



2018 Fire in Washington

Prepared by the Washington State Fire Marshal's Office



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FROM THE CHIEF

Dear Fire Service Partners and Advocates:

The “2018 Fire in Washington” Annual Report captures the emergency response activities of the Washington State Fire Service for 2018. This report was generated by the Fire Protection Bureau from the data reported 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,

John R. Batiste
Washington State Patrol Chief



FROM THE STATE FIRE MARSHAL

Dear Fire Service Partners:

The “2018 Fire in Washington” Annual Report illustrates the emergency response information reported by 61% of the fire agencies from across the state with an emphasis on fire incidents. Information contained in this year’s annual report details:

- Fires took the lives of 67 people.
- Fires resulting in excess of \$283 million of property and content loss.
- More than 24,900 fire incidents.
- 759,680 total incidents.
- More than 544,000 rescue and emergency medical service incidents.
- 209 injuries related to the use of fireworks.

Fire service personnel provide critical services to the citizens of the state of Washington. 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 have access to more timely, accurate, and useful NFIRS information to help guide the decision-making process NFIRS data plays. The Washington State Fire Marshal’s Office and the Washington Fire Chiefs continue to strongly encourage monthly reporting, so that we can respond to inquiries about incident activity. We are pleased with the progress and commitment demonstrated by so many agencies in our state.

Sincerely,

Charles P. LeBlanc
Washington State Fire Marshal



Preface

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). NFIRS is an all-incident reporting system that captures the full range of incident activity. Many agencies document and report all incidents, while some agencies only report fires as required by the statute.

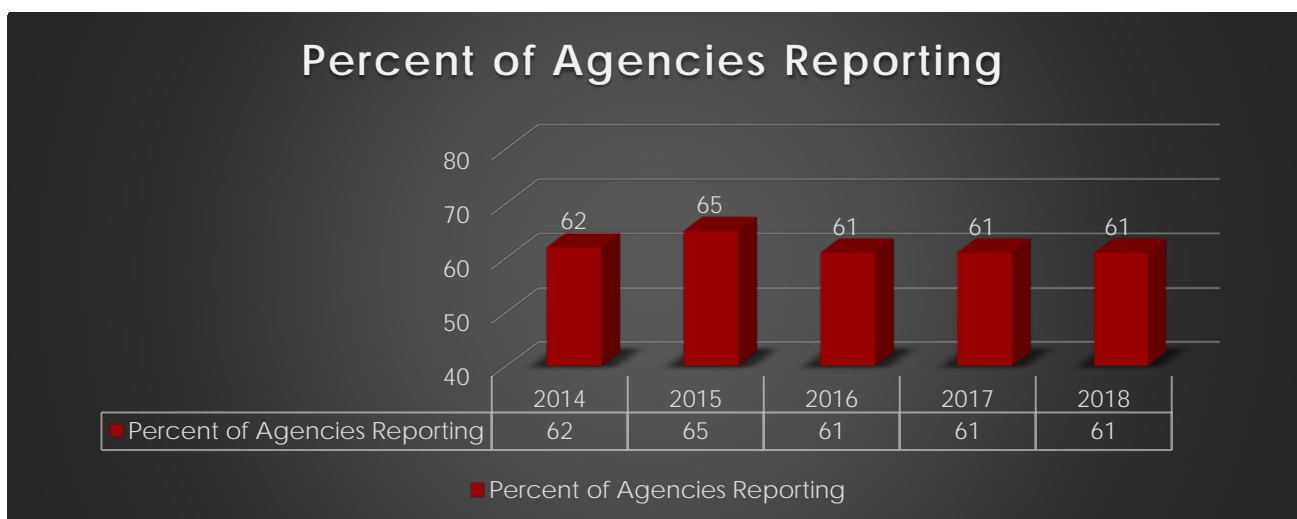
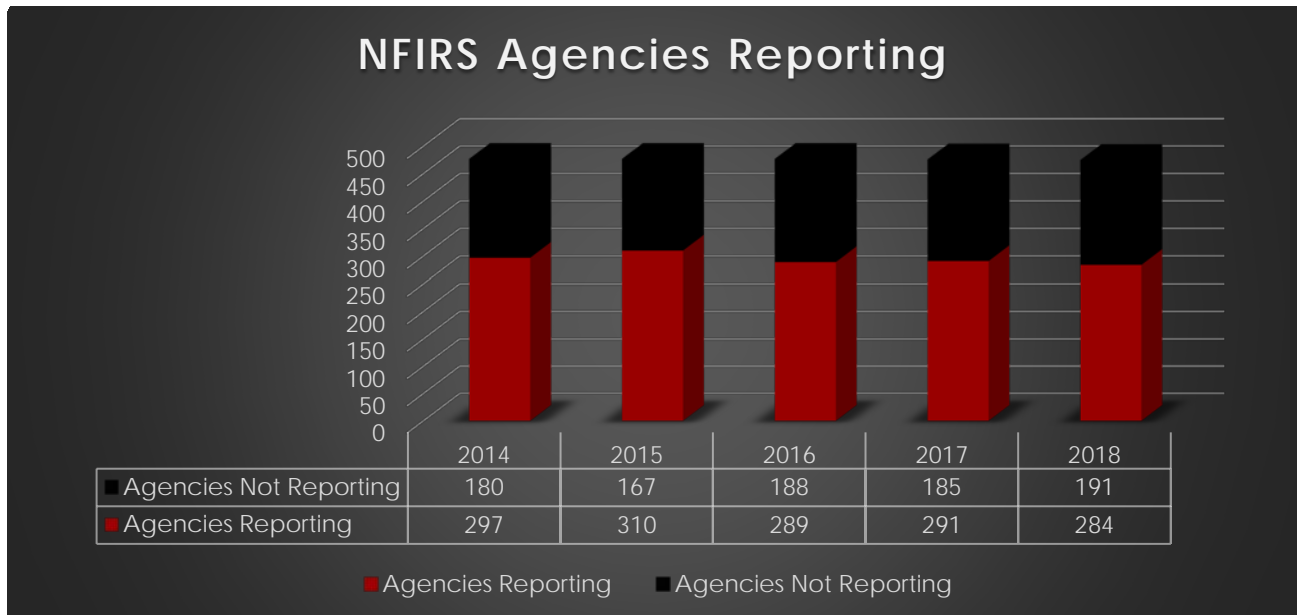
In 2011, the NFIRS program was eliminated from the SFMO due to budget cuts. The Washington Fire Chiefs took over support of the program at that time. In July 2017, the Legislature provided funding to the SFMO which allows for administrative support to the program for data collection. In March 2018 the transition of program support was moved back to the SFMO.

This report provides an overview of all incident categories reported, with fire information from 2018 as the primary focus. The statistical reports are generated from the United States Fire Administration web site 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 are not reflected in this publication.

Participation

RCW 43.44.060 states that fire agencies are required to submit fire incidents 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. In Washington, some agencies report only fires, while the majority of the agencies report all incident activity. Since taking over program administration responsibilities in March 2018, effort was made to go back and collect missing data. Some agencies provided information that had not been previously submitted.

The chart below provides the number of agencies that submitted data for inclusion in the "Fire in Washington" Annual Report between 2014 and 2018. In 2018, participation resulted in 284 out of 475 fire agencies providing information.

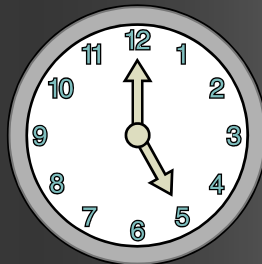




**ONE FIRE AGENCY RESPONSE
EVERY 42 SECONDS**

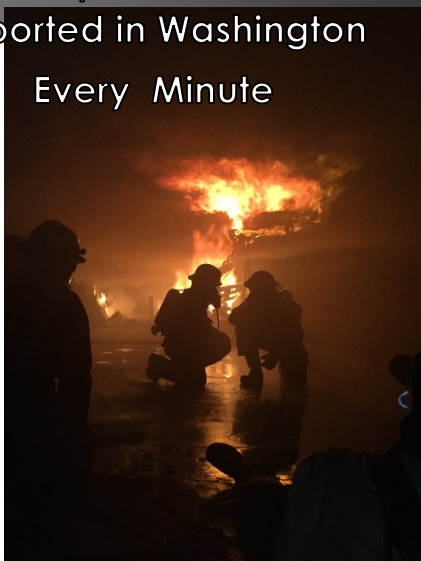


**One Fire Reported in
Washington
Every 21 minutes**



**One Structure Fire Reported
in Washington
Every 1.3 Hours**

**One EMS/Rescue Incident
Reported in Washington
Every Minute**



**One Intentionally Set Fire
Reported in Washington
Every 3.4 Hours**



Incident Overview

In Washington State, fire agencies are only 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 incidents reported, but is not all-encompassing of the total incident experience because 100% participation has not been achieved. Emphasis in this “Fire in Washington” Annual report is on fire incidents.

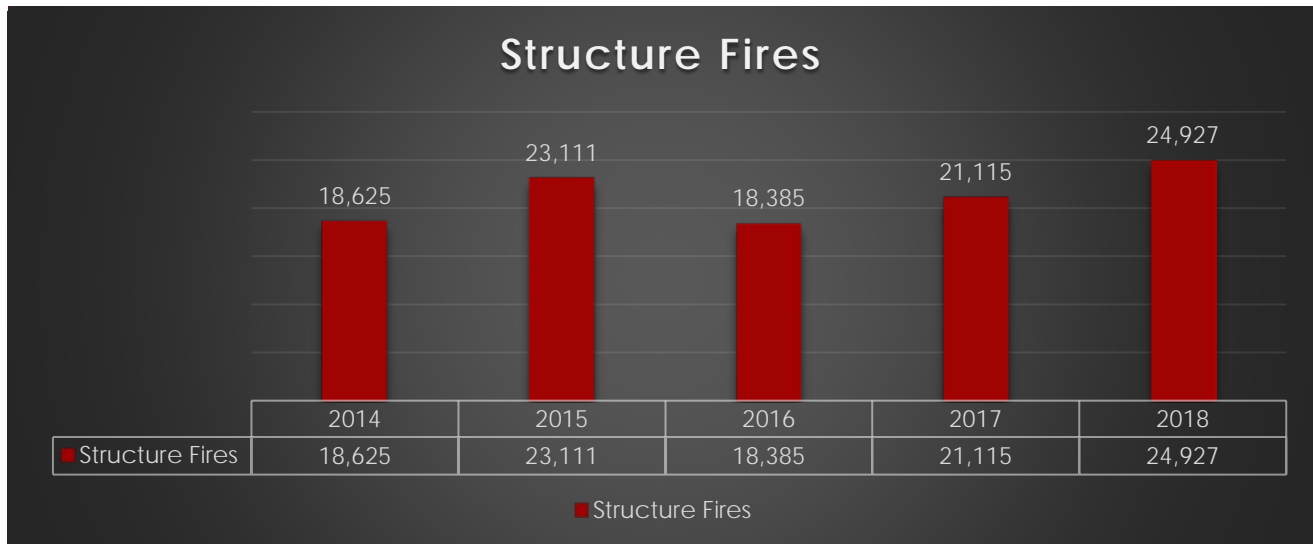
In 2018, fire agencies in Washington State reported over 759,680 incidents to NFIRS. More than 24,900 fire incidents were reported, resulting in 67 fire fatalities, and caused an estimated \$283 million in property and content loss. Dollar loss estimates are calculated by fire service personnel, and are not reflective of insurance settlements or actual total 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.

Rescue and emergency medical service was the leading incident type category reported, representing nearly 70% of the total. This figure is based only on NFIRS data. There were over 43,000 false alarms and false calls reported in 2018. This category included all malicious or mischievous false alarms, as well as fire protection system malfunctions and unintentional false fire protection activations.

2018 Incident Type Category Summary	Total # of Incidents	% of Total Incidents	Total Property & Content Loss Reported	% of Total Loss Reported
Fire	24,927	4.5%	\$283,408,931	98.0%
Structure Fires (including Confined Fires)	6,853	1.2%	\$214,122,337	81.3%
Vehicle Fires (Mobile Properties)	3,156	0.6%	\$56,844,782	9.9%
Natural Vegetation Fires	7,908	1.6%	\$5,641,362	4.1%
Fixed Mobile Property Fires	303	0.1%	\$2,844,646	1.2%
Outside Storage & Equipment Fires	1,461	0.2%	\$1,783,261	0.8%
Fire, Other	1,346	0.2%	\$1,095,542	0.3%
Cultivated Vegetation Fires	141	0.1%	\$857,530	0.4%
Outside Rubbish Fires	3,759	0.6%	\$219,471	0.1%
Rescue and Emergency Medical Service	544,039	69.6%	\$1,645,445	1.6%
Service Calls	51,622	7.1%	\$383,140	0.1%
Overpressure Rupture, Explosion, Overheat (No Fire)	960	0.1%	\$266,250	0.1%
False Alarms & False Calls	43,519	5.5%	\$238,400	0.1%
Unintentional False Fire Protection System Activation	22,482	2.5%	\$228,400	0.1%
Fire Protection System Malfunction	11,873	1.6%	\$10,000	0.0%
Malicious or Mischievous False Alarm	9,164	1.4%	\$0	0.0%
Hazardous Conditions (No Fire)	11,478	1.7%	\$165,135	0.1%
Good Intent Calls	78,462	11.0%	\$40,512	0.0%
Severe Weather & Natural Disaster	547	0.1%	\$20,000	0.0%
Other Types of Incidents	4,123	0.4%	\$1,700	0.0%
Undetermined Type of Incident	3	0.0%	\$0	0.0%
Grand Total	759,680	100.0%	\$286,169,513	100.0%

Fire History

In the past five years, fire service agencies have reported over 106,163 fire incidents to the SFMO. In these fires, 291 people have lost their lives and more than \$1.05 billion in property and content have been lost. In 2018, the number of fires reported increased 16% compared to the previous year.



Natural vegetation fires were the leading fire incident type reported over the past five years, accounting for 31% of total. During that same time period dollar loss was estimated at \$143 million. When the weather is hot and the humidity is low, fires that start in wildlands, forests, grass, or brush can spread quickly. Natural vegetation fires that consume large areas of land or burn in rugged terrain often require a significant amount of time and resources to extinguish.

Over the past five years, **structure fires** were the second leading type of incident reported. Structure fires accounted for approximately 28% of the fires reported, 73% of the estimated dollar loss, and approximately 67% of the fire fatalities. Statewide, structure fires average approximately 4 fires per thousand people. 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.

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 13% of the total fires reported and more than \$109 million in loss.

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 \$10 million in loss.

Fixed mobile property fires include mobile homes, recreational vehicles or trailers used as residences, and other portable buildings used in a fixed location. These fires accounted for approximately 1% of all fires and dollar loss reported over the past five years. In that same time period, 5 people lost their lives in recreational vehicles or trailers.

Fire History (Continued)

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 can be a challenge for fire service personnel because the market value may not be known.

The **fire, other** category 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 indicated in this category.

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, nearly 15% of the fires in this category were attributed to the burning of trash or other waste not in a container or receptacle.

2014 – 2018 Fire Incident Type by Category (Five-year total sorted by dollar loss)

Fire Incident Type Categories		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	5,478	6,193	5,675	6,008	6,853	30,207
	Dollar Loss	\$116,442,075	\$130,520,174	\$127,866,863	\$182,413,110	\$214,122,337	\$771,364,559
Natural Vegetation Fires	# of Incidents	5,299	8,044	5,019	6,344	7,908	32,614
	Dollar Loss	\$104,968,328	\$27,525,620	\$1,685,911	\$4,058,442	\$5,641,362	\$143,879,663
Vehicle Fires (Mobile Properties)	# of Incidents	2,643	2,805	2,636	2,844	3,156	14,084
	Dollar Loss	\$12,509,163	\$10,068,271	\$12,088,703	\$17,671,215	\$56,844,782	\$109,182,134
Fixed Mobile Property Fires	# of Incidents	206	234	203	246	303	1,192
	Dollar Loss	\$1,510,837	\$3,766,387	\$1,311,073	\$1,596,965	\$2,844,646	\$11,029,908
Outside Storage & Equipment Fires	# of Incidents	961	1,384	993	1,239	1,461	6,038
	Dollar Loss	\$303,904	\$6,416,087	\$1,154,898	\$416,848	\$1,783,261	\$10,074,998
Fire, Other	# of Incidents	1,162	1,340	1,080	1,212	1,346	6,140
	Dollar Loss	\$1,118,933	\$1,505,393	\$1,123,416	\$2,148,863	\$1,095,542	\$6,992,147
Cultivated Vegetation Fires	# of Incidents	118	143	108	107	141	617
	Dollar Loss	\$503,660	\$1,551,954	\$451,166	\$103,902	\$857,530	\$3,468,212
Outside Rubbish Fires	# of Incidents	2,758	2,968	2,671	3,115	3,759	15,271
	Dollar Loss	\$343,319	\$347,628	\$143,462	\$166,659	\$219,471	\$1,220,539
Total # of Incidents		18,625	23,111	18,385	21,115	24,927	106,163
Total Dollar Loss		\$237,700,219	\$181,701,514	\$145,825,492	\$208,576,004	\$283,408,931	\$1,057,212,160

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 21% of the fires and a little over 21% of the dollar loss reported between 2014 and 2018. Operating equipment includes sparks, embers, or flames from operating equipment, radiated or conducted heat from operating equipment, and electrical arcing.

Open flame or smoking materials are the second leading known heat source category. Included in this category are smoking materials, matches and lighters, flares, torches, candles, and backfire from internal combustion engines. Within this category, smoking materials are the leading heat source category. Smoking materials have historically been reported as the leading cause of fire fatalities.

Hot or smoldering objects are the third leading known heat source category. Included in this category are molten or hot materials, hot embers or ash, heat from friction, and other hot or smoldering objects.

Undetermined heat source category is used when the specific heat source cannot be identified, and is the category that fire investigation standards recommended when a definitive cause cannot be identified. Of the heat sources reported over the past five years, approximately 41% were reported as undetermined. In some cases, causes are determined after data has been submitted and the revised findings are not updated in the NFIRS reports.

