000	\$12,750	\$287,000	\$17,210	\$343,211
<b>Playing with Heat Source</b>						
# of Incidents	1	1	7	10	5	24
Dollar Loss	\$0	\$0	\$26,900	\$27,000	\$225,000	\$278,900
<b>Total # of Incidents</b>	<b>1,120</b>	<b>1,063</b>	<b>1,443</b>	<b>1,610</b>	<b>1,545</b>	<b>6,781</b>
<b>Total Dollar Loss</b>	<b>\$11,884,328</b>	<b>\$5,804,092</b>	<b>\$13,282,004</b>	<b>\$16,501,629</b>	<b>\$10,484,227</b>	<b>\$57,956,280</b>



### Region 3 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 3.

REGION 3 2020 REPORTING SUMMARY							
	% of Region Reporting = 91%	# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Island</b>	<b>% of County Reporting = 100%</b>	<b>9,679</b>	<b>2</b>	<b>551</b>	<b>1</b>	<b>10,233</b>	<b>\$ 2,422,779</b>
15D01	Island Co FD #1, Camano Island	2,231	0	54	0	2,285	\$ 520,300
15D02	Island Co FD #2, N. Whidbey Fire & Rescue	1,848	0	359	1	2,208	\$ 76,500
15D03	Island Co FD #3, S. Whidbey Fire/EMS	2,654	0	45	0	2,699	\$ 714,420
15D05	Island Co FD #5, Central Whidbey Fire & Rescue	1,511	0	66	0	1,577	\$ 505,709
15M04	Oak Harbor Fire Dept	1,435	2	27	0	1,464	\$ 605,850
<b>San Juan</b>	<b>% of County Reporting = 100%</b>	<b>2,391</b>	<b>0</b>	<b>16</b>	<b>0</b>	<b>2,407</b>	<b>\$ 815,500</b>
28D02	San Juan Co FD #2, Orcas Island Fire & Rescue	1,169	0	0	0	1,169	\$ 37,500
28D03	San Juan Co FD #3, San Juan Island	725	0	11	0	736	\$ 764,850
28D04	San Juan Co FD #4, Lopez Island	495	0	5	0	500	\$ 13,150
28D05	San Juan Co FD #5, Shaw Island	2	0	0	0	2	\$ -
<b>Skagit</b>	<b>% of County Reporting = 88%</b>	<b>20,945</b>	<b>0</b>	<b>1,639</b>	<b>1</b>	<b>22,585</b>	<b>\$ 1,454,663</b>
29D02	Skagit #2, McLean Rd	367	0	59	0	426	\$ -
29D03	Skagit #3	402	0	64	0	466	\$ 8,750
29D04	Skagit #4, Clear Lake	269	0	4	0	273	\$ -
29D05	Skagit #5, Bow	250	0	2	0	252	\$ -
29D06	Skagit #6, Burlington	732	0	128	0	860	\$ -
29D07	Skagit #7, Lake Cavanaugh	43	0	4	0	47	\$ -
29D08	Skagit #8, Sedro-Woolley	446	0	28	0	474	\$ 17,200
29D09	Skagit #9, Big Lake	247	0	63	0	310	\$ -
29D10	Skagit #10	270	0	18	0	288	\$ -
29D11	Skagit #11, Mt. Erie	354	0	88	0	442	\$ 475,000
29D12	Skagit #12, Bay View	76	0	6	0	82	\$ -
29D13	Skagit #13	1,135	0	14	0	1,149	\$ -
29D14	Skagit #14, Alger	350	0	9	0	359	\$ -
29D15	Skagit #15, Lake McMurray	0	0	0	0	0	\$ -
29D16	Skagit #16, Day Creek	69	0	9	0	78	\$ -
29D17	Skagit #17, Guemes Island	90	0	10	0	100	\$ -
29D19	Skagit #19, Rockport/Marblemount	11	0	0	0	11	\$ -
29M01	Anacortes Fire Dept	3,200	0	159	0	3,359	\$ 194,600
29M02	Burlington Fire Dept	3,251	0	331	0	3,582	\$ -
29M03	Concrete Fire Dept	44	0	14	1	59	\$ -
29M04	Hamilton Fire Dept	0	0	0	0	0	\$ -
29M05	La Conner Fire Dept	0	0	0	0	0	\$ -
29M07	Mount Vernon Fire Dept	5,790	0	606	0	6,396	\$ 264,613
29M09	Sedro-Woolley Fire Dept	3,549	0	23	0	3,572	\$ 494,500
<b>Whatcom</b>	<b>% of County Reporting = 92%</b>	<b>30,295</b>	<b>0</b>	<b>4,853</b>	<b>0</b>	<b>35,148</b>	<b>\$ 5,908,335</b>
37D01	Whatcom #1, Everson	1,015	0	4	0	1,019	\$ 241,504
37D05	Whatcom #5	341	0	8	0	349	\$ -
37D07	Whatcom #7, Ferndale	5,239	0	246	0	5,485	\$ 1,637,075
37D11	Whatcom #11, Lummi Island	70	0	0	0	70	\$ -
37D14	Whatcom #14, Sumas	1,421	0	34	0	1,455	\$ 1,117,557
37D16	Whatcom #16, Acme	159	0	2	0	161	\$ 201,000
37D17	Whatcom #17, Sandy Point	196	0	9	0	205	\$ 30,000
37D18	Whatcom #18, S. Lake Whatcom	200	0	18	0	218	\$ -
37D19	Whatcom #19, Glacier Fire & Rescue	0	0	0	0	0	\$ -
37D20	South Whatcom Fire Authority	1,156	0	20	0	1,176	\$ 149,000
37D21	Whatcom #21, N. Whatcom Fire & Rescue	2,163	0	882	0	3,045	\$ 432,000
37M01	Bellingham Fire Department	16,747	0	3,489	0	20,236	\$ 2,066,599
37M07	Lynden Fire Department	1,588	0	141	0	1,729	\$ 33,600
<b>REGION 3 TOTALS</b>		<b>63,310</b>	<b>2</b>	<b>7,059</b>	<b>2</b>	<b>70,373</b>	<b>\$ 10,601,277</b>

## Region 4

Region 4 is comprised of King, Pierce, and Snohomish counties. In 2020, 86% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	7,909	9,879	10,682	10,959	11,602	51,031
Dollar Loss	\$65,724,778	\$98,366,314	\$140,339,447	\$103,743,659	\$175,232,533	\$583,406,731
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	436,454	8,976	281,154	292,898	282,150	1,301,632
Dollar Loss	\$469,563	\$5,000	\$292,145	\$386,966	\$756,100	\$1,909,774
<b>Service Calls</b>						
# of Incidents	42,437	1,171	23,406	25,329	25,857	118,200
Dollar Loss	\$909,531	\$0	\$282,670	\$204,825	\$154,830	\$1,551,856
<b>False Alarms and False Calls</b>						
# of Incidents	37,743	758	25,983	29,760	26,817	121,061
Dollar Loss	\$84,405	\$5,400	\$121,600	\$20,502	\$312,962	\$544,869
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	10,429	241	5,497	6,127	5,775	28,069
Dollar Loss	\$361,911	\$12,950	\$84,730	\$57,390	\$54,250	\$571,231
<b>Good Intent Calls</b>						
# of Incidents	63,709	1,546	35,980	37,943	36,805	175,983
Dollar Loss	\$3,623	\$0	\$37,172	\$328,102	\$202,230	\$571,127
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	1,002	18	637	620	503	2,780
Dollar Loss	\$104,735	\$100	\$113,100	\$19,700	\$24,430	\$262,065
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	567	14	179	404	258	1,422
Dollar Loss	\$40,000	\$0	\$0	\$0	\$34,000	\$74,000
<b>Other Types of Incidents</b>						
# of Incidents	3,512	24	2,736	2,536	3,290	12,098
Dollar Loss	\$2,500	\$10,000	\$0	\$0	\$1,200	\$13,700
<b>Total # of Incidents</b>	<b>603,762</b>	<b>22,627</b>	<b>386,254</b>	<b>406,576</b>	<b>393,057</b>	<b>1,812,276</b>
<b>Total Dollar Loss</b>	<b>\$67,701,046</b>	<b>\$98,399,764</b>	<b>\$141,270,864</b>	<b>\$104,761,144</b>	<b>\$176,772,535</b>	<b>\$588,905,353</b>

### Region 4 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 51,031 fire incidents, resulting in more than \$583 million in property and content loss, have been reported by fire service agencies in Region 4. **Structure Fires (including Confined Fires)** accounted for nearly 28% of the five-year total and 83% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	2,432	2,552	2,937	3,118	3,027	14,066
Dollar Loss	\$59,198,025	\$83,882,073	\$90,524,670	\$89,090,754	\$162,108,923	\$484,804,445
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	1,115	1,261	1,388	1,468	1,470	6,702
Dollar Loss	\$5,621,551	\$11,375,212	\$47,407,957	\$9,790,907	\$8,812,270	\$83,007,897
<b>Fixed Mobile Property Fires</b>						
# of Incidents	66	77	106	97	99	445
Dollar Loss	\$400,889	\$659,055	\$996,756	\$3,177,282	\$554,907	\$5,788,889
<b>Fire, Other</b>						
# of Incidents	433	532	569	599	594	2,727
Dollar Loss	\$299,699	\$1,687,071	\$739,020	\$795,503	\$664,639	\$4,185,932
<b>Natural Vegetation Fires</b>						
# of Incidents	1,713	2,905	2,837	2,370	2,279	12,104
Dollar Loss	\$49,733	\$477,099	\$289,907	\$216,707	\$2,551,414	\$3,584,860
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	769	819	963	1,013	1,217	4,781
Dollar Loss	\$113,733	\$178,895	\$272,132	\$536,950	\$326,668	\$1,428,378
<b>Outside Rubbish Fires</b>						
# of Incidents	1,373	1,714	1,871	2,281	2,903	10,142
Dollar Loss	\$40,948	\$105,607	\$98,005	\$130,056	\$208,212	\$582,828
<b>Cultivated Vegetation Fires</b>						
# of Incidents	8	19	11	13	13	64
Dollar Loss	\$200	\$1,302	\$11,000	\$5,500	\$5,500	\$23,502
<b>Total # of Incidents</b>	<b>7,909</b>	<b>9,879</b>	<b>10,682</b>	<b>10,959</b>	<b>11,602</b>	<b>51,031</b>
<b>Total Dollar Loss</b>	<b>\$65,724,778</b>	<b>\$98,366,314</b>	<b>\$140,339,447</b>	<b>\$103,743,659</b>	<b>\$175,232,533</b>	<b>\$583,406,731</b>

### Region 4 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 14,066 structure fire incidents, resulting in more than \$484 million in property and content loss, have been reported by fire service agencies in Region 4. **Building Fires** accounted for 47% of the five-year total and 99% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	1,089	1,195	1,376	1,516	1,488	6,664
Dollar Loss	\$58,862,899	\$83,336,698	\$89,043,842	\$86,956,829	\$161,166,986	\$479,367,254
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	58	57	70	83	89	357
Dollar Loss	\$78,315	\$280,102	\$800,823	\$1,483,279	\$353,472	\$2,995,991
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	912	890	1,025	1,014	924	4,765
Dollar Loss	\$209,146	\$176,606	\$511,524	\$516,802	\$381,710	\$1,795,788
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	221	227	283	308	340	1,379
Dollar Loss	\$14,384	\$18,965	\$69,147	\$68,594	\$111,455	\$282,545
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	127	158	147	167	157	756
Dollar Loss	\$25,700	\$54,102	\$24,629	\$33,700	\$69,500	\$207,631
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	17	17	20	20	19	93
Dollar Loss	\$7,051	\$13,200	\$18,205	\$26,550	\$15,300	\$80,306
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	3	2	4	4	2	15
Dollar Loss	\$530	\$400	\$56,000	\$5,000	\$0	\$61,930
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	5	6	12	6	8	37
Dollar Loss	\$0	\$2,000	\$500	\$0	\$10,500	\$13,000
<b>Total # of Incidents</b>	<b>2,432</b>	<b>2,552</b>	<b>2,937</b>	<b>3,118</b>	<b>3,027</b>	<b>14,066</b>
<b>Total Dollar Loss</b>	<b>\$59,198,025</b>	<b>\$83,882,073</b>	<b>\$90,524,670</b>	<b>\$89,090,754</b>	<b>\$162,108,923</b>	<b>\$484,804,445</b>

### Region 4 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 18,149 fire incidents in **Residential** properties, resulting in more than \$369 million in property and content loss, have been reported by fire service agencies in Region 4. **Residential** fires accounted for 36% of the five-year total and 63% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	2,914	3,520	3,735	4,014	3,966	18,149
Dollar Loss	\$45,776,961	\$60,882,176	\$70,664,305	\$75,138,178	\$116,577,356	\$369,038,976
<b>Mercantile and Business</b>						
# of Incidents	337	455	478	545	534	2,349
Dollar Loss	\$3,910,334	\$8,433,038	\$18,635,088	\$11,512,926	\$32,321,397	\$74,812,783
<b>Outside or Special Properties</b>						
# of Incidents	3,189	4,213	4,405	4,437	4,746	20,990
Dollar Loss	\$4,448,644	\$6,536,015	\$11,573,664	\$6,814,177	\$9,104,348	\$38,476,848
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	60	92	111	91	122	476
Dollar Loss	\$104,201	\$280,403	\$32,115,523	\$316,835	\$5,060,204	\$37,877,166
<b>Assembly</b>						
# of Incidents	220	246	302	255	323	1,346
Dollar Loss	\$3,602,437	\$10,435,649	\$1,085,706	\$1,853,183	\$6,794,296	\$23,771,271
<b>Storage</b>						
# of Incidents	130	152	171	191	186	830
Dollar Loss	\$5,319,073	\$5,222,710	\$3,482,535	\$2,899,252	\$3,122,645	\$20,046,215
<b>Manufacturing and Processing</b>						
# of Incidents	60	62	62	70	61	315
Dollar Loss	\$1,668,950	\$2,764,706	\$200,820	\$2,703,222	\$934,693	\$8,272,391
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	51	45	59	72	67	294
Dollar Loss	\$384,962	\$3,078,651	\$1,447,629	\$165,388	\$58,533	\$5,135,163
<b>Other Property Uses</b>						
# of Incidents	120	140	166	212	252	890
Dollar Loss	\$336,940	\$245,325	\$891,960	\$1,627,859	\$1,015,928	\$4,118,012
<b>Educational Uses</b>						
# of Incidents	88	120	134	112	82	536
Dollar Loss	\$142,221	\$437,535	\$52,196	\$362,311	\$96,470	\$1,090,733
<b>Undetermined</b>						
# of Incidents	726	815	1,035	948	1,229	4,753
Dollar Loss	\$26,252	\$45,406	\$67,020	\$316,828	\$111,553	\$567,059
<b>None</b>						
# of Incidents	14	19	24	12	34	103
Dollar Loss	\$3,803	\$4,700	\$123,001	\$33,500	\$35,110	\$200,114
<b>Total # of Incidents</b>	<b>7,909</b>	<b>9,879</b>	<b>10,682</b>	<b>10,959</b>	<b>11,602</b>	<b>51,031</b>
<b>Total Dollar Loss</b>	<b>\$65,724,778</b>	<b>\$98,366,314</b>	<b>\$140,339,447</b>	<b>\$103,743,659</b>	<b>\$175,232,533</b>	<b>\$583,406,731</b>

## Region 4 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 4,258 fire incidents in the **Functional Areas** of a building, resulting in more than \$152 million in property and content loss, have been reported by fire service agencies in Region 4.

**Functional Areas** fires accounted for 8% of the five-year total and 26% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	719	786	878	980	895	4,258
Dollar Loss	\$17,762,177	\$35,798,132	\$20,741,165	\$26,303,191	\$51,656,344	\$152,261,009
<b>Undetermined</b>						
# of Incidents	333	515	594	674	726	2,842
Dollar Loss	\$7,155,832	\$14,302,034	\$27,003,009	\$22,632,006	\$26,070,658	\$97,163,539
<b>Outside Areas</b>						
# of Incidents	1,811	2,484	2,844	2,552	2,813	12,504
Dollar Loss	\$4,988,404	\$3,978,753	\$40,288,999	\$2,780,244	\$39,330,561	\$91,366,961
<b>Structural Areas</b>						
# of Incidents	244	283	303	346	331	1,507
Dollar Loss	\$7,373,408	\$13,358,267	\$17,119,790	\$18,162,611	\$17,833,722	\$73,847,798
<b>Storage Areas</b>						
# of Incidents	188	248	283	311	367	1,397
Dollar Loss	\$6,136,013	\$5,925,307	\$13,774,727	\$11,849,815	\$12,696,597	\$50,382,459
<b>Vehicle Areas</b>						
# of Incidents	1,020	1,139	1,192	1,235	1,235	5,821
Dollar Loss	\$6,088,776	\$9,713,733	\$12,199,196	\$8,423,982	\$11,146,886	\$47,572,573
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	74	90	72	86	86	408
Dollar Loss	\$5,758,790	\$4,598,552	\$2,706,716	\$6,086,020	\$1,943,228	\$21,093,306
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	68	92	76	109	95	440
Dollar Loss	\$1,807,064	\$6,526,276	\$2,108,308	\$2,691,512	\$2,660,712	\$15,793,872
<b>Service or Equipment Areas</b>						
# of Incidents	79	91	85	107	99	461
Dollar Loss	\$7,096,246	\$2,944,338	\$2,513,970	\$988,772	\$1,092,953	\$14,636,279
<b>Other Areas of Origin</b>						
# of Incidents	170	217	287	277	276	1,227
Dollar Loss	\$1,214,271	\$645,811	\$779,535	\$1,819,632	\$3,948,472	\$8,407,721
<b>Technical Processing Areas</b>						
# of Incidents	11	10	16	20	20	77
Dollar Loss	\$91,000	\$90,000	\$420,872	\$1,271,773	\$4,236,428	\$6,110,073
<b>(Blank)</b>						
# of Inc	3,192	3,924	4,052	4,262	4,659	20,089
Dollar Loss	\$252,797	\$485,111	\$683,160	\$734,101	\$2,615,972	\$4,771,141
<b>Total # of Incidents</b>	<b>7,909</b>	<b>9,879</b>	<b>10,682</b>	<b>10,959</b>	<b>11,602</b>	<b>51,031</b>
<b>Total Dollar Loss</b>	<b>\$65,724,778</b>	<b>\$98,366,314</b>	<b>\$140,339,447</b>	<b>\$103,743,659</b>	<b>\$175,232,533</b>	<b>\$583,406,731</b>

## Region 4 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 6,704 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$121 million in property and content loss, have been reported by fire service agencies in Region 4. **Operating Equipment** fires accounted for 13% of the five-year total and 21% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	1,638	2,259	2,770	2,744	3,002	12,413
Dollar Loss	\$28,260,655	\$45,566,192	\$58,524,883	\$56,870,686	\$88,778,046	\$278,000,462
<b>Operating Equipment</b>						
# of Incidents	1,128	1,272	1,401	1,451	1,452	6,704
Dollar Loss	\$15,105,832	\$28,501,329	\$26,200,546	\$20,672,899	\$31,451,136	\$121,931,742
<b>Hot or Smoldering Object</b>						
# of Incidents	667	732	739	766	715	3,619
Dollar Loss	\$10,421,410	\$5,795,035	\$39,531,836	\$8,386,176	\$8,031,081	\$72,165,538
<b>Open Flame or Smoking Material</b>						
# of Incidents	813	982	981	986	1,029	4,791
Dollar Loss	\$7,150,454	\$8,645,260	\$8,666,423	\$10,355,574	\$11,799,363	\$46,617,074
<b>Heat Source Other</b>						
# of Incidents	147	196	174	216	183	916
Dollar Loss	\$1,929,338	\$3,110,139	\$1,156,032	\$1,798,075	\$25,549,874	\$33,543,458
<b>Explosives and Fireworks</b>						
# of Incidents	172	325	362	294	356	1,509
Dollar Loss	\$369,105	\$1,561,563	\$1,926,988	\$1,411,126	\$3,325,053	\$8,593,835
<b>Heat Spread from Another Fire</b>						
# of Incidents	70	84	109	138	108	509
Dollar Loss	\$852,315	\$2,298,540	\$1,259,980	\$2,719,217	\$822,390	\$7,952,442
<b>Chemical or Natural</b>						
# of Incidents	65	83	66	74	66	354
Dollar Loss	\$933,246	\$983,645	\$1,975,113	\$786,490	\$2,074,718	\$6,753,212
<b>(blank)</b>						
# of Incidents	3,192	3,924	4,052	4,262	4,659	20,089
Dollar Loss	\$252,797	\$485,111	\$683,160	\$734,101	\$2,615,972	\$4,771,141
<b>Multiple Heat Sources</b>						
# of Incidents	17	22	28	28	32	127
Dollar Loss	\$449,626	\$1,419,500	\$414,486	\$9,315	\$784,900	\$3,077,827
<b>Total # of Incidents</b>	<b>7,909</b>	<b>9,879</b>	<b>10,682</b>	<b>10,959</b>	<b>11,602</b>	<b>51,031</b>
<b>Total Dollar Loss</b>	<b>\$65,724,778</b>	<b>\$98,366,314</b>	<b>\$140,339,447</b>	<b>\$103,743,659</b>	<b>\$175,232,533</b>	<b>\$583,406,731</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 4 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 20,927 fire incidents with an **Unknown** cause of ignition, resulting in more than \$250 million in property and content loss, have been reported by fire service agencies in Region 4. **Unknown** ignition caused fires accounted for 41% of the five-year total and 43% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	2,972	4,120	4,260	4,529	5,046	20,927
Dollar Loss	\$17,736,530	\$39,428,107	\$45,324,947	\$42,756,944	\$105,017,397	\$250,263,925
<b>Other Heat</b>						
# of Incidents	422	520	532	524	504	2,502
Dollar Loss	\$3,887,259	\$4,384,747	\$36,271,645	\$6,194,300	\$6,427,136	\$57,165,087
<b>Other Unintentional, Careless</b>						
# of Incidents	697	913	1,132	1,106	1,105	4,953
Dollar Loss	\$8,121,932	\$10,552,833	\$14,766,815	\$9,905,898	\$9,440,607	\$52,788,085
<b>Electrical Malfunction</b>						
# of Incidents	347	395	411	450	434	2,037
Dollar Loss	\$5,761,081	\$12,129,828	\$10,013,842	\$6,441,531	\$11,720,383	\$46,066,665
<b>Intentional</b>						
# of Incidents	796	910	1,068	1,252	1,646	5,672
Dollar Loss	\$4,593,526	\$4,966,553	\$5,028,713	\$9,639,959	\$8,601,589	\$32,830,340
<b>Equipment Misoperation, Failure</b>						
# of Incidents	374	471	514	507	507	2,373
Dollar Loss	\$2,334,837	\$3,462,321	\$6,616,923	\$4,512,205	\$12,764,360	\$29,690,646
<b>Cooking</b>						
# of Incidents	1,072	1,003	1,162	1,155	1,060	5,452
Dollar Loss	\$4,535,717	\$3,125,203	\$3,502,471	\$6,228,150	\$5,309,701	\$22,701,242
<b>Appliances</b>						
# of Incidents	101	123	158	146	129	657
Dollar Loss	\$5,100,180	\$6,547,624	\$2,363,802	\$4,153,013	\$2,824,533	\$20,989,152
<b>Open Flame</b>						
# of Incidents	321	384	387	391	377	1,860
Dollar Loss	\$2,925,134	\$2,966,247	\$4,522,504	\$3,378,105	\$6,468,686	\$20,260,676
<b>Heating</b>						
# of Incidents	229	271	289	295	267	1,351
Dollar Loss	\$2,636,559	\$2,192,013	\$4,496,424	\$3,092,411	\$1,796,903	\$14,214,310