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Operating Equipment	# of Incidents	2,853	3,237	2,853	3,043	3,378	15,364
	Dollar Loss	\$32,643,727	\$43,464,453	\$30,063,079	\$42,873,068	\$44,683,024	\$193,727,351
Open Flame or Smoking Material	# of Incidents	1,830	2,146	1,737	1,928	2,122	9,763
	Dollar Loss	\$11,056,880	\$16,311,341	\$10,591,325	\$16,198,498	\$50,090,505	\$104,248,549
Hot or Smoldering Object	# of Incidents	1,415	1,708	1,547	1,717	1,818	8,205
	Dollar Loss	\$9,009,938	\$11,966,648	\$19,669,508	\$11,967,654	\$45,586,195	\$98,199,943
Heat Spread from Another Fire	# of Incidents	448	454	369	394	524	2,189
	Dollar Loss	\$3,155,457	\$8,062,637	\$2,956,460	\$5,473,447	\$7,860,413	\$27,508,414
Heat Source Other	# of Incidents	634	739	606	714	786	3,479
	Dollar Loss	\$1,794,352	\$4,089,080	\$3,681,109	\$5,777,821	\$3,152,254	\$18,494,616
Chemical or Natural	# of Incidents	254	268	187	208	224	1,141
	Dollar Loss	\$1,694,282	\$2,084,810	\$2,450,791	\$2,229,821	\$3,038,250	\$11,497,954
Explosives and Fireworks	# of Incidents	488	739	383	533	655	2,798
	Dollar Loss	\$1,846,203	\$2,110,169	\$1,225,637	\$1,743,913	\$2,555,469	\$9,481,391
Multiple Heat Sources	# of Incidents	26	31	35	38	54	184
	Dollar Loss	\$483,302	\$333,301	\$1,598,726	\$1,419,502	\$625,926	\$4,460,757
Undetermined	# of Incidents	5,155	6,521	5,255	6,173	7,437	30,541
	Dollar Loss	\$68,598,452	\$65,237,227	\$71,855,397	\$117,083,739	\$120,093,528	\$442,868,343
Total # of Incidents		13,103	15,843	12,972	14,748	16,998	73,664
Total Dollar Loss		\$130,282,593	\$153,659,666	\$144,092,032	\$204,767,463	\$277,685,564	\$910,487,318

Area of Origin

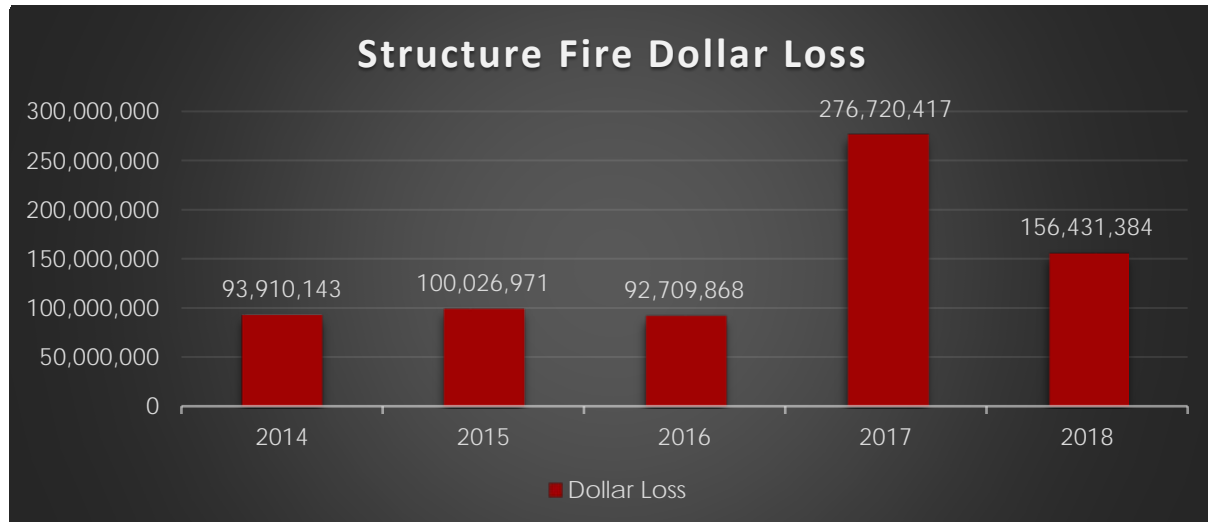
Area of origin identifies the primary location where a fire started within a property. The area of origin may be a room, a portion of a room, a vehicle, a portion of a vehicle, or an open area devoted to a specific use. While every fire has an area of origin, NFIRS does not require the specific location to be documented in every case. The area of origin is not required to be documented for fires that do not spread beyond a non-combustible container or vessel, or fires documented through the optional Wildland Module. The table below provides a five-year overview of the areas of origin reported for all fires in the Fire Module only. Property use was not taken into consideration in this analysis.

The leading areas of origin reported between 2014 and 2018 are those fires starting in outside areas (40%) and in vehicle areas (17%). Fires that started in functional areas resulted in the greatest amount of dollar loss to property and contents at over \$182 million. Bedrooms, dining or eating areas, kitchens, bathrooms, laundry rooms, office spaces, and other functional areas are included in this category. Fires that started in structural areas such as crawl spaces, balconies or enclosed porches, attics, wall assemblies and surfaces, roof surfaces, and awnings have accounted for more than \$141 million in loss over the past five years.

Area of Origin by Categories		2014	2015	2016	2017	2018	5-Year Total
Functional Areas	# of Incidents	1,750	1,958	1,834	1,849	2,095	9,486
	Dollar Loss	\$31,258,878	\$32,408,041	\$33,935,375	\$47,520,586	\$37,187,851	\$182,310,731
Structural Areas	# of Incidents	733	854	766	836	872	4,061
	Dollar Loss	\$27,326,462	\$35,863,382	\$21,236,165	\$24,966,783	\$32,397,813	\$141,790,605
Storage Areas	# of Incidents	559	607	581	682	698	3,127
	Dollar Loss	\$13,286,234	\$21,698,808	\$23,177,567	\$19,519,334	\$25,894,787	\$103,576,730
Outside Areas	# of Incidents	5,323	6,988	4,889	5,816	6,985	30,001
	Dollar Loss	\$11,853,626	\$13,738,444	\$9,598,877	\$9,856,855	\$46,210,990	\$91,258,792
Vehicle Areas	# of Incidents	2,311	2,516	2,308	2,476	2,726	12,337
	Dollar Loss	\$11,108,654	\$10,866,779	\$11,239,631	\$15,913,732	\$22,031,864	\$71,160,660
Service or Equipment Areas	# of Incidents	321	324	297	342	340	1,624
	Dollar Loss	\$4,011,071	\$10,614,238	\$10,892,098	\$10,124,604	\$33,431,264	\$69,073,275
Areas of Groups of People (Assembly)	# of Incidents	214	217	158	224	227	1,040
	Dollar Loss	\$7,116,034	\$8,619,363	\$4,912,332	\$8,251,335	\$14,362,498	\$43,261,562
Means of Egress/Exit Access/Exit Areas	# of Incidents	131	166	143	177	176	793
	Dollar Loss	\$2,201,316	\$3,129,720	\$3,078,582	\$7,251,706	\$9,886,986	\$25,548,310
Other Areas of Origin	# of Incidents	536	635	614	715	896	3,396
	Dollar Loss	\$1,374,847	\$1,916,398	\$2,353,813	\$2,131,670	\$2,485,169	\$10,261,897
Technical Processing Areas	# of Incidents	34	43	29	38	41	185
	Dollar Loss	\$767,161	\$1,060,150	\$380,700	\$449,950	\$980,492	\$3,638,453
Undetermined	# of Incidents	1,191	1,536	1,354	1,595	1,944	7,620
	Dollar Loss	\$19,978,310	\$13,744,343	\$23,286,892	\$58,782,408	\$52,814,450	\$168,606,403
Total # of Incidents		13,103	15,844	12,973	14,750	17,000	73,670
Total Dollar Loss		\$130,282,593	\$153,659,666	\$144,092,032	\$204,768,963	\$277,684,164	\$910,487,418

Fires at Residential Properties

Fires at residential properties are a significant problem in terms of the impact on lives and property. Over the past five years, 67% of the fire fatalities in Washington State occurred in residential properties. As categorized by NFIRS, residential properties include one and two-family dwellings, multi-family dwellings, board and care facilities, hotel/motels, college housing, barracks, and dormitories.



Residential Property Uses		2014	2015	2016	2017	2018	5-Year Total
1 or 2 family dwelling	# of Incidents	5,399	6,191	5,271	5,793	6,735	29,389
	Dollar Loss	\$63,152,359	\$75,177,474	\$74,885,893	\$84,626,418	\$100,141,076	\$397,983,220
Multifamily dwellings	# of Incidents	1,484	1,808	1,526	1,701	2,030	8,549
	Dollar Loss	\$29,107,547	\$20,976,113	\$16,617,651	\$53,526,566	\$26,332,469	\$146,560,346
Other Residential Uses	# of Incidents	534	580	504	604	657	2,879
	Dollar Loss	\$1,650,237	\$3,873,384	\$1,206,324	\$2,439,697	\$29,957,839	\$39,127,481
Total # of Incidents		7,417	8,579	7,301	8,098	9,422	40,817
Total Dollar Loss		\$93,910,143	\$100,026,971	\$92,709,868	\$140,592,681	\$156,431,384	\$583,671,047

Fire Incident Type Category (Residential Property Only)		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	4,310	4,816	4,443	4,751	5,325	23,645
	Dollar Loss	\$90,762,768	\$93,015,371	\$89,306,143	\$136,127,736	\$149,874,258	\$559,086,276
Fire, Other	# of Incidents	543	590	538	5,324	640	7,635
	Dollar Loss	\$371,449	\$267,825	\$345,268	\$137,831,662	\$728,422	\$139,544,626
Fixed Mobile Property Fires	# of Incidents	138	143	113	145	180	719
	Dollar Loss	\$1,183,820	\$3,416,359	\$1,014,218	\$1,217,787	\$1,896,005	\$8,728,189
Vehicle Fires (Mobile Properties)	# of Incidents	283	275	297	317	388	1,560
	Dollar Loss	\$1,186,383	\$858,453	\$1,094,461	\$1,294,214	\$2,339,263	\$6,772,774
Outside Storage & Equipment Fires	# of Incidents	197	279	155	224	250	1,105
	Dollar Loss	\$94,327	\$2,191,924	\$93,635	\$96,865	\$195,995	\$2,672,746
Natural Vegetation Fires	# of Incidents	855	1,289	814	1,011	1,329	5,298
	Dollar Loss	\$278,479	\$196,825	\$774,077	\$116,649	\$1,303,206	\$2,669,236
Outside Rubbish Fires	# of Incidents	1,077	1,170	928	1,068	1,284	5,527
	Dollar Loss	\$31,157	\$40,139	\$81,864	\$32,904	\$56,235	\$242,299
Cultivated Vegetation Fires	# of Incidents	14	17	13	9	22	75
	Dollar Loss	\$1,760	\$40,075	\$202	\$2,600	\$26,000	\$70,637
Total # of Incidents		7,417	8,579	7,301	12,849	9,418	45,564
Total Dollar Loss		\$93,910,143	\$100,026,971	\$92,709,868	\$276,720,417	\$156,419,384	\$719,786,783

Automatic Extinguishing Systems

In 2018, there were 362 fire suppression system activations reported at properties with full or partial automatic extinguishing systems present. Just over \$42 million were lost in property and contents. It is difficult to measure the value of the contents that were protected by an automatic extinguishing system. Without a doubt, the dollar amount in saved property is large compared to the loss.

Of the 67 fire fatalities reported during 2018, none occurred in a building that was equipped with a fire suppression system.

Automatic Extinguishing System Presence by Property Use Category	# of Incidents	Reported Property & Contents Loss
Residential	191	\$32,872,049
1 or 2 Family Dwelling	34	\$1,040,591
Boarding/Rooming House, Residential Hotels	4	\$27,300
Hotel/Motel, Commercial	17	\$25,734,227
Multifamily Dwellings	133	\$5,950,877
Residential Board and Care	2	\$119,054
Sorority House, Fraternity House	1	\$0
Mercantile & Business	39	\$6,013,058
Assembly	44	\$1,405,437
Health Care, Detention, & Corrections	23	\$1,342,360
Manufacturing & Processing	27	\$289,510
Educational Uses	18	\$92,802
Storage	10	\$40,900
Industrial, Utility, Defense, Agriculture, & Mining	4	\$2,000
Outside or Special Properties	5	\$1,246
Undetermined	1	\$2
Grand Total	362	\$42,059,364

Fires in homes pose one of the biggest threats to people. In 2018, there were more than 6,853 structure fires in residential properties, resulting in 45 fire fatalities and dollar loss in excess of \$214 million. Residential fire sprinklers are a proven way to protect lives and property against fires at home. Residential fire sprinklers do save lives.

Residential fire sprinklers respond quickly to reduce heat, flames, and smoke from a fire, giving families valuable time to get to safety. Each individual sprinkler is designed and calibrated to go off when it senses a significant heat change. Only the sprinkler closest to the fire will activate, spraying water directly on the fire.

Installing residential fire sprinklers can reduce property loss in the event of a fire, cut homeowner insurance premiums, and help qualify a home for a tax rebate.

Cause of Ignition

The cause of ignition is useful in determining the factors that lead up to fire ignition. The table below illustrates the causes of ignition reported through the Fire Modules over the past five years. The causes of fire can be a result of unintentional or intentional acts, mechanical failures of equipment, other heat sources, or acts of nature. Fire prevention measures and product safety features can be tailored to address the causes of fires reported through NFIRS.

Cause of Ignition		2014	2015	2016	2017	2018	5-Year Total
Cause under investigation	# of Incidents	1,219	1,452	1,378	1,495	1,900	7,444
	Dollar Loss	\$40,235,539	\$45,507,225	\$37,675,389	\$80,130,563	\$130,999,719	\$334,548,435
Unintentional	# of Incidents	5,968	7,376	6,015	6,859	7,601	33,819
	Dollar Loss	\$46,092,942	\$65,090,604	\$65,839,654	\$70,018,376	\$63,418,885	\$310,460,461
Cause undetermined after investigation	# of Incidents	1,960	2,637	1,808	2,311	2,558	11,274
	Dollar Loss	\$20,637,110	\$13,174,322	\$18,265,760	\$29,655,210	\$37,501,693	\$119,234,095
Failure of equipment or heat source	# of Incidents	1,525	1,608	1,455	1,639	1,766	7,993
	Dollar Loss	\$14,464,870	\$17,438,224	\$9,515,585	\$11,247,014	\$18,923,382	\$71,589,075
Intentional	# of Incidents	1,958	2,175	1,930	1,990	2,559	10,612
	Dollar Loss	\$7,299,966	\$6,539,849	\$9,356,103	\$10,267,841	\$19,505,331	\$52,969,090
Cause, Other	# of Incidents	192	256	192	216	356	1,212
	Dollar Loss	\$719,245	\$5,233,562	\$2,799,413	\$3,116,025	\$6,958,594	\$18,826,839
Act of nature	# of Incidents	280	339	193	239	254	1,305
	Dollar Loss	\$832,921	\$675,880	\$640,128	\$338,304	\$372,625	\$2,859,858
Total # of Incidents		13,102	15,843	12,971	14,749	16,994	73,659
Total Dollar Loss		\$130,282,593	\$153,659,666	\$144,092,032	\$204,773,333	\$277,680,229	\$910,487,853

Intentionally Set Fires by Property Use

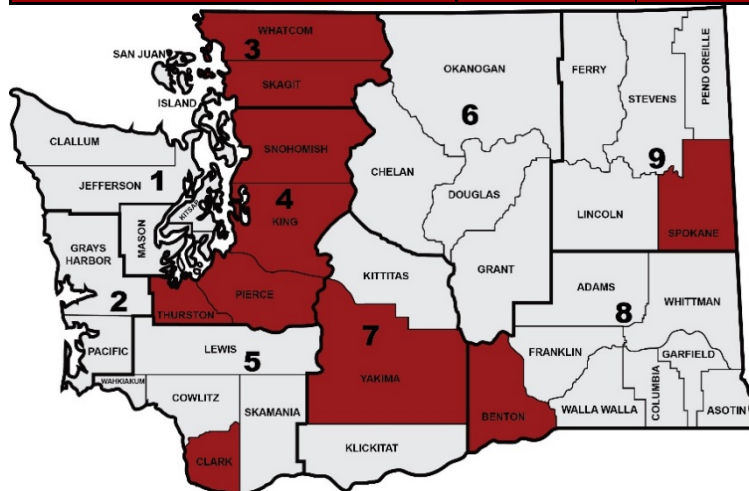
Intentionally set fires are those fires set deliberately by the misuse of a heat source or the intentional ignition of property, and result in millions of dollars in property loss in our state each year.

Intentionally Set Fires by Property Use		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	648	751	699	656	916	3,670
	Dollar Loss	\$3,839,203	\$3,488,498	\$4,720,694	\$5,776,111	\$5,571,939	\$23,396,445
Mercantile & Business	# of Incidents	50	50	35	46	54	235
	Dollar Loss	\$376,551	\$618,060	\$689,002	\$3,205,449	\$4,559,730	\$9,448,792
Manufacturing & Processing	# of Incidents	5	4	4	11	3	27
	Dollar Loss	\$4,000	\$2,891	\$850,000	\$34,100	\$6,500,000	\$7,390,991
Assembly	# of Incidents	41	50	56	36	40	223
	Dollar Loss	\$23,426	\$206,075	\$2,095,733	\$51,701	\$1,765,841	\$4,142,776
Outside or Special Properties	# of Incidents	735	801	609	708	915	3,768
	Dollar Loss	\$1,328,038	\$738,766	\$400,282	\$910,001	\$737,669	\$4,114,756
Storage	# of Incidents	35	36	40	24	32	167
	Dollar Loss	\$1,508,185	\$272,700	\$393,177	\$55,401	\$183,050	\$2,412,513
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	47	39	28	27	37	178
	Dollar Loss	\$95,500	\$554,140	\$1,000	\$10,000	\$0	\$660,640
Health Care, Detention, & Corrections	# of Incidents	6	4	5	3	12	30
	Dollar Loss	\$5,100	\$480,000	\$660	\$6,500	\$6,434	\$498,694
Other Property Uses	# of Incidents	37	48	47	48	35	215
	Dollar Loss	\$44,600	\$146,105	\$102,818	\$96,575	\$92,710	\$482,808
Educational Uses	# of Incidents	53	35	32	32	34	186
	Dollar Loss	\$59,586	\$14,470	\$96,878	\$106,250	\$60,137	\$337,321
Undetermined	# of Incidents	293	345	362	388	462	1,850
	Dollar Loss	\$12,777	\$17,144	\$5,859	\$15,753	\$25,121	\$76,654
None	# of Incidents	8	10	13	11	19	61
	Dollar Loss	\$3,000	\$1,000	\$0	\$0	\$2,700	\$6,700
Total # of Incidents		1,958	2,173	1,930	1,990	2,559	10,610
Total Dollar Loss		\$7,299,966	\$6,539,849	\$9,356,103	\$10,267,841	\$19,505,331	\$52,969,090

Incidents Based on Population

In Washington State, 12 of the 39 counties have populations of over 100,000, representing 85% of the state's population. In 2018, approximately 87.6% of the incidents and 83.4% of the dollar loss reported as a result of fire occurred in the most densely populated counties.