**Region 4 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Smoking</b>						
# of Incidents	364	499	483	363	291	2,000
Dollar Loss	\$1,988,608	\$4,646,998	\$3,197,024	\$2,509,858	\$1,454,243	\$13,796,731
<b>Natural</b>						
# of Incidents	113	141	134	119	135	642
Dollar Loss	\$1,273,716	\$1,044,359	\$2,067,963	\$805,900	\$2,077,169	\$7,269,107
<b>Investigation with Arson Module</b>						
# of Incidents	30	21	29	29	19	128
Dollar Loss	\$2,757,933	\$373,425	\$451,554	\$2,088,754	\$401,920	\$6,073,586
<b>Exposure</b>						
# of Incidents	31	29	52	42	30	184
Dollar Loss	\$470,934	\$2,055,700	\$1,418,068	\$1,542,536	\$127,506	\$5,614,744
<b>Other Equipment</b>						
# of Incidents	17	18	21	17	18	91
Dollar Loss	\$596,932	\$464,250	\$273,201	\$406,041	\$588,700	\$2,329,124
<b>Playing with Heat Source</b>						
# of Incidents	23	61	50	34	34	202
Dollar Loss	\$1,003,900	\$26,106	\$23,551	\$88,054	\$211,700	\$1,353,311
<b>Total # of Incidents</b>	<b>7,909</b>	<b>9,879</b>	<b>10,682</b>	<b>10,959</b>	<b>11,602</b>	<b>51,031</b>
<b>Total Dollar Loss</b>	<b>\$65,724,778</b>	<b>\$98,366,314</b>	<b>\$140,339,447</b>	<b>\$103,743,659</b>	<b>\$175,232,533</b>	<b>\$583,406,731</b>

## Region 4 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 4.

REGION 4 2020 REPORTING SUMMARY							
% of Region Reporting = 86%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>King</b>	<b>% of County Reporting = 97%</b>	<b>177,924</b>	<b>11</b>	<b>14,325</b>	<b>4</b>	<b>192,264</b>	<b>\$ 89,274,479</b>
17D02	King #2, Burien/Normandy Park	7,425	1	124	0	7,550	\$ 1,845,260
17D04	King #4, Shoreline	10,435	0	128	0	10,563	\$ 1,138,350
17D10	King#10, Eastside Fire & Rescue	10,267	0	453	0	10,720	\$ 4,246,085
17D11	King #11, North Highline	3,649	0	14	0	3,663	\$ 1,384,167
17D13	King #13, Vashon Island Fire & Rescue	1,500	0	17	0	1,517	\$ 55,020
17D16	King #16, Northshore FD	3,391	0	241	0	3,632	\$ 1,150,825
17D20	King #20, Skyway/Bryn Mawr/Lakeridge	1,972	0	192	0	2,164	\$ 1,499,750
17D27	King #27, Fall City	522	0	276	0	798	\$ 82,000
17D36	King #36, Woodinville Fire & Rescue	3,106	0	720	0	3,826	\$ 993,202
17D39	King #39, S. King Fire & Rescue	19,575	9	1,367	0	20,951	\$ 8,968,597
17D44	King #44, Mountain View Fire & Rescue	1,972	0	82	0	2,054	\$ 1,188,953
17D45	King #45, Duval	1,072	0	60	0	1,132	\$ 1,489,480
17D47	King #47, Kangley/Palmer	145	0	3	0	148	\$ 453,500
17D50	King#50, Skykomish/Stevens Pass	254	0	16	0	270	\$ 217,714
17D51	King #51, Snoqualmie Pass Fire & Rescue	175	0	5	0	180	\$ -
17M01	Valley Regional Fire Authority	10,605	0	414	0	11,019	\$ 3,522,829
17M02	Bellevue Fire Department	15,537	0	3,317	0	18,854	\$ 2,385,336
17M03	Black Diamond Fire Department	0	0	0	0	0	\$ -
17M04	Bothell Fire & EMS	6,495	1	215	0	6,711	\$ 524,964
17M06	King #28, Enumclaw Fire Department	2,395	0	39	0	2,434	\$ 3,434,100
17M08	Puget Sound Regional Fire Authority	25,581	0	1,442	0	27,023	\$ 3,453,065
17M09	Kirkland Fire Department	7,545	0	143	0	7,688	\$ 5,712,195
17M10	Mercer Island Fire Department	2,236	0	6	0	2,242	\$ 4,361,016
17M13	Redmond Fire Department	8,014	0	2,831	0	10,845	\$ 2,868,090
17M14	Renton Regional Fire Authority	15,423	0	1,324	4	16,751	\$ 3,091,127
17M15	Seattle Fire Dept	12,147	0	0	0	12,147	\$ 34,339,431
17M17	Snoqualmie Fire Dept	842	0	233	0	1,075	\$ 367,099
17M19	Tukwila Fire Dept	4,113	0	627	0	4,740	\$ 401,274
17P01	King County International Airport	99	0	2	0	101	\$ -
17S01	Port of Seattle/SeaTac Int'l Airport Fire Dept	1,432	0	34	0	1,466	\$ 101,050
<b>Pierce</b>	<b>% of County Reporting = 80%</b>	<b>120,220</b>	<b>0</b>	<b>3,208</b>	<b>5</b>	<b>123,433</b>	<b>\$ 36,835,037</b>
27D03	Pierce #3, W. Pierce Fire & Rescue	16,378	0	402	0	16,780	\$ 5,611,773
27D05	Pierce #5, Gig Harbor Fire & Medic One	5,266	0	251	2	5,519	\$ 254,706
27D06	Pierce #6, Central Pierce Fire & Rescue	29,964	0	711	1	30,676	\$ 11,865,357
27D13	Pierce #13, Browns Point/Dash Point	210	0	25	0	235	\$ -
27D14	Pierce #14, Riverside Fire & Rescue	517	0	21	0	538	\$ 1,124,500
27D16	Pierce #16, Key Peninsula Fire	2,423	0	129	1	2,553	\$ 1,024,181
27D17	Pierce #17, South Pierce Fire & Rescue (Roy/McKenna)	2,647	0	157	0	2,804	\$ 1,214,810
27D18	Pierce #18, Orting Valley Fire & Rescue	1,986	0	224	0	2,210	\$ 631,170
27D21	Pierce #21, Graham Fire & Rescue	6,899	0	682	1	7,582	\$ 9,400
27D22	Pierce #22, E. Pierce Fire & Rescue	10,427	0	286	0	10,713	\$ 1,950,999
27D23	Pierce #23, Pierce 23 Fire & Rescue	0	0	0	0	0	\$ -
27D25	Pierce #25, Crystal Mountain	0	0	0	0	0	\$ -
27D26	Pierce #26, Greenwater	0	0	0	0	0	\$ -
27D27	Pierce #27, Anderson Island Fire-Rescue	0	0	0	0	0	\$ -
27M02	Buckley Fire Dept	1,105	0	270	0	1,375	\$ -
27M03	Carbonado Fire Dept	17	0	13	0	30	\$ -
27M04	Dupont Fire Dept	772	0	37	0	809	\$ 21,000
27M11	Ruston Fire Dept	99	0	0	0	99	\$ -
27M16	Tacoma Fire Dept	41,456	0	0	0	41,456	\$ 13,127,141
27S05	McNeil Island Fire Dept	54	0	0	0	54	\$ -

REGION 4 2020 REPORTING SUMMARY (Continued)

% of Region Reporting = 86%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Snohomish</b>	<b>% of County Reporting = 81%</b>	<b>94,913</b>	<b>1</b>	<b>8,952</b>	<b>3</b>	<b>103,869</b>	<b>\$ 50,663,019</b>
31D01	Snohomish #1/South Snohomish Regional Fire Authority	28,009	0	1,794	1	29,804	\$ 5,013,393
31D04	Snohomish #4, Snohomish	3,439	0	611	0	4,050	\$ 1,015,950
31D05	Snohomish #5, Sultan/Startup	1,112	0	108	1	1,221	\$ 21,600
31D07	Snohomish Regional Fire & Rescue	11,912	1	1,808	0	13,721	\$ 592,900
31D15	Snohomish #15, Tulalip Bay	912	0	112	0	1,024	\$ 479,510
31D16	Snohomish #16, Lake Roesiger	0	0	0	0	0	\$ -
31D17	Snohomish #17, Granite Falls	1,942	0	190	0	2,132	\$ 243,850
31D19	Snohomish #19, Silvana	488	0	462	0	950	\$ 355,500
31D21	Snohomish #21, Arlington	807	0	174	0	981	\$ 95,545
31D22	Snohomish #22, Getchell	499	0	1,011	0	1,510	\$ 42,000
31D23	Snohomish #23, Robe Valley	0	0	0	0	0	\$ -
31D24	Snohomish #24, Darrington Fire	543	0	67	0	610	\$ 1,900
31D25	Snohomish #25, Oso	95	0	63	1	159	\$ 500,000
31D26	Snohomish #26, Sky Valley Fire	1,089	0	186	0	1,275	\$ 102,470
31D27	Snohomish #27, Gedney/Hat Island	0	0	0	0	0	\$ -
31D30	North County Regional Fire Authority	3,488	0	181	0	3,669	\$ 756,250
31M01	Arlington Fire Department	4,386	0	402	0	4,788	\$ 1,446,400
31M04	Everett Fire Department	21,815	0	325	0	22,140	\$ 38,434,326
31M08	Snohomish #12, Marysville	12,268	0	1,096	0	13,364	\$ 1,486,760
31M11	Mukilteo Fire Department	2,109	0	362	0	2,471	\$ 74,665
<b>REGION 4 TOTALS</b>		<b>393,057</b>	<b>12</b>	<b>26,485</b>	<b>12</b>	<b>419,566</b>	<b>\$ 176,772,535</b>

## Region 5

Region 5 is comprised of Clark, Cowlitz, Lewis, Skamania, and Wahkiakum counties. In 2020, 67% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	2,262	2,219	2,332	2,258	2,331	11,402
Dollar Loss	\$21,186,630	\$18,499,043	\$18,487,439	\$16,234,104	\$24,000,164	\$98,407,380
<b>False Alarms and False Calls</b>						
# of Incidents	2,468	2,304	2,551	2,970	3,108	13,401
Dollar Loss	\$0	\$5,800	\$101,300	\$6,000	\$1,352,232	\$1,465,332
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	42,513	40,690	45,329	47,612	47,395	223,539
Dollar Loss	\$129,563	\$100,500	\$49,000	\$98,500	\$6,750	\$384,313
<b>Service Calls</b>						
# of Incidents	3,671	4,034	5,103	6,042	6,291	25,141
Dollar Loss	\$302,502	\$11,494	\$10,820	\$2,660	\$1,040	\$328,516
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	627	656	696	726	817	3,522
Dollar Loss	\$119,500	\$2,000	\$9,085	\$9,900	\$2,010	\$142,495
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	12	26	8	15	20	81
Dollar Loss	\$35,000	\$0	\$0	\$0	\$0	\$35,000
<b>Good Intent Calls</b>						
# of Incidents	12,150	12,055	13,599	14,400	15,275	67,479
Dollar Loss	\$2,063	\$21,000	\$300	\$0	\$1,480	\$24,843
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	69	44	46	59	68	286
Dollar Loss	\$4,350	\$50	\$700	\$0	\$5,152	\$10,252
<b>Other Types of Incidents</b>						
# of Incidents	307	292	323	362	341	1,625
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>64,079</b>	<b>62,320</b>	<b>69,987</b>	<b>74,444</b>	<b>75,646</b>	<b>346,476</b>
<b>Total Dollar Loss</b>	<b>\$21,779,608</b>	<b>\$18,639,887</b>	<b>\$18,658,644</b>	<b>\$16,351,164</b>	<b>\$25,368,828</b>	<b>\$100,798,131</b>

## Region 5 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 11,402 fire incidents, resulting in more than \$98 million in property and content loss, have been reported by fire service agencies in Region 5. **Structure Fires (including Confined Fires)** accounted for 27% of the five-year total and 88% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	612	600	610	648	610	3,080
Dollar Loss	\$19,310,137	\$16,932,613	\$16,208,576	\$14,498,427	\$19,173,245	\$86,122,998
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	333	319	321	342	348	1,663
Dollar Loss	\$1,072,981	\$1,109,613	\$1,842,353	\$1,241,877	\$4,258,813	\$9,525,637
<b>Fixed Mobile Property Fires</b>						
# of Incidents	18	25	25	37	37	142
Dollar Loss	\$85,400	\$164,165	\$212,950	\$220,456	\$368,466	\$1,051,437
<b>Fire, Other</b>						
# of Incidents	154	152	173	163	169	811
Dollar Loss	\$156,601	\$134,767	\$127,910	\$168,949	\$86,770	\$674,997
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	69	87	114	124	104	498
Dollar Loss	\$439,335	\$116,072	\$44,814	\$30,290	\$27,053	\$657,564
<b>Natural Vegetation Fires</b>						
# of Incidents	736	678	796	626	661	3,497
Dollar Loss	\$101,979	\$17,286	\$41,986	\$55,711	\$40,427	\$257,389
<b>Outside Rubbish Fires</b>						
# of Incidents	336	345	290	312	400	1,683
Dollar Loss	\$20,097	\$22,927	\$8,700	\$15,894	\$45,390	\$113,008
<b>Cultivated Vegetation Fires</b>						
# of Incidents	4	13	3	6	2	28
Dollar Loss	\$100	\$1,600	\$150	\$2,500	\$0	\$4,350
<b>Total # of Incidents</b>	<b>2,262</b>	<b>2,219</b>	<b>2,332</b>	<b>2,258</b>	<b>2,331</b>	<b>11,402</b>
<b>Total Dollar Loss</b>	<b>\$21,186,630</b>	<b>\$18,499,043</b>	<b>\$18,487,439</b>	<b>\$16,234,104</b>	<b>\$24,000,164</b>	<b>\$98,407,380</b>

### Region 5 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 3,080 structure fire incidents, resulting in more than \$86 million in property and content loss, have been reported by fire service agencies in Region 5. **Building Fires** accounted for 51% of the five-year total and 96% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	349	309	300	320	300	1,578
Dollar Loss	\$18,728,724	\$15,094,796	\$15,796,509	\$14,329,179	\$18,938,883	\$82,888,091
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	20	27	21	12	19	99
Dollar Loss	\$508,265	\$1,756,875	\$286,410	\$50,285	\$164,061	\$2,765,896
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	128	131	151	154	160	724
Dollar Loss	\$50,962	\$57,332	\$97,645	\$73,300	\$48,851	\$328,090
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	62	89	82	98	58	389
Dollar Loss	\$18,936	\$10,400	\$10,200	\$30,454	\$9,900	\$79,890
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	48	36	48	52	65	249
Dollar Loss	\$2,250	\$8,210	\$9,012	\$13,859	\$6,450	\$39,781
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	0	2	2	2	2	8
Dollar Loss	\$0	\$0	\$8,200	\$0	\$0	\$8,200
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	0	2	2	6	3	13
Dollar Loss	\$0	\$5,000	\$100	\$1,350	\$100	\$6,550
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	5	4	4	4	3	20
Dollar Loss	\$1,000	\$0	\$500	\$0	\$5,000	\$6,500
<b>Total # of Incidents</b>	<b>612</b>	<b>600</b>	<b>610</b>	<b>648</b>	<b>610</b>	<b>3,080</b>
<b>Total Dollar Loss</b>	<b>\$19,310,137</b>	<b>\$16,932,613</b>	<b>\$16,208,576</b>	<b>\$14,498,427</b>	<b>\$19,173,245</b>	<b>\$86,122,998</b>

## Region 5 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 4,579 fire incidents in **Residential** properties, resulting in more than \$69 million in property and content loss, have been reported by fire service agencies in Region 5. **Residential** fires accounted for 40% of the five-year total and 70% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	896	894	926	943	920	4,579
Dollar Loss	\$13,587,473	\$11,646,107	\$14,095,037	\$10,632,962	\$19,143,666	\$69,105,245
<b>Storage</b>						
# of Incidents	55	60	52	62	55	284
Dollar Loss	\$2,741,412	\$2,756,247	\$625,839	\$1,323,341	\$2,252,377	\$9,699,216
<b>Mercantile and Business</b>						
# of Incidents	104	124	116	122	134	600
Dollar Loss	\$1,232,267	\$1,836,190	\$595,381	\$2,950,891	\$268,578	\$6,883,307
<b>Outside or Special Properties</b>						
# of Incidents	978	934	1,034	933	1,008	4,887
Dollar Loss	\$1,421,237	\$1,056,510	\$1,467,146	\$932,032	\$1,540,456	\$6,417,381
<b>Assembly</b>						
# of Incidents	71	55	57	48	44	275
Dollar Loss	\$1,958,934	\$212,504	\$683,588	\$185,971	\$27,500	\$3,068,497
<b>Manufacturing and Processing</b>						
# of Incidents	27	42	28	12	29	138
Dollar Loss	\$141,150	\$834,100	\$138,094	\$34,390	\$120,072	\$1,267,806
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	26	25	31	35	29	146
Dollar Loss	\$3,000	\$55,000	\$700,000	\$22,550	\$273,200	\$1,053,750
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	24	21	23	34	21	123
Dollar Loss	\$10,000	\$670	\$139,454	\$62,061	\$324,065	\$536,250
<b>Educational Uses</b>						
# of Incidents	36	30	15	20	19	120
Dollar Loss	\$72,157	\$100,000	\$23,200	\$41,706	\$4,600	\$241,663
<b>Other Property Uses</b>						
# of Incidents	25	16	21	21	29	112
Dollar Loss	\$19,000	\$1,700	\$18,500	\$7,800	\$26,500	\$73,500
<b>None</b>						
# of Incidents	15	16	25	19	37	112
Dollar Loss	\$0	\$15	\$100	\$40,400	\$19,150	\$59,665
<b>Undetermined</b>						
# of Incidents	5	2	4	9	6	26
Dollar Loss	\$0	\$0	\$1,100	\$0	\$0	\$1,100
<b>Total # of Incidents</b>	<b>2,262</b>	<b>2,219</b>	<b>2,332</b>	<b>2,258</b>	<b>2,331</b>	<b>11,402</b>
<b>Total Dollar Loss</b>	<b>\$21,186,630</b>	<b>\$18,499,043</b>	<b>\$18,487,439</b>	<b>\$16,234,104</b>	<b>\$24,000,164</b>	<b>\$98,407,380</b>

## Region 5 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 1,000 fire incidents in the **Functional Areas** of a building, resulting in more than \$20 million in property and content loss, have been reported by fire service agencies in Region 5. **Functional Areas** fires accounted for 9% of the five-year total and 21% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	241	187	190	209	173	1,000
Dollar Loss	\$5,777,064	\$2,233,304	\$3,164,953	\$4,733,763	\$4,768,903	\$20,677,987
<b>Structural Areas</b>						
# of Incidents	85	90	67	84	74	400
Dollar Loss	\$5,876,617	\$2,623,753	\$2,440,740	\$3,103,906	\$3,068,259	\$17,113,275
<b>Storage Areas</b>						
# of Incidents	84	78	76	86	97	421
Dollar Loss	\$4,449,427	\$3,018,180	\$2,172,301	\$2,499,116	\$2,717,720	\$14,856,744
<b>Undetermined</b>						
# of Incidents	177	192	243	216	281	1,109
Dollar Loss	\$1,547,882	\$2,790,935	\$4,067,151	\$1,731,728	\$2,485,256	\$12,622,952
<b>Vehicle Areas</b>						
# of Incidents	293	269	290	302	299	1,453
Dollar Loss	\$968,131	\$915,158	\$1,741,866	\$1,194,299	\$4,320,703	\$9,140,157
<b>Outside Areas</b>						
# of Incidents	769	665	806	647	683	3,570
Dollar Loss	\$618,029	\$2,354,496	\$1,455,734	\$994,359	\$3,028,139	\$8,450,757
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	13	36	22	17	28	116
Dollar Loss	\$405,900	\$1,372,839	\$2,354,538	\$937,841	\$2,340,425	\$7,411,543
<b>Service or Equipment Areas</b>						
# of Incidents	43	45	38	40	46	212
Dollar Loss	\$695,000	\$2,086,116	\$84,094	\$418,155	\$237,100	\$3,520,465
<b>Other Areas of Origin</b>						
# of Incidents	88	123	146	135	111	603
Dollar Loss	\$211,655	\$313,860	\$614,320	\$491,092	\$296,357	\$1,927,284
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	16	21	18	8	14	77
Dollar Loss	\$543,164	\$512,710	\$282,448	\$32,750	\$405,159	\$1,776,231
<b>Technical Processing Areas</b>						
# of Incidents	6	6	3	1	3	19
Dollar Loss	\$5,000	\$214,500	\$50,000	\$0	\$251,000	\$520,500
<b>(Blank)</b>						
# of Inc	447	507	433	513	522	2,422
Dollar Loss	\$88,761	\$63,192	\$59,294	\$97,095	\$81,143	\$389,485
<b>Total # of Incidents</b>	<b>2,262</b>	<b>2,219</b>	<b>2,332</b>	<b>2,258</b>	<b>2,331</b>	<b>11,402</b>
<b>Total Dollar Loss</b>	<b>\$21,186,630</b>	<b>\$18,499,043</b>	<b>\$18,487,439</b>	<b>\$16,234,104</b>	<b>\$24,000,164</b>	<b>\$98,407,380</b>



## Region 5 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,605 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$20 million in property and content loss, have been reported by fire service agencies in Region 5.

**Operating Equipment** fires accounted for 14% of the five-year total and 21% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	803	758	877	794	839	4,071
Dollar Loss	\$11,190,879	\$7,722,561	\$11,466,079	\$6,355,906	\$11,936,389	\$48,671,814
<b>Operating Equipment</b>						
# of Incidents	334	306	315	312	338	1,605
Dollar Loss	\$4,308,005	\$4,052,454	\$3,153,944	\$3,951,948	\$4,773,932	\$20,240,283
<b>Hot or Smoldering Object</b>						
# of Incidents	307	278	279	227	226	1,317
Dollar Loss	\$2,508,718	\$3,816,943	\$1,171,112	\$3,374,576	\$2,082,540	\$12,953,889
<b>Open Flame or Smoking Material</b>						
# of Incidents	155	156	177	162	189	839
Dollar Loss	\$1,853,775	\$1,128,834	\$930,704	\$1,046,052	\$3,988,301	\$8,947,666
<b>Heat Source Other</b>						
# of Incidents	97	112	109	109	104	531
Dollar Loss	\$677,450	\$859,792	\$648,651	\$396,220	\$853,185	\$3,435,298
<b>Heat Spread from Another Fire</b>						
# of Incidents	49	48	40	62	42	241
Dollar Loss	\$334,360	\$630,534	\$328,417	\$381,584	\$142,334	\$1,817,229
<b>Chemical or Natural</b>						
# of Incidents	19	18	24	35	30	126
Dollar Loss	\$167,950	\$48,631	\$500,500	\$190,050	\$100,181	\$1,007,312
<b>Explosives and Fireworks</b>						
# of Incidents	49	34	67	39	33	222
Dollar Loss	\$56,732	\$176,100	\$31,298	\$425,473	\$23,159	\$712,762
<b>(blank)</b>						
# of Incidents	447	507	433	513	522	2,422
Dollar Loss	\$88,761	\$63,192	\$59,294	\$97,095	\$81,143	\$389,485
<b>Multiple Heat Sources</b>						
# of Incidents	2	2	11	5	8	28
Dollar Loss	\$0	\$2	\$197,440	\$15,200	\$19,000	\$231,642
<b>Total # of Incidents</b>	<b>2,262</b>	<b>2,219</b>	<b>2,332</b>	<b>2,258</b>	<b>2,331</b>	<b>11,402</b>
<b>Total Dollar Loss</b>	<b>\$21,186,630</b>	<b>\$18,499,043</b>	<b>\$18,487,439</b>	<b>\$16,234,104</b>	<b>\$24,000,164</b>	<b>\$98,407,380</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 5 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 3,704 fire incidents with an Unknown cause of ignition, resulting in more than \$30 million in property and content loss, have been reported by fire service agencies in Region 5. **Unknown** ignition caused fires accounted for 32% of the five-year total and 31% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	754	731	699	740	780	3,704
Dollar Loss	\$3,794,584	\$4,054,712	\$8,817,845	\$5,554,160	\$8,557,426	\$30,778,727
<b>Intentional</b>						
# of Incidents	261	237	315	284	317	1,414
Dollar Loss	\$3,945,849	\$1,933,831	\$475,356	\$617,471	\$2,407,097	\$9,379,604
<b>Other Unintentional, Careless</b>						
# of Incidents	274	297	319	277	287	1,454
Dollar Loss	\$1,709,266	\$2,003,453	\$1,892,546	\$1,280,299	\$1,780,644	\$8,666,208
<b>Open Flame</b>						
# of Incidents	205	174	153	90	123	745
Dollar Loss	\$2,483,482	\$2,699,269	\$1,252,434	\$1,242,597	\$876,489	\$8,554,271
<b>Other Heat</b>						
# of Incidents	132	131	174	160	112	709
Dollar Loss	\$777,083	\$1,935,008	\$569,357	\$2,398,882	\$1,885,267	\$7,565,597
<b>Electrical Malfunction</b>						
# of Incidents	94	82	69	94	94	433
Dollar Loss	\$1,951,987	\$1,245,739	\$847,895	\$1,409,300	\$1,611,605	\$7,066,526
<b>Equipment Misoperation, Failure</b>						
# of Incidents	156	166	132	137	142	733
Dollar Loss	\$905,833	\$2,188,417	\$685,312	\$527,080	\$790,972	\$5,097,614
<b>Heating</b>						
# of Incidents	91	102	109	125	85	512
Dollar Loss	\$1,543,748	\$303,900	\$173,190	\$953,292	\$728,129	\$3,702,259
<b>Cooking</b>						
# of Incidents	148	141	175	182	189	835
Dollar Loss	\$293,911	\$491,340	\$624,819	\$786,541	\$1,267,749	\$3,464,360
<b>Investigation with Arson Module</b>						
# of Incidents	30	22	27	11	16	106
Dollar Loss	\$951,610	\$1,048,350	\$820,880	\$70,000	\$336,080	\$3,226,920

**Region 5 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Smoking</b>						
# of Incidents	38	51	42	43	51	225
Dollar Loss	\$138,560	\$103,549	\$380,951	\$625,244	\$1,956,426	\$3,204,730
<b>Appliances</b>						
# of Incidents	19	22	23	29	42	135
Dollar Loss	\$651,292	\$292,324	\$494,054	\$456,916	\$1,107,360	\$3,001,946
<b>Other Equipment</b>						
# of Incidents	4	5	7	7	10	33
Dollar Loss	\$1,842,475	\$83,500	\$127,500	\$100,172	\$181,500	\$2,335,147
<b>Natural</b>						
# of Incidents	39	45	67	66	73	290
Dollar Loss	\$167,950	\$57,151	\$1,189,200	\$211,100	\$117,376	\$1,742,777
<b>Exposure</b>						
# of Incidents	6	7	7	9	5	34
Dollar Loss	\$11,000	\$57,000	\$135,000	\$1,000	\$395,844	\$599,844
<b>Playing with Heat Source</b>						
# of Incidents	11	6	14	4	5	40
Dollar Loss	\$18,000	\$1,500	\$1,100	\$50	\$200	\$20,850
<b>Total # of Incidents</b>	<b>2,262</b>	<b>2,219</b>	<b>2,332</b>	<b>2,258</b>	<b>2,331</b>	<b>11,402</b>
<b>Total Dollar Loss</b>	<b>\$21,186,630</b>	<b>\$18,499,043</b>	<b>\$18,487,439</b>	<b>\$16,234,104</b>	<b>\$24,000,164</b>	<b>\$98,407,380</b>

## Region 5 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 5.

REGION 5 2020 REPORTING SUMMARY							
% of Region Reporting = 67%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Clark</b>	<b>% of County Reporting = 88%</b>	<b>51,565</b>	<b>1</b>	<b>2,157</b>	<b>0</b>	<b>53,723</b>	<b>\$ 21,210,274</b>
06D01	Clark #9, East County Fire & Rescue	857	0	286	0	1,143	\$ 1,000
06D03	Clark #3, Brush Prairie	4,058	0	285	0	4,343	\$ 863,894
06D06	Clark #6, Hazel Dell	8,284	0	101	0	8,385	\$ 3,022,920
06D10	Clark #10, Amboy	0	0	0	0	0	\$ -
06D13	Clark #13, Yacolt	455	0	18	0	473	\$ 165,000
06D15	Clark #11, Clark County Fire & Rescue	4,290	1	101	0	4,392	\$ 2,672,492
06M02	Camas-Washougal Fire Dept	3,876	0	986	0	4,862	\$ 380,582
06M05	Vancouver Fire Department	29,745	0	380	0	30,125	\$ 14,104,386
<b>Cowlitz</b>	<b>% of County Reporting = 86%</b>	<b>13,129</b>	<b>0</b>	<b>460</b>	<b>0</b>	<b>13,589</b>	<b>\$ 2,855,960</b>
08D01	Cowlitz #1, Woodland	0	0	0	0	0	\$ -
08D02	Cowlitz #2, Cowlitz 2 Fire & Rescue	5,108	0	216	0	5,324	\$ 2,107,964
08D03	Cowlitz #3, Toutle	396	0	6	0	402	\$ 150
08D05	Cowlitz #5, Kalama	721	0	85	0	806	\$ 8,800
08D06	Cowlitz #6, Castle Rock	1,441	0	68	0	1,509	\$ -
08D07	Cowlitz #7, Cowlitz-Skamania Fire Dist 7	40	0	3	0	43	\$ 100
08M04	Longview Fire Dept	5,423	0	82	0	5,505	\$ 738,946
<b>Lewis</b>	<b>% of County Reporting = 70%</b>	<b>10,770</b>	<b>0</b>	<b>814</b>	<b>0</b>	<b>11,584</b>	<b>\$ 1,302,392</b>
21D01	Lewis #1, Onalaska	345	0	29	0	374	\$ 25,000
21D02	Lewis #2, Toledo	528	0	111	0	639	\$ -
21D03	Lewis #3, Mossyrock	284	0	23	0	307	\$ -
21D04	Lewis #4, Morton	364	0	26	0	390	\$ -
21D05	Lewis #5, Napavine	1,076	0	58	0	1,134	\$ 451,300
21D06	Lewis #6, Chehalis	670	0	178	0	848	\$ -
21D07	Lewis #20, Cowlitz Co - Lewis Co Fire Dist. 20	307	0	46	0	353	\$ -
21D08	Lewis #8, Salkum/Silver Creek	0	0	0	0	0	\$ -
21D09	Lewis #9, Mineral	186	0	17	0	203	\$ 52,000
21D10	Lewis #10, Packwood	0	0	0	0	0	\$ -
21D11	Lewis #11, Pe Ell	0	0	0	0	0	\$ -
21D13	Lewis #13	72	0	21	0	93	\$ 23,000
21D14	Lewis #14, Randle Fire & EMS	338	0	5	0	343	\$ 19,800
21D15	Lewis #15, Winlock	755	0	111	0	866	\$ -
21D16	Lewis #16, Doty/Dryad/Meskill	0	0	0	0	0	\$ -
21D17	Lewis #17, Big Creek	0	0	0	0	0	\$ -
21D18	Lewis #18, Glenoma	91	0	36	0	127	\$ -
21M01	Riverside Fire Authority	4,063	0	68	0	4,131	\$ 596,492
21M02	Chehalis Fire Dept	1,691	0	85	0	1,776	\$ 134,800
21M03	Morton Fire Dept	0	0	0	0	0	\$ -
<b>Skamania</b>	<b>% of County Reporting = 22%</b>	<b>130</b>	<b>0</b>	<b>12</b>	<b>1</b>	<b>143</b>	<b>\$ 202</b>
30D01	Skamania #1, Carson	0	0	0	0	0	\$ -
30D02	Skamania #2, Stevenson	0	0	0	0	0	\$ -
30D03	Skamania #3, Underwood	19	0	0	1	20	\$ -
30D04	Skamania #4	111	0	12	0	123	\$ 202
30D05	Skamania #5, Skamania	0	0	0	0	0	\$ -
30D06	Skamania #6	0	0	0	0	0	\$ -
30M01	North Bonneville Fire Dept	0	0	0	0	0	\$ -
30M02	Stevenson Fire Dept	0	0	0	0	0	\$ -
30S01	Mill-A Volunteers Fire Dept	0	0	0	0	0	\$ -

**REGION 5 2020 REPORTING SUMMARY (Continued)**

<b>% of Region Reporting = 67%</b>		<b># of Incidents</b>	<b>Exposures</b>	<b>Auto or Mutual Aid Given</b>	<b>No Activity Reports</b>	<b>Total Reports</b>	<b>Total Property &amp; Contents Loss</b>
<b>Wahkiakum</b>	<b>% of County Reporting = 80%</b>	<b>51</b>	<b>0</b>	<b>24</b>	<b>10</b>	<b>85</b>	<b>\$ -</b>
35D01	Wahkiakum #1, Cathlamet	9	0	5	4	18	\$ -
35D02	Wahkiakum #2, Skamokawa	3	0	0	0	3	\$ -
35D03	Wahkiakum #3, Grays River	8	0	1	6	15	\$ -
35D04	Wahkiakum #4, Cathlamet	31	0	18	0	49	\$ -
35M01	Cathlamet Fire Dept	0	0	0	0	0	\$ -
<b>REGION 5 TOTALS</b>		<b>75,645</b>	<b>1</b>	<b>3,467</b>	<b>11</b>	<b>79,124</b>	<b>\$ 25,368,828</b>

## Region 6

Region 6 is comprised of Chelan, Douglas, Grant, and Okanogan counties. In 2020, 64% of the fire service agencies in this region reported NFIRS data to the State Fire Marshal's Office. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,104	1,131	1,275	1,292	1,622	6,424
Dollar Loss	\$5,264,262	\$4,829,100	\$6,873,675	\$17,824,482	\$5,771,153	\$40,562,672
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	6,554	6,599	7,083	8,052	9,063	37,351
Dollar Loss	\$2,000	\$31,000	\$951,300	\$302,700	\$1,214,900	\$2,501,900
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	272	298	306	311	336	1,523
Dollar Loss	\$100	\$25,500	\$1,000	\$200	\$7,500	\$34,300
<b>Service Calls</b>						
# of Incidents	390	489	487	469	591	2,426
Dollar Loss	\$21,000	\$1,000	\$400	\$0	\$0	\$22,400
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	1	6	14	13	4	38
Dollar Loss	\$0	\$0	\$20,000	\$0	\$0	\$20,000
<b>False Alarms and False Calls</b>						
# of Incidents	866	958	1,002	1,145	1,203	5,174
Dollar Loss	\$15,000	\$0	\$0	\$0	\$0	\$15,000
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	45	54	40	50	37	226
Dollar Loss	\$500	\$500	\$10,000	\$1,650	\$0	\$12,650
<b>Good Intent Calls</b>						
# of Incidents	1,431	1,460	1,597	1,830	1,973	8,291
Dollar Loss	\$0	\$1,500	\$0	\$0	\$0	\$1,500
<b>Other Types of Incidents</b>						
# of Incidents	21	26	27	30	37	141
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>10,684</b>	<b>11,021</b>	<b>11,831</b>	<b>13,192</b>	<b>14,866</b>	<b>61,594</b>
<b>Total Dollar Loss</b>	<b>\$5,302,862</b>	<b>\$4,888,600</b>	<b>\$7,856,375</b>	<b>\$18,129,032</b>	<b>\$6,993,553</b>	<b>\$43,170,422</b>

### Region 6 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 6,424 fire incidents, resulting in over \$40 million in property and content loss, have been reported by fire service agencies in Region 6. **Structure Fires (including Confined Fires)** accounted for nearly 23% of the five-year total and 82% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	281	281	256	319	324	1,461
Dollar Loss	\$3,163,436	\$3,716,500	\$4,467,100	\$16,759,637	\$4,979,583	\$33,086,256
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	170	178	148	158	221	875
Dollar Loss	\$1,033,076	\$324,700	\$591,750	\$833,500	\$546,950	\$3,329,976
<b>Natural Vegetation Fires</b>						
# of Incidents	408	413	574	478	725	2,598
Dollar Loss	\$10,400	\$527,650	\$1,415,125	\$57,200	\$73,800	\$2,084,175
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	37	53	37	43	61	231
Dollar Loss	\$400,000	\$57,100	\$172,500	\$35,050	\$29,520	\$694,170
<b>Fire, Other</b>						
# of Incidents	68	55	42	60	61	286
Dollar Loss	\$528,050	\$55,200	\$39,800	\$7,700	\$22,350	\$653,100
<b>Fixed Mobile Property Fires</b>						
# of Incidents	18	23	26	42	27	136
Dollar Loss	\$129,300	\$113,700	\$66,000	\$82,750	\$115,500	\$507,250
<b>Cultivated Vegetation Fires</b>						
# of Incidents	19	22	46	47	34	168
Dollar Loss	\$0	\$33,500	\$120,000	\$40,025	\$0	\$193,525
<b>Outside Rubbish Fires</b>						
# of Incidents	103	106	146	145	169	669
Dollar Loss	\$0	\$750	\$1,400	\$8,620	\$3,450	\$14,220
<b>Total # of Incidents</b>	<b>1,104</b>	<b>1,131</b>	<b>1,275</b>	<b>1,292</b>	<b>1,622</b>	<b>6,424</b>
<b>Total Dollar Loss</b>	<b>\$5,264,262</b>	<b>\$4,829,100</b>	<b>\$6,873,675</b>	<b>\$17,824,482</b>	<b>\$5,771,153</b>	<b>\$40,562,672</b>

### Region 6 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 1,461 structure fire incidents, resulting in more than \$33 million in property and content loss, have been reported by fire service agencies in Region 6. **Building Fires** accounted for 58% of the five-year total and 99% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	158	161	159	191	183	852
Dollar Loss	\$3,028,336	\$3,711,000	\$4,465,800	\$16,753,387	\$4,859,148	\$32,817,671
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	4	10	9	7	21	51
Dollar Loss	\$100,500	\$1,500	\$1,000	\$200	\$110,500	\$213,700
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	1	1	0	0	0	2
Dollar Loss	\$30,000	\$0	\$0	\$0	\$0	\$30,000
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	48	59	41	55	54	257
Dollar Loss	\$4,500	\$4,000	\$0	\$5,050	\$9,935	\$23,485
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	24	22	21	30	27	124
Dollar Loss	\$0	\$0	\$0	\$1,000	\$0	\$1,000
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	44	26	25	35	38	168
Dollar Loss	\$100	\$0	\$300	\$0	\$0	\$400
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	2	2	1	1	1	7
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>281</b>	<b>281</b>	<b>256</b>	<b>319</b>	<b>324</b>	<b>1,461</b>
<b>Total Dollar Loss</b>	<b>\$3,163,436</b>	<b>\$3,716,500</b>	<b>\$4,467,100</b>	<b>\$16,759,637</b>	<b>\$4,979,583</b>	<b>\$33,086,256</b>



## Region 6 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 1,858 fire incidents in **Residential** properties, resulting in more than \$13 million in property and content loss, have been reported by fire service agencies in Region 6. **Residential** fires accounted for 29% of the five-year total and 33% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	335	345	347	379	452	1,858
Dollar Loss	\$1,997,586	\$2,588,950	\$1,972,600	\$4,008,787	\$2,860,555	\$13,428,478
<b>Manufacturing and Processing</b>						
# of Incidents	9	20	11	10	9	59
Dollar Loss	\$71,700	\$50,000	\$20,000	\$12,035,000	\$617,500	\$12,794,200
<b>Outside or Special Properties</b>						
# of Incidents	587	579	718	690	891	3,465
Dollar Loss	\$228,026	\$927,200	\$2,158,175	\$351,145	\$721,370	\$4,385,916
<b>Storage</b>						
# of Incidents	37	49	43	50	45	224
Dollar Loss	\$984,800	\$647,700	\$384,300	\$790,200	\$331,850	\$3,138,850
<b>Assembly</b>						
# of Incidents	21	17	24	16	16	94
Dollar Loss	\$321,500	\$5,000	\$2,046,000	\$0	\$52,500	\$2,425,000
<b>Mercantile and Business</b>						
# of Incidents	26	29	23	18	33	129
Dollar Loss	\$536,500	\$521,700	\$218,000	\$114,000	\$644,778	\$2,034,978
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	54	64	77	86	112	393
Dollar Loss	\$940,000	\$85,400	\$20,200	\$45,000	\$250,800	\$1,341,400
<b>None</b>						
# of Incidents	12	3	5	6	2	28
Dollar Loss	\$44,150	\$500	\$18,000	\$470,400	\$1,800	\$534,850
<b>Other Property Uses</b>						
# of Incidents	6	5	6	18	29	64
Dollar Loss	\$0	\$0	\$0	\$0	\$260,000	\$260,000
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	4	1	3	2	7	17
Dollar Loss	\$140,000	\$0	\$0	\$4,200	\$0	\$144,200
<b>Educational Uses</b>						
# of Incidents	5	8	6	6	4	29
Dollar Loss	\$0	\$150	\$36,400	\$1,250	\$4,000	\$41,800
<b>Undetermined</b>						
# of Incidents	8	11	12	11	22	64
Dollar Loss	\$0	\$2,500	\$0	\$4,500	\$26,000	\$33,000
<b>Total # of Incidents</b>	<b>1,104</b>	<b>1,131</b>	<b>1,275</b>	<b>1,292</b>	<b>1,622</b>	<b>6,424</b>
<b>Total Dollar Loss</b>	<b>\$5,264,262</b>	<b>\$4,829,100</b>	<b>\$6,873,675</b>	<b>\$17,824,482</b>	<b>\$5,771,153</b>	<b>\$40,562,672</b>

## Region 6 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 278 fire incidents in the **Structural Areas** of a building, resulting in more than \$15 million in property and content loss, have been reported by fire service agencies in Region 6. **Structural Areas** fires accounted for 4% of the five-year total and 38% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structural Areas</b>						
# of Incidents	36	54	46	70	72	278
Dollar Loss	\$872,536	\$292,250	\$549,000	\$12,663,250	\$1,231,000	\$15,608,036
<b>Storage Areas</b>						
# of Incidents	31	45	27	50	39	192
Dollar Loss	\$788,700	\$1,865,700	\$250,300	\$2,969,937	\$317,000	\$6,191,637
<b>Undetermined</b>						
# of Incidents	172	138	162	155	235	862
Dollar Loss	\$1,375,400	\$1,184,500	\$272,400	\$276,800	\$2,359,966	\$5,469,066
<b>Functional Areas</b>						
# of Incidents	102	100	91	84	83	460
Dollar Loss	\$673,850	\$293,300	\$2,733,100	\$851,550	\$528,402	\$5,080,202
<b>Vehicle Areas</b>						
# of Incidents	140	138	125	132	155	690
Dollar Loss	\$546,276	\$330,200	\$1,258,350	\$770,650	\$476,700	\$3,382,176
<b>(Blank)</b>						
# of Inc	185	114	158	199	286	942
Dollar Loss	\$4,900	\$530,900	\$1,052,900	\$57,695	\$40,635	\$1,687,030
<b>Outside Areas</b>						
# of Incidents	367	474	590	517	634	2,582
Dollar Loss	\$25,600	\$234,800	\$503,600	\$119,850	\$328,700	\$1,212,550
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	7	7	6	5	7	32
Dollar Loss	\$590,000	\$2,800	\$207,500	\$50,050	\$45,280	\$895,630
<b>Other Areas of Origin</b>						
# of Incidents	33	19	33	40	69	194
Dollar Loss	\$350,300	\$0	\$4,500	\$2,500	\$271,170	\$628,470
<b>Service or Equipment Areas</b>						
# of Incidents	23	35	30	29	34	151
Dollar Loss	\$34,000	\$94,500	\$42,025	\$2,200	\$22,100	\$194,825
<b>Technical Processing Areas</b>						
# of Incidents	5	5	5	4	2	21
Dollar Loss	\$1,700	\$150	\$0	\$0	\$150,000	\$151,850
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	3	2	2	7	6	20
Dollar Loss	\$1,000	\$0	\$0	\$60,000	\$200	\$61,200
<b>Total # of Incidents</b>	<b>1,104</b>	<b>1,131</b>	<b>1,275</b>	<b>1,292</b>	<b>1,622</b>	<b>6,424</b>
<b>Total Dollar Loss</b>	<b>\$5,264,262</b>	<b>\$4,829,100</b>	<b>\$6,873,675</b>	<b>\$17,824,482</b>	<b>\$5,771,153</b>	<b>\$40,562,672</b>

## Region 6 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 969 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$6 million in property and content loss, have been reported by fire service agencies in Region 6.