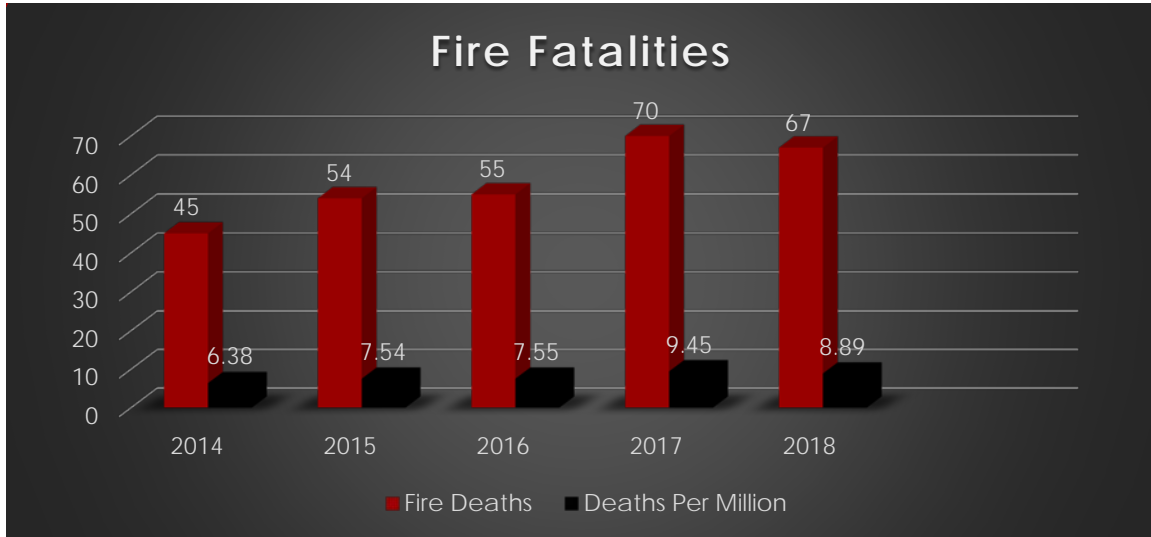
Estimated Population (Based on figures from the Washington State Office of Financial Management)	12 Counties with Populations Over 100,000		27 Counties with Populations Under 100,000		Statewide	
	6,309,910	85%	1,117,660	15%	7,427,570	
Incident Type Categories	# of Incidents	% of Total	# of Incidents	% of Total	# of Incidents	% of Total
Rescue & Emergency Medical Service	477,068	62.8%	66,971	8.8%	544,039	71.6%
Good Intent Calls	70,318	9.3%	8,144	1.1%	78,462	10.3%
Service Calls	44,858	5.9%	6,764	0.9%	51,622	6.8%
False Alarms & False Calls	38,213	5.0%	5,306	0.7%	43,519	5.7%
Fire Protection System Malfunction	10,629	1.4%	1,244	0.2%	11,873	1.6%
Malicious or Mischievous False Alarm	7,625	1.0%	1,539	0.2%	9,164	1.2%
Unintentional False Fire Protection System Activation	19,959	2.6%	2,523	0.3%	22,482	3.0%
Fire	20,101	2.6%	4,826	0.6%	24,927	3.3%
Cultivated Vegetation Fires	58	0.0%	83	0.0%	141	0.0%
Fire, Other	1,033	0.1%	313	0.0%	1,346	0.2%
Fixed Mobile Property Fires	209	0.0%	94	0.0%	303	0.0%
Natural Vegetation Fires	6,200	0.8%	1,708	0.2%	7,908	1.0%
Outside Rubbish Fires	3,243	0.4%	516	0.1%	3,759	0.5%
Outside Storage & Equipment Fires	1,329	0.2%	132	0.0%	1,461	0.2%
Structure Fires (including confined fires)	5,427	0.7%	1,426	0.2%	6,853	0.9%
Vehicle Fires (Mobile Properties)	2,602	0.3%	554	0.1%	3,156	0.4%
Hazardous Conditions (No Fire)	9,654	1.3%	1,824	0.2%	11,478	1.5%
Other Types of Incidents	3,771	0.5%	352	0.0%	4,123	0.5%
Overpressure Rupture, Explosion, Overheat (No Fire)	863	0.1%	97	0.0%	960	0.1%
Severe Weather & Natural Disaster	311	0.0%	236	0.0%	547	0.1%
Undetermined Type of Incident	3	0.0%	0	0.0%	3	0.0%
Grand Total	665,160	87.6%	94,520	12.4%	759,680	100.0%
Dollar Loss as a Result of Fire	\$236,368,054	83.4%	\$47,040,877	16.6%	\$283,408,931	100.0%



Counties with populations greater than 100,000

Fire Fatalities

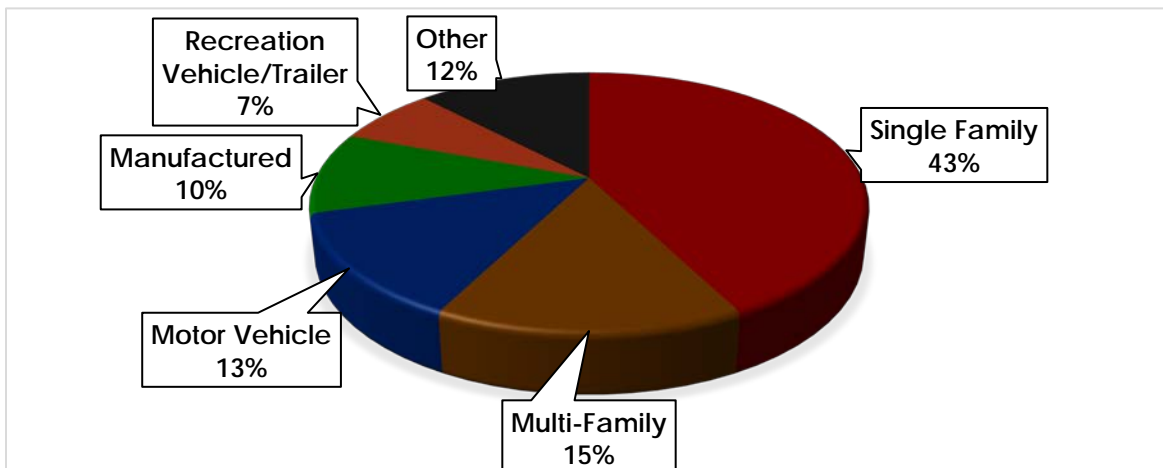
In 2018, fire agencies reported 67 fire fatalities to the SFMO. Compared to the previous year, fire fatalities decreased 9%, lowering the rate in Washington State to 8.9 fire deaths per million people. According to the latest available statistics from the United States Fire Administration (2016 figures), the national fire death rate was 10.9 per million people. Washington State ranked 14 in the nation.



Places Fire Fatalities Occurred in 2018

Fire fatalities occur most frequently where people sleep. In 2018, nearly 67% of the fire fatalities occurred in residential dwellings, and another 7% occurred in recreational vehicles or travel trailers. Of the deaths that occurred in single family dwellings, approximately 10% were classified as mobile homes.

Occupancy Categories	Total	% of Total
Single Family	28	42%
Multi-Family	10	15%
Motor Vehicle	9	13%
Other	8	12%
Manufactured	7	10%
Recreational Vehicle/Travel Trailer	5	7%
Total	67	100%



2018 Fire Fatality Causes

Of the fire fatalities reported in 2018, **smoking**-related fires were the leading known cause, accounting for approximately 20.9% of the total. 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.

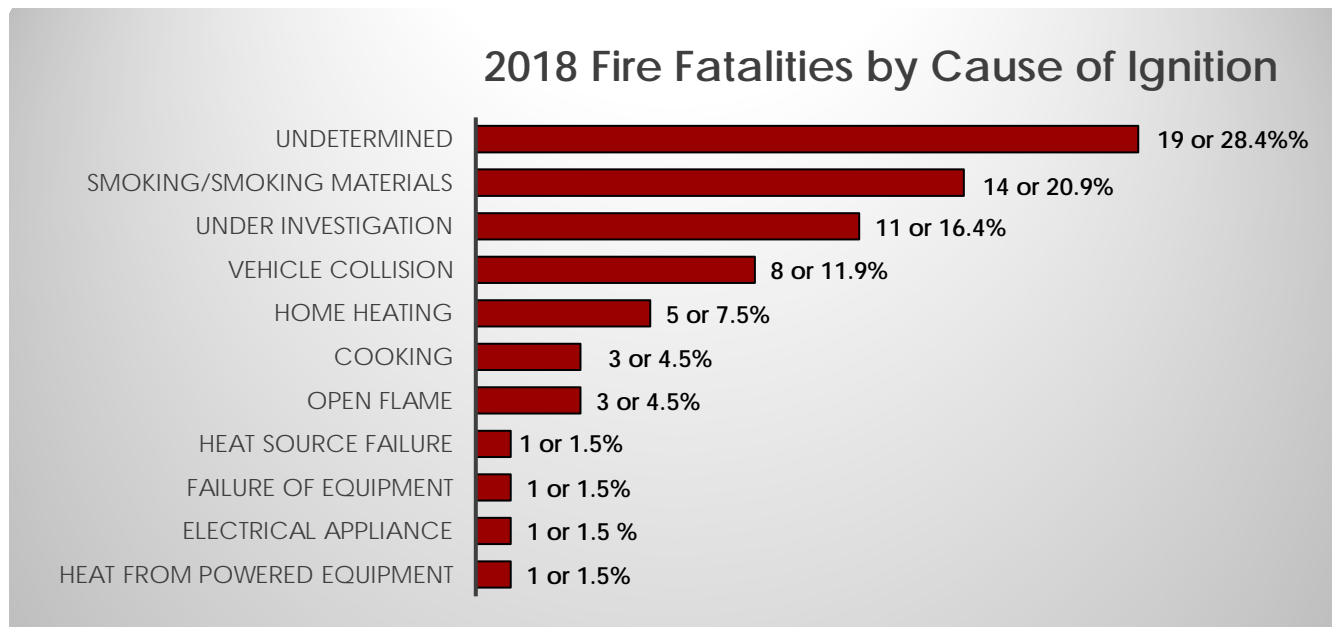
One incident, reported as an explosion and fire, resulted in the deaths of five people. This incident is undetermined due to the ongoing investigation. This accounted for approximately 7% of the total fire fatalities in 2018.

Vehicle-related fires were the fourth leading cause resulting in approximately 11.9% of the total.

Home heating fires accounted for five deaths or 7.5% of the total fire fatalities in 2018. Home heating fires are often related to the use of portable space heaters in lieu of built-in heating systems, improper installation of heating equipment, lack of maintenance or clearing of furnaces, chimneys or flues, and the use of accelerants to start fires.

Fire fatalities caused by **cooking**, and **candles** each resulted in the deaths of three people, or 4.5% of the total fire fatalities in 2018. Cooking-related fires are often caused by food left unsupervised, individuals wearing loose-fitting clothing, or other combustibles coming in contact with burners or stoves. Candle-related fires are often caused by candles coming in contact with combustibles, or candles burning for extended periods of time without supervision.

In the case of **undetermined** fire causes, the exact fire cause cannot be clearly identified by the fire investigator.



Age and Gender of Fire Fatalities

Age and gender are factors that impact an individual's ability to escape a fire. The United State Fire Administration indicates men are 1.6 times more likely to die in fires than women. In addition, older males are 50% more likely to die in fires than women. In 2018, fire agencies in Washington State reported approximately 59.7% of the fire victims were male.

In 2018, approximately 62.7% 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, and they may be home alone at the time a fire starts.

Children are at significant risk in fire situations. 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 children may have limited fire escape skills or knowledge.

Age Group	Female		Male		Grand Total	% of Total
	Total	% of Total	Total	% of Total		
10 & Under	2	3.0%	3	4.5%	5	7.5%
11 - 19	2	3.0%	1	1.5%	3	4.5%
20 - 29	2	3.0%	1	1.5%	3	4.5%
30 - 39	2	3.0%	4	6.0%	6	9.0%
40 - 49	2	3.0%	2	3.0%	4	6.0%
50 - 59	3	4.5%	10	14.9%	13	19.4%
60 - 69	5	7.5%	7	10.4%	12	17.9%
70 - 79	6	9.0%	6	9.0%	12	17.9%
80 - 89	1	1.5%	2	3.0%	3	4.5%
90 - 99	1	1.5%	1	1.5%	2	3.0%
Age Unknown	1	1.5%	3	4.5%	4	6.0%
Grand Total	27	40.3%	40	59.7%	67	100.0%

2018 Multiple Deaths Incidents:

March – In Grays Harbor County two people died as the result of a residential structure fire.

June – In Jefferson County five members of the same family died as the result of an explosion and fire at a vacation cabin.

June – In King County three people died as the result of a vehicle accident and ensuing fire.

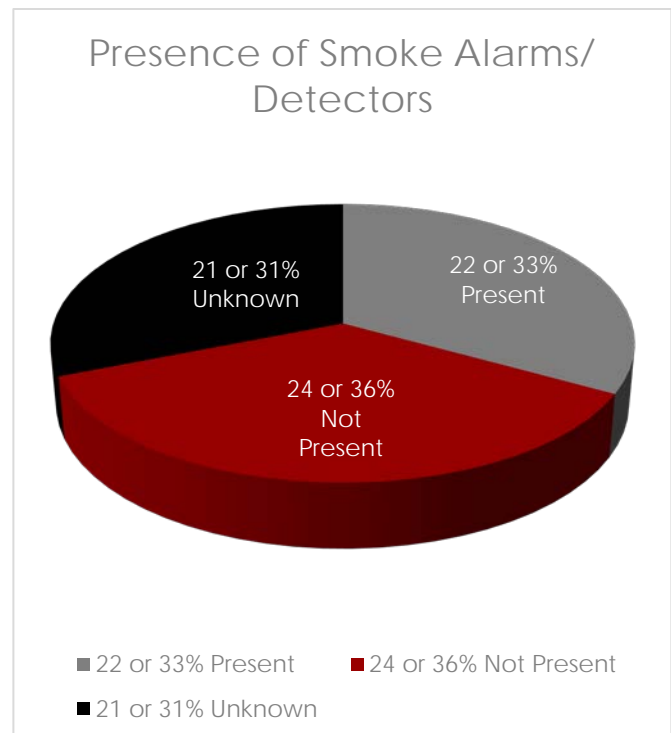
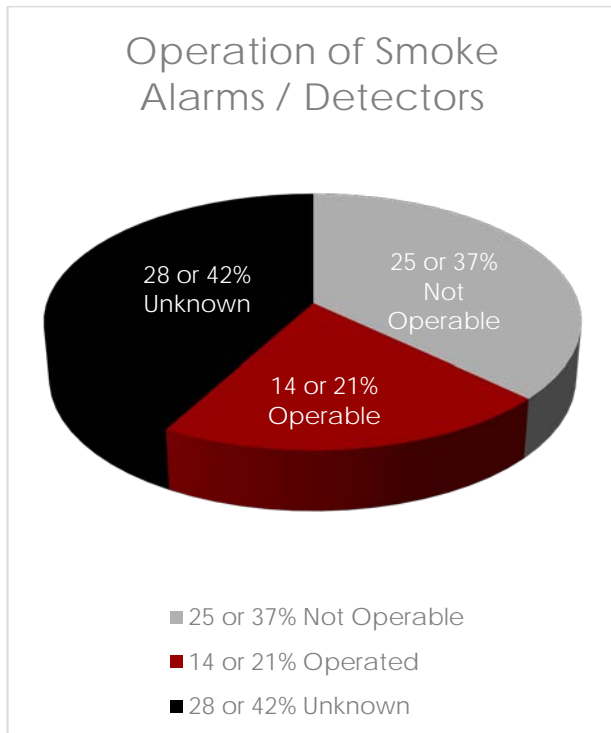
August – In Douglas county two people died as the result of a residential structure fire in a manufactured home.

Fire Fatalities and Fire Protection Devices

Fire protection devices – such as smoke alarms and residential fire sprinklers – play a key role in reducing the loss of life in fires. Smoke alarms are designed to detect smoke and provide early notification to building occupants. Fire sprinklers provide critical fire suppression and occupant protection, particularly for impaired individuals.

The charts and information below illustrate the features of fire protection reported for 46 of the 67 fire fatalities which occurred in buildings or recreational vehicles during 2018. Findings for smoke alarms or detectors:

- Approximately 36% of the fire fatalities occurred where no operable smoke alarms or detectors were reported.
- 22 fire fatalities occurred in areas where smoke alarms or detectors were present and operational. Human factors – such as the person was asleep, under the influence of drugs or alcohol, or had physical or mental impairment – may have contributed to the individual not escaping the fire.



Causes of Fire Fatalities over the Past Five Years

Smoking-related fires have historically been the leading known cause for fire fatalities in Washington State. Over the past five years, 16.5% of the fire fatalities have been smoking-related. 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 **electrical appliances or distribution** are the second leading cause for fire fatalities on a five year average, resulting in 10% of the total. In 2018, only 1 death was reported as electrical appliance-related. Poor maintenance, improper installation or use of electrical equipment, overloaded circuits, or the use of extension cords in place of permanent wiring contributes to electrical-related fires.