**Operating Equipment** fires accounted for 15% of the five-year total and 16% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	469	463	556	509	683	2,680
Dollar Loss	\$3,987,412	\$3,443,350	\$2,171,050	\$14,185,537	\$2,609,218	\$26,396,567
<b>Operating Equipment</b>						
# of Incidents	170	232	168	192	207	969
Dollar Loss	\$712,850	\$704,200	\$2,806,925	\$992,300	\$1,164,580	\$6,380,855
<b>Chemical or Natural</b>						
# of Incidents	23	27	35	57	25	167
Dollar Loss	\$401,700	\$52,150	\$142,500	\$1,750,000	\$2,500	\$2,348,850
<b>Hot or Smoldering Object</b>						
# of Incidents	70	78	86	100	113	447
Dollar Loss	\$101,000	\$12,200	\$348,500	\$113,550	\$1,583,720	\$2,158,970
<b>(blank)</b>						
# of Incidents	185	114	158	199	286	942
Dollar Loss	\$4,900	\$530,900	\$1,052,900	\$57,695	\$40,635	\$1,687,030
<b>Heat Spread from Another Fire</b>						
# of Incidents	33	34	75	54	86	282
Dollar Loss	\$31,000	\$1,200	\$142,500	\$194,500	\$280,500	\$649,700
<b>Heat Source Other</b>						
# of Incidents	39	45	46	51	70	251
Dollar Loss	\$500	\$27,800	\$5,000	\$511,700	\$36,000	\$581,000
<b>Open Flame or Smoking Material</b>						
# of Incidents	93	101	133	114	110	551
Dollar Loss	\$14,900	\$57,300	\$174,300	\$17,200	\$54,000	\$317,700
<b>Explosives and Fireworks</b>						
# of Incidents	21	35	17	16	39	128
Dollar Loss	\$10,000	\$0	\$30,000	\$2,000	\$0	\$42,000
<b>Multiple Heat Sources</b>						
# of Incidents	1	2	1	0	3	7
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>1,104</b>	<b>1,131</b>	<b>1,275</b>	<b>1,292</b>	<b>1,622</b>	<b>6,424</b>
<b>Total Dollar Loss</b>	<b>\$5,264,262</b>	<b>\$4,829,100</b>	<b>\$6,873,675</b>	<b>\$17,824,482</b>	<b>\$5,771,153</b>	<b>\$40,562,672</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 6 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 2,154 fire incidents with an **Unknown** cause of ignition, resulting in more than \$24 million in property and content loss, have been reported by fire service agencies in Region 6. **Unknown** ignition caused fires accounted for 34% of the five-year total and 59% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	425	346	398	404	581	2,154
Dollar Loss	\$3,746,376	\$3,620,800	\$2,639,150	\$13,026,095	\$1,014,802	\$24,047,223
<b>Natural</b>						
# of Incidents	44	66	76	78	66	330
Dollar Loss	\$401,700	\$77,150	\$142,525	\$1,750,000	\$22,500	\$2,393,875
<b>Investigation with Arson Module</b>						
# of Incidents	11	13	15	13	17	69
Dollar Loss	\$309,036	\$0	\$0	\$608,487	\$1,333,466	\$2,250,989
<b>Cooking</b>						
# of Incidents	55	60	48	51	55	269
Dollar Loss	\$6,050	\$5,500	\$2,051,000	\$35,300	\$19,935	\$2,117,785
<b>Other Unintentional, Careless</b>						
# of Incidents	131	151	220	187	267	956
Dollar Loss	\$271,300	\$75,900	\$288,800	\$945,800	\$389,850	\$1,971,650
<b>Equipment Misoperation, Failure</b>						
# of Incidents	57	70	67	65	77	336
Dollar Loss	\$47,500	\$251,400	\$732,600	\$314,000	\$407,300	\$1,752,800
<b>Electrical Malfunction</b>						
# of Incidents	73	88	62	84	96	403
Dollar Loss	\$128,250	\$424,100	\$231,800	\$336,950	\$518,480	\$1,639,580
<b>Open Flame</b>						
# of Incidents	51	58	74	75	98	356
Dollar Loss	\$1,700	\$200	\$38,500	\$3,500	\$1,432,400	\$1,476,300
<b>Other Heat</b>						
# of Incidents	53	69	56	64	88	330
Dollar Loss	\$110,200	\$68,300	\$422,500	\$9,000	\$176,920	\$786,920
<b>Intentional</b>						
# of Incidents	115	118	173	158	178	742
Dollar Loss	\$500	\$10,550	\$201,800	\$55,500	\$362,000	\$630,350

**Region 6 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Heating</b>						
# of Incidents	38	36	37	54	45	210
Dollar Loss	\$35,550	\$15,500	\$47,000	\$456,700	\$13,500	\$568,250
<b>Other Equipment</b>						
# of Incidents	8	2	6	15	9	40
Dollar Loss	\$6,100	\$225,000	\$0	\$225,250	\$62,500	\$518,850
<b>Appliances</b>						
# of Incidents	19	23	15	18	12	87
Dollar Loss	\$156,300	\$54,700	\$11,500	\$55,700	\$16,000	\$294,200
<b>Smoking</b>						
# of Incidents	12	14	12	15	15	68
Dollar Loss	\$2,000	\$0	\$60,000	\$2,200	\$1,500	\$65,700
<b>Exposure</b>						
# of Incidents	6	10	10	6	6	38
Dollar Loss	\$31,000	\$0	\$6,500	\$0	\$0	\$37,500
<b>Playing with Heat Source</b>						
# of Incidents	6	7	6	5	12	36
Dollar Loss	\$10,700	\$0	\$0	\$0	\$0	\$10,700
<b>Total # of Incidents</b>	<b>1,104</b>	<b>1,131</b>	<b>1,275</b>	<b>1,292</b>	<b>1,622</b>	<b>6,424</b>
<b>Total Dollar Loss</b>	<b>\$5,264,262</b>	<b>\$4,829,100</b>	<b>\$6,873,675</b>	<b>\$17,824,482</b>	<b>\$5,771,153</b>	<b>\$40,562,672</b>

## Region 6 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 6.

REGION 6 2020 REPORTING SUMMARY							
% of Region Reporting = 64%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Chelan</b>	<b>% of County Reporting = 89%</b>	<b>5,857</b>	<b>0</b>	<b>410</b>	<b>12</b>	<b>6,279</b>	<b>\$ 1,776,266</b>
04D01	Chelan #1	2,986	0	149	0	3,135	\$ -
04D03	Chelan #3, Leavenworth	540	0	113	0	653	\$ 20,000
04D05	Chelan #5, Manson	353	0	87	0	440	\$ 8,400
04D06	Chelan #6, Monitor/Dryden/Cashmere/Peshastin/Blewett Pass	489	0	36	0	525	\$ -
04D07	Chelan #7, Chelan Fire & Rescue	966	0	10	0	976	\$ 1,710,866
04D08	Chelan #8, Entiat	261	0	4	0	265	\$ 37,000
04D09	Chelan #9, Lake Wenatchee Fire & Rescue	262	0	11	0	273	\$ -
04D10	Chelan #10, Stehekin	0	0	0	0	0	\$ -
04M01	Cashmere Fire Dept	0	0	0	12	12	\$ -
<b>Douglas</b>	<b>% of County Reporting = 50%</b>	<b>1,592</b>	<b>0</b>	<b>131</b>	<b>0</b>	<b>1,723</b>	<b>\$ 1,491,200</b>
09D01	Douglas #1, Waterville	0	0	0	0	0	\$ -
09D02	Douglas #2, E. Wenatchee/Rock Island	1,311	0	93	0	1,404	\$ -
09D03	Douglas #3	0	0	0	0	0	\$ -
09D04	Douglas #4, Orondo	219	0	29	0	248	\$ 1,253,700
09D05	Douglas #5	62	0	9	0	71	\$ 237,500
09M01	Bridgeport Fire Dept	0	0	0	0	0	\$ -
<b>Grant</b>	<b>% of County Reporting = 83%</b>	<b>6,111</b>	<b>0</b>	<b>262</b>	<b>7</b>	<b>6,380</b>	<b>\$ 768,987</b>
13D03	Grant #3, Quincy	1,009	0	11	0	1,020	\$ 10,000
13D04	Grant #4, Warden	382	0	7	0	389	\$ -
13D05	Grant #5, Moses Lake	1,058	0	11	0	1,069	\$ -
13D06	Grant #6, Hartline	4	0	17	0	21	\$ -
13D07	Grant #7	321	0	44	0	365	\$ 33,100
13D08	Grant #8	523	0	29	0	552	\$ 442,000
13D10	Grant #10, Royal Slope	383	0	8	0	391	\$ -
13D11	Grant #11, E. Royal Slope	58	0	2	1	61	\$ -
13D12	Grant #12, Wilson Creek	0	0	0	0	0	\$ -
13D13	Grant #13, Ephrata	118	0	31	0	149	\$ -
13D14	Grant #14	0	0	0	0	0	\$ -
13D15	Grant #15, Moses Lake	0	0	0	0	0	\$ -
13M01	Coulee City/Douglas #8	9	0	19	1	29	\$ 35,000
13M03	Electric City Fire Dept	24	0	21	1	46	\$ -
13M04	Ephrata Fire Dept	427	0	26	0	453	\$ -
13M05	Grand Coulee Fire Dept	39	0	24	4	67	\$ 75,500
13M08	Moses Lake Fire Department	1,708	0	11	0	1,719	\$ 173,387
17S02	Port of Moses Lake Fire Dept	48	0	1	0	49	\$ -

REGION 6 2020 REPORTING SUMMARY (Continued)

% of Region Reporting = 64%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
Okanogan	% of County Reporting = 40%	1,306	0	256	10	1,572	\$ 2,957,100
24D02	Okanogan #2, Elmer City	0	0	0	0	0	\$ -
24D03	Okanogan #3	176	0	86	0	262	\$ 1,258,600
24D04	Okanogan #4, Tonasket	126	0	36	0	162	\$ 130,800
24D06	Okanogan #6, Carlton/Twisp/Winthrop/Mazama	328	0	12	0	340	\$ 1,118,500
24D07	Okanogan #7, Riverside	0	0	0	0	0	\$ -
24D08	Okanogan #8, Okanogan	0	0	0	0	0	\$ -
24D09	Okanogan #9	0	0	2	10	12	\$ -
24D10	Okanogan #10, Loomis	0	0	0	0	0	\$ -
24D11	Okanogan #11, Molson/Chesaw	0	0	0	0	0	\$ -
24D12	Okanogan #12	0	0	0	0	0	\$ -
24D15	Okanogan/Douglas #15	505	0	60	0	565	\$ -
24D16	Okanogan #16, Aeneas Valley	0	0	0	0	0	\$ -
24M00	Brewster Fire Dept	0	0	0	0	0	\$ -
24M01	Coulee Dam Fire Dept	0	0	0	0	0	\$ -
24M03	Nespelem Fire Dept	0	0	0	0	0	\$ -
24M04	Okanogan Fire Dept	39	0	45	0	84	\$ 299,850
24M05	Omak Fire Dept	132	0	15	0	147	\$ 149,350
24M06	Okanogan #1, Oroville Fire Dept	0	0	0	0	0	\$ -
24M07	Pateros Fire Dept	0	0	0	0	0	\$ -
24M11	Conconully Fire Dept	0	0	0	0	0	\$ -
<b>REGION 6 TOTALS</b>		<b>14,866</b>	<b>0</b>	<b>1,059</b>	<b>29</b>	<b>15,954</b>	<b>\$ 6,993,553</b>

## Region 7

Region 7 is comprised of Kittitas, Klickitat, and Yakima counties. In 2020, 64% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,371	1,530	1,847	1,610	1,832	<b>8,190</b>
Dollar Loss	\$14,200,985	\$19,189,833	\$19,353,459	\$18,145,678	\$14,966,181	<b>\$85,856,136</b>
<b>Service Calls</b>						
# of Incidents	1,414	1,694	1,930	1,807	1,469	<b>8,314</b>
Dollar Loss	\$113,300	\$202,000	\$12,750	\$123,000	\$7,000	<b>\$458,050</b>
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	16,941	18,238	19,497	20,465	19,694	<b>94,835</b>
Dollar Loss	\$100,000	\$11,500	\$119,600	\$142,000	\$253,000	<b>\$626,100</b>
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	407	532	493	513	534	<b>2,479</b>
Dollar Loss	\$7,100	\$40,950	\$9,770	\$65,220	\$50,740	<b>\$173,780</b>
<b>False Alarms and False Calls</b>						
# of Incidents	1,151	1,350	1,340	1,466	1,204	<b>6,511</b>
Dollar Loss	\$10,050	\$5,400	\$0	\$0	\$1,200	<b>\$16,650</b>
<b>Other Types of Incidents</b>						
# of Incidents	72	246	116	82	72	<b>588</b>
Dollar Loss	\$0	\$10,000	\$200	\$0	\$0	<b>\$10,200</b>
<b>Good Intent Calls</b>						
# of Incidents	2,789	3,107	3,504	3,270	2,991	<b>15,661</b>
Dollar Loss	\$50	\$500	\$0	\$6,100	\$3,400	<b>\$10,050</b>
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	29	35	27	29	31	<b>151</b>
Dollar Loss	\$500	\$100	\$1,000	\$150	\$1,100	<b>\$2,850</b>
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	11	19	4	18	24	<b>76</b>
Dollar Loss	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Total # of Incidents</b>	<b>24,185</b>	<b>26,751</b>	<b>28,758</b>	<b>29,260</b>	<b>27,851</b>	<b>136,805</b>
<b>Total Dollar Loss</b>	<b>\$14,431,985</b>	<b>\$19,460,283</b>	<b>\$19,496,779</b>	<b>\$18,482,148</b>	<b>\$15,282,621</b>	<b>\$87,153,816</b>



### Region 7 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 8,190 fire incidents, resulting in more than \$85 million in property and content loss, have been reported by fire service agencies in Region 7. **Structure Fires (including Confined Fires)** accounted for 28% of the five-year total and nearly 76% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	409	460	545	473	439	2,326
Dollar Loss	\$10,783,550	\$14,127,010	\$14,333,590	\$14,949,020	\$10,745,605	\$64,938,775
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	251	253	251	264	270	1,289
Dollar Loss	\$2,599,875	\$1,937,423	\$1,654,000	\$2,004,171	\$1,648,196	\$9,843,665
<b>Natural Vegetation Fires</b>						
# of Incidents	431	499	650	517	692	2,789
Dollar Loss	\$235,960	\$2,677,500	\$1,174,889	\$489,900	\$1,548,826	\$6,127,075
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	59	62	66	65	102	354
Dollar Loss	\$126,925	\$42,600	\$1,046,155	\$143,250	\$457,550	\$1,816,480
<b>Cultivated Vegetation Fires</b>						
# of Incidents	17	15	29	17	25	103
Dollar Loss	\$185,500	\$48,000	\$724,380	\$342,800	\$190,000	\$1,490,680
<b>Fixed Mobile Property Fires</b>						
# of Incidents	15	19	18	16	34	102
Dollar Loss	\$55,200	\$198,500	\$281,050	\$37,700	\$186,639	\$759,089
<b>Fire, Other</b>						
# of Incidents	83	104	140	105	96	528
Dollar Loss	\$207,950	\$142,850	\$127,310	\$169,101	\$78,930	\$726,141
<b>Outside Rubbish Fires</b>						
# of Incidents	106	118	148	153	174	699
Dollar Loss	\$6,025	\$15,950	\$12,085	\$9,736	\$110,435	\$154,231
<b>Total # of Incidents</b>	<b>1,371</b>	<b>1,530</b>	<b>1,847</b>	<b>1,610</b>	<b>1,832</b>	<b>8,190</b>
<b>Total Dollar Loss</b>	<b>\$14,200,985</b>	<b>\$19,189,833</b>	<b>\$19,353,459</b>	<b>\$18,145,678</b>	<b>\$14,966,181</b>	<b>\$85,856,136</b>

### Region 7 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 2,326 structure fire incidents, resulting in more than \$64 million in property and content loss, have been reported by fire service agencies in Region 7. **Building Fires** accounted for 57% of the five-year total and 99% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	225	273	290	291	258	1,337
Dollar Loss	\$10,562,760	\$13,912,510	\$14,261,940	\$14,889,145	\$10,672,700	\$64,299,055
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	13	17	11	13	14	68
Dollar Loss	\$206,100	\$102,600	\$8,350	\$44,100	\$57,250	\$418,400
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	27	34	36	24	23	144
Dollar Loss	\$1,100	\$95,000	\$7,000	\$1,500	\$6,400	\$111,000
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	67	56	93	64	79	359
Dollar Loss	\$7,360	\$13,800	\$42,605	\$11,000	\$4,950	\$79,715
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	71	76	106	71	64	388
Dollar Loss	\$6,180	\$2,300	\$1,695	\$2,775	\$4,305	\$17,255
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	1	1	7	2	1	12
Dollar Loss	\$0	\$800	\$12,000	\$0	\$0	\$12,800
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	5	1	1	6	0	13
Dollar Loss	\$50	\$0	\$0	\$500	\$0	\$550
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	0	2	1	2	0	5
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>409</b>	<b>460</b>	<b>545</b>	<b>473</b>	<b>439</b>	<b>2,326</b>
<b>Total Dollar Loss</b>	<b>\$10,783,550</b>	<b>\$14,127,010</b>	<b>\$14,333,590</b>	<b>\$14,949,020</b>	<b>\$10,745,605</b>	<b>\$64,938,775</b>

## Region 7 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 2,737 fire incidents in **Residential** properties, resulting in more than \$41 million in property and content loss, have been reported by fire service agencies in Region 7. **Residential** fires accounted for 33% of the five-year total and 48% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	486	519	625	502	605	2,737
Dollar Loss	\$9,662,795	\$6,135,890	\$10,723,244	\$7,671,291	\$7,198,169	\$41,391,389
<b>Storage</b>						
# of Incidents	42	47	64	68	40	261
Dollar Loss	\$642,600	\$5,801,750	\$2,111,600	\$6,144,080	\$952,750	\$15,652,780
<b>Outside or Special Properties</b>						
# of Incidents	683	798	913	867	1,009	4,270
Dollar Loss	\$1,298,430	\$3,539,893	\$1,908,565	\$1,894,112	\$3,044,776	\$11,685,776
<b>Manufacturing and Processing</b>						
# of Incidents	8	17	16	22	16	79
Dollar Loss	\$1,096,000	\$430,500	\$2,949,500	\$1,447,000	\$333,300	\$6,256,300
<b>Mercantile and Business</b>						
# of Incidents	39	37	41	52	39	208
Dollar Loss	\$444,500	\$1,778,750	\$129,000	\$258,050	\$1,748,550	\$4,358,850
<b>Assembly</b>						
# of Incidents	27	29	45	23	29	153
Dollar Loss	\$448,950	\$455,650	\$1,091,760	\$168,700	\$1,066,280	\$3,231,340
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	36	42	43	41	60	222
Dollar Loss	\$489,000	\$963,000	\$408,350	\$319,395	\$487,856	\$2,667,601
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	2	4	8	12	8	34
Dollar Loss	\$0	\$500	\$9,500	\$241,000	\$4,000	\$255,000
<b>None</b>						
# of Incidents	29	15	60	2	6	112
Dollar Loss	\$90,000	\$80,000	\$0	\$0	\$5,500	\$175,500
<b>Educational Uses</b>						
# of Incidents	7	6	13	8	4	38
Dollar Loss	\$28,600	\$0	\$940	\$2,050	\$125,000	\$156,590
<b>Other Property Uses</b>						
# of Incidents	10	14	18	10	10	62
Dollar Loss	\$110	\$3,900	\$21,000	\$0	\$0	\$25,010
<b>Undetermined</b>						
# of Incidents	2	2	1	3	6	14
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>1,371</b>	<b>1,530</b>	<b>1,847</b>	<b>1,610</b>	<b>1,832</b>	<b>8,190</b>
<b>Total Dollar Loss</b>	<b>\$14,200,985</b>	<b>\$19,189,833</b>	<b>\$19,353,459</b>	<b>\$18,145,678</b>	<b>\$14,966,181</b>	<b>\$85,856,136</b>