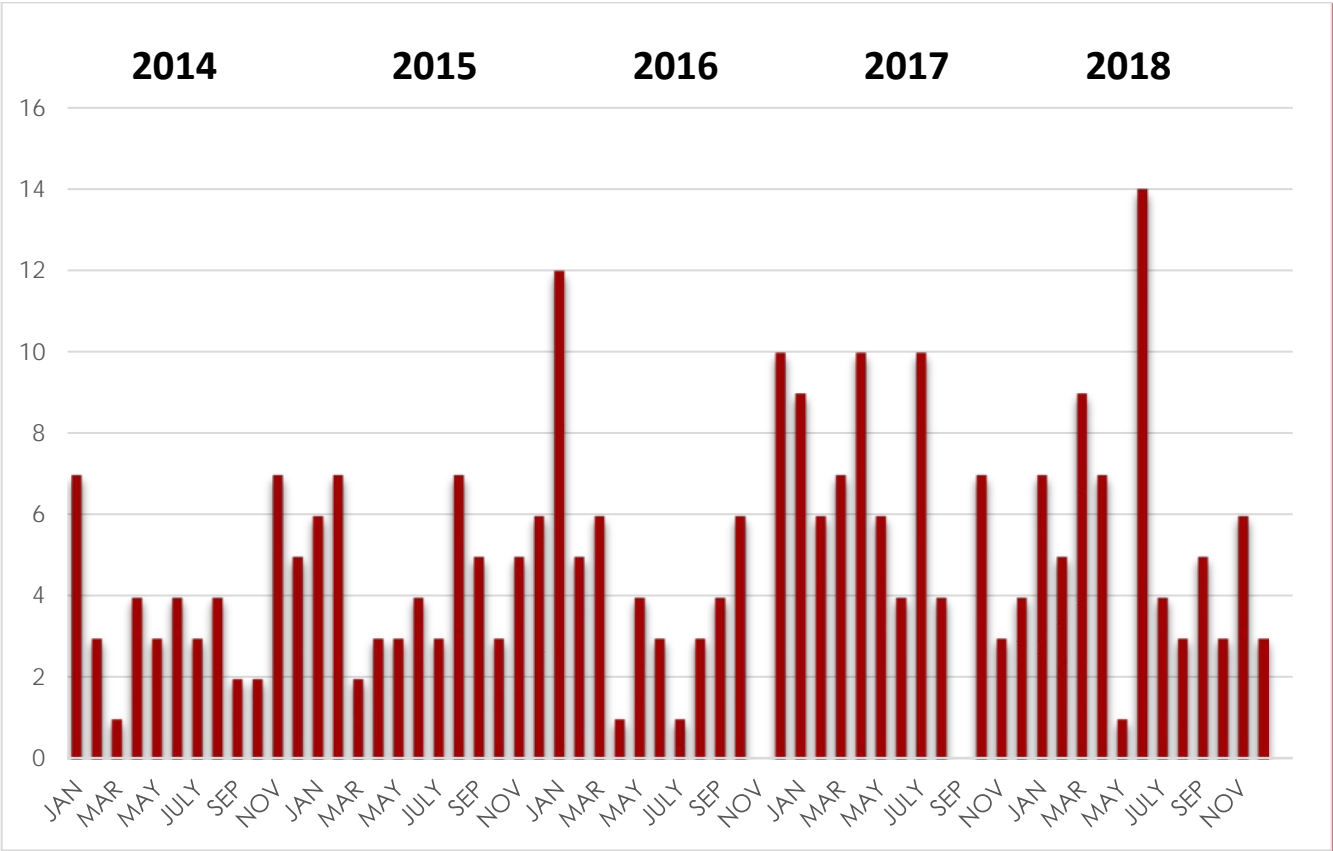
Intentionally set fires include suicide by fire or fires intentionally started by another person. Over the past five years, 6.2% of the fire fatalities were reported in this category.

Cause Category	2014	2015	2016	2017	2018	5-Year Total	5-Year % of Total
Smoking and/or Smoking Materials	8	10	6	10	14	48	16.5%
Under Investigation	0	0	4	11	11	26	8.9%
Electrical Related	4	7	2	8	0	21	7.2%
Home Heating	3	2	4	4	5	18	6.2%
Intentionally Set (self-inflicted or by another person)	1	7	6	4	0	18	6.2%
Cooking	3	1	2	1	3	10	3.4%
Vehicle collision	0	0	2	0	8	10	3.4%
Open Flame	0	0	2	4	3	9	3.1%
Electrical Appliance	2	1	4	0	1	8	2.7%
Other	5	0	0	0	0	5	1.7%
Unknown	0	1	0	3	0	4	1.4%
Wildfire	0	3	0	0	0	3	1.0%
Spark/Ember	0	0	0	2	0	2	0.7%
Failure of equipment	0	0	0	0	1	1	0.3%
Cooking/Smoking	1	0	0	0	0	1	0.3%
Matches	1	0	0	0	0	1	0.3%
Brush fire	0	1	0	0	0	1	0.3%
Heat source failure	0	0	0	0	1	1	0.3%
Heat from powered equipment	0	0	0	0	1	1	0.3%
Undetermined	17	21	23	23	19	103	35.4%
Grand Totals	45	54	55	70	67	291	64.6%

Fire Fatalities by Month over the Past Five Years

- Based on a five year average, an average of 4.85 people die each month in fire incidents in Washington State.
- June 2018 was the deadliest month in the past five years with 14 fire deaths.
- November 2016 and September 2017 were the only months in the past five years with zero fire fatalities.
- When the weather is cold in Washington, fire fatalities tend to increase as people stay inside where the risk of fire is higher.

Fire Fatality By Month



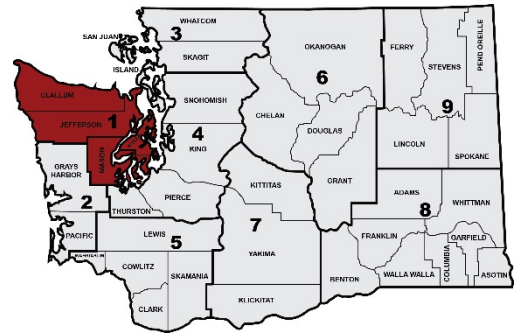
Fire Fatalities by County over the Past Five Years

The chart below provides the death rate by county per 100,000 people for the past five years. From 2014 to 2018, Adams, Ferry, Garfield, Kittitas, Lincoln, Pend Oreille, San Juan, Wahkiakum, and Whitman counties have not reported any fire fatalities.

County	2014		2015		2016		2017		2018		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	0	0.0	0	0.0	1	4.5	0	0.0	1
Benton	1	0.5	1	0.5	2	1.0	1	0.5	4	2.0	9
Chelan	0	0.0	0	0.0	2	2.6	1	1.3	1	1.3	4
Clallam	1	1.4	1	1.4	0	0.0	0	0.0	1	1.3	3
Clark	4	0.9	1	0.2	2	0.4	3	0.6	2	0.4	12
Columbia	0	0.0	0	0.0	0	0.0	2	48.8	0	0.0	2
Cowlitz	0	0.0	1	1.0	1	1.0	1	0.9	0	0.0	3
Douglas	0	0.0	0	0.0	2	4.9	1	2.4	2	4.7	5
Ferry	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Franklin	0	0.0	0	0.0	0	0.0	1	1.1	0	0.0	1
Garfield	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Grant	1	1.1	0	0.0	0	0.0	2	2.1	1	1.0	4
Grays Harbor	2	2.7	0	0.0	0	0.0	2	2.7	4	5.4	8
Island	1	1.3	1	1.2	4	4.8	3	3.6	0	0.0	9
Jefferson	0	0.0	0	0.0	0	0.0	2	6.4	6	19.0	8
King	10	0.5	10	0.5	12	0.6	13	0.6	16	0.7	61
Kitsap	2	0.8	1	0.4	2	0.8	7	2.6	5	1.9	17
Kittitas	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Klickitat	3	14.4	0	0.0	1	4.7	0	0.0	0	0.0	4
Lewis	0	0.0	3	3.9	4	5.2	4	5.2	0	0.0	11
Lincoln	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Mason	0	0.0	2	3.2	0	0.0	0	0.0	1	1.6	3
Okanogan	1	2.4	3	7.2	1	2.4	0	0.0	0	0.0	5
Pacific	1	4.7	0	0.0	1	4.7	2	9.4	1	4.7	5
Pend Oreille	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Pierce	4	0.5	5	0.6	7	0.8	6	0.7	5	0.6	27
San Juan	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Skagit	0	0.0	0	0.0	1	0.8	3	2.4	3	2.4	7
Skamania	0	0.0	1	8.7	0	0.0	0	0.0	1	8.4	2
Snohomish	2	0.3	6	0.8	4	0.5	6	0.8	3	0.4	21
Spokane	4	0.8	9	1.8	5	1.0	2	0.4	7	1.4	27
Stevens	0	0.0	3	6.8	2	4.5	1	2.2	0	0.0	6
Thurston	2	0.8	0	0.0	1	0.4	1	0.4	1	0.4	5
Wahkiakum	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Walla Walla	2	3.3	1	1.6	0	0.0	0	0.0	0	0.0	3
Whatcom	2	1.0	1	0.5	0	0.0	2	0.9	0	0.0	5
Whitman	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0
Yakima	2	0.8	4	1.6	1	0.4	3	1.2	3	1.2	13
Washington State Total	45	0.6	54	0.8	55	0.8	70	1.0	67	0.9	291

Region 1

Clallam, Jefferson, Kitsap, and Mason counties make up Region 1. In 2018, 85% 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 (Sorted by Dollar Loss)

Incident Type Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,148	1,517	1,246	1,291	1,483	6,685
	Dollar Loss	\$6,070,277	\$18,552,696	\$8,620,647	\$9,865,726	\$10,384,756	\$53,494,102
Service Calls	# of Incidents	4,408	5,629	6,133	6,419	7,031	29,620
	Dollar Loss	\$12,400	\$150,000	\$195,000	\$41,500	\$0	\$398,900
Rescue & Emergency Medical Service	# of Incidents	33,445	36,089	37,869	40,197	42,413	190,013
	Dollar Loss	\$25,000	\$4,000	\$0	\$19,000	\$80,100	\$128,100
Hazardous Conditions (No Fire)	# of Incidents	1,091	1,581	1,400	1,325	1,304	6,701
	Dollar Loss	\$4,100	\$17,500	\$1,000	\$51,000	\$33,500	\$107,100
False Alarms & False Calls	# of Incidents	2,381	2,569	2,712	2,688	2,727	13,077
	Dollar Loss	\$0	\$0	\$0	\$0	\$10,000	\$10,000
Good Intent Calls	# of Incidents	3,965	4,682	4,497	4,944	5,529	23,617
	Dollar Loss	\$500	\$4,000	\$0	\$0	\$20	\$4,520
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	66	63	54	80	73	336
	Dollar Loss	\$550	\$0	\$0	\$0	\$0	\$550
Other Types of Incidents	# of Incidents	213	220	208	353	276	1,270
	Dollar Loss	\$0	\$0	\$500	\$0	\$0	\$500
Severe Weather & Natural Disaster	# of Incidents	66	157	113	69	151	556
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Undetermined Type of Incident	# of Incidents	1	0	0	0	0	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total Number of Incidents		46,784	52,507	54,232	57,366	60,987	271,876
Total Dollar Loss		\$6,112,827	\$18,728,196	\$8,817,147	\$9,977,226	\$10,508,376	\$54,143,772

Region 1 Fire Incidents

Over the past five years, 6,685 fire incidents, resulting in more than \$53 million in property and content loss, have been reported by fire service agencies in Region 1. Structure fires, including confined fires, accounted for 36% of the five-year total and 82% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	439	502	472	486	490	2,389
	Dollar Loss	\$5,136,450	\$12,174,118	\$7,950,418	\$9,396,911	\$9,045,306	\$43,703,203
Outside Storage & Equipment Fires	# of Incidents	35	56	32	30	47	200
	Dollar Loss	\$5,650	\$5,102,800	\$16,100	\$2,550	\$103,130	\$5,230,230
Vehicle Fires (Mobile Properties)	# of Incidents	165	188	172	163	186	874
	Dollar Loss	\$496,105	\$440,713	\$456,113	\$393,728	\$827,420	\$2,614,079
Fixed Mobile Property Fires	# of Incidents	26	30	23	29	38	146
	Dollar Loss	\$398,992	\$819,200	\$143,384	\$54,745	\$161,300	\$1,577,621
Natural Vegetation Fires	# of Incidents	316	527	364	398	501	2,106
	Dollar Loss	\$19,750	\$1,750	\$25,201	\$3,502	\$216,120	\$266,323
Fire, Other	# of Incidents	75	118	81	81	88	443
	Dollar Loss	\$10,730	\$2,365	\$23,921	\$13,040	\$22,600	\$72,656
Outside Rubbish Fires	# of Incidents	89	94	99	103	132	517
	Dollar Loss	\$2,600	\$11,750	\$5,210	\$1,250	\$8,880	\$29,690
Cultivated Vegetation Fires	# of Incidents	3	2	3	1	1	10
	Dollar Loss	\$0	\$0	\$300	\$0	\$0	\$300
Total # of Incidents		1,148	1,517	1,246	1,291	1,483	6,685
Total Dollar Loss		\$6,070,277	\$18,552,696	\$8,620,647	\$9,865,726	\$10,384,756	\$53,494,102

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	190	227	216	240	238	1,111
	Dollar Loss	\$5,098,110	\$12,152,948	\$7,938,803	\$9,342,841	\$8,853,145	\$43,385,847
Fires in Structures Other Than in a Building	# of Incidents	9	8	19	15	20	71
	Dollar Loss	\$13,920	\$12,200	\$650	\$22,320	\$162,100	\$211,190
Cooking Fire, Confined to Container	# of Incidents	74	114	102	78	91	459
	Dollar Loss	\$16,820	\$5,740	\$3,400	\$18,500	\$13,551	\$58,011
Chimney or Flue Fire, Confined	# of Incidents	100	69	74	89	66	398
	Dollar Loss	\$7,050	\$2,000	\$3,565	\$8,200	\$500	\$21,315
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	5	1	4	4	5	19
	Dollar Loss	\$300	\$0	\$2,500	\$5,000	\$11,000	\$18,800
Trash or Rubbish Fire, Contained	# of Incidents	61	82	55	59	70	327
	Dollar Loss	\$250	\$1,230	\$1,500	\$50	\$5,010	\$8,040
Commercial Compactor Fire, Confined	# of Incidents	0	1	0	0	0	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	0	0	2	1	0	3
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		439	502	472	486	490	2,389
Total Dollar Loss		\$5,136,450	\$12,174,118	\$7,950,418	\$9,396,911	\$9,045,306	\$43,703,203

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	594	682	629	636	705	3,246
	Dollar Loss	\$5,031,412	\$13,859,093	\$7,050,209	\$8,980,513	\$9,135,901	\$44,057,128
Outside or Special Properties	# of Incidents	410	632	433	462	569	2,506
	Dollar Loss	\$464,812	\$3,374,197	\$428,938	\$346,038	\$624,335	\$5,238,320
Storage	# of Incidents	26	28	32	26	41	153
	Dollar Loss	\$169,278	\$737,700	\$576,225	\$218,920	\$374,600	\$2,076,723
Mercantile & Business	# of Incidents	35	49	47	59	57	247
	Dollar Loss	\$191,025	\$570,341	\$104,825	\$274,690	\$93,520	\$1,234,401
Assembly	# of Incidents	16	37	35	25	25	138
	Dollar Loss	\$2,900	\$10,265	\$401,500	\$4,520	\$46,400	\$465,585
Educational Uses	# of Incidents	11	6	9	14	10	50
	Dollar Loss	\$145,800	\$900	\$17,500	\$10,020	\$6,000	\$180,220
Health Care, Detention, & Corrections	# of Incidents	5	10	5	13	13	46
	Dollar Loss	\$9,200	\$200	\$40,000	\$4,525	\$100,000	\$153,925
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	22	35	16	23	31	127
	Dollar Loss	\$15,000	\$0	\$350	\$22,000	\$4,000	\$41,350
Manufacturing & Processing	# of Incidents	7	3	11	5	5	31
	Dollar Loss	\$34,750	\$0	\$0	\$0	\$0	\$34,750
Other Property Uses	# of Incidents	14	21	20	13	15	83
	Dollar Loss	\$6,100	\$0	\$0	\$4,500	\$0	\$10,600
None	# of Incidents	0	1	2	5	3	11
	Dollar Loss	\$0	\$0	\$1,100	\$0	\$0	\$1,100
Undetermined	# of Incidents	8	6	4	6	9	33
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		1,148	1,510	1,243	1,287	1,483	6,671
Total Dollar Loss		\$6,070,277	\$18,552,696	\$8,620,647	\$9,865,726	\$10,384,756	\$53,494,102

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Functional Areas	# of Incidents	157	194	178	173	173	875
	Dollar Loss	\$2,122,963	\$4,112,585	\$1,764,827	\$1,658,376	\$1,951,899	\$11,610,650
Structural Areas	# of Incidents	60	61	71	69	77	338
	Dollar Loss	\$794,065	\$3,455,840	\$1,519,464	\$775,885	\$2,756,376	\$9,301,630
Storage Areas	# of Incidents	47	50	64	47	71	279
	Dollar Loss	\$794,910	\$1,906,354	\$1,580,787	\$2,686,676	\$2,169,640	\$9,138,367
Undetermined	# of Incidents	98	130	110	114	110	562
	Dollar Loss	\$633,225	\$2,423,608	\$1,862,098	\$2,191,080	\$1,496,670	\$8,606,681
Service or Equipment Areas	# of Incidents	29	30	31	39	32	161
	Dollar Loss	\$42,500	\$3,170,500	\$278,050	\$413,000	\$165,000	\$4,069,050
Areas of Groups of People (Assembly)	# of Incidents	30	20	13	23	32	118
	Dollar Loss	\$679,646	\$1,057,526	\$741,012	\$1,008,339	\$579,300	\$4,065,823
Vehicle Areas	# of Incidents	160	180	153	147	166	806
	Dollar Loss	\$599,075	\$693,563	\$543,553	\$449,728	\$648,620	\$2,934,539
Outside Areas	# of Incidents	375	560	414	370	441	2,160
	Dollar Loss	\$156,350	\$1,672,125	\$113,000	\$563,650	\$181,230	\$2,686,355
Other Areas of Origin	# of Incidents	93	94	79	103	72	441
	Dollar Loss	\$5,000	\$0	\$111,630	\$78,820	\$65,300	\$260,750
Means of Egress/Exit Access/Exit Areas	# of Incidents	5	9	10	11	14	49
	Dollar Loss	\$76,793	\$43,300	\$2,250	\$7,020	\$130,700	\$260,063
Technical Processing Areas	# of Incidents	4	3	2	2	1	12
	Dollar Loss	\$27,750	\$0	\$75,000	\$20,000	\$0	\$122,750
Total # of Incidents		1,058	1,331	1,125	1,098	1,189	5,801
Total Dollar Loss		\$5,932,277	\$18,535,401	\$8,591,671	\$9,852,574	\$10,144,735	\$53,056,658