## Region 7 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 457 fire incidents in the **Structural Areas** of a building, resulting in more than \$15 million in property and content loss, have been reported by fire service agencies in Region 7. **Structural Areas** fires accounted for 6% of the five-year total and 17% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	141	189	228	178	213	949
Dollar Loss	\$3,986,150	\$4,615,950	\$1,763,020	\$3,669,043	\$3,083,820	\$17,117,983
<b>Structural Areas</b>						
# of Incidents	85	91	76	104	101	457
Dollar Loss	\$2,587,075	\$2,799,300	\$1,227,150	\$4,018,640	\$4,372,550	\$15,004,715
<b>Service or Equipment Areas</b>						
# of Incidents	24	28	41	41	30	164
Dollar Loss	\$275,450	\$3,293,500	\$6,426,000	\$416,700	\$98,300	\$10,509,950
<b>Functional Areas</b>						
# of Incidents	149	153	156	148	128	734
Dollar Loss	\$2,385,170	\$1,460,550	\$2,420,640	\$2,360,045	\$1,635,730	\$10,262,135
<b>Outside Areas</b>						
# of Incidents	491	546	728	620	832	3,217
Dollar Loss	\$630,915	\$562,700	\$2,403,580	\$3,095,236	\$2,629,846	\$9,322,277
<b>Vehicle Areas</b>						
# of Incidents	212	205	218	228	205	1,068
Dollar Loss	\$2,261,700	\$1,507,873	\$1,440,550	\$1,846,879	\$1,075,676	\$8,132,678
<b>Storage Areas</b>						
# of Incidents	48	70	63	65	58	304
Dollar Loss	\$1,410,325	\$1,710,900	\$1,600,700	\$1,674,710	\$1,147,740	\$7,544,375
<b>(Blank)</b>						
# of Inc	131	122	186	121	117	677
Dollar Loss	\$204,200	\$2,370,000	\$1,027,154	\$419,500	\$515,500	\$4,536,354
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	14	14	12	11	12	63
Dollar Loss	\$89,300	\$453,060	\$409,000	\$94,000	\$207,030	\$1,252,390
<b>Other Areas of Origin</b>						
# of Incidents	69	98	127	81	125	500
Dollar Loss	\$222,200	\$293,000	\$554,465	\$42,000	\$126,000	\$1,237,665
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	6	10	10	9	10	45
Dollar Loss	\$148,500	\$13,500	\$61,200	\$393,925	\$13,989	\$631,114
<b>Technical Processing Areas</b>						
# of Incidents	1	4	2	4	1	12
Dollar Loss	\$0	\$109,500	\$20,000	\$115,000	\$60,000	\$304,500
<b>Total # of Incidents</b>	<b>1,371</b>	<b>1,530</b>	<b>1,847</b>	<b>1,610</b>	<b>1,832</b>	<b>8,190</b>
<b>Total Dollar Loss</b>	<b>\$14,200,985</b>	<b>\$19,189,833</b>	<b>\$19,353,459</b>	<b>\$18,145,678</b>	<b>\$14,966,181</b>	<b>\$85,856,136</b>

## Region 7 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,300 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$11 million in property and content loss, have been reported by fire service agencies in Region 7.

**Operating Equipment** fires accounted for 16% of the five-year total and 14% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	544	724	877	704	869	3,718
Dollar Loss	\$8,981,785	\$9,899,930	\$10,509,785	\$9,909,206	\$9,082,286	\$48,382,992
<b>Operating Equipment</b>						
# of Incidents	265	268	254	265	248	1,300
Dollar Loss	\$1,490,895	\$2,339,362	\$1,948,760	\$4,554,470	\$1,356,350	\$11,689,837
<b>Open Flame or Smoking Material</b>						
# of Incidents	147	112	156	166	168	749
Dollar Loss	\$1,290,905	\$2,959,000	\$3,799,905	\$1,037,625	\$1,046,055	\$10,133,490
<b>Hot or Smoldering Object</b>						
# of Incidents	99	104	136	117	156	612
Dollar Loss	\$1,010,200	\$720,600	\$1,253,890	\$366,002	\$2,072,300	\$5,422,992
<b>(blank)</b>						
# of Incidents	131	122	186	121	117	677
Dollar Loss	\$204,200	\$2,370,000	\$1,027,154	\$419,500	\$515,500	\$4,536,354
<b>Heat Source Other</b>						
# of Incidents	79	92	109	84	134	498
Dollar Loss	\$951,500	\$90,200	\$483,715	\$535,500	\$345,200	\$2,406,115
<b>Chemical or Natural</b>						
# of Incidents	11	16	14	37	20	98
Dollar Loss	\$142,500	\$300,100	\$34,050	\$1,016,210	\$16,000	\$1,508,860
<b>Heat Spread from Another Fire</b>						
# of Incidents	51	56	70	50	81	308
Dollar Loss	\$125,500	\$502,641	\$167,800	\$132,115	\$486,800	\$1,414,856
<b>Explosives and Fireworks</b>						
# of Incidents	44	36	43	64	38	225
Dollar Loss	\$3,500	\$8,000	\$124,400	\$69,550	\$45,690	\$251,140
<b>Multiple Heat Sources</b>						
# of Incidents	0	0	2	2	1	5
Dollar Loss	\$0	\$0	\$4,000	\$105,500	\$0	\$109,500
<b>Total # of Incidents</b>	<b>1,371</b>	<b>1,530</b>	<b>1,847</b>	<b>1,610</b>	<b>1,832</b>	<b>8,190</b>
<b>Total Dollar Loss</b>	<b>\$14,200,985</b>	<b>\$19,189,833</b>	<b>\$19,353,459</b>	<b>\$18,145,678</b>	<b>\$14,966,181</b>	<b>\$85,856,136</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 7 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 2,331 fire incidents with an **Unknown** cause of ignition, resulting in more than \$27 million in property and content loss, have been reported by fire service agencies in Region 7. **Unknown** ignition caused fires accounted for 28% of the five-year total and 32% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	338	464	545	424	560	2,331
Dollar Loss	\$2,013,125	\$4,849,180	\$7,790,145	\$6,946,977	\$5,843,265	\$27,442,692
<b>Other Unintentional, Careless</b>						
# of Incidents	195	226	293	190	262	1,166
Dollar Loss	\$3,870,010	\$4,061,552	\$1,708,250	\$1,297,244	\$1,842,501	\$12,779,557
<b>Investigation with Arson Module</b>						
# of Incidents	30	38	38	38	27	171
Dollar Loss	\$3,556,950	\$646,650	\$4,363,905	\$977,450	\$2,288,820	\$11,833,775
<b>Other Heat</b>						
# of Incidents	76	65	97	95	108	441
Dollar Loss	\$1,006,600	\$3,174,600	\$716,040	\$557,002	\$719,300	\$6,173,542
<b>Intentional</b>						
# of Incidents	224	188	298	281	267	1,258
Dollar Loss	\$502,480	\$3,294,400	\$531,905	\$804,550	\$1,017,464	\$6,150,799
<b>Equipment Misoperation, Failure</b>						
# of Incidents	93	104	94	101	105	497
Dollar Loss	\$376,600	\$1,012,350	\$568,010	\$3,056,450	\$635,975	\$5,649,385
<b>Electrical Malfunction</b>						
# of Incidents	97	91	93	115	81	477
Dollar Loss	\$747,685	\$568,910	\$1,029,900	\$987,810	\$718,800	\$4,053,105
<b>Exposure</b>						
# of Incidents	9	14	28	10	12	73
Dollar Loss	\$144,000	\$186,141	\$1,105,689	\$15,000	\$1,016,700	\$2,467,530
<b>Heating</b>						
# of Incidents	55	58	52	65	42	272
Dollar Loss	\$511,350	\$303,850	\$323,500	\$1,086,080	\$130,750	\$2,355,530
<b>Open Flame</b>						
# of Incidents	78	79	106	101	139	503
Dollar Loss	\$589,500	\$222,600	\$419,350	\$831,930	\$122,800	\$2,186,180

**Region 7 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Natural</b>						
# of Incidents	48	63	50	78	108	347
Dollar Loss	\$213,000	\$310,100	\$57,450	\$1,053,210	\$198,556	\$1,832,316
<b>Cooking</b>						
# of Incidents	79	70	100	63	80	392
Dollar Loss	\$179,960	\$288,900	\$530,565	\$390,900	\$133,950	\$1,524,275
<b>Appliances</b>						
# of Incidents	12	24	17	10	17	80
Dollar Loss	\$142,800	\$210,250	\$37,350	\$13,400	\$122,100	\$525,900
<b>Playing with Heat Source</b>						
# of Incidents	13	19	18	12	7	69
Dollar Loss	\$97,000	\$3,300	\$70,400	\$100,100	\$140,000	\$410,800
<b>Smoking</b>						
# of Incidents	20	19	12	20	13	84
Dollar Loss	\$229,525	\$18,050	\$0	\$5,875	\$28,700	\$282,150
<b>Other Equipment</b>						
# of Incidents	4	8	6	7	4	29
Dollar Loss	\$20,400	\$39,000	\$101,000	\$21,700	\$6,500	\$188,600
<b>Total # of Incidents</b>	<b>1,371</b>	<b>1,530</b>	<b>1,847</b>	<b>1,610</b>	<b>1,832</b>	<b>8,190</b>
<b>Total Dollar Loss</b>	<b>\$14,200,985</b>	<b>\$19,189,833</b>	<b>\$19,353,459</b>	<b>\$18,145,678</b>	<b>\$14,966,181</b>	<b>\$85,856,136</b>

## Region 7 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 7.

REGION 7 2020 REPORTING SUMMARY							
% of Region Reporting = 64%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Kittitas</b>	<b>% of County Reporting = 67%</b>	<b>4,970</b>	<b>0</b>	<b>48</b>	<b>0</b>	<b>5,018</b>	<b>\$ 599,640</b>
19D01	Kittitas #1, Thorp	203	0	0	0	203	\$ -
19D02	Kittitas #2, Kittitas Valley Fire &	3,515	0	8	0	3,523	\$ 556,440
19D03	Kittitas #3, Easton	0	0	0	0	0	\$ -
19D04	Kittitas #4, Vantage	0	0	0	0	0	\$ -
19D06	Kittitas #6, Lake Cle Elum	28	0	1	0	29	\$ -
19D07	Kittitas #7	693	0	27	0	720	\$ 43,200
19M01	Cle Elum Fire Dept	484	0	12	0	496	\$ -
19M04	Roslyn Fire Dept	0	0	0	0	0	\$ -
19M05	S. Cle Elum	47	0	0	0	47	\$ -
<b>Klickitat</b>	<b>% of County Reporting = 28%</b>	<b>781</b>	<b>0</b>	<b>193</b>	<b>0</b>	<b>974</b>	<b>\$ 64,000</b>
20D01	Klickitat #1, Trout Lake	0	0	0	0	0	\$ -
20D02	Klickitat #2, Bickleton	0	0	0	0	0	\$ -
20D03	Klickitat #3	135	0	54	0	189	\$ 34,000
20D04	Klickitat #4, Lyle	142	0	22	0	164	\$ -
20D05	Klickitat #5, Centerville	0	0	0	0	0	\$ -
20D06	Klickitat #6, Dallesport	0	0	0	0	0	\$ -
20D07	Klickitat #7, Goldendale	280	0	17	0	297	\$ -
20D08	Klickitat #8, Glenwood	0	0	0	0	0	\$ -
20D09	Klickitat #9, Roosevelt	0	0	0	0	0	\$ -
20D10	Klickitat #10, Alderdale	0	0	0	0	0	\$ -
20D11	Klickitat #11, Wishram	0	0	0	0	0	\$ -
20D12	Klickitat #12, Klickitat	0	0	0	0	0	\$ -
20D13	Klickitat #13, Appleton	0	0	0	0	0	\$ -
20D14	Klickitat #14, High Prairie	0	0	0	0	0	\$ -
20D15	Klickitat #15, Wahkiacus	0	0	0	0	0	\$ -
20M01	Bingen Fire Dept	0	0	0	0	0	\$ -
20M02	Goldendale Fire Dept	177	0	10	0	187	\$ -
20M03	White Salmon Fire Dept	47	0	90	0	137	\$ 30,000



**REGION 7 2020 REPORTING SUMMARY (Continued)**

<b>% of Region Reporting = 64%</b>		<b># of Incidents</b>	<b>Exposures</b>	<b>Auto or Mutual Aid Given</b>	<b>No Activity Reports</b>	<b>Total Reports</b>	<b>Total Property &amp; Contents Loss</b>
<b>Yakima</b>	<b>% of County Reporting = 100%</b>	<b>22,100</b>	<b>5</b>	<b>764</b>	<b>1</b>	<b>22,870</b>	<b>\$ 14,618,981</b>
39D01	Yakima #1, Cowiche	296	0	36	0	332	\$ 54,500
39D02	Yakima #2, Selah	1,650	0	14	0	1,664	\$ 700,500
39D03	Yakima #3, Naches	301	0	55	0	356	\$ 122,100
39D04	Yakima #4, East Valley	1,355	0	17	0	1,372	\$ 131,900
39D05	Yakima #5, Zillah	2,892	5	35	0	2,932	\$ 5,752,796
39D06	Yakima #6, Gleed	360	0	41	0	401	\$ 18,000
39D07	Yakima #7, Glade	4	0	0	1	5	\$ -
39D09	Yakima #9, Naches Heights	123	0	33	0	156	\$ 12,000
39D12	Yakima #12, West Valley	831	0	39	0	870	\$ 1,385,200
39D14	Yakima #14, Nile/Cliffdell	146	0	13	0	159	\$ -
39M01	Grandview Fire Department	736	0	1	0	737	\$ 17,700
39M02	Granger Fire Department	175	0	8	0	183	\$ 71,400
39M03	Mabton Fire Department	114	0	6	0	120	\$ 1,500
39M06	Sunnyside Fire Department	3,438	0	212	0	3,650	\$ 2,066,700
39M08	Toppenish Fire Department	826	0	218	0	1,044	\$ 197,700
39M10	Wapato Fire Dept	553	0	7	0	560	\$ 710,500
39M11	Yakima Fire Dept	8,016	0	17	0	8,033	\$ 3,212,235
39M12	Zillah Fire Dept	284	0	12	0	296	\$ 164,250
<b>REGION 7 TOTALS</b>		<b>27,851</b>	<b>5</b>	<b>1,005</b>	<b>1</b>	<b>28,862</b>	<b>\$ 15,282,621</b>

## Region 8

Region 8 is comprised of Adams, Asotin, Benton, Columbia, Garfield, Franklin, Walla Walla, and Whitman counties. In 2020, 46% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,116	1,266	1,659	1,389	1,614	<b>7,044</b>
Dollar Loss	\$8,849,734	\$6,100,633	\$20,326,361	\$16,109,788	\$17,018,757	<b>\$68,405,273</b>
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	17,371	18,705	21,976	23,592	23,944	<b>105,588</b>
Dollar Loss	\$1,000	\$70,250	\$8,000	\$89,000	\$215,200	<b>\$383,450</b>
<b>Good Intent Calls</b>						
# of Incidents	1,887	2,370	3,064	4,000	4,078	<b>15,399</b>
Dollar Loss	\$0	\$25	\$3,000	\$220,000	\$41,001	<b>\$264,026</b>
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	23	39	32	45	50	<b>189</b>
Dollar Loss	\$0	\$500	\$130,000	\$1,515	\$15,150	<b>\$147,165</b>
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	383	541	592	628	654	<b>2,798</b>
Dollar Loss	\$5,500	\$22,500	\$2,300	\$10,000	\$8,810	<b>\$49,110</b>
<b>Service Calls</b>						
# of Incidents	1,591	1,862	2,365	2,396	2,950	<b>11,164</b>
Dollar Loss	\$0	\$0	\$16,500	\$25,000	\$2,000	<b>\$43,500</b>
<b>False Alarms and False Calls</b>						
# of Incidents	2,157	2,403	2,835	2,941	2,727	<b>13,063</b>
Dollar Loss	\$0	\$10,500	\$0	\$0	\$16	<b>\$10,516</b>
<b>Other Types of Incidents</b>						
# of Incidents	64	57	82	77	75	<b>355</b>
Dollar Loss	\$0	\$100	\$0	\$0	\$0	<b>\$100</b>
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	10	14	6	17	17	<b>64</b>
Dollar Loss	\$0	\$0	\$0	\$0	\$0	<b>\$0</b>
<b>Total # of Incidents</b>	<b>24,602</b>	<b>27,257</b>	<b>32,611</b>	<b>35,085</b>	<b>36,109</b>	<b>155,664</b>
<b>Total Dollar Loss</b>	<b>\$8,856,234</b>	<b>\$6,204,508</b>	<b>\$20,486,161</b>	<b>\$16,455,303</b>	<b>\$17,300,934</b>	<b>\$69,303,140</b>

## Region 8 Fire Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 7,044 fire incidents, resulting in more than \$68 million in property and content loss, have been reported by fire service agencies in Region 8. **Structure Fires (including Confined Fires)** accounted for nearly 28% of the five-year total and 75% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	316	345	449	447	419	1,976
Dollar Loss	\$7,630,580	\$4,714,133	\$15,673,124	\$13,587,044	\$9,490,929	\$51,095,810
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	154	207	250	237	264	1,112
Dollar Loss	\$466,465	\$827,550	\$2,015,501	\$1,579,793	\$4,455,905	\$9,345,214
<b>Natural Vegetation Fires</b>						
# of Incidents	370	405	581	405	557	2,318
Dollar Loss	\$507,750	\$319,850	\$2,386,951	\$512,773	\$2,273,472	\$6,000,796
<b>Fixed Mobile Property Fires</b>						
# of Incidents	9	18	15	19	23	84
Dollar Loss	\$90,500	\$96,050	\$109,300	\$250,800	\$313,710	\$860,360
<b>Cultivated Vegetation Fires</b>						
# of Incidents	22	17	31	28	33	131
Dollar Loss	\$90,064	\$16,500	\$2,000	\$110,821	\$437,400	\$656,785
<b>Outside Rubbish Fires</b>						
# of Incidents	115	147	220	159	209	850
Dollar Loss	\$60,250	\$118,775	\$25,775	\$19,357	\$29,787	\$253,944
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	37	53	52	45	48	235
Dollar Loss	\$2,625	\$2,350	\$110,915	\$43,700	\$17,252	\$176,842
<b>Fire, Other</b>						
# of Incidents	93	74	61	49	61	338
Dollar Loss	\$1,500	\$5,425	\$2,795	\$5,500	\$302	\$15,522
<b>Total # of Incidents</b>	<b>1,116</b>	<b>1,266</b>	<b>1,659</b>	<b>1,389</b>	<b>1,614</b>	<b>7,044</b>
<b>Total Dollar Loss</b>	<b>\$8,849,734</b>	<b>\$6,100,633</b>	<b>\$20,326,361</b>	<b>\$16,109,788</b>	<b>\$17,018,757</b>	<b>\$68,405,273</b>

### Region 8 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 1,976 structure fire incidents, resulting in more than \$51 million in property and content loss, have been reported by fire service agencies in Region 8. **Building Fires** accounted for 54% of the five-year total and 98% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	173	189	235	234	235	1,066
Dollar Loss	\$7,262,450	\$4,693,297	\$15,402,584	\$13,425,508	\$9,432,060	\$50,215,899
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	7	5	19	18	25	74
Dollar Loss	\$361,500	\$10,000	\$239,100	\$123,860	\$41,549	\$776,009
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	68	89	131	115	100	503
Dollar Loss	\$4,765	\$7,036	\$29,395	\$30,868	\$11,620	\$83,684
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	16	21	12	19	16	84
Dollar Loss	\$1,060	\$1,000	\$200	\$65	\$5,000	\$7,325
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	48	39	49	52	41	229
Dollar Loss	\$305	\$2,250	\$1,845	\$1,893	\$700	\$6,993
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	4	1	3	8	2	18
Dollar Loss	\$500	\$50	\$0	\$4,850	\$0	\$5,400
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	0	1	0	1	0	2
Dollar Loss	\$0	\$500	\$0	\$0	\$0	\$500
<b>Total # of Incidents</b>	<b>316</b>	<b>345</b>	<b>449</b>	<b>447</b>	<b>419</b>	<b>1,976</b>
<b>Total Dollar Loss</b>	<b>\$7,630,580</b>	<b>\$4,714,133</b>	<b>\$15,673,124</b>	<b>\$13,587,044</b>	<b>\$9,490,929</b>	<b>\$51,095,810</b>

### Region 8 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 2,567 fire incidents in **Residential** properties, resulting in more than \$36 million in property and content loss, have been reported by fire service agencies in Region 8. **Residential** fires accounted for 36% of the five-year total and 53% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	410	440	639	516	562	2,567
Dollar Loss	\$4,816,755	\$3,929,283	\$8,865,413	\$8,230,036	\$10,471,849	\$36,313,336
<b>Outside or Special Properties</b>						
# of Incidents	551	659	812	653	831	3,506
Dollar Loss	\$348,369	\$972,300	\$3,858,524	\$2,019,655	\$4,470,491	\$11,669,339
<b>Storage</b>						
# of Incidents	35	36	50	52	56	229
Dollar Loss	\$454,910	\$900,100	\$3,235,427	\$416,950	\$664,806	\$5,672,193
<b>Mercantile and Business</b>						
# of Incidents	31	33	35	40	31	170
Dollar Loss	\$14,100	\$83,000	\$4,198,010	\$621,732	\$232,100	\$5,148,942
<b>Manufacturing and Processing</b>						
# of Incidents	13	6	6	10	7	42
Dollar Loss	\$50,000	\$0	\$0	\$4,600,000	\$500	\$4,650,500
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	38	34	50	57	59	238
Dollar Loss	\$2,630,800	\$172,000	\$37,000	\$34,821	\$1,045,510	\$3,920,131
<b>Assembly</b>						
# of Incidents	17	20	29	27	15	108
Dollar Loss	\$424,800	\$29,675	\$22,910	\$27,350	\$60,250	\$564,985
<b>None</b>						
# of Incidents	2	6	7	11	19	45
Dollar Loss	\$0	\$14,000	\$20,000	\$101,503	\$45,951	\$181,454
<b>Other Property Uses</b>						
# of Incidents	10	14	8	6	15	53
Dollar Loss	\$110,000	\$250	\$7,002	\$0	\$0	\$117,252
<b>Educational Uses</b>						
# of Incidents	4	10	11	10	7	42
Dollar Loss	\$0	\$25	\$71,500	\$24,171	\$4,600	\$100,296
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	2	6	10	7	9	34
Dollar Loss	\$0	\$0	\$10,575	\$33,570	\$22,700	\$66,845
<b>Undetermined</b>						
# of Incidents	3	2	2	0	3	10
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>1,116</b>	<b>1,266</b>	<b>1,659</b>	<b>1,389</b>	<b>1,614</b>	<b>7,044</b>
<b>Total Dollar Loss</b>	<b>\$8,849,734</b>	<b>\$6,100,633</b>	<b>\$20,326,361</b>	<b>\$16,109,788</b>	<b>\$17,018,757</b>	<b>\$68,405,273</b>

### Region 8 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 579 fire incidents in the **Functional Areas** of a building, resulting in more than \$10 million in property and content loss, have been reported by fire service agencies in Region 8. **Functional Areas** fires accounted for 8% of the five-year total and 16% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Functional Areas</b>						
# of Incidents	116	112	131	100	120	579
Dollar Loss	\$1,392,465	\$2,356,107	\$1,423,415	\$1,885,002	\$3,642,808	\$10,699,797
<b>Undetermined</b>						
# of Inc	67	82	93	74	90	406
Dollar Loss	\$3,385,000	\$378,790	\$2,755,383	\$1,790,530	\$1,715,628	\$10,025,331
<b>Vehicle Areas</b>						
# of Incidents	146	187	218	213	221	985
Dollar Loss	\$399,960	\$1,019,650	\$1,844,801	\$1,698,643	\$4,297,654	\$9,260,708
<b>Structural Areas</b>						
# of Incidents	58	58	80	61	53	310
Dollar Loss	\$933,350	\$525,800	\$5,206,286	\$1,487,400	\$669,249	\$8,822,085
<b>Outside Areas</b>						
# of Incidents	344	392	501	281	341	1,859
Dollar Loss	\$911,344	\$858,700	\$910,047	\$1,483,590	\$3,904,175	\$8,067,856
<b>Storage Areas</b>						
# of Incidents	38	43	46	56	43	226
Dollar Loss	\$673,025	\$404,225	\$1,106,550	\$3,152,625	\$1,950,750	\$7,287,175
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	12	12	16	16	16	72
Dollar Loss	\$302,000	\$62,525	\$4,578,000	\$504,851	\$632,000	\$6,079,376
<b>Other Areas of Origin</b>						
# of Incidents	41	42	44	31	45	203
Dollar Loss	\$1,030	\$3,800	\$35,695	\$3,571,500	\$305	\$3,612,330
<b>(Blank)</b>						
# of Inc	271	302	495	530	651	2,249
Dollar Loss	\$522,560	\$377,536	\$2,203,584	\$150,027	\$92,338	\$3,346,045
<b>Service or Equipment Areas</b>						
# of Incidents	19	27	18	21	24	109
Dollar Loss	\$136,500	\$88,500	\$103,500	\$318,520	\$43,600	\$690,620
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	4	6	12	4	8	34
Dollar Loss	\$192,500	\$25,000	\$157,100	\$42,100	\$70,250	\$486,950
<b>Technical Processing Areas</b>						
# of Incidents	0	3	5	2	2	12
Dollar Loss	\$0	\$0	\$2,000	\$25,000	\$0	\$27,000
<b>Total # of Incidents</b>	<b>1,116</b>	<b>1,266</b>	<b>1,659</b>	<b>1,389</b>	<b>1,614</b>	<b>7,044</b>
<b>Total Dollar Loss</b>	<b>\$8,849,734</b>	<b>\$6,100,633</b>	<b>\$20,326,361</b>	<b>\$16,109,788</b>	<b>\$17,018,757</b>	<b>\$68,405,273</b>

### Region 8 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,244 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$15 million in property and content loss, have been reported by fire service agencies in Region 8. **Operating Equipment** fires accounted for 18% of the five-year total and 22% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	362	443	396	283	327	1,811
Dollar Loss	\$3,654,965	\$3,542,090	\$4,906,278	\$9,529,745	\$7,074,314	\$28,707,392
<b>Operating Equipment</b>						
# of Incidents	207	213	289	267	268	1,244
Dollar Loss	\$3,107,615	\$1,181,582	\$2,335,435	\$3,293,926	\$5,371,012	\$15,289,570
<b>Open Flame or Smoking Material</b>						
# of Incidents	91	77	123	74	94	459
Dollar Loss	\$527,880	\$136,200	\$4,744,901	\$785,865	\$1,235,150	\$7,429,996
<b>Heat Spread from Another Fire</b>						
# of Incidents	28	43	91	42	65	269
Dollar Loss	\$331,600	\$109,500	\$4,960,411	\$494,000	\$1,496,552	\$7,392,063
<b>(blank)</b>						
# of Incidents	271	302	495	530	651	2,249
Dollar Loss	\$522,560	\$377,536	\$2,203,584	\$150,027	\$92,338	\$3,346,045
<b>Hot or Smoldering Object</b>						
# of Incidents	66	79	97	73	90	405
Dollar Loss	\$436,925	\$532,700	\$646,000	\$763,650	\$604,600	\$2,983,875
<b>Heat Source Other</b>						
# of Incidents	45	64	87	68	56	320
Dollar Loss	\$31,664	\$190,750	\$269,952	\$416,175	\$769,900	\$1,678,441
<b>Explosives and Fireworks</b>						
# of Incidents	28	30	56	31	44	189
Dollar Loss	\$180,000	\$100	\$95,100	\$438,900	\$234,840	\$948,940
<b>Chemical or Natural</b>						
# of Incidents	16	13	23	21	17	90
Dollar Loss	\$56,525	\$30,175	\$154,700	\$237,500	\$140,051	\$618,951
<b>Multiple Heat Sources</b>						
# of Incidents	2	2	2	0	2	8
Dollar Loss	\$0	\$0	\$10,000	\$0	\$0	\$10,000
<b>Total # of Incidents</b>	<b>1,116</b>	<b>1,266</b>	<b>1,659</b>	<b>1,389</b>	<b>1,614</b>	<b>7,044</b>
<b>Total Dollar Loss</b>	<b>\$8,849,734</b>	<b>\$6,100,633</b>	<b>\$20,326,361</b>	<b>\$16,109,788</b>	<b>\$17,018,757</b>	<b>\$68,405,273</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 8 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 2,618 fire incidents with an **Unknown** cause of ignition, resulting in more than \$22 million in property and content loss, have been reported by fire service agencies in Region 8. **Unknown** ignition caused fires accounted for 37% of the five-year total and 33% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	369	428	585	556	681	2,619
Dollar Loss	\$2,632,555	\$3,496,090	\$5,793,419	\$7,169,936	\$3,243,281	\$22,335,281
<b>Other Unintentional, Careless</b>						
# of Incidents	142	154	150	129	142	717
Dollar Loss	\$2,957,500	\$907,750	\$824,310	\$1,694,153	\$3,851,426	\$10,235,139
<b>Exposure</b>						
# of Incidents	9	15	82	21	38	165
Dollar Loss	\$85,600	\$29,000	\$5,056,111	\$630,850	\$1,521,900	\$7,323,461
<b>Intentional</b>						
# of Incidents	109	113	147	91	149	609
Dollar Loss	\$209,000	\$9,050	\$4,220,050	\$204,629	\$794,229	\$5,436,958
<b>Electrical Malfunction</b>						
# of Incidents	68	83	101	105	112	469
Dollar Loss	\$399,650	\$281,575	\$621,505	\$1,351,313	\$2,739,400	\$5,393,443
<b>Equipment Misoperation, Failure</b>						
# of Incidents	66	90	96	110	102	464
Dollar Loss	\$158,560	\$156,700	\$650,870	\$1,092,202	\$2,215,458	\$4,273,790
<b>Open Flame</b>						
# of Incidents	56	62	81	43	57	299
Dollar Loss	\$1,020,975	\$559,000	\$628,801	\$819,600	\$908,750	\$3,937,126
<b>Investigation with Arson Module</b>						
# of Incidents	20	23	18	8	5	74
Dollar Loss	\$509,500	\$268,747	\$702,800	\$369,000	\$125,000	\$1,975,047
<b>Other Heat</b>						
# of Incidents	58	64	105	63	95	385
Dollar Loss	\$95,250	\$18,300	\$409,800	\$111,400	\$741,690	\$1,376,440
<b>Appliances</b>						
# of Incidents	21	14	20	13	13	81
Dollar Loss	\$145,600	\$131,450	\$201,200	\$619,702	\$216,000	\$1,313,952



**Region 8 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Heating</b>						
# of Incidents	35	43	38	40	31	187
Dollar Loss	\$409,260	\$49,800	\$405,050	\$354,215	\$71,600	\$1,289,925
<b>Cooking</b>						
# of Incidents	98	108	146	133	109	594
Dollar Loss	\$91,465	\$41,846	\$426,345	\$287,508	\$65,372	\$912,536
<b>Playing with Heat Source</b>						
# of Incidents	4	2	10	7	10	33
Dollar Loss	\$1,500	\$37,500	\$202,500	\$420,000	\$201,500	\$863,000
<b>Natural</b>						
# of Incidents	42	44	51	44	52	233
Dollar Loss	\$86,589	\$30,325	\$166,700	\$362,000	\$148,551	\$794,165
<b>Smoking</b>						
# of Incidents	15	19	24	20	13	91
Dollar Loss	\$46,730	\$55,000	\$16,900	\$533,580	\$28,600	\$680,810
<b>Other Equipment</b>						
# of Incidents	4	4	5	6	5	24
Dollar Loss	\$0	\$28,500	\$0	\$89,700	\$146,000	\$264,200
<b>(blank)</b>						
# of Incidents	0	0	0	0	1	1
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>1,116</b>	<b>1,266</b>	<b>1,659</b>	<b>1,389</b>	<b>1,614</b>	<b>7,044</b>
<b>Total Dollar Loss</b>	<b>\$8,849,734</b>	<b>\$6,100,633</b>	<b>\$20,326,361</b>	<b>\$16,109,788</b>	<b>\$17,018,757</b>	<b>\$68,405,273</b>

## Region 8 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 8.

REGION 8 2020 REPORTING SUMMARY							
% of Region Reporting = 46%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity	Total Reports	Total Property & Contents Loss
<b>Adams</b>	<b>% of County Reporting = 11%</b>	<b>189</b>	<b>0</b>	<b>6</b>	<b>0</b>	<b>195</b>	<b>\$ -</b>
01D01	Adams #1, Ritzville/Lincoln #10	0	0	0	0	0	\$ -
01D02	Adams #2, Hatton/Lind	0	0	0	0	0	\$ -
01D03	Adams #3, Odessa/Lincoln #3	0	0	0	0	0	\$ -
01D04	Adams #4, Harder/McCall	0	0	0	0	0	\$ -
01D05	Adams #5, Othello	189	0	6	0	195	\$ -
01D06	Adams #6, Benga	0	0	0	0	0	\$ -
01D07	Adams #7, Washtucna	0	0	0	0	0	\$ -
01M02	Othello Fire Department	0	0	0	0	0	\$ -
01M03	Ritzville Fire Dept	0	0	0	0	0	\$ -
<b>Asotin</b>	<b>% of County Reporting = 100%</b>	<b>648</b>	<b>0</b>	<b>48</b>	<b>10</b>	<b>706</b>	<b>\$ 479,400</b>
02D00	Blue Mountain Fire District 1	6	0	0	10	16	\$ -
02D01	Asotin #1, Clarkston	262	0	15	0	277	\$ -
02M01	Asotin Fire Dept	125	0	4	0	129	\$ -
02M02	Clarkston Fire Dept	255	0	29	0	284	\$ 479,400
<b>Benton</b>	<b>% of County Reporting = 89%</b>	<b>20,818</b>	<b>45</b>	<b>1,517</b>	<b>0</b>	<b>22,380</b>	<b>\$ 11,088,177</b>
03D01	Benton #1, S. Kennewick	1,574	9	113	0	1,696	\$ 2,803,264
03D02	Benton #2, Benton City	991	9	267	0	1,267	\$ 217,700
03D03	West Benton Fire Rescue	580	0	31	0	611	\$ 2,568,000
03D04	Benton #4, W. Richland	1,602	9	155	0	1,766	\$ 1,742,710
03D05	Benton #5	0	0	0	0	0	\$ -
03D06	Benton #6, Plymouth/Paterson	234	0	42	0	276	\$ 585,500
03M02	Kennewick Fire Dept	10,346	18	536	0	10,900	\$ 2,612,619
03M04	Richland Fire Dept	4,883	0	346	0	5,229	\$ 558,384
03S01	Hanford Fire Dept	608	0	27	0	635	\$ -
<b>Columbia</b>	<b>% of County Reporting = 50%</b>	<b>600</b>	<b>0</b>	<b>98</b>	<b>0</b>	<b>698</b>	<b>\$ -</b>
07D01	Columbia #1, Starbuck	0	0	0	0	0	\$ -
07D03	Columbia #3, Dayton	600	0	98	0	698	\$ -
<b>Franklin</b>	<b>% of County Reporting = 57%</b>	<b>6,886</b>	<b>4</b>	<b>520</b>	<b>0</b>	<b>7,410</b>	<b>\$ 4,090,385</b>
11D01	Franklin #1, Connell	0	0	0	0	0	\$ -
11D02	Franklin #2, Kahlotus	0	0	0	0	0	\$ -
11D03	Franklin #3	581	4	245	0	830	\$ 235,000
11D04	Franklin #4, Basin City	0	0	0	0	0	\$ -
11D05	Franklin #5	41	0	19	0	60	\$ 480,000
11M01	Connell Fire Dept	64	0	7	0	71	\$ -
11M02	Pasco Fire Dept	6,200	0	249	0	6,449	\$ 3,375,385
<b>Garfield</b>	<b>% of County Reporting = 100%</b>	<b>114</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>115</b>	<b>\$ 12,114</b>
12D01	Garfield #1, Pomeroy	114	0	1	0	115	\$ 12,114

**REGION 8 2020 REPORTING SUMMARY (Continued)**

<b>% of Region Reporting = 46%</b>		<b># of Incidents</b>	<b>Exposures</b>	<b>Auto or Mutual Aid Given</b>	<b>No Activity</b>	<b>Total Reports</b>	<b>Total Property &amp; Contents Loss</b>
<b>Walla Walla</b>	<b>% of County Reporting = 45%</b>	<b>3,984</b>	<b>4</b>	<b>244</b>	<b>0</b>	<b>4,232</b>	<b>\$ 1,477,906</b>
36D01	Walla Walla #1, Clyde	0	0	0	0	0	\$ -
36D02	Walla Walla/Columbia #2	166	0	17	0	183	\$ -
36D03	Walla Walla #3, Eureka	0	0	0	0	0	\$ -
36D04	Walla Walla #4, Walla Walla	757	0	105	0	862	\$ 428,494
36D05	Walla Walla #5, Burbank	515	0	65	0	580	\$ 229,000
36D06	Walla Walla #6, Touchet	0	0	0	0	0	\$ -
36D07	Walla Walla #7	0	0	0	0	0	\$ -
36D08	Walla Walla #8	0	0	0	0	0	\$ -
36M01	College Place Fire Department	1,434	0	39	0	1,473	\$ 203,075
36M02	Prescott Fire Department	0	0	0	0	0	\$ -
36M04	Walla Walla Fire Department	1,112	4	18	0	1,134	\$ 617,337
<b>Whitman</b>	<b>% of County Reporting = 27%</b>	<b>2,870</b>	<b>0</b>	<b>223</b>	<b>3</b>	<b>3,096</b>	<b>\$ 152,952</b>
38D01	Whitman #1, Tekoa	0	0	0	0	0	\$ -
38D02	Whitman #2, St. John	0	0	0	0	0	\$ -
38D03	Whitman #3, Garfield	0	0	0	0	0	\$ -
38D04	Whitman #4, Palouse	0	0	0	0	0	\$ -
38D05	Whitman #5, Lamont	24	0	7	3	34	\$ -
38D06	Whitman # 6, Endicott	0	0	0	0	0	\$ -
38D07	Whitman #7, Rosalia	89	0	54	0	143	\$ -
38D08	Whitman #8, LaCrosse/Hooper	0	0	0	0	0	\$ -
38D10	Whitman #10, Oaksdale	48	0	21	0	69	\$ -
38D11	Whitman #11, Albion/Colfax	0	0	0	0	0	\$ -
38D12	Whitman #12, Pullman	0	0	0	0	0	\$ -
38D13	Whitman #13, Wilcox	0	0	0	0	0	\$ -
38D14	Whitman #14, Colton/Uniontown	44	0	0	0	44	\$ 20,000
38M01	Albion Fire Department	0	0	0	0	0	\$ -
38M02	Colfax Fire Dept	439	0	6	0	445	\$ 20,558
38M06	LaCrosse Fire Dept	0	0	0	0	0	\$ -
38M07	Malden Fire Dept	0	0	0	0	0	\$ -
38M09	Palouse Fire Dept	0	0	0	0	0	\$ -
38M10	Pullman Fire Dept	2,226	0	135	0	2,361	\$ 112,394
38M12	St. John Fire Dept	0	0	0	0	0	\$ -
38M13	Tekoa Fire Dept	0	0	0	0	0	\$ -
38M15	Farmington Fire Dept	0	0	0	0	0	\$ -
<b>REGION 8 TOTALS</b>		<b>36,109</b>	<b>53</b>	<b>2,657</b>	<b>13</b>	<b>38,832</b>	<b>\$ 17,300,934</b>

## Region 9

Region 9 is comprised of Ferry, Lincoln, Pend Oreille, Spokane, and Stevens counties. In 2020, 53% of the fire service agencies in this region reported NFIRS data to the SFMO. Below is a table summarizing the incidents that have been reported over the past five years.



### Five-Year Incident Type Summary

Incident Type Categories	2016	2017	2018	2019	2020	5-Year Total
<b>Fire</b>						
# of Incidents	1,796	1,839	1,917	1,985	2,221	<b>9,758</b>
Dollar Loss	\$9,874,696	\$8,449,012	\$13,441,089	\$10,032,902	\$30,298,518	<b>\$72,096,217</b>
<b>Hazardous Conditions (No Fire)</b>						
# of Incidents	896	857	940	1,023	1,218	<b>4,934</b>
Dollar Loss	\$44,700	\$93,320	\$4,300	\$26,800	\$16,910	<b>\$186,030</b>
<b>Rescue and Emergency Medical Service</b>						
# of Incidents	46,907	44,540	55,054	58,106	56,137	<b>260,744</b>
Dollar Loss	\$10,100	\$29,050	\$15,000	\$31,900	\$5,000	<b>\$91,050</b>
<b>Overpressure Rupture, Explosion, Overheat (No Fire)</b>						
# of Incidents	89	63	62	76	58	<b>348</b>
Dollar Loss	\$540	\$1,250	\$81,450	\$2,300	\$800	<b>\$86,340</b>
<b>Service Calls</b>						
# of Incidents	5,621	5,090	4,348	5,004	6,196	<b>26,259</b>
Dollar Loss	\$0	\$60	\$12,000	\$1,205	\$44,970	<b>\$58,235</b>
<b>Severe Weather and Natural Disaster</b>						
# of Incidents	12	17	11	38	25	<b>103</b>
Dollar Loss	\$5,000	\$0	\$0	\$0	\$0	<b>\$5,000</b>
<b>False Alarms and False Calls</b>						
# of Incidents	2,506	2,443	2,666	3,111	3,223	<b>13,949</b>
Dollar Loss	\$0	\$0	\$2,000	\$2,500	\$500	<b>\$5,000</b>
<b>Other Types of Incidents</b>						
# of Incidents	231	219	190	163	162	<b>965</b>
Dollar Loss	\$2,000	\$0	\$0	\$350	\$0	<b>\$2,350</b>
<b>Good Intent Calls</b>						
# of Incidents	9,528	9,870	7,504	9,140	10,626	<b>46,668</b>
Dollar Loss	\$0	\$0	\$20	\$10	\$0	<b>\$30</b>
<b>Total # of Incidents</b>	<b>67,586</b>	<b>64,938</b>	<b>72,692</b>	<b>78,646</b>	<b>79,866</b>	<b>363,728</b>
<b>Total Dollar Loss</b>	<b>\$9,937,036</b>	<b>\$8,572,692</b>	<b>\$13,555,859</b>	<b>\$10,097,967</b>	<b>\$30,366,698</b>	<b>\$72,530,252</b>

## Region 9 Incidents by Category (Five-year total sorted by dollar loss)

Over the past five years, 9,758 fire incidents, resulting in more than \$72 million in property and content loss, have been reported by fire service agencies in Region 9. **Structure Fires (including Confined Fires)** accounted for 30% of the five-year total and 65% of the dollar loss to property and content.