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	379	537	409	396	476	2,197
	Dollar Loss	\$1,815,576	\$9,110,700	\$3,626,684	\$5,552,292	\$5,165,871	\$25,271,123
Operating Equipment	# of Incidents	239	262	256	255	256	1,268
	Dollar Loss	\$2,650,747	\$6,057,380	\$1,983,252	\$1,893,137	\$2,052,333	\$14,636,849
Open Flame or Smoking Material	# of Incidents	170	196	159	145	152	822
	Dollar Loss	\$227,034	\$1,903,872	\$968,200	\$807,726	\$341,555	\$4,248,387
Hot or Smoldering Object	# of Incidents	102	137	129	141	137	646
	Dollar Loss	\$301,143	\$894,969	\$396,550	\$541,616	\$1,131,336	\$3,265,614
Heat Spread from Another Fire	# of Incidents	46	50	58	41	41	236
	Dollar Loss	\$423,500	\$131,445	\$832,485	\$524,143	\$588,840	\$2,500,413
Heat Source Other	# of Incidents	67	70	76	81	77	371
	Dollar Loss	\$346,565	\$53,050	\$199,500	\$311,590	\$461,000	\$1,371,705
Chemical or Natural	# of Incidents	19	15	18	19	23	94
	Dollar Loss	\$133,350	\$86,685	\$20,000	\$202,070	\$401,000	\$843,105
Explosives and Fireworks	# of Incidents	33	62	17	18	24	154
	Dollar Loss	\$27,362	\$217,300	\$550,000	\$20,000	\$2,800	\$817,462
Multiple Heat Sources	# of Incidents	3	2	3	2	3	13
	Dollar Loss	\$7,000	\$80,000	\$15,000	\$0	\$0	\$102,000
Total # of Incidents		1,058	1,331	1,125	1,098	1,189	5,801
Total Dollar Loss		\$5,932,277	\$18,535,401	\$8,591,671	\$9,852,574	\$10,144,735	\$53,056,658

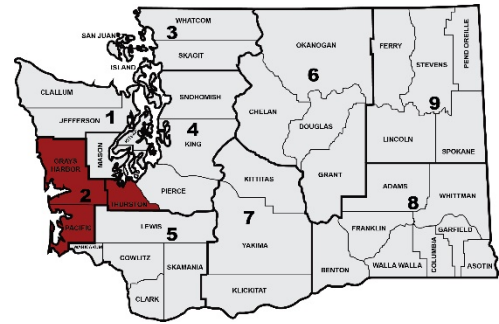
Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	496	612	514	556	502	2,680
	Dollar Loss	\$2,837,731	\$9,044,989	\$4,021,035	\$3,862,393	\$3,739,126	\$23,505,274
Cause Under Investigation	# of Incidents	113	165	136	140	205	759
	Dollar Loss	\$1,652,376	\$6,939,874	\$2,971,158	\$4,797,127	\$4,230,269	\$20,590,804
Failure of Equipment or Heat Source	# of Incidents	123	122	117	122	128	612
	Dollar Loss	\$858,351	\$553,405	\$468,968	\$443,368	\$802,130	\$3,126,222
Cause Undetermined After Investigation	# of Incidents	126	193	125	119	147	710
	Dollar Loss	\$441,980	\$689,670	\$337,350	\$367,790	\$849,710	\$2,686,500
Intentional	# of Incidents	173	198	191	138	172	872
	Dollar Loss	\$124,639	\$959,994	\$70,120	\$309,896	\$439,600	\$1,904,249
Cause, Other	# of Incidents	7	16	24	4	14	65
	Dollar Loss	\$17,200	\$275,784	\$723,040	\$8,500	\$82,900	\$1,107,424
Act of Nature	# of Incidents	20	25	18	19	21	103
	Dollar Loss	\$0	\$71,685	\$0	\$63,500	\$1,000	\$136,185
Total # of Incidents		1,058	1,331	1,125	1,098	1,189	5,801
Total Dollar Loss		\$5,932,277	\$18,535,401	\$8,591,671	\$9,852,574	\$10,144,735	\$53,056,658

Region 1 Incident Reporting Summary for 2018

REGION 1 2018 Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
Clallam		7,449	0	77	7,526	\$41,200
05D01	Clallam #1, Forks	232	0	0	232	\$0
05D02	Clallam #2, Clallam 2 Fire-Rescue	1,689	0	66	1,755	\$0
05D03	Clallam #3, Sequim	0	0	0	0	\$0
05D04	Clallam #4, Joyce	280	0	8	288	\$0
05D05	Clallam #5, Clallam Bay/Sekiu	177	0	0	177	\$0
05D06	Clallam #6, Three Rivers	8	0	2	10	\$0
05M03	Port Angeles Fire Department	5,063	0	1	5,064	\$41,200
05S03	Quileute Fire Department	0	0	0	0	\$0
05X01	Neah Bay Vol Fire Department	0	0	0	0	\$0
Jefferson		5,922	0	683	6,605	\$298,280
16D01	Jefferson #1, East Jefferson Fire & Rescue	4,402	0	116	4,518	\$298,280
16D02	Jefferson #2, Quilcene	322	0	180	502	\$0
16D03	Jefferson #3, Port Ludlow Fire & Rescue	809	0	309	1,118	\$0
16D04	Jefferson #4, Brinnon	389	0	78	467	\$0
16D05	Jefferson #5, Discovery Bay	0	0	0	0	\$0
16D07	Jefferson #7, Clearwater	0	0	0	0	\$0
Kitsap		35,751	14	1,326	37,091	\$9,513,696
18D01	Kitsap #1, Central Kitsap Fire & Rescue	8,217	0	265	8,482	\$2,808,295
18D02	Kitsap #2, Bainbridge Island	3,314	0	72	3,386	\$534,850
18D07	Kitsap #7, South Kitsap Fire & Rescue	9,779	14	147	9,940	\$2,543,851
18D10	Kitsap #10 North Kitsap	2,982	0	176	3,158	\$1,579,250
18M01	Bremerton Fire Department	7,926	0	410	8,336	\$350,500
18M04	Kitsap #18/City of Poulsbo	3,533	0	256	3,789	\$1,696,950
Mason		11,851	0	1,751	13,602	\$1,359,700
23D01	Mason #1, Hoodsport	0	0	0	0	\$0
23D02	North Mason Regional Fire Authority	2,324	0	53	2,377	\$0
23D03	Mason #3, Grapeview	458	0	241	699	\$0
23D04	Mason #4 Arcadia/Kamilche	1,305	0	129	1,434	\$0
23D05	Mason #5, Central Mason Fire & EMS	6,007	0	344	6,351	\$1,122,700
23D06	Mason #6, Union	251	0	101	352	\$500
23D09	Mason #9, Skokomish Valley	0	0	0	0	\$0
23D11	Mason #11, Shelton	381	0	513	894	\$0
23D12	Mason #12	35	0	6	41	\$0
23D13	Mason #13, Elma	172	0	51	223	\$0
23D16	Mason #16, Dayton	474	0	146	620	\$236,500
23D17	Mason #17, Lilliwaup/Eldon	111	0	28	139	\$0
23D18	Mason #18, Lake Cushman	333	0	139	472	\$0
REGION 1 Totals		60,973	14	3,837	64,824	\$11,212,876

Region 2

Grays Harbor, Pacific, and Thurston counties make up Region 2. In 2018, 55% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	904	1,364	1,281	1,394	1,524	6,467
	Dollar Loss	\$3,916,160	\$5,970,735	\$7,376,678	\$7,219,548	\$8,696,559	\$33,179,680
Rescue & Emergency Medical Service	# of Incidents	22,354	31,497	34,695	40,299	44,533	173,378
	Dollar Loss	\$1,500	\$525,918	\$16,500	\$108,900	\$0	\$652,818
False Alarms & False Calls	# of Incidents	1,337	2,119	2,118	2,202	2,303	10,079
	Dollar Loss	\$0	\$0	\$0	\$77,000	\$0	\$77,000
Severe Weather & Natural Disaster	# of Incidents	5	39	6	20	21	91
	Dollar Loss	\$0	\$65,000	\$0	\$0	\$0	\$65,000
Hazardous Conditions (No Fire)	# of Incidents	489	699	652	746	624	3,210
	Dollar Loss	\$12,050	\$300	\$5,700	\$100	\$19,500	\$37,650
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	22	26	21	29	19	117
	Dollar Loss	\$36,000	\$0	\$0	\$100	\$0	\$36,100
Service Calls	# of Incidents	2,089	3,209	3,062	3,647	3,806	15,813
	Dollar Loss	\$2,050	\$2,500	\$30,000	\$0	\$0	\$34,550
Good Intent Calls	# of Incidents	2,345	4,190	4,153	4,963	5,460	21,111
	Dollar Loss	\$0	\$350	\$150	\$0	\$0	\$500
Other Types of Incidents	# of Incidents	69	68	66	100	110	413
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total Total Number of Incidents		29,614	43,211	46,054	53,400	58,400	230,679
Total Dollar Loss		\$3,967,760	\$6,564,803	\$7,429,028	\$7,405,648	\$8,716,059	\$34,083,298

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

Over the past five years, 6,467 fire incidents, resulting in more than \$33 million in property and content loss, have been reported by fire service agencies in Region 2. Structure fires, including confined fires, accounted for 33% of the five-year total and 92% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	301	423	466	464	518	2,172
	Dollar Loss	\$3,501,260	\$5,568,997	\$6,550,443	\$6,850,629	\$7,998,198	\$30,469,527
Vehicle Fires (Mobile Properties)	# of Incidents	123	159	172	174	175	803
	Dollar Loss	\$266,250	\$318,827	\$538,700	\$269,265	\$453,150	\$1,846,192
Fixed Mobile Property Fires	# of Incidents	15	11	24	18	28	96
	Dollar Loss	\$46,650	\$47,051	\$245,400	\$52,500	\$190,000	\$581,601
Fire, Other	# of Incidents	54	65	64	82	60	325
	Dollar Loss	\$83,050	\$8,525	\$1,355	\$28,200	\$100	\$121,230
Outside Storage & Equipment Fires	# of Incidents	21	36	49	41	39	186
	Dollar Loss	\$16,500	\$8,300	\$26,880	\$7,001	\$24,590	\$83,271
Natural Vegetation Fires	# of Incidents	285	504	377	438	503	2,107
	Dollar Loss	\$2,050	\$17,505	\$13,350	\$8,553	\$24,181	\$65,639
Outside Rubbish Fires	# of Incidents	102	164	126	174	196	762
	Dollar Loss	\$400	\$1,530	\$550	\$3,400	\$6,340	\$12,220
Cultivated Vegetation Fires	# of Incidents	3	2	3	3	5	16
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		904	1,364	1,281	1,394	1,524	6,467
Total Dollar Loss		\$3,916,160	\$5,970,735	\$7,376,678	\$7,219,548	\$8,696,559	\$33,179,680

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	150	207	215	219	267	1,058
	Dollar Loss	\$3,490,260	\$5,534,762	\$6,494,031	\$6,765,869	\$7,949,567	\$30,234,489
Fires in Structures Other Than in a Building	# of Incidents	5	10	18	12	11	56
	Dollar Loss	\$1,000	\$10,500	\$45,100	\$54,850	\$1,000	\$112,450
Cooking Fire, Confined to Container	# of Incidents	55	76	92	60	81	364
	Dollar Loss	\$8,300	\$20,735	\$5,612	\$17,060	\$29,110	\$80,817
Trash or Rubbish Fire, Contained	# of Incidents	36	57	62	93	93	341
	Dollar Loss	\$0	\$0	\$3,700	\$11,850	\$11,622	\$27,172
Chimney or Flue Fire, Confined	# of Incidents	52	66	74	72	60	324
	Dollar Loss	\$1,700	\$3,000	\$1,000	\$1,000	\$1,500	\$8,200
Commercial Compactor Fire, Confined	# of Incidents	0	0	0	4	1	5
	Dollar Loss	\$0	\$0	\$0	\$0	\$4,999	\$4,999
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	3	6	4	4	5	22
	Dollar Loss	\$0	\$0	\$1,000	\$0	\$400	\$1,400
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	0	1	1	0	0	2
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		301	423	466	464	518	2,172
Total Dollar Loss		\$3,501,260	\$5,568,997	\$6,550,443	\$6,850,629	\$7,998,198	\$30,469,527

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	423	601	592	618	651	2,885
	Dollar Loss	\$3,199,660	\$4,591,107	\$5,611,498	\$5,523,591	\$5,990,914	\$24,916,770
Manufacturing & Processing	# of Incidents	9	9	10	18	12	58
	Dollar Loss	\$100,000	\$601,000	\$1,081,600	\$517,500	\$29,999	\$2,330,099
Assembly	# of Incidents	23	27	39	26	40	155
	Dollar Loss	\$2,550	\$30,500	\$8,030	\$31,270	\$1,636,525	\$1,708,875
Outside or Special Properties	# of Incidents	349	581	505	584	674	2,693
	Dollar Loss	\$219,000	\$288,417	\$279,100	\$304,379	\$489,740	\$1,580,636
Storage	# of Incidents	24	22	28	27	27	128
	Dollar Loss	\$288,900	\$317,926	\$227,200	\$660,400	\$68,150	\$1,562,576
Mercantile & Business	# of Incidents	28	49	49	61	62	249
	Dollar Loss	\$69,250	\$110,225	\$73,750	\$104,405	\$443,510	\$801,140
Health Care, Detention, & Corrections	# of Incidents	1	14	12	11	6	44
	Dollar Loss	\$0	\$16,460	\$11,500	\$46,500	\$15,700	\$90,160
Undetermined	# of Incidents	2	1	4	5	1	13
	Dollar Loss	\$0	\$0	\$71,000	\$2	\$0	\$71,002
Other Property Uses	# of Incidents	12	9	7	14	6	48
	Dollar Loss	\$22,000	\$0	\$0	\$15,000	\$12,000	\$49,000
Educational Uses	# of Incidents	4	12	4	5	9	34
	Dollar Loss	\$12,000	\$15,100	\$0	\$0	\$7,020	\$34,120
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	19	27	20	20	30	116
	Dollar Loss	\$0	\$0	\$13,000	\$16,001	\$3,001	\$32,002
None	# of Incidents	9	6	9	5	6	35
	Dollar Loss	\$2,800	\$0	\$0	\$500	\$0	\$3,300
Total # of Incidents		903	1,358	1,279	1,394	1,524	6,458
Total Dollar Loss		\$3,916,160	\$5,970,735	\$7,376,678	\$7,219,548	\$8,696,559	\$33,179,680

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Functional Areas	# of Incidents	96	156	145	146	178	721
	Dollar Loss	\$1,309,505	\$2,038,388	\$1,450,692	\$1,986,501	\$2,065,337	\$8,850,423
Structural Areas	# of Incidents	44	52	70	87	70	323
	Dollar Loss	\$1,139,708	\$1,401,369	\$1,092,869	\$1,815,453	\$849,040	\$6,298,439
Undetermined	# of Incidents	75	108	96	151	189	619
	Dollar Loss	\$279,650	\$525,002	\$1,394,730	\$236,950	\$2,286,450	\$4,722,782
Storage Areas	# of Incidents	40	46	50	57	48	241
	Dollar Loss	\$346,450	\$327,287	\$1,079,200	\$1,634,100	\$1,204,000	\$4,591,037
Areas of Groups of People (Assembly)	# of Incidents	8	15	15	15	30	83
	Dollar Loss	\$494,847	\$295,975	\$385,325	\$426,600	\$1,130,800	\$2,733,547
Vehicle Areas	# of Incidents	104	144	148	146	148	690
	Dollar Loss	\$248,750	\$366,825	\$519,500	\$212,915	\$446,700	\$1,794,690
Service or Equipment Areas	# of Incidents	30	35	30	37	31	163
	Dollar Loss	\$19,500	\$102,150	\$278,450	\$670,500	\$39,399	\$1,109,999
Means of Egress/Exit Access/Exit Areas	# of Incidents	8	13	24	9	19	73
	Dollar Loss	\$11,250	\$6,525	\$548,500	\$45,750	\$497,300	\$1,109,325
Outside Areas	# of Incidents	263	401	316	386	447	1,813
	Dollar Loss	\$51,000	\$280,844	\$296,300	\$146,876	\$7,860	\$782,880
Technical Processing Areas	# of Incidents	2	3	2	2	1	10
	Dollar Loss	\$0	\$600,000	\$11,000	\$7,000	\$0	\$618,000
Other Areas of Origin	# of Incidents	33	41	66	52	62	254
	Dollar Loss	\$2,500	\$150	\$2,000	\$0	\$131,700	\$136,350
Total # of Incidents		703	1,014	962	1,088	1,223	4,990
Total Dollar Loss		\$3,903,160	\$5,944,515	\$7,058,566	\$7,182,645	\$8,658,586	\$32,747,472

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

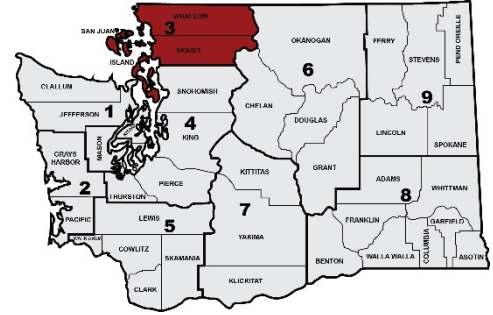
Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	282	426	410	482	558	2,158
	Dollar Loss	\$1,698,299	\$2,725,114	\$4,664,266	\$3,382,589	\$5,196,854	\$17,667,122
Operating Equipment	# of Incidents	159	223	202	182	225	991
	Dollar Loss	\$1,278,900	\$2,167,145	\$1,055,035	\$2,143,456	\$2,083,799	\$8,728,335
Hot or Smoldering Object	# of Incidents	84	117	97	124	134	556
	Dollar Loss	\$308,139	\$104,386	\$377,600	\$119,260	\$923,410	\$1,832,795
Open Flame or Smoking Material	# of Incidents	94	130	144	158	159	685
	Dollar Loss	\$307,072	\$462,945	\$398,790	\$441,351	\$143,250	\$1,753,408
Heat Spread from Another Fire	# of Incidents	19	27	29	40	44	159
	Dollar Loss	\$278,000	\$231,525	\$240,900	\$169,389	\$78,290	\$998,104
Chemical or Natural	# of Incidents	7	10	6	10	8	41
	Dollar Loss	\$6,500	\$0	\$147,000	\$572,000	\$27,000	\$752,500
Heat Source Other	# of Incidents	35	47	51	64	61	258
	Dollar Loss	\$26,250	\$82,900	\$174,925	\$346,600	\$59,500	\$690,175
Explosives and Fireworks	# of Incidents	21	31	22	27	32	133
	Dollar Loss	\$0	\$20,500	\$50	\$8,000	\$146,483	\$175,033
Multiple Heat Sources	# of Incidents	2	3	1	1	2	9
	Dollar Loss	\$0	\$150,000	\$0	\$0	\$0	\$150,000
Total # of Incidents		703	1,014	962	1,088	1,223	4,990
Total Dollar Loss		\$3,903,160	\$5,944,515	\$7,058,566	\$7,182,645	\$8,658,586	\$32,747,472

Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	322	497	454	455	577	2,305
	Dollar Loss	\$1,131,952	\$2,660,064	\$1,654,431	\$3,119,221	\$2,251,964	\$10,817,632
Cause Under Investigation	# of Incidents	67	81	81	94	107	430
	Dollar Loss	\$1,211,008	\$1,306,350	\$984,020	\$1,785,112	\$3,054,800	\$8,341,290
Cause Undetermined After Investigation	# of Incidents	104	174	168	191	193	830
	Dollar Loss	\$496,547	\$1,616,811	\$2,042,665	\$1,345,277	\$1,008,449	\$6,509,749
Intentional	# of Incidents	102	109	123	180	199	713
	Dollar Loss	\$307,053	\$29,645	\$1,342,250	\$209,500	\$1,704,533	\$3,592,981
Failure of Equipment or Heat Source	# of Incidents	98	138	121	149	133	639
	Dollar Loss	\$756,600	\$331,645	\$1,029,200	\$629,035	\$618,800	\$3,365,280
Act of Nature	# of Incidents	7	14	14	14	11	60
	Dollar Loss	\$0	\$0	\$0	\$72,000	\$12,000	\$84,000
Cause, Other	# of Incidents	2	1	1	5	3	12
	Dollar Loss	\$0	\$0	\$6,000	\$22,500	\$8,040	\$36,540
Total # of Incidents		702	1,014	962	1,088	1,223	4,989
Total Dollar Loss		\$3,903,160	\$5,944,515	\$7,058,566	\$7,182,645	\$8,658,586	\$32,747,472

REGION 2 Incident Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
Grays Harbor		12,140	3	1,831	13,974	\$2,004,118
14D01	Grays Harbor #1, Oakville	455	0	6	461	\$0
14D02	Grays Harbor #2, Central Park	1,280	0	56	1,336	\$4,300
14D04	Grays Harbor #4, Quinault/Amanda Park	0	0	0	0	\$0
14D05	Grays Harbor #5, Elma/Satsop	1,326	0	997	2,323	\$466,501
14D06	Grays Harbor #6, North Hoquiam	0	0	0	0	\$0
14D07	Grays Harbor #7, Copalis Beach	447	0	184	631	\$0
14D08	Grays Harbor #8, Pacific Beach	0	0	0	0	\$0
14D10	Grays Harbor #10, Wishkah/ East Hoquiam	0	0	0	0	\$0
14D11	Grays Harbor #11, Grayland	0	0	0	0	\$0
14D12	Grays Harbor #12, McCleary	0	0	0	0	\$0
14D14	Grays Harbor #14, Markham/Ocosta/Bay City	0	0	0	0	\$0
14D15	Grays Harbor #15, Artic	0	0	0	0	\$0
14D16	Grays Harbor #16, Copalis Crossing	0	0	0	0	\$0
14D17	Grays Harbor #17, Humptulips	0	0	0	0	\$0
14M01	Aberdeen Fire Department	2,739	3	25	2,767	\$655,167
14M02	Cosmopolis Fire Department	0	0	0	0	\$0
14M03	City Of Elma Fire Department	175	0	73	248	\$0
14M04	Hoquiam Fire Department	2,741	0	474	3,215	\$193,150
14M05	McCleary Fire Department	76	0	5	81	\$650,000
14M06	Montesano Fire Department	1,491	0	11	1,502	\$25,000
14M08	Ocean Shores Fire Department	0	0	0	0	\$0
14M09	South Beach Regional Fire Authority	1,410	0	0	1,410	\$10,000
14X01	Quinault Indian Nation	0	0	0	0	\$0
Pacific		4,258	0	61	4,319	\$328,000
25D01	Pacific #1, Ocean Park	2,374	0	54	2,428	\$237,000
25D02	Pacific #2, Chinook Valley	0	0	0	0	\$0
25D03	Pacific #3, Willapa Valley	45	0	1	46	\$0
25D04	Pacific #4, Naselle	0	0	0	0	\$0
25D05	Pacific #5,North Cove/Tokeland	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 Department	221	0	6	227	\$6,500
25M02	Long Beach Fire Department	0	0	0	0	\$0
25M03	Raymond Fire Department	1,618	0	0	1,618	\$84,500
25M04	South Bend Fire Department.	0	0	0	0	\$0
Thurston		41,999	1	2,033	44,033	\$6,383,941
34D01	West Thurston Regional Fire Authority	2,846	0	172	3,018	\$155,000
34D02	Southeast Thurston Fire Authority	3,487	0	44	3,531	\$0
34D03	Lacey Fire District 3	13,883	0	172	14,055	\$1,619,399
34D06	Thurston #6, East Olympia	979	0	228	1,207	\$60,000
34D08	Thurston #8, South Bay Fire Department	970	0	146	1,116	\$20,000
34D09	Thurston #9 McLane Black Lake Fire Department	1,527	0	548	2,075	\$37,350
34D12	Thurston #12, South Thurston Fire & EMS	1,048	0	110	1,158	\$0
34D13	Thurston #13, Griffin	489	0	50	539	\$294,000
34D16	Thurston #16, Gibson Valley	0	0	0	0	\$0
34D17	Thurston #17, Bald Hills	363	1	210	574	\$1,800
34M01	Bucoda Fire Department	102	0	19	121	\$0
34M02	Olympia Fire Department	12,113	0	240	12,353	\$3,346,345
34M04	Tumwater Fire Department	4,192	0	94	4,286	\$850,047
REGION 2 Totals		58,397	4	3,925	62,326	\$8,716,059

Region 3

Island, San Juan, Skagit, and Whatcom counties make up Region 3. In 2018, 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,181	1,567	1,054	913	1,384	6,099
	Dollar Loss	\$5,466,377	\$11,236,943	\$11,878,328	\$5,335,392	\$13,093,334	\$47,010,374
Service Calls	# of Incidents	1,890	3,031	2,939	3,045	3,624	14,529
	Dollar Loss	\$50,350	\$30,500	\$12,500	\$45,000	\$48,000	\$186,350
Rescue & Emergency Medical Service	# of Incidents	19,691	27,179	23,743	22,155	36,067	128,835
	Dollar Loss	\$18,000	\$5,100	\$10,000	\$2,000	\$25,300	\$60,400
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	31	33	28	24	28	144
	Dollar Loss	\$59,000	\$0	\$0	\$0	\$0	\$59,000
Severe Weather & Natural Disaster	# of Incidents	221	252	172	105	158	908
	Dollar Loss	\$50,000	\$0	\$0	\$0	\$0	\$50,000
Hazardous Conditions (No Fire)	# of Incidents	1,090	1,368	1,043	814	1,118	5,433
	Dollar Loss	\$15,400	\$4,050	\$27,500	\$1,500	\$650	\$49,100
False Alarms & False Calls	# of Incidents	1,674	2,137	1,700	1,465	2,349	9,325
	Dollar Loss	\$0	\$0	\$5,001	\$0	\$3,000	\$8,001
Other Types of Incidents	# of Incidents	217	221	233	247	265	1,183
	Dollar Loss	\$0	\$0	\$0	\$0	\$1,500	\$1,500
Good Intent Calls	# of Incidents	1,736	2,609	2,182	2,056	3,265	11,848
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Undetermined Type of Incident	# of Incidents	0	0	0	0	1	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total Total Number of Incidents		27,731	38,397	33,094	30,824	48,259	178,305
Total Dollar Loss		\$5,659,127	\$11,276,593	\$11,933,329	\$5,383,892	\$13,171,784	\$47,424,725

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

Over the past five years, 6,099 fire incidents, resulting in more than \$47 million in property and content loss, have been reported by fire service agencies in Region 3. Structure fires, including confined fires, accounted for nearly 31% of the five-year total and 90% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	412	431	347	310	415	1,915
	Dollar Loss	\$4,455,177	\$10,089,659	\$11,200,638	\$4,152,697	\$12,399,342	\$42,297,513
Vehicle Fires (Mobile Properties)	# of Incidents	159	176	151	133	193	812
	Dollar Loss	\$774,650	\$324,261	\$498,278	\$999,095	\$549,470	\$3,145,754
Fixed Mobile Property Fires	# of Incidents	20	26	18	18	14	96
	Dollar Loss	\$203,500	\$698,302	\$141,400	\$136,000	\$95,650	\$1,274,852
Fire, Other	# of Incidents	71	115	62	56	82	386
	Dollar Loss	\$13,800	\$37,980	\$10,600	\$33,600	\$20,260	\$116,240
Outside Storage & Equipment Fires	# of Incidents	32	60	25	24	54	195
	Dollar Loss	\$6,450	\$57,600	\$13,350	\$5,800	\$0	\$83,200
Natural Vegetation Fires	# of Incidents	308	545	278	271	397	1,799
	Dollar Loss	\$2,200	\$28,971	\$13,156	\$2,500	\$8,550	\$55,377
Outside Rubbish Fires	# of Incidents	176	208	166	97	224	871
	Dollar Loss	\$10,600	\$170	\$904	\$5,700	\$20,062	\$37,436
Cultivated Vegetation Fires	# of Incidents	3	6	7	4	5	25
	Dollar Loss	\$0	\$0	\$2	\$0	\$0	\$2
Total # of Incidents		1,181	1,567	1,054	913	1,384	6,099
Total Dollar Loss		\$5,466,377	\$11,236,943	\$11,878,328	\$5,335,392	\$13,093,334	\$47,010,374

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	209	228	187	157	187	968
	Dollar Loss	\$4,440,250	\$10,036,883	\$9,593,259	\$4,131,947	\$12,359,924	\$40,562,263
Fires in Structures Other Than in a Building	# of Incidents	5	11	11	8	13	48
	Dollar Loss	\$1,000	\$24,901	\$1,500,002	\$12,500	\$4,150	\$1,542,553
Cooking Fire, Confined to Container	# of Incidents	78	90	52	45	114	379
	Dollar Loss	\$4,227	\$20,500	\$58,550	\$4,750	\$26,718	\$114,745
Commercial Compactor Fire, Confined	# of Incidents	0	2	1	0	2	5
	Dollar Loss	\$0	\$0	\$37,000	\$0	\$5,000	\$42,000
Trash or Rubbish Fire, Contained	# of Incidents	28	46	34	32	41	181
	Dollar Loss	\$5,200	\$5,375	\$3,277	\$1,500	\$1,550	\$16,902
Chimney or Flue Fire, Confined	# of Incidents	86	50	60	63	55	314
	Dollar Loss	\$2,500	\$2,000	\$8,550	\$2,000	\$1,200	\$16,250
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	5	3	2	4	3	17
	Dollar Loss	\$2,000	\$0	\$0	\$0	\$800	\$2,800
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	1	1	0	1	0	3
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		412	431	347	310	415	1,915
Total Dollar Loss		\$4,455,177	\$10,089,659	\$11,200,638	\$4,152,697	\$12,399,342	\$42,297,513

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	601	692	514	444	660	2,911
	Dollar Loss	\$2,871,627	\$6,772,985	\$2,788,323	\$3,614,242	\$3,428,064	\$19,475,241
Manufacturing & Processing	# of Incidents	15	14	9	12	7	57
	Dollar Loss	\$105,200	\$1,085,000	\$957,003	\$4,000	\$6,509,000	\$8,660,203
Mercantile & Business	# of Incidents	40	51	36	27	47	201
	Dollar Loss	\$47,550	\$238,250	\$5,590,007	\$300,400	\$1,858,750	\$8,034,957
Storage	# of Incidents	35	41	25	26	24	151
	Dollar Loss	\$1,501,100	\$589,600	\$557,240	\$709,750	\$296,101	\$3,653,791
Outside or Special Properties	# of Incidents	405	619	398	330	536	2,288
	Dollar Loss	\$680,500	\$277,788	\$1,701,662	\$99,850	\$494,756	\$3,254,556
Assembly	# of Incidents	24	38	18	26	32	138
	Dollar Loss	\$300	\$2,224,770	\$15,491	\$41,500	\$289,510	\$2,571,571
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	33	31	31	29	38	162
	Dollar Loss	\$255,500	\$22,500	\$107,500	\$490,000	\$175,001	\$1,050,501
Other Property Uses	# of Incidents	13	16	10	5	10	54
	Dollar Loss	\$0	\$13,000	\$160,000	\$0	\$20,000	\$193,000
Undetermined	# of Incidents	4	12	2	2	4	24
	Dollar Loss	\$0	\$0	\$0	\$50,000	\$0	\$50,000
Educational Uses	# of Incidents	5	13	4	5	9	36
	Dollar Loss	\$0	\$1,000	\$102	\$22,050	\$3,002	\$26,154
None	# of Incidents	1	5	1	3	8	18
	Dollar Loss	\$2,000	\$2,000	\$0	\$3,600	\$16,650	\$24,250
Health Care, Detention, & Corrections	# of Incidents	5	10	6	4	9	34
	Dollar Loss	\$2,600	\$10,050	\$1,000	\$0	\$2,500	\$16,150
Total # of Incidents		1,181	1,542	1,054	913	1,384	6,074
Total Dollar Loss		\$5,466,377	\$11,236,943	\$11,878,328	\$5,335,392	\$13,093,334	\$47,010,374

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Storage Areas	# of Incidents	34	45	34	38	23	174
	Dollar Loss	\$1,349,900	\$3,966,081	\$6,230,179	\$358,350	\$1,101,450	\$13,005,960
Functional Areas	# of Incidents	115	135	97	85	117	549
	Dollar Loss	\$1,974,772	\$1,843,182	\$1,316,156	\$1,311,367	\$1,484,954	\$7,930,431
Means of Egress/Exit Access/Exit Areas	# of Incidents	8	8	6	10	11	43
	Dollar Loss	\$300	\$179,750	\$165,500	\$56,050	\$6,531,500	\$6,933,100
Structural Areas	# of Incidents	55	45	40	31	50	221
	Dollar Loss	\$786,050	\$1,862,100	\$438,404	\$708,250	\$392,000	\$4,186,804
Service or Equipment Areas	# of Incidents	38	29	29	25	21	142
	Dollar Loss	\$168,650	\$227,500	\$1,817,002	\$408,100	\$1,250,000	\$3,871,252
Undetermined	# of Incidents	132	119	126	86	117	580
	Dollar Loss	\$174,000	\$535,202	\$655,900	\$576,700	\$1,329,271	\$3,271,073
Vehicle Areas	# of Incidents	122	159	117	98	158	654
	Dollar Loss	\$214,050	\$562,309	\$307,176	\$908,395	\$350,610	\$2,342,540
Areas of Groups of People (Assembly)	# of Incidents	14	24	12	17	18	85
	Dollar Loss	\$409,500	\$1,264,700	\$42,725	\$136,000	\$237,800	\$2,090,725
Outside Areas	# of Incidents	276	451	224	222	250	1,423
	Dollar Loss	\$124,150	\$737,200	\$427,895	\$426,500	\$182,398	\$1,898,143
Other Areas of Origin	# of Incidents	33	53	31	40	45	202
	Dollar Loss	\$80,700	\$3,103	\$156,802	\$429,930	\$13,600	\$684,135
Technical Processing Areas	# of Incidents	3	1	1	2	1	8
	Dollar Loss	\$100,000	\$0	\$0	\$6,000	\$175,000	\$281,000
Total # of Incidents		830	1,069	717	654	811	4,081
Total Dollar Loss		\$5,382,072	\$11,181,127	\$11,557,739	\$5,325,642	\$13,048,583	\$46,495,163

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	362	420	309	278	344	1,713
	Dollar Loss	\$2,670,350	\$2,645,536	\$3,272,508	\$2,871,492	\$2,856,095	\$14,315,981
Operating Equipment	# of Incidents	174	221	176	146	161	878
	Dollar Loss	\$1,814,302	\$4,166,783	\$2,233,083	\$1,474,200	\$2,723,050	\$12,411,418
Open Flame or Smoking Material	# of Incidents	85	129	69	54	68	405
	Dollar Loss	\$106,800	\$1,210,102	\$58,491	\$19,000	\$7,014,323	\$8,408,716
Hot or Smoldering Object	# of Incidents	92	113	60	67	94	426
	Dollar Loss	\$475,300	\$1,481,252	\$5,656,555	\$73,250	\$228,951	\$7,915,308
Heat Spread from Another Fire	# of Incidents	28	30	24	24	28	134
	Dollar Loss	\$94,700	\$949,250	\$186,500	\$702,500	\$30,950	\$1,963,900
Heat Source Other	# of Incidents	56	78	43	51	71	299
	Dollar Loss	\$127,320	\$406,200	\$114,602	\$138,900	\$64,704	\$851,726
Chemical or Natural	# of Incidents	13	11	13	13	11	61
	Dollar Loss	\$93,100	\$291,000	\$31,000	\$21,050	\$131,010	\$567,160
Explosives and Fireworks	# of Incidents	19	64	21	21	32	157
	Dollar Loss	\$200	\$31,004	\$5,000	\$25,250	\$0	\$61,454
Multiple Heat Sources	# of Incidents	1	3	2	0	3	9
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		830	1,069	717	654	812	4,082
Total Dollar Loss		\$5,382,072	\$11,181,127	\$11,557,739	\$5,325,642	\$13,049,083	\$46,495,663