Fire Incidents by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Structure Fires (including Confined Fires)</b>						
# of Incidents	583	592	555	592	578	2,900
Dollar Loss	\$8,656,958	\$7,952,538	\$12,081,860	\$7,944,808	\$10,529,263	\$47,165,427
<b>Natural Vegetation Fires</b>						
# of Incidents	437	484	473	484	568	2,446
Dollar Loss	\$728,752	\$28,002	\$40,800	\$458,950	\$16,950,882	\$18,207,386
<b>Vehicle Fires (Mobile Properties)</b>						
# of Incidents	249	207	276	262	270	1,264
Dollar Loss	\$445,386	\$307,092	\$908,468	\$1,092,345	\$2,331,851	\$5,085,142
<b>Fixed Mobile Property Fires</b>						
# of Incidents	15	23	25	25	30	118
Dollar Loss	\$21,100	\$100,250	\$363,600	\$186,600	\$373,461	\$1,045,011
<b>Outside Rubbish Fires</b>						
# of Incidents	378	380	368	413	562	2,101
Dollar Loss	\$11,750	\$6,650	\$6,832	\$264,408	\$38,871	\$328,511
<b>Fire, Other</b>						
# of Incidents	81	77	141	123	117	539
Dollar Loss	\$6,950	\$50,700	\$30,029	\$24,190	\$47,470	\$159,339
<b>Outside Storage and Equipment Fires</b>						
# of Incidents	45	71	72	71	81	340
Dollar Loss	\$3,800	\$3,780	\$9,500	\$18,601	\$26,720	\$62,401
<b>Cultivated Vegetation Fires</b>						
# of Incidents	8	5	7	15	15	50
Dollar Loss	\$0	\$0	\$0	\$43,000	\$0	\$43,000
<b>Total # of Incidents</b>	<b>1,796</b>	<b>1,839</b>	<b>1,917</b>	<b>1,985</b>	<b>2,221</b>	<b>9,758</b>
<b>Total Dollar Loss</b>	<b>\$9,874,696</b>	<b>\$8,449,012</b>	<b>\$13,441,089</b>	<b>\$10,032,902</b>	<b>\$30,298,518</b>	<b>\$72,096,217</b>

### Region 9 Structure Fires by Type (Five-year total sorted by dollar loss)

Over the past five years, 2,900 structure fire incidents, resulting in more than \$47 million in property and content loss, have been reported by fire service agencies in Region 9. **Building Fires** accounted for 55% of the five-year total and 97% of the dollar loss to property and content.

Structure Fires (including confined fires)	2016	2017	2018	2019	2020	5-Year Total
<b>Building Fires</b>						
# of Incidents	314	313	318	343	315	1,603
Dollar Loss	\$8,622,908	\$7,879,298	\$11,049,245	\$7,829,283	\$10,300,486	\$45,681,220
<b>Fires in Structures Other than in a Building</b>						
# of Incidents	23	22	17	19	30	111
Dollar Loss	\$14,800	\$52,500	\$1,009,775	\$56,675	\$177,300	\$1,311,050
<b>Cooking Fire, Confined to Container</b>						
# of Incidents	136	147	107	130	128	648
Dollar Loss	\$15,525	\$10,885	\$5,570	\$42,050	\$33,367	\$107,397
<b>Chimney or Flue Fire, Confined to Chimney or Flue</b>						
# of Incidents	50	63	63	55	56	287
Dollar Loss	\$700	\$8,200	\$11,600	\$8,500	\$15,200	\$44,200
<b>Trash or Rubbish Fire, Contained</b>						
# of Incidents	50	37	37	40	44	208
Dollar Loss	\$1,025	\$155	\$2,670	\$8,300	\$2,410	\$14,560
<b>Incinerator Overload or Malfunction, Fire Confined</b>						
# of Incidents	4	0	3	2	1	10
Dollar Loss	\$1,000	\$0	\$3,000	\$0	\$500	\$4,500
<b>Fuel Burner/Boiler Malfunction, Fire Confined</b>						
# of Incidents	5	8	9	3	3	28
Dollar Loss	\$1,000	\$1,500	\$0	\$0	\$0	\$2,500
<b>Commercial Compactor Fire, Confined to Rubbish</b>						
# of Incidents	1	2	1	0	1	5
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>583</b>	<b>592</b>	<b>555</b>	<b>592</b>	<b>578</b>	<b>2,900</b>
<b>Total Dollar Loss</b>	<b>\$8,656,958</b>	<b>\$7,952,538</b>	<b>\$12,081,860</b>	<b>\$7,944,808</b>	<b>\$10,529,263</b>	<b>\$47,165,427</b>

### Region 9 Fire Incidents by Property Use (Five-year total sorted by dollar loss)

Over the past five years, 4,237 fire incidents in **Residential** properties, resulting in more than \$38 million in property and content loss, have been reported by fire service agencies in Region 9. **Residential** fires accounted for 43% of the five-year total and 53% of the dollar loss to property and content.

Fires by Property Use	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incidents	795	822	827	916	877	4,237
Dollar Loss	\$6,570,408	\$6,657,784	\$9,792,635	\$6,403,754	\$8,649,738	\$38,074,319
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incidents	31	31	51	64	65	242
Dollar Loss	\$1,500	\$36,550	\$34,000	\$4,650	\$15,130,500	\$15,207,200
<b>Outside or Special Properties</b>						
# of Incidents	741	750	790	759	949	3,989
Dollar Loss	\$871,259	\$211,419	\$1,623,370	\$1,630,670	\$3,181,422	\$7,518,140
<b>Mercantile and Business</b>						
# of Incidents	66	57	57	75	115	370
Dollar Loss	\$632,100	\$412,850	\$91,700	\$1,008,310	\$2,484,191	\$4,629,151
<b>Storage</b>						
# of Incidents	61	64	51	51	55	282
Dollar Loss	\$1,011,950	\$907,779	\$520,254	\$746,317	\$532,717	\$3,719,017
<b>Assembly</b>						
# of Incidents	32	32	29	42	44	179
Dollar Loss	\$657,979	\$169,610	\$1,079,200	\$229,050	\$47,900	\$2,183,739
<b>Other Property Uses</b>						
# of Incidents	24	27	34	29	40	154
Dollar Loss	\$25,000	\$32,500	\$184,600	\$3,000	\$60,000	\$305,100
<b>Manufacturing and Processing</b>						
# of Incidents	10	19	22	16	16	83
Dollar Loss	\$500	\$14,800	\$93,000	\$451	\$65,000	\$173,751
<b>Educational Uses</b>						
# of Incidents	18	16	16	5	15	70
Dollar Loss	\$103,000	\$5,720	\$8,530	\$2,000	\$100	\$119,350
<b>Health Care, Detention, and Corrections</b>						
# of Incidents	12	10	16	8	7	53
Dollar Loss	\$1,000	\$0	\$2,200	\$200	\$107,750	\$111,150
<b>None</b>						
# of Incidents	6	5	17	12	17	57
Dollar Loss	\$0	\$0	\$11,600	\$4,500	\$12,000	\$28,100
<b>Undetermined</b>						
# of Incidents	0	6	7	8	21	42
Dollar Loss	\$0	\$0	\$0	\$0	\$27,200	\$27,200
<b>Total # of Incidents</b>	<b>1,796</b>	<b>1,839</b>	<b>1,917</b>	<b>1,985</b>	<b>2,221</b>	<b>9,758</b>
<b>Total Dollar Loss</b>	<b>\$9,874,696</b>	<b>\$8,449,012</b>	<b>\$13,441,089</b>	<b>\$10,032,902</b>	<b>\$30,298,518</b>	<b>\$72,096,217</b>

## Region 9 Fire Incidents by Area of Origin (Five-year total sorted by dollar loss)

Over the past five years, 482 fire incidents in the **Structural Areas** of a building, resulting in more than \$10 million in property and content loss, have been reported by fire service agencies in Region 9. **Structural Areas** fires accounted for 5% of the five-year total and 15% of the dollar loss to property and content.

Area of Origin by Category	2016	2017	2018	2019	2020	5-Year Total
<b>(Blank)</b>						
# of Inc	691	699	592	691	809	3,482
Dollar Loss	\$35,502	\$34,557	\$39,422	\$138,052	\$16,389,160	\$16,636,693
<b>Structural Areas</b>						
# of Incidents	96	86	101	115	84	482
Dollar Loss	\$2,107,892	\$1,974,975	\$2,077,520	\$2,039,263	\$2,509,067	\$10,708,717
<b>Functional Areas</b>						
# of Incidents	142	140	126	149	170	727
Dollar Loss	\$2,678,936	\$1,144,765	\$1,546,800	\$1,268,586	\$3,283,286	\$9,922,373
<b>Undetermined</b>						
# of Incidents	172	158	226	193	225	974
Dollar Loss	\$1,549,400	\$1,222,629	\$3,193,510	\$1,723,032	\$1,428,090	\$9,116,661
<b>Storage Areas</b>						
# of Incidents	59	64	52	74	79	328
Dollar Loss	\$988,250	\$1,770,094	\$1,657,327	\$1,432,189	\$1,674,576	\$7,522,436
<b>Outside Areas</b>						
# of Incidents	343	402	444	380	480	2,049
Dollar Loss	\$1,263,950	\$714,180	\$264,502	\$2,117,315	\$1,380,825	\$5,740,772
<b>Vehicle Areas</b>						
# of Incidents	203	199	233	219	226	1,080
Dollar Loss	\$424,086	\$614,892	\$1,159,808	\$810,000	\$1,869,679	\$4,878,465
<b>Areas of Groups of People (Assembly)</b>						
# of Incidents	12	13	20	17	16	78
Dollar Loss	\$260,880	\$383,120	\$2,462,396	\$213,230	\$631,750	\$3,951,376
<b>Service or Equipment Areas</b>						
# of Incidents	19	21	34	32	20	126
Dollar Loss	\$328,850	\$133,550	\$820,750	\$41,680	\$513,100	\$1,837,930
<b>Other Areas of Origin</b>						
# of Incidents	42	38	73	96	88	337
Dollar Loss	\$86,500	\$391,800	\$175,954	\$201,755	\$149,110	\$1,005,119
<b>Means of Egress/Exit Access/Exit Areas</b>						
# of Incidents	14	16	13	16	22	81
Dollar Loss	\$147,950	\$62,150	\$43,100	\$45,800	\$409,875	\$708,875
<b>Technical Processing Areas</b>						
# of Incidents	3	3	3	3	2	14
Dollar Loss	\$2,500	\$2,300	\$0	\$2,000	\$60,000	\$66,800
<b>Total # of Incidents</b>	<b>1,796</b>	<b>1,839</b>	<b>1,917</b>	<b>1,985</b>	<b>2,221</b>	<b>9,758</b>
<b>Total Dollar Loss</b>	<b>\$9,874,696</b>	<b>\$8,449,012</b>	<b>\$13,441,089</b>	<b>\$10,032,902</b>	<b>\$30,298,518</b>	<b>\$72,096,217</b>



## Region 9 Fire Incidents by Heat Source (Five-year total sorted by dollar loss)

Over the past five years, 1,274 fire incidents with a heat source of **Operating Equipment**, resulting in more than \$10 million in property and content loss, have been reported by fire service agencies in Region 9. **Operating Equipment** fires accounted for 13% of the five-year total and 14% of the dollar loss to property and content.

Heat Source by Category	2016	2017	2018	2019	2020	5-Year Total
<b>Undetermined</b>						
# of Incidents	479	502	614	528	703	2,826
Dollar Loss	\$4,934,655	\$4,336,712	\$7,318,921	\$3,724,693	\$8,011,743	\$28,326,724
<b>(blank)</b>						
# of Incidents	691	699	592	691	809	3,482
Dollar Loss	\$35,502	\$34,557	\$39,422	\$138,052	\$16,389,160	\$16,636,693
<b>Operating Equipment</b>						
# of Incidents	236	230	278	280	250	1,274
Dollar Loss	\$1,439,613	\$1,190,817	\$1,921,370	\$2,117,400	\$3,550,838	\$10,220,038
<b>Open Flame or Smoking Material</b>						
# of Incidents	138	149	176	191	162	816
Dollar Loss	\$997,800	\$1,546,827	\$2,939,746	\$1,868,525	\$1,173,509	\$8,526,407
<b>Hot or Smoldering Object</b>						
# of Incidents	128	130	114	136	151	659
Dollar Loss	\$718,196	\$535,099	\$576,560	\$1,288,662	\$532,151	\$3,650,668
<b>Heat Source Other</b>						
# of Incidents	46	52	61	75	64	298
Dollar Loss	\$80,660	\$427,200	\$9,500	\$636,878	\$221,000	\$1,375,238
<b>Heat Spread from Another Fire</b>						
# of Incidents	33	35	30	34	45	177
Dollar Loss	\$136,300	\$319,200	\$276,270	\$216,225	\$225,000	\$1,172,995
<b>Multiple Heat Sources</b>						
# of Incidents	7	5	2	3	1	18
Dollar Loss	\$1,134,100	\$0	\$0	\$1,000	\$700	\$1,135,800
<b>Chemical or Natural</b>						
# of Incidents	21	16	23	37	20	117
Dollar Loss	\$372,870	\$31,000	\$172,100	\$26,467	\$138,667	\$741,104
<b>Explosives and Fireworks</b>						
# of Incidents	17	21	27	10	16	91
Dollar Loss	\$25,000	\$27,600	\$187,200	\$15,000	\$55,750	\$310,550
<b>Total # of Incidents</b>	<b>1,796</b>	<b>1,839</b>	<b>1,917</b>	<b>1,985</b>	<b>2,221</b>	<b>9,758</b>
<b>Total Dollar Loss</b>	<b>\$9,874,696</b>	<b>\$8,449,012</b>	<b>\$13,441,089</b>	<b>\$10,032,902</b>	<b>\$30,298,518</b>	<b>\$72,096,217</b>

Sources listed as **(blank)** are incidents where a fire or wildland module was not required to be completed.

## Region 9 Fire Incidents by Cause of Ignition (Five-year total sorted by dollar loss)

Over the past five years, 4,191 fire incidents with an **Unknown** cause of ignition, resulting in more than \$38 million in property and content loss, have been reported by fire service agencies in Region 9. **Unknown** ignition caused fires accounted for 43% of the five-year total and 54% of the dollar loss to property and content.

For definitions of each of the following categories, see the descriptions [listed earlier in this report](#).

Cause Category	2016	2017	2018	2019	2020	5-Year Total
<b>Unknown</b>						
# of Incidents	784	803	768	808	1,028	4,191
Dollar Loss	\$4,119,603	\$3,290,589	\$6,000,519	\$3,293,340	\$22,224,198	\$38,928,249
<b>Intentional</b>						
# of Incidents	161	168	255	286	339	1,209
Dollar Loss	\$930,850	\$873,934	\$1,262,324	\$1,237,768	\$988,088	\$5,292,964
<b>Electrical Malfunction</b>						
# of Incidents	88	99	102	105	88	482
Dollar Loss	\$443,725	\$379,466	\$1,069,000	\$1,077,810	\$733,869	\$3,703,870
<b>Other Unintentional, Careless</b>						
# of Incidents	149	137	162	133	152	733
Dollar Loss	\$483,185	\$494,830	\$412,575	\$803,750	\$949,800	\$3,144,140
<b>Smoking</b>						
# of Incidents	16	29	33	32	23	133
Dollar Loss	\$143,300	\$505,450	\$1,839,696	\$141,977	\$398,711	\$3,029,134
<b>Cooking</b>						
# of Incidents	167	169	133	165	163	797
Dollar Loss	\$359,315	\$193,185	\$224,320	\$410,970	\$1,365,185	\$2,552,975
<b>Open Flame</b>						
# of Incidents	71	59	69	71	72	342
Dollar Loss	\$305,900	\$320,850	\$274,910	\$1,178,725	\$136,360	\$2,216,745
<b>Appliances</b>						
# of Incidents	30	27	31	33	31	152
Dollar Loss	\$630,990	\$260,766	\$245,725	\$273,150	\$674,050	\$2,084,681
<b>Heating</b>						
# of Incidents	74	102	106	98	87	467
Dollar Loss	\$108,370	\$300,600	\$569,120	\$270,150	\$756,260	\$2,004,500
<b>Natural</b>						
# of Incidents	39	41	48	62	41	231
Dollar Loss	\$372,870	\$395,150	\$372,100	\$61,035	\$740,177	\$1,941,332

**Region 9 Fire Incidents by Cause of Ignition (continued)**

<b>Cause Category</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>5-Year Total</b>
<b>Other Heat</b>						
# of Incidents	85	72	73	63	67	360
Dollar Loss	\$527,992	\$166,820	\$164,750	\$568,137	\$497,551	\$1,925,250
<b>Equipment Misoperation, Failure</b>						
# of Incidents	107	87	106	97	91	488
Dollar Loss	\$510,396	\$167,650	\$179,050	\$637,980	\$273,641	\$1,768,717
<b>Exposure</b>						
# of Incidents	11	23	11	10	10	65
Dollar Loss	\$890,700	\$245,450	\$529,500	\$32,610	\$41,700	\$1,739,960
<b>Other Equipment</b>						
# of Incidents	2	7	7	7	7	30
Dollar Loss	\$1,500	\$398,999	\$22,500	\$39,000	\$334,178	\$796,177
<b>Investigation with Arson Module</b>						
# of Incidents	4	6	7	7	9	33
Dollar Loss	\$0	\$420,000	\$275,000	\$0	\$0	\$695,000
<b>Playing with Heat Source</b>						
# of Incidents	8	10	6	8	13	45
Dollar Loss	\$46,000	\$35,273	\$0	\$6,500	\$184,750	\$272,523
<b>Total # of Incidents</b>	<b>1,796</b>	<b>1,839</b>	<b>1,917</b>	<b>1,985</b>	<b>2,221</b>	<b>9,758</b>
<b>Total Dollar Loss</b>	<b>\$9,874,696</b>	<b>\$8,449,012</b>	<b>\$13,441,089</b>	<b>\$10,032,902</b>	<b>\$30,298,518</b>	<b>\$72,096,217</b>

## Region 9 Incidents by Reporting Agency

The following represents a breakdown of activity and property and contents loss as reported by individual agencies within Region 9.

REGION 9 2020 REPORTING SUMMARY							
% of Region Reporting = 53%		# of Incidents	Exposures	Auto or Mutual Aid Given	No Activity Reports	Total Reports	Total Property & Contents Loss
<b>Ferry</b>	<b>% of County Reporting = 33%</b>	<b>15</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>18</b>	<b>\$ 1,017,000</b>
10D03	Ferry #3/Stevens #8	0	0	0	0	0	\$ -
10D13	Ferry #13/Okanogan #13	0	0	0	0	0	\$ -
10D14	Ferry #14/Okanogan #14	15	0	0	3	18	\$ 1,017,000
<b>Lincoln</b>	<b>% of County Reporting = 15%</b>	<b>188</b>	<b>0</b>	<b>23</b>	<b>1</b>	<b>212</b>	<b>\$ 364,000</b>
22D01	Lincoln #1, Sprague	0	0	0	0	0	\$ -
22D03	Lincoln #3, Odessa/Adams #3	0	0	0	0	0	\$ -
22D04	Lincoln #4, Reardon/Edwall/Long Lake	147	0	14	0	161	\$ 364,000
22D05	Lincoln #5, Davenport	0	0	0	0	0	\$ -
22D06	Lincoln #6, Harrington	0	0	0	0	0	\$ -
22D07	Lincoln #7, Wilbur	0	0	0	0	0	\$ -
22D08	Lincoln #8, Almira	41	0	9	1	51	\$ -
22D09	Lincoln #9	0	0	0	0	0	\$ -
22M01	Almira Fire Dept	0	0	0	0	0	\$ -
22M02	Creston Fire Dept	0	0	0	0	0	\$ -
22M03	Davenport Fire Dept	0	0	0	0	0	\$ -
22M05	Odessa Fire Dept	0	0	0	0	0	\$ -
22M08	Wilbur Fire Dept	0	0	0	0	0	\$ -
<b>Pend Oreille</b>	<b>% of County Reporting = 50%</b>	<b>639</b>	<b>0</b>	<b>231</b>	<b>2</b>	<b>872</b>	<b>\$ 198,400</b>
26D02	Pend Oreille #2, Lone	32	0	2	2	36	\$ 188,400
26D03	Pend Oreille #3, S. Pend Oreille Fire & Rescue	525	0	150	0	675	\$ 10,000
26D04	Pend Oreille #4	0	0	0	0	0	\$ -
26D05	Pend Oreille #5, Locke-Ruby	0	0	0	0	0	\$ -
26D08	Pend Oreille #8	0	0	0	0	0	\$ -
26M01	Cusick Fire Dept	0	0	0	0	0	\$ -
26M05	Newport Fire Dept	17	0	0	0	17	\$ -
26X04	Kaplispel Tribal Public Safety	65	0	79	0	144	\$ -
<b>Spokane</b>	<b>% of County Reporting = 93%</b>	<b>76,302</b>	<b>3</b>	<b>4,956</b>	<b>0</b>	<b>81,261</b>	<b>\$ 28,410,048</b>
32D01	Spokane #1, Spokane Valley Fire Dept	18,684	0	236	0	18,920	\$ 2,186,569
32D02	Spokane #2, Fairfield	84	0	22	0	106	\$ -
32D03	Spokane #3, Spokane	2,608	0	204	0	2,812	\$ 16,012,490
32D04	Spokane #4	800	0	18	0	818	\$ 45,702
32D05	Spokane #5	89	0	13	0	102	\$ -
32D08	Spokane #8, Hangman/Mica	2,360	0	1,276	0	3,636	\$ 939,300
32D09	Spokane #9	4,080	0	2,060	0	6,140	\$ 2,400,837
32D10	Spokane #10	988	0	199	0	1,187	\$ 660,000
32D11	Spokane #11	99	0	15	0	114	\$ -
32D12	Spokane #12	0	0	0	0	0	\$ -
32D13	Spokane #13, Newman Lake Fire & Rescue	128	0	5	0	133	\$ 800
32M01	Airway Heights Fire Dept	2,282	0	12	0	2,294	\$ 20,050
32M02	Cheney Fire Department	1,560	0	7	0	1,567	\$ 150,910
32M10	Spokane Fire Department	42,540	3	889	0	43,432	\$ 5,993,390

**REGION 9 2020 REPORTING SUMMARY (Continued)**

<b>% of Region Reporting = 53%</b>		<b># of Incidents</b>	<b>Exposures</b>	<b>Auto or Mutual Aid Given</b>	<b>No Activity Reports</b>	<b>Total Reports</b>	<b>Total Property &amp; Contents Loss</b>
<b>Stevens</b>	<b>% of County Reporting = 53%</b>	<b>2,722</b>	<b>0</b>	<b>136</b>	<b>1</b>	<b>2,859</b>	<b>\$ 377,250</b>
32S03	Spokane Tribal Volunteer Fire Dept	0	0	0	0	0	\$ -
33D01	Stevens #1	1,624	0	14	0	1,638	\$ 25,000
33D02	Stevens #2, Hunters	0	0	0	0	0	\$ -
33D03	Stevens #3, Colville	0	0	0	0	0	\$ -
33D04	Stevens #4, Valley	396	0	17	0	413	\$ 127,250
33D05	Stevens #5	231	0	3	0	234	\$ 193,500
33D06	Stevens #6, Kettle Falls	95	0	2	0	97	\$ -
33D07	Stevens #7, Arden	77	0	91	0	168	\$ 31,500
33D09	Stevens #9, Little Pend Oreille Lakes	0	0	0	0	0	\$ -
33D10	Stevens #10, Deep Lake	0	0	0	0	0	\$ -
33D11	Stevens #11	42	0	0	0	42	\$ -
33D12	Stevens #12, Rice/Daisy/Gifford	31	0	2	0	33	\$ -
33D13	Stevens #13, Evans	94	0	2	1	97	\$ -
33M01	Chewelah Fire Dept	0	0	0	0	0	\$ -
33M02	Colville Fire Dept	132	0	5	0	137	\$ -
33M03	Kettle Falls Fire Dept	0	0	0	0	0	\$ -
33M05	Northport Volunteer Fire Dept	0	0	0	0	0	\$ -
<b>REGION 9 TOTALS</b>		<b>79,866</b>	<b>3</b>	<b>5,346</b>	<b>7</b>	<b>85,222</b>	<b>\$ 30,366,698</b>

## 2020 FIREWORKS REPORT

The State Fire Marshal’s Office is responsible for licensing fireworks importers, wholesalers, pyrotechnic operators, and retail stands. The goal of these efforts is to maintain the safe and legal transport and sale of consumer fireworks within the state. The SFMO also conducts annual public education campaigns that focus on the safe purchase, storage, and discharge of consumer fireworks.

Data utilized in this section of the report is compiled from two sources. Injury details are generated from fireworks injury reports submitted directly to the SFMO by local fire agencies and hospitals. This gives the SFMO direct access to specific local details on the types of fireworks and extent of injuries. Fireworks fire incident data is derived from NFIRS reporting. NFIRS data has been cross-referenced with these submitted reports to provide additional detail.

### Fireworks Incidents Summary

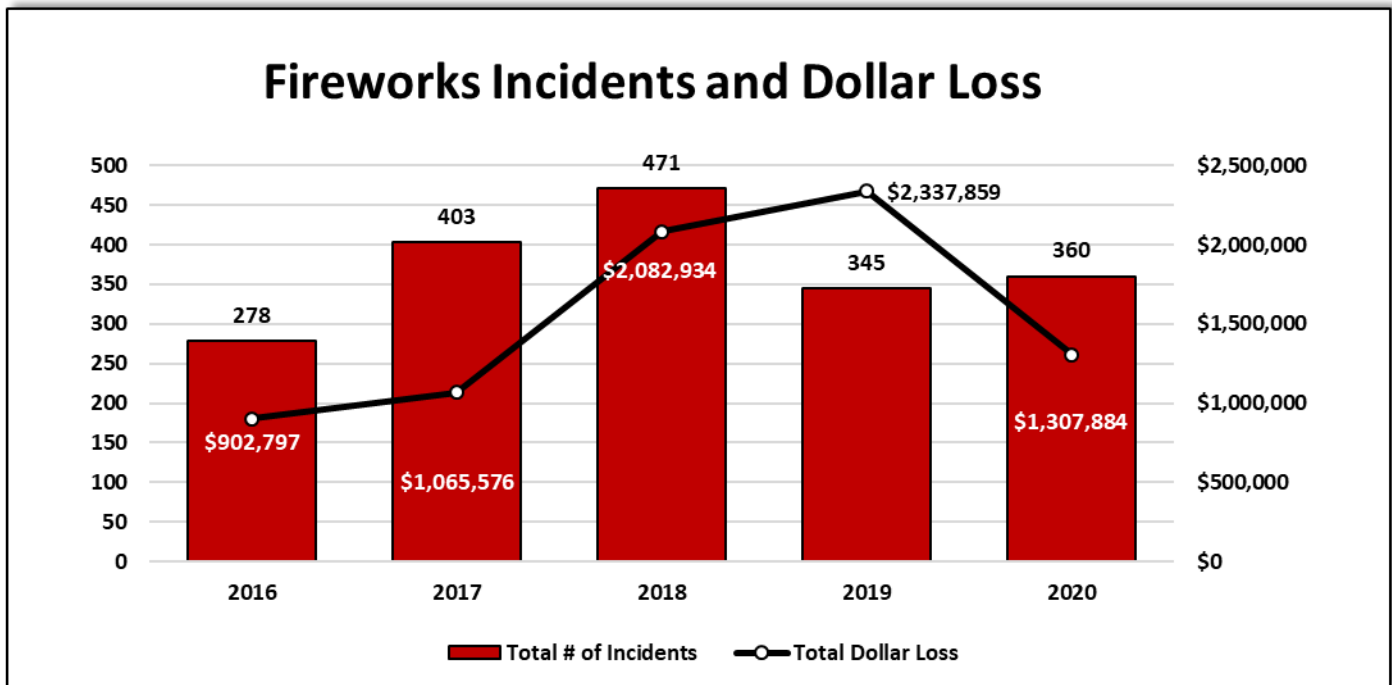
There were 597 fireworks-related injuries and/or fires reported to the SFMO in 2020 by fire departments and hospital emergency rooms. This is a 2.7% decrease from the previous year’s total of 614. Of the 597 reports received, there were 360 fires and 237 injuries.

Fireworks Incidents*	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Fire	370	238	301	393	627	278	403	471	345	360
Injury	247	226	241	277	241	250	262	209	269	237
<b>Total</b>	<b>617</b>	<b>464</b>	<b>542</b>	<b>670</b>	<b>868</b>	<b>528</b>	<b>665</b>	<b>680</b>	<b>614</b>	<b>597</b>

\*Fireworks fire data as reported to NFIRS. Injury data as reported to the SFMO via the Fireworks Injury Report form.

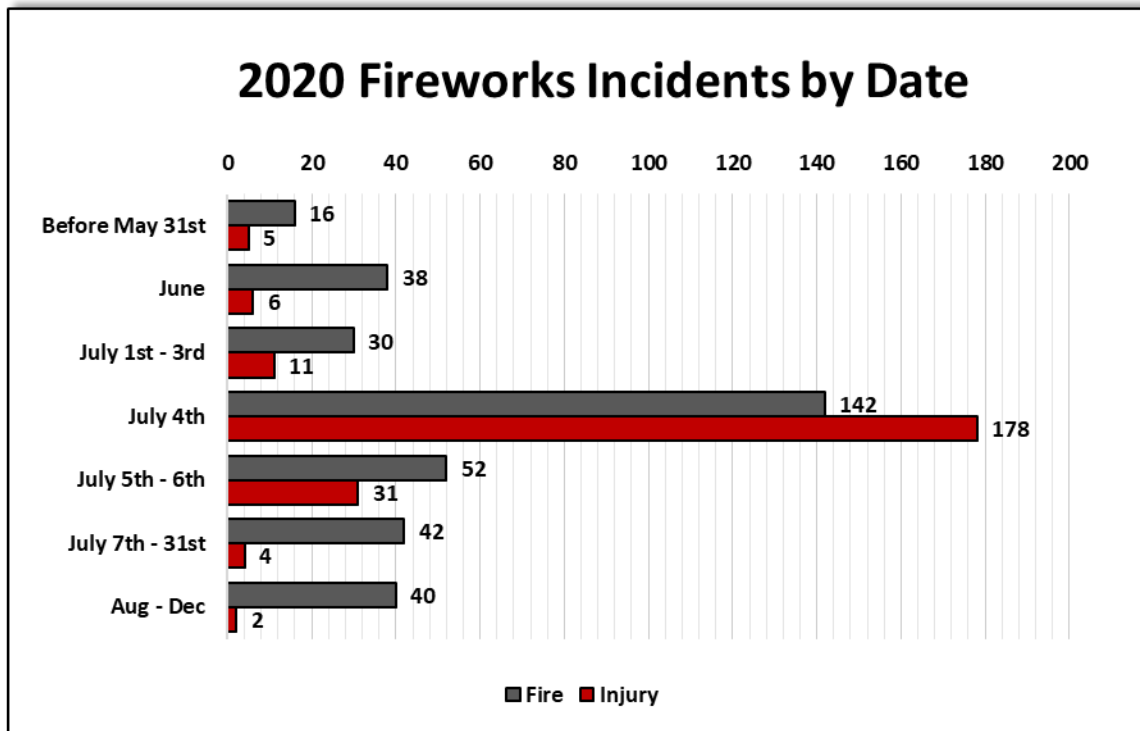
### Fireworks Incidents and Dollar Loss

Fireworks-related fires resulted in over \$1.3 million in property loss in 2020, which is a decrease from the previous two years.



## Fireworks Incidents by Date

Per [RCW 70.77.395](#), legal sale and discharge of consumer fireworks is restricted to periods around the Fourth of July and New Year's Eve only. According to local agency reporting, fireworks-related incidents most often occur on July 4th. This has remained constant over the past ten years.



\*Fireworks fire data as reported to NFIRS; injury data as reported to the SFMO via the Fireworks Injury Report form

## Fireworks Fires by Property Use

Fireworks-related fires most frequently occurred **Outside** or on **Residential** properties. **Residential** fireworks-related fires accounted for 30% of the total incidents, and 95% of the total dollar loss.

2020 Fireworks Fires by Property Use	# of Inc	%	Dollar Loss	% of Dollar Loss
Outside or Special Properties	179	50%	\$38,520	3%
Residential	108	30%	\$1,242,226	95%
Undetermined	40	11%	\$501	0%
Other Property Uses	7	2%	\$9,700	1%
Mercantile and Business	7	2%	\$535	0%
Storage	6	2%	\$15,400	1%
Assembly	6	2%	\$1,000	0%
Educational Uses	3	1%	\$2	0%
Industrial, Utility, Defense, Agriculture, and Mining	2	1%	\$0	0%
None	2	1%	\$0	0%
<b>Total</b>	<b>360</b>	<b>100%</b>	<b>\$1,307,884</b>	<b>100%</b>

Over the last five years, the distribution of fireworks-related fires among the different property use categories has remained relatively consistent.

Fireworks Fires - 5 Year Summary	2016	2017	2018	2019	2020	5-Year Total
<b>Residential</b>						
# of Incident	71	102	142	108	108	531
Dollar Loss	\$871,633	\$888,662	\$1,944,038	\$1,790,648	\$1,242,226	\$6,737,207
<b>Outside or Special Properties</b>						
# of Incident	165	225	251	168	179	988
Dollar Loss	\$24,460	\$43,759	\$44,135	\$438,702	\$38,520	\$589,576
<b>Storage</b>						
# of Incident	2	5	5	7	6	25
Dollar Loss	\$0	\$117,100	\$79,441	\$104,800	\$15,400	\$316,741
<b>Other Property Uses</b>						
# of Incident	3	4	4	1	7	19
Dollar Loss	\$3,500	\$10,500	\$0	\$0	\$9,700	\$23,700
<b>Undetermined</b>						
# of Incident	28	35	45	30	40	178
Dollar Loss	\$1,204	\$455	\$12,120	\$1,019	\$501	\$15,299
<b>Educational Uses</b>						
# of Incident	2	12	7	10	3	34
Dollar Loss	\$0	\$5,000	\$0	\$1,400	\$2	\$6,402
<b>Assembly</b>						
# of Incident	5	6	7	9	6	33
Dollar Loss	\$2,000	\$0	\$500	\$1,000	\$1,000	\$4,500
<b>Mercantile and Business</b>						
# of Incident	0	8	8	5	7	28
Dollar Loss	\$0	\$100	\$2,700	\$290	\$535	\$3,625
<b>Manufacturing and Processing</b>						
# of Incident	0	0	0	1	0	1
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Industrial, Utility, Defense, Agriculture, and Mining</b>						
# of Incident	2	5	2	5	2	16
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>None</b>						
# of Incident	0	1	0	1	2	4
Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total # of Incidents</b>	<b>278</b>	<b>403</b>	<b>471</b>	<b>345</b>	<b>360</b>	<b>1,857</b>
<b>Total Dollar Loss</b>	<b>\$902,797</b>	<b>\$1,065,576</b>	<b>\$2,082,934</b>	<b>\$2,337,859</b>	<b>\$1,307,884</b>	<b>\$7,697,050</b>

### Fireworks Incidents by Device Type

In 2020, **Illegal, Explosive, and Unknown** types of fireworks were identified as the cause in 93% of the fires and 34% of the injuries. **Legal** fireworks were identified in 7% of the reported fires, but accounted for 66% of the total injuries.

<b>2020 Fireworks Incidents by Classification of Fireworks Device*</b>					
	Legal	Illegal	Explosive	Unknown	TOTAL
<b>Fires</b>	24	1	1	334	<b>360</b>
<b>Injuries</b>	157	25	2	53	<b>237</b>

\*Fireworks fire data and injury data as reported to the SFMO via the Fireworks Incident Report forms



## Fireworks Injuries by Device Type

Of the 157 injury incidents involving **Legal** devices, injuries from **Public Display Mortars** were the most common at 55% of the incidents, followed by **Sparklers** at 19%. Of the 27 injury incidents involving **Illegal** devices, injuries from **M-80s** were the most common at 41%, followed by **Altered/Homemade Fireworks** at 30%.

Injuries by Type of Device	Legal	Illegal	Unknown	Total
Public Display Mortars	86	6	3	95
Other/Unknown	2	0	50	52
Sparklers	30	0	0	30
Roman Candles	3	0	0	3
M-80s	0	11	0	11
Firecrackers and Chasers	8	0	0	8
Ground and Flying Spinners	3	0	0	3
Cake/Multi-Aerials	6	0	0	6
Bottle Rockets	5	0	0	5
Altered/Homemade Fireworks	0	8	0	8
Cones and Fountains	4	0	0	4
Smoke Items	1	0	0	1
Novelties	9	0	0	9
Rockets/Missiles	0	2	0	2
<b>Grand Total</b>	<b>157</b>	<b>27</b>	<b>53</b>	<b>237</b>

## Fireworks Injuries by Types and Locations of Injuries

Most fireworks-related injuries are due to being **Hit by Fireworks and/or Debris** (37%) or **Holding or Throwing Fireworks** (32%).

Cause of Injury	
Hit by Fireworks and/or Debris	88
Holding or Throwing Fireworks	77
Lighting/Re-lighting Fireworks	15
Leaning Over Fireworks	12
Other	9
Unknown	5
Unsafe Surface for Lighting	2
Tampering with Fireworks	3
Multiple Causes	26
<b>Grand Total</b>	<b>237</b>

The leading type of fireworks-related injury reported was **Burns (Unspecified, First Degree, Second Degree, and Third Degree)** at 46% of the total of all fireworks-related injuries. **Trauma** injuries, which consist of at least two injuries to different areas of the body, accounted for 30% of the injuries.

Primary Injury	Legal	Illegal	Unknown	Total
Burns (Unspecified Severity)	18	2	5	25
Trauma	41	10	19	70
Vision/Hearing Loss	5	1	4	10
Amputation/Avulsion	17	7	9	33
Other/Unknown	10	0	3	13
First Degree Burns	16	1	8	25
Second Degree Burns	39	5	5	49
Third Degree Burns	10	0	0	10
Fatality	1	1	0	2
<b>Grand Total</b>	<b>157</b>	<b>27</b>	<b>53</b>	<b>237</b>

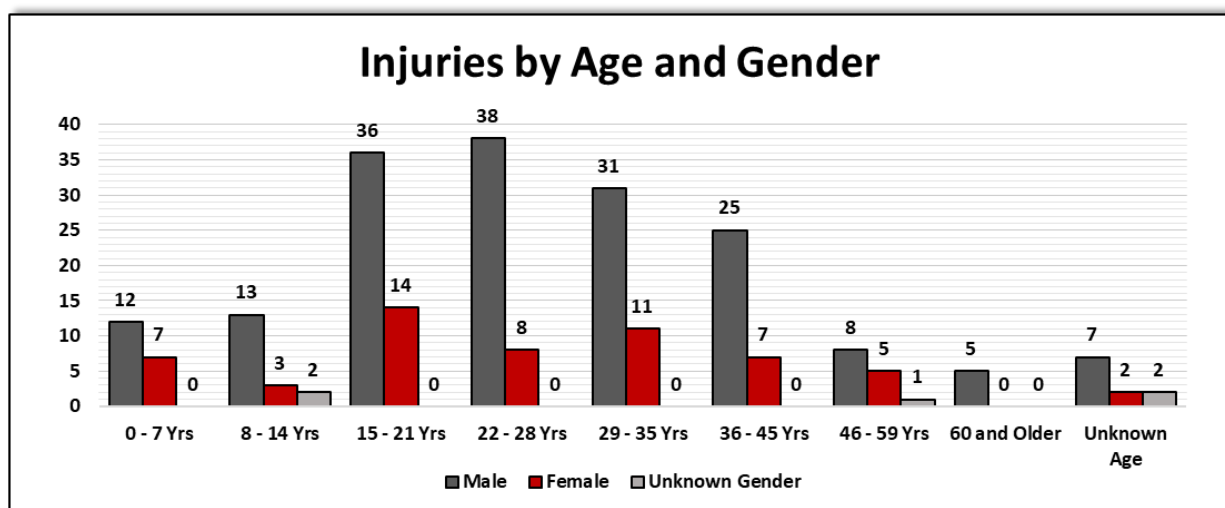
\*Trauma includes contusions, abrasions, lacerations, fractures, and other trauma injuries

Injuries to the **Arm/Hand/Fingers** accounted for 32% of the fireworks-related injuries. Injuries to the **Head/Face** accounted for 28% of the total injuries. However, 22% of the injuries occurred in **Multiple Locations**.

Primary Injury Location	Legal	Illegal	Unknown	Total
Arm/Hand/Fingers	53	10	13	76
Head/Face	46	6	14	66
Leg/Foot	24	1	8	33
Multiple Locations	26	10	16	52
Chest/Torso/Hip	7	0	1	8
Other	1	0	1	2
<b>Grand Total</b>	<b>157</b>	<b>27</b>	<b>53</b>	<b>237</b>

### Fireworks Injuries by Age and Gender

Fireworks-related injuries most often occur to people under 45 years of age. This year, 37% of the injuries occurred to those 21 years and under. According to the Center for Disease Control, children are 5.2 and teens are 3.1 times more likely to be injured by fireworks when they are unsupervised.



## Summary of Fireworks Incident Reports by County and Agency Type

County	Fire Agency			Hospital/Urgent Care			Other/Unkown Entity			Grand Total
	Fire	Injury	Total	Fire	Injury	Total	Fire	Injury	Total	
Adams	2	0	2	0	0	0	0	0	0	2
Asotin	8	0	8	0	0	0	0	0	0	8
Benton	10	0	10	0	19	19	0	0	0	29
Chelan	4	0	4	0	1	1	0	0	0	5
Clallam	2	0	2	0	0	0	0	0	0	2
Clark	21	2	23	0	1	1	0	0	0	24
<b>Columbia</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Cowlitz	7	0	7	0	0	0	0	0	0	7
Douglas	3	0	3	0	0	0	0	0	0	3
<b>Ferry</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Franklin	2	0	2	0	0	0	0	0	0	2
<b>Garfield</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Grant	29	1	30	0	4	4	0	1	1	35
Grays Harbor	6	0	6	0	9	9	0	0	0	15
Island	5	0	5	0	0	0	0	0	0	5
Jefferson	2	0	2	0	2	2	0	0	0	4
King	82	6	88	0	20	20	0	0	0	108
Kitsap	9	2	11	0	19	19	0	0	0	30
Kittitas	7	0	7	0	1	1	0	0	0	8
Klickitat	2	0	2	0	0	0	0	0	0	2
Lewis	2	0	2	0	5	5	0	0	0	7
<b>Lincoln</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Mason	2	0	2	0	4	4	0	0	0	6
Okanogan	2	0	2	0	1	1	0	0	0	3
Pacific	2	1	3	0	7	7	0	0	0	10
Pend Oreille	0	0	0	0	1	1	0	0	0	1
Pierce	62	8	70	0	56	56	0	1	1	127
<b>San Juan</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Skagit	3	0	3	0	1	1	0	4	4	8
<b>Skamania</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Snohomish	25	2	27	0	24	24	0	2	2	53
Spokane	10	0	10	0	3	3	0	0	0	13
Stevens	0	0	0	0	1	1	0	0	0	1
Thurston	10	1	11	0	7	7	0	0	0	18
<b>Wahkaikum</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Walla Walla	19	0	19	0	5	5	0	0	0	24
Whatcom	3	1	4	0	1	1	0	0	0	5
<b>Whitman</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
Yakima	19	0	19	0	3	3	0	0	0	22
Not Listed/Other	0	0	0	0	10	10	0	0	0	10
<b>Grand Total</b>	<b>360</b>	<b>24</b>	<b>384</b>	<b>1</b>	<b>205</b>	<b>205</b>	<b>0</b>	<b>8</b>	<b>8</b>	<b>597</b>

\*Fireworks fire data as reported to NFIRS. Injury data as reported to the SFMO via the Fireworks Injury Report form.

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