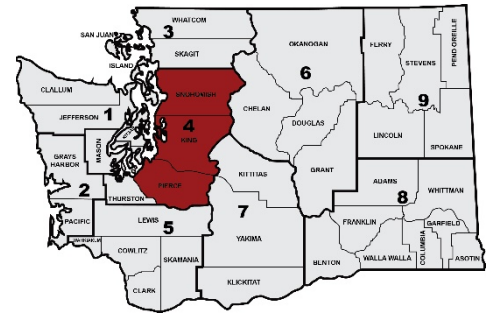
Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	343	489	322	336	369	1,859
	Dollar Loss	\$2,350,322	\$4,551,657	\$8,430,164	\$2,050,745	\$1,912,335	\$19,295,223
Cause Under Investigation	# of Incidents	113	101	83	84	122	503
	Dollar Loss	\$1,760,450	\$2,482,502	\$1,229,502	\$1,569,167	\$2,555,525	\$9,597,146
Intentional	# of Incidents	146	205	105	67	96	619
	Dollar Loss	\$1,000	\$46,555	\$26,940	\$13,500	\$6,559,073	\$6,647,068
Failure of Equipment or Heat Source	# of Incidents	95	112	115	67	114	503
	Dollar Loss	\$508,600	\$2,591,482	\$1,359,827	\$204,800	\$1,532,150	\$6,196,859
Cause Undetermined After Investigation	# of Incidents	120	147	83	81	96	527
	Dollar Loss	\$761,700	\$965,431	\$511,306	\$685,250	\$484,000	\$3,407,687
Cause, Other	# of Incidents	1	4	0	3	5	13
	Dollar Loss	\$0	\$543,500	\$0	\$796,130	\$0	\$1,339,630
Act of Nature	# of Incidents	12	11	9	16	10	58
	Dollar Loss	\$0	\$0	\$0	\$6,050	\$6,000	\$12,050
Total # of Incidents		830	1,069	717	654	812	4,082
Total Dollar Loss		\$5,382,072	\$11,181,127	\$11,557,739	\$5,325,642	\$13,049,083	\$46,495,663

Region 3 Incident Reporting Summary for 2018

REGION 3 Incident Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
Island		9,246	0	650	9,896	\$695,433
15D01	Island #1, Camano Island	1,965	0	54	2,019	\$154,100
15D02	Island #2, North Whidbey Fire & Rescue	1,944	0	465	2,409	\$89,000
15D03	Island #3, South Whidbey Fire/EMS	2,652	0	41	2,693	\$193,700
15D05	Island #5, Central Whidbey Fire & Rescue	1,468	0	16	1,484	\$250,223
15M04	Oak Harbor Fire Department	1,217	0	74	1,291	\$8,410
San Juan		1,600	0	27	1,627	\$400
28D02	San Juan #2, Orcas Island Fire & Rescue	1,260	0	0	1,260	\$400
28D03	San Juan #3, San Juan Island Fire Department	340	0	27	367	\$0
28D04	San Juan #4 Lopez Island	0	0	0	0	\$0
28D05	San Juan #5, Shaw Island	0	0	0	0	\$0
Skagit		10,167	0	574	10,741	\$496,225
29D02	Skagit #2, McLean Road	339	0	48	387	\$0
29D03	Skagit #3	355	0	64	419	\$43,100
29D04	Skagit #4, Clear Lake	247	0	32	279	\$0
29D05	Skagit #5, Bow	0	0	0	0	\$0
29D06	Skagit #6, Burlington	679	0	130	809	\$0
29D07	Skagit #7, Lake Cavanaugh	0	0	0	0	\$0
29D08	Skagit #8, Sedro-Woolley	350	0	18	368	\$1,500
29D09	Skagit #9, Big Lake	212	0	51	263	\$0
29D10	Skagit #10, Concrete	162	0	25	187	\$2,000
29D11	Skagit #11, Mt. Erie	322	0	46	368	\$0
29D12	Skagit #12, Bay View	0	0	0	0	\$0
29D13	Skagit #13	924	0	78	1,002	\$0
29D14	Skagit #14, Alger	412	0	20	432	\$500
29D15	Skagit #15, Lake McMurray	0	0	0	0	\$0
29D16	Skagit #16, Day Creek	44	0	0	44	\$2,000
29D17	Skagit #17, Guemes Island	74	0	4	78	\$0
29D19	Skagit #19, Rockport/Marblemount	0	0	0	0	\$0
29M01	Anacortes Fire Department	3,574	0	3	3,577	\$2,500
29M02	Burlington Fire Department	0	0	0	0	\$0
29M03	Concrete Fire Department	0	0	0	0	\$0
29M04	Hamilton Fire Department	0	0	0	0	\$0
29M05	La Conner Fire Department	0	0	0	0	\$0
29M07	Mount Vernon Fire Department	0	0	0	0	\$0
29M09	Sedro-Wolley Fire Department	2,473	0	55	2,528	\$444,625
Whatcom		27,248	1	3,938	31,187	\$12,319,726
37D01	Whatcom #1, Everson	0	0	0	0	\$0
37D05	Whatcom #5, Point Roberts	361	0	1	362	\$0
37D07	Whatcom #7, Ferndale	4,647	1	147	4,795	\$850,550
37D08	Whatcom #8, Marietta	0	0	0	0	\$0
37D11	Lummi Island Fire Department	91	0	2	93	\$1
37D14	Whatcom #14, Sumas	1,425	0	64	1,489	\$340,000
37D16	Whatcom #16, Acme	0	0	0	0	\$0
37D17	Whatcom #17, Sandy Point	165	0	7	172	\$1,100
37D18	Whatcom #18, South Lake Whatcom	141	0	36	177	\$81,200
37D19	Whatcom #19, Glacier Fire & Rescue	0	0	0	0	\$0
37D20	South Whatcom Fire Authority	0	0	0	0	\$0
37D21	Whatcom #21, North Whatcom Fire & Rescue	4,026	0	193	4,219	\$995,495
37M01	Bellingham Fire Department	14,798	0	3,312	18,110	\$9,735,380
37M07	Lynden Fire Department	1,594	0	176	1,770	\$316,000
REGION 3 Totals		48,261	1	5,189	53,451	\$13,511,784

Region 4

King, Pierce, and Snohomish counties make up Region 4. In 2018, 81% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	7,659	9,738	7,147	9,582	11,304	45,430
	Dollar Loss	\$163,868,942	\$70,471,509	\$56,836,472	\$129,728,734	\$152,389,347	\$573,295,004
Rescue & Emergency Medical Service	# of Incidents	219,369	205,949	184,933	229,355	283,503	1,123,109
	Dollar Loss	\$118,600	\$69,600	\$180,350	\$229,400	\$397,145	\$995,095
Service Calls	# of Incidents	18,493	18,674	16,561	20,405	23,430	97,563
	Dollar Loss	\$188,500	\$164,902	\$63,229	\$42,612	\$282,670	\$741,913
False Alarms & False Calls	# of Incidents	22,182	21,470	20,187	23,010	25,992	112,841
	Dollar Loss	\$170,027	\$8,572	\$54,354	\$165,500	\$122,100	\$520,553
Hazardous Conditions (No Fire)	# of Incidents	5,109	4,996	4,213	4,909	5,461	24,688
	Dollar Loss	\$16,827	\$58,050	\$151,811	\$172,980	\$85,030	\$484,698
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	802	758	610	746	635	3,551
	Dollar Loss	\$123,165	\$27,445	\$98,845	\$34,369	\$113,100	\$396,924
Severe Weather & Natural Disaster	# of Incidents	308	362	215	279	177	1,341
	Dollar Loss	\$0	\$0	\$0	\$200,000	\$0	\$200,000
Good Intent Calls	# of Incidents	26,153	24,323	23,551	31,398	36,540	141,965
	Dollar Loss	\$552	\$252	\$1,360	\$10,500	\$37,172	\$49,836
Other Types of Incidents	# of Incidents	2,476	2,102	2,197	2,316	2,721	11,812
	Dollar Loss	\$0	\$5,000	\$0	\$0	\$0	\$5,000
Total Total Number of Incidents		302,551	288,372	259,614	322,000	389,763	1,562,300
Total Dollar Loss		\$164,486,613	\$70,805,330	\$57,386,421	\$130,584,095	\$153,426,564	\$576,689,023

Over the past five years, 45,430 fire incidents, resulting in more than \$573 million in property and content loss, have been reported by fire service agencies in Region 4. Structure fires, including confined fires, accounted for nearly 27% of the five-year total and 70% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	2,205	2,491	2,167	2,481	3,027	12,371
	Dollar Loss	\$57,557,860	\$63,867,923	\$51,137,163	\$115,195,596	\$101,681,257	\$389,439,799
Natural Vegetation Fires	# of Incidents	1,845	3,215	1,623	2,773	3,298	12,754
	Dollar Loss	\$100,063,880	\$131,026	\$49,243	\$475,999	\$311,810	\$101,031,958
Vehicle Fires (Mobile Properties)	# of Incidents	1,108	1,161	994	1,212	1,379	5,854
	Dollar Loss	\$5,016,450	\$5,384,347	\$4,977,429	\$11,382,349	\$47,758,114	\$74,518,689
Fire, Other	# of Incidents	519	558	403	535	564	2,579
	Dollar Loss	\$788,697	\$211,225	\$186,489	\$1,707,581	\$724,738	\$3,618,730
Fixed Mobile Property Fires	# of Incidents	59	73	59	74	112	377
	Dollar Loss	\$286,803	\$539,427	\$321,389	\$681,055	\$1,512,756	\$3,341,430
Outside Storage & Equipment Fires	# of Incidents	591	902	637	819	980	3,929
	Dollar Loss	\$111,938	\$252,474	\$125,883	\$179,595	\$272,657	\$942,547
Outside Rubbish Fires	# of Incidents	1,317	1,326	1,256	1,670	1,933	7,502
	Dollar Loss	\$42,804	\$84,687	\$38,676	\$105,257	\$117,015	\$388,439
Cultivated Vegetation Fires	# of Incidents	15	12	8	18	11	64
	Dollar Loss	\$510	\$400	\$200	\$1,302	\$11,000	\$13,412
Total # of Incidents		7,659	9,738	7,147	9,582	11,304	45,430
Total Dollar Loss		\$163,868,942	\$70,471,509	\$56,836,472	\$129,728,734	\$152,389,347	\$573,295,004

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	924	1,119	988	1,164	1,446	5,641
	Dollar Loss	\$55,237,898	\$63,431,782	\$50,846,422	\$114,550,931	\$100,164,561	\$384,231,594
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	19	20	15	17	20	91
	Dollar Loss	\$2,017,025	\$12,750	\$7,051	\$13,200	\$18,205	\$2,068,231
Fires in Structures Other Than in a Building	# of Incidents	44	59	57	56	71	287
	Dollar Loss	\$36,011	\$144,404	\$78,315	\$379,102	\$810,823	\$1,448,655
Cooking Fire, Confined to Container	# of Incidents	829	899	813	869	1,035	4,445
	Dollar Loss	\$199,357	\$226,630	\$168,576	\$176,326	\$527,439	\$1,298,328
Trash or Rubbish Fire, Contained	# of Incidents	237	259	175	216	286	1,173
	Dollar Loss	\$32,716	\$27,555	\$13,269	\$20,465	\$72,852	\$166,857
Chimney or Flue Fire, Confined	# of Incidents	140	120	114	151	153	678
	Dollar Loss	\$34,853	\$16,802	\$23,000	\$53,172	\$30,877	\$158,704
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	6	5	3	2	4	20
	Dollar Loss	\$0	\$500	\$530	\$400	\$56,000	\$57,430
Commercial Compactor Fire, Confined to Rubbish	# of Incidents	6	10	2	6	12	36
	Dollar Loss	\$0	\$7,500	\$0	\$2,000	\$500	\$10,000
Total # of Incidents		2,205	2,491	2,167	2,481	3,027	12,371
Total Dollar Loss		\$57,557,860	\$63,867,923	\$51,137,163	\$115,195,596	\$101,681,257	\$389,439,799

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	2,901	3,361	2,632	3,407	3,946	16,247
	Dollar Loss	\$47,650,068	\$46,551,223	\$40,398,711	\$92,127,268	\$72,302,852	\$299,030,122
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	44	104	55	82	112	397
	Dollar Loss	\$100,405,000	\$478,325	\$104,201	\$280,403	\$32,127,173	\$133,395,102
Mercantile & Business	# of Incidents	340	413	308	445	547	2,053
	Dollar Loss	\$2,947,301	\$4,235,131	\$2,124,834	\$8,568,038	\$28,263,057	\$46,138,361
Outside or Special Properties	# of Incidents	3,160	4,279	2,812	4,090	4,694	19,035
	Dollar Loss	\$3,620,633	\$4,682,579	\$3,820,270	\$6,653,753	\$11,646,474	\$30,423,709
Storage	# of Incidents	139	134	111	144	177	705
	Dollar Loss	\$2,492,444	\$7,064,479	\$4,959,281	\$5,175,540	\$3,728,435	\$23,420,179
Assembly	# of Incidents	186	294	198	231	320	1,229
	Dollar Loss	\$3,159,284	\$2,988,115	\$3,524,447	\$10,397,149	\$1,087,993	\$21,156,988
Manufacturing & Processing	# of Incidents	45	48	45	59	66	263
	Dollar Loss	\$2,892,902	\$3,388,955	\$1,064,950	\$2,761,706	\$611,005	\$10,719,518
Health Care, Detention, & Corrections	# of Incidents	55	54	48	42	63	262
	Dollar Loss	\$108,805	\$379,352	\$376,362	\$3,038,651	\$1,448,129	\$5,351,299
Other Property Uses	# of Incidents	80	110	122	133	172	617
	Dollar Loss	\$441,950	\$493,605	\$343,640	\$243,575	\$915,960	\$2,438,730
Educational Uses	# of Incidents	115	118	77	116	143	569
	Dollar Loss	\$107,746	\$139,730	\$89,721	\$432,545	\$58,248	\$827,990
Undetermined	# of Incidents	583	809	725	815	1,036	3,968
	Dollar Loss	\$40,507	\$60,015	\$26,252	\$45,406	\$67,020	\$239,200
None	# of Incidents	11	14	14	18	28	85
	Dollar Loss	\$2,302	\$10,000	\$3,803	\$4,700	\$133,001	\$153,806
Total # of Incidents		7,659	9,738	7,147	9,582	11,304	45,430
Total Dollar Loss		\$163,868,942	\$70,471,509	\$56,836,472	\$129,728,734	\$152,389,347	\$573,295,004

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Functional Areas	# of Incidents	667	732	655	756	924	3,734
	Dollar Loss	\$18,203,291	\$16,053,217	\$16,309,715	\$35,328,733	\$20,348,273	\$106,243,229
Undetermined	# of Incidents	289	376	290	495	597	2,047
	Dollar Loss	\$5,545,403	\$5,937,901	\$6,939,332	\$45,853,374	\$36,042,495	\$100,318,505
Structural Areas	# of Incidents	213	292	224	273	315	1,317
	Dollar Loss	\$13,431,305	\$18,063,594	\$5,760,958	\$13,497,917	\$17,391,929	\$68,145,703
Outside Areas	# of Incidents	1,810	2,522	1,667	2,434	2,845	11,278
	Dollar Loss	\$6,738,779	\$3,292,503	\$4,386,844	\$3,997,353	\$40,299,399	\$58,714,878
Storage Areas	# of Incidents	189	178	174	242	295	1,078
	Dollar Loss	\$5,386,516	\$11,679,775	\$5,977,674	\$6,080,609	\$14,740,572	\$43,865,146
Vehicle Areas	# of Incidents	977	1,044	909	1,093	1,189	5,212
	Dollar Loss	\$4,583,171	\$6,020,795	\$5,269,849	\$9,908,421	\$13,540,603	\$39,322,839
Areas of Groups of People (Assembly)	# of Incidents	80	82	61	89	72	384
	Dollar Loss	\$3,766,545	\$3,734,755	\$2,120,190	\$4,406,052	\$2,609,404	\$16,636,946
Service or Equipment Areas	# of Incidents	95	102	74	85	94	450
	Dollar Loss	\$1,452,151	\$2,632,788	\$7,045,746	\$2,931,338	\$2,548,496	\$16,610,519
Means of Egress/Exit Access/Exit Areas	# of Incidents	68	75	59	92	77	371
	Dollar Loss	\$793,958	\$1,667,745	\$1,319,218	\$6,529,526	\$2,183,638	\$12,494,085
Other Areas of Origin	# of Incidents	128	147	163	204	294	936
	Dollar Loss	\$1,083,987	\$788,945	\$1,211,696	\$620,560	\$1,009,635	\$4,714,823
Technical Processing Areas	# of Incidents	8	13	9	9	17	56
	Dollar Loss	\$565,000	\$279,150	\$285,500	\$90,000	\$698,392	\$1,918,042
Total # of Incidents		4,524	5,563	4,285	5,772	6,719	26,863
Total Dollar Loss		\$61,550,106	\$70,151,168	\$56,626,722	\$129,243,883	\$151,412,836	\$468,984,715

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	1,565	1,965	1,486	2,169	2,796	9,981
	Dollar Loss	\$32,616,174	\$27,240,612	\$26,074,643	\$76,599,123	\$70,471,581	\$233,002,133
Operating Equipment	# of Incidents	1,110	1,206	1,010	1,227	1,438	5,991
	Dollar Loss	\$16,874,796	\$19,333,354	\$13,626,331	\$28,224,977	\$26,239,326	\$104,298,784
Hot or Smoldering Object	# of Incidents	553	685	594	726	751	3,309
	Dollar Loss	\$3,444,127	\$6,147,338	\$8,458,764	\$5,579,036	\$39,664,667	\$63,293,932
Open Flame or Smoking Material	# of Incidents	762	982	745	977	984	4,450
	Dollar Loss	\$4,175,961	\$9,153,868	\$4,495,634	\$9,101,260	\$8,271,231	\$35,197,954
Heat Spread from Another Fire	# of Incidents	95	108	67	80	114	464
	Dollar Loss	\$897,731	\$5,316,947	\$747,815	\$2,526,840	\$1,261,835	\$10,751,168
Heat Source Other	# of Incidents	145	193	137	178	175	828
	Dollar Loss	\$421,279	\$1,900,570	\$1,442,308	\$3,340,139	\$1,156,632	\$8,260,928
Explosives and Fireworks	# of Incidents	225	338	169	313	366	1,411
	Dollar Loss	\$1,379,504	\$618,727	\$395,355	\$1,478,863	\$1,958,188	\$5,830,637
Chemical or Natural	# of Incidents	60	68	60	78	67	333
	Dollar Loss	\$1,310,232	\$340,751	\$936,246	\$972,645	\$1,975,990	\$5,535,864
Multiple Heat Sources	# of Incidents	9	17	17	22	28	93
	Dollar Loss	\$430,302	\$99,001	\$449,626	\$1,419,500	\$414,486	\$2,812,915
Total # of Incidents		4,524	5,562	4,285	5,770	6,719	26,860
Total Dollar Loss		\$61,550,106	\$70,151,168	\$56,626,722	\$129,242,383	\$151,413,936	\$468,984,315

Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Cause Under Investigation	# of Incidents	326	373	343	363	611	2,016
	Dollar Loss	\$18,053,219	\$19,950,877	\$17,295,179	\$57,635,736	\$76,494,381	\$189,429,392
Unintentional	# of Incidents	2,298	3,014	2,174	2,895	3,178	13,559
	Dollar Loss	\$23,218,504	\$31,441,774	\$26,813,505	\$40,830,936	\$37,387,934	\$159,692,653
Cause Undetermined After Investigation	# of Incidents	563	683	472	948	1,018	3,684
	Dollar Loss	\$9,929,804	\$3,842,985	\$6,713,286	\$19,032,548	\$20,618,688	\$60,137,311
Failure of Equipment or Heat Source	# of Incidents	505	519	399	529	646	2,598
	Dollar Loss	\$7,493,173	\$8,046,324	\$2,749,024	\$4,414,935	\$11,196,480	\$33,899,936
Intentional	# of Incidents	666	734	715	832	975	3,922
	Dollar Loss	\$1,788,830	\$2,785,775	\$2,555,716	\$5,182,790	\$4,409,060	\$16,722,171
Cause, Other	# of Incidents	131	178	141	155	233	838
	Dollar Loss	\$381,055	\$4,079,333	\$261,073	\$2,021,054	\$1,297,308	\$8,039,823
Act of Nature	# of Incidents	35	61	41	50	56	243
	Dollar Loss	\$685,521	\$4,100	\$238,939	\$130,254	\$9,550	\$1,068,364
Total # of Incidents		4,524	5,562	4,285	5,772	6,717	26,860
Total Dollar Loss		\$61,550,106	\$70,151,168	\$56,626,722	\$129,248,253	\$151,413,401	\$468,989,650

Region 4 Incident Reporting Summary for 2018

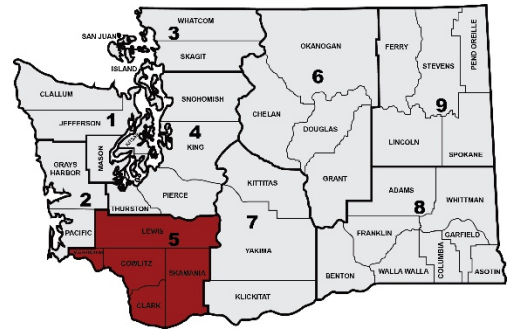
REGION 4 Incident Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
King		172,758	26	14,490	187,274	\$2,104,926,392
17D02	King #2, Burien/Normandy Park	5,453	0	183	5,636	\$463,250
17D04	King #4, Shoreline Fire Department	9,259	0	217	9,476	\$1,192,258
17D10	Eastside Fire & Rescue	9,572	0	442	10,014	\$8,024,326
17D11	King #11, North Highline Fire District	4,370	2	35	4,407	\$291,681
17D13	King #13, Vashon Island Fire & Rescue	1,638	0	26	1,664	\$134,850
17D16	King #16, Northshore Fire Department	3,146	0	271	3,417	\$938,870
17D20	King #20, Skyway/Bryn Mawr/Lakeridge	1,843	0	258	2,101	\$610,550
17D27	King #27, Fall City	493	0	268	761	\$116,500
17D34	King #34, Redmond	0	0	0	0	\$0
17D36	King #36, Woodinville Fire & Rescue	1,803	0	430	2,233	\$803,604
17D39	King #39, South King Fire & Rescue	19,078	24	1,271	20,373	\$9,502,722
17D43	King #43, Maple Valley Fire & Life Safety	0	0	0	0	\$0
17D44	King #44, Mountain View	1,587	0	120	1,707	\$206,497
17D45	King #45, Duvall	902	0	121	1,023	\$420,700
17D47	King #47, Kangley/Palmer	0	0	0	0	\$0
17D50	King #50, Skykomish/Stevens Pass	232	0	12	244	\$1,860,700
17D51	King #51, Snoqualmie Pass	0	0	0	0	\$0
17M01	Valley Regional Fire Authority	12,586	0	565	13,151	\$1,371,212
17M02	Bellevue Fire Department	15,988	0	3,717	19,705	\$5,266,892
17M03	Black Diamond Fire Department	371	0	2	373	\$100,113
17M04	Bothell Fire Department	6,143	0	224	6,367	\$22,891,921
17M06	King #28, Enumclaw Fire Department	2,417	0	57	2,474	\$1,288,600
17M08	Puget Sound Regional Fire Authority	25,174	0	1,439	26,613	\$8,616,944
17M09	Kirkland Fire Department	5,799	0	157	5,956	\$9,002,870
17M10	Mercer Island Fire Department	2,306	0	15	2,321	\$2,000,751,812
17M13	Redmond Fire Department	7,903	0	3,162	11,065	\$8,329,096
17M14	Renton Regional Fire Authority	15,755	0	864	16,619	\$2,900,162
17M15	Seattle Fire Department	13,833	0	0	13,833	\$19,307,775
17M17	Snoqualmie Fire Department	0	0	0	0	\$0
17M19	Tukwila Fire Department	4,954	0	633	5,587	\$532,287
17P01	King County International Airport	153	0	1	154	\$200
Pierce		119,757	4	3,406	123,167	\$51,604,626
27D03	Pierce #3, West Pierce Fire & Rescue	15,900	0	440	16,340	\$33,662,867
27D05	Pierce #5, Gig Harbor Fire & Medic One	5,814	0	282	6,096	\$2,411,584
27D06	Pierce #6, Central Pierce Fire & Rescue	29,100	0	758	29,858	\$7,256,685
27D13	Pierce #13, Brown's Point/ Dash Point	203	0	10	213	\$2,500
27D14	Pierce #14, Riverside Fire & Rescue	462	0	6	468	\$106,000
27D16	Pierce #16, Key Peninsula Fire	2,060	0	141	2,201	\$359,083
27D17	Pierce #17, South Pierce Fire & Rescue	1,568	0	93	1,661	\$1,781,300
27D18	Pierce #18, Orting Valley Fire & Rescue	1,569	0	309	1,878	\$0

Region 4 Incident Reporting Summary for 2018 (Continued)

27D21	Pierce #21, Graham Fire & Rescue	6,109	0	732	6,841	\$9,500
27D22	Pierce #22, East Pierce Fire & Rescue	10,803	0	358	11,161	\$1,785,825
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	73	0	5	78	\$0
27M02	City of Buckley Fire Department	1,188	0	262	1,450	\$12,600
27M03	Carbonado Fire Department	46	0	9	55	\$0
27M04	Dupont Fire Department	0	0	0	0	\$0
27M05	Eatonville Fire Department	0	0	0	0	\$0
27M11	Ruston Fire Department	83	0	1	84	\$0
27M16	Tacoma Fire Department	44,779	4	0	44,783	\$4,216,682
27M17	Wilkeson Fire Department	0	0	0	0	\$0
27S05	McNeil Island Fire Department	0	0	0	0	\$0
Snohomish		97,712	6	10,245	107,963	\$35,360,986
31D01	South County Fire	29,463	0	1,393	30,856	\$9,871,850
31D04	Snohomish #4, Snohomish	3,468	0	476	3,944	\$786,046
31D05	Snohomish #5, Sultan	951	0	73	1,024	\$75,600
31D07	Snohomish #7, Mill Creek/Monroe	9,008	3	2,090	11,101	\$2,109,148
31D08	Snohomish #8, Lake Stevens Fire	4,804	0	912	5,716	\$1,742,404
31D15	Snohomish #15, Tulalip Bay	1,010	0	137	1,147	\$1,312,100
31D16	Snohomish #16, Lake Roesiger	0	0	0	0	\$0
31D17	Snohomish #17, Granite Falls	2,006	0	145	2,151	\$382,938
31D19	Snohomish #19, Silvana	430	0	459	889	\$587,000
31D21	Snohomish #21, Arlington Rural	622	0	230	852	\$902,000
31D22	Snohomish #22, Getchell	453	0	1,150	1,603	\$488,300
31D23	Snohomish #23, Robe Valley	119	0	0	119	\$0
31D24	Snohomish #24, Darrington Fire	502	0	39	541	\$166,050
31D25	Snohomish #25, Oso	91	0	105	196	\$452,000
31D26	Snohomish #26, Gold Bar	0	0	0	0	\$0
31D27	Snohomish #27, Hat Island	0	0	0	0	\$0
31D28	Snohomish #28, Index	0	0	0	0	\$0
31D30	North County Regional Fire Authority	3,757	0	320	4,077	\$325,405
31M01	Arlington Fire Department	4,046	0	698	4,744	\$1,048,192
31M04	Everett Fire Department	22,190	3	251	22,444	\$11,957,421
31M08	Snohomish #12, Marysville Fire District	12,665	0	1,241	13,906	\$2,806,972
31M11	Mukilteo Fire Department	2,127	0	526	2,653	\$347,560
REGION 4 Totals		390,227	36	28,141	418,404	\$2,191,892,004

Region 5

Clark, Cowlitz, Lewis, Skamania, and Wahkiakum counties make up Region 5. In 2018, 61% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	2,031	2,686	2,302	2,239	2,531	11,789
	Dollar Loss	\$19,382,343	\$13,797,627	\$21,344,250	\$18,509,043	\$18,032,681	\$91,065,944
Good Intent Calls	# of Incidents	8,010	8,489	12,162	12,039	13,755	54,455
	Dollar Loss	\$7,615	\$6,000,059	\$2,063	\$21,000	\$300	\$6,031,037
Rescue & Emergency Medical Service	# of Incidents	41,459	41,747	42,515	40,649	45,293	211,663
	Dollar Loss	\$67,002	\$25,000	\$129,563	\$100,500	\$49,000	\$371,065
Service Calls	# of Incidents	2,234	2,532	3,673	4,026	5,097	17,562
	Dollar Loss	\$3,500	\$3,100	\$302,502	\$11,494	\$10,820	\$331,416
Hazardous Conditions (No Fire)	# of Incidents	674	638	627	655	695	3,289
	Dollar Loss	\$6,100	\$1,600	\$119,500	\$2,000	\$9,085	\$138,285
False Alarms & False Calls	# of Incidents	2,253	2,358	2,469	2,305	2,553	11,938
	Dollar Loss	\$0	\$2,000	\$0	\$5,800	\$101,300	\$109,100
Severe Weather & Natural Disaster	# of Incidents	35	27	12	26	8	108
	Dollar Loss	\$0	\$0	\$35,000	\$0	\$0	\$35,000
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	73	64	69	44	46	296
	Dollar Loss	\$500	\$27,050	\$4,350	\$50	\$700	\$32,650
Other Types of Incidents	# of Incidents	123	233	308	292	323	1,279
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		56,892	58,774	64,137	62,275	70,301	312,379
Total Dollar Loss		\$19,467,060	\$19,856,436	\$21,937,228	\$18,649,887	\$18,203,886	\$98,114,497

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

Over the past five years, 11,789 fire incidents, resulting in more than \$91 million in property and content loss, have been reported by fire service agencies in Region 5. Structure fires, including confined fires, accounted for 25% of the five-year total and 88% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	527	643	617	596	625	3,008
	Dollar Loss	\$17,879,595	\$10,958,013	\$19,407,137	\$16,932,613	\$15,491,060	\$80,668,418
Vehicle Fires (Mobile Properties)	# of Incidents	281	281	342	328	322	1,554
	Dollar Loss	\$1,119,664	\$985,518	\$1,133,481	\$1,113,613	\$2,095,009	\$6,447,285
Fixed Mobile Property Fires	# of Incidents	19	24	18	27	29	117
	Dollar Loss	\$154,692	\$1,198,007	\$85,400	\$170,165	\$214,990	\$1,823,254
Natural Vegetation Fires	# of Incidents	640	1,078	756	679	916	4,069
	Dollar Loss	\$56,520	\$527,245	\$102,099	\$17,286	\$47,636	\$750,786
Outside Storage & Equipment Fires	# of Incidents	72	83	71	90	119	435
	Dollar Loss	\$24,296	\$53,820	\$439,335	\$116,072	\$44,814	\$678,337
Fire, Other	# of Incidents	161	157	156	157	177	808
	Dollar Loss	\$135,106	\$44,038	\$156,601	\$134,767	\$127,910	\$598,422
Outside Rubbish Fires	# of Incidents	323	409	338	349	340	1,759
	Dollar Loss	\$12,370	\$29,711	\$20,097	\$22,927	\$11,112	\$96,217
Cultivated Vegetation Fires	# of Incidents	8	11	4	13	3	39
	Dollar Loss	\$100	\$1,275	\$100	\$1,600	\$150	\$3,225
Total # of Incidents		2,031	2,686	2,302	2,239	2,531	11,789
Total Dollar Loss		\$19,382,343	\$13,797,627	\$21,344,250	\$18,509,043	\$18,032,681	\$91,065,944

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	269	326	352	307	309	1,563
	Dollar Loss	\$17,621,121	\$10,551,680	\$18,825,724	\$15,094,796	\$15,073,503	\$77,166,824
Fires in Structures Other Than in a Building	# of Incidents	13	28	20	26	21	108
	Dollar Loss	\$18,200	\$241,520	\$508,265	\$1,756,875	\$286,410	\$2,811,270
Cooking Fire, Confined to Container	# of Incidents	121	159	128	131	152	691
	Dollar Loss	\$17,580	\$159,488	\$50,962	\$57,332	\$102,945	\$388,307
Trash or Rubbish Fire, Contained	# of Incidents	44	52	48	36	51	231
	Dollar Loss	\$215,292	\$5,075	\$2,250	\$8,210	\$9,202	\$240,029
Chimney or Flue Fire, Confined	# of Incidents	74	69	63	88	84	378
	Dollar Loss	\$2,302	\$250	\$18,936	\$10,400	\$10,200	\$42,088
Commercial Compactor Fire, Confined	# of Incidents	0	2	0	2	2	6
	Dollar Loss	\$0	\$0	\$0	\$0	\$8,200	\$8,200
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	5	5	5	4	4	23
	Dollar Loss	\$5,100	\$0	\$1,000	\$0	\$500	\$6,600
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	1	2	0	2	2	7
	Dollar Loss	\$0	\$0	\$0	\$5,000	\$100	\$5,100
Structure Fire, Other	# of Incidents	0	0	1	0	0	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		527	643	617	596	625	3,008
Total Dollar Loss		\$17,879,595	\$10,958,013	\$19,407,137	\$16,932,613	\$15,491,060	\$80,668,418

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	856	1,030	913	900	1,004	4,703
	Dollar Loss	\$14,862,166	\$10,226,843	\$13,639,593	\$11,646,107	\$13,399,941	\$63,774,650
Storage	# of Incidents	37	62	56	60	51	266
	Dollar Loss	\$1,948,685	\$529,284	\$2,846,412	\$2,756,247	\$605,839	\$8,686,467
Outside or Special Properties	# of Incidents	779	1,081	995	945	1,123	4,923
	Dollar Loss	\$613,612	\$1,182,029	\$1,421,737	\$1,066,510	\$1,714,142	\$5,998,030
Assembly	# of Incidents	55	95	72	55	60	337
	Dollar Loss	\$1,097,182	\$641,900	\$1,958,934	\$212,504	\$683,778	\$4,594,298
Mercantile & Business	# of Incidents	130	224	105	124	135	718
	Dollar Loss	\$449,730	\$265,903	\$1,232,267	\$1,836,190	\$586,433	\$4,370,523
Manufacturing & Processing	# of Incidents	31	26	27	42	29	155
	Dollar Loss	\$72,761	\$110,891	\$141,150	\$834,100	\$143,194	\$1,302,096
Health Care, Detention, & Corrections	# of Incidents	20	43	24	21	25	133
	Dollar Loss	\$32,100	\$818,502	\$10,000	\$670	\$139,454	\$1,000,726
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	22	22	28	25	32	129
	Dollar Loss	\$149,100	\$1,700	\$3,000	\$55,000	\$715,000	\$923,800
Educational Uses	# of Incidents	47	55	37	30	17	186
	Dollar Loss	\$5,765	\$10,770	\$72,157	\$100,000	\$25,200	\$213,892
Other Property Uses	# of Incidents	25	25	25	16	21	112
	Dollar Loss	\$140,000	\$9,000	\$19,000	\$1,700	\$18,500	\$188,200
Undetermined	# of Incidents	15	14	5	4	5	43
	Dollar Loss	\$8,242	\$805	\$0	\$0	\$1,100	\$10,147
None	# of Incidents	10	8	15	17	29	79
	Dollar Loss	\$3,000	\$0	\$0	\$15	\$100	\$3,115
Total # of Incidents		2,027	2,685	2,302	2,239	2,531	11,784
Total Dollar Loss		\$19,382,343	\$13,797,627	\$21,344,250	\$18,509,043	\$18,032,681	\$91,065,944

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	150	221	189	199	255	1,014
	Dollar Loss	\$7,426,082	\$627,750	\$1,713,382	\$2,796,935	\$4,313,651	\$16,877,800
Functional Areas	# of Incidents	195	249	242	187	198	1,071
	Dollar Loss	\$2,553,968	\$3,085,799	\$5,779,064	\$2,233,304	\$3,189,108	\$16,841,243
Structural Areas	# of Incidents	84	86	84	88	64	406
	Dollar Loss	\$3,626,384	\$1,815,449	\$5,866,617	\$2,623,753	\$1,929,412	\$15,861,615
Storage Areas	# of Incidents	71	92	84	77	77	401
	Dollar Loss	\$1,816,708	\$1,939,251	\$4,449,427	\$3,018,180	\$2,121,098	\$13,344,664
Outside Areas	# of Incidents	730	1,141	777	672	824	4,144
	Dollar Loss	\$983,268	\$3,581,165	\$618,029	\$2,354,496	\$1,454,574	\$8,991,532
Vehicle Areas	# of Incidents	257	265	298	272	290	1,382
	Dollar Loss	\$1,189,064	\$938,177	\$968,131	\$919,158	\$1,750,022	\$5,764,552
Areas of Groups of People (Assembly)	# of Incidents	17	29	13	36	22	117
	Dollar Loss	\$333,151	\$719,907	\$405,900	\$1,372,839	\$2,148,298	\$4,980,095
Service or Equipment Areas	# of Incidents	31	30	43	47	41	192
	Dollar Loss	\$234,300	\$148,500	\$695,000	\$2,086,116	\$86,094	\$3,250,010
Means of Egress/Exit Access/Exit Areas	# of Incidents	14	26	16	21	18	95
	Dollar Loss	\$1,103,555	\$252,990	\$543,164	\$512,710	\$282,448	\$2,694,867
Other Areas of Origin	# of Incidents	89	106	90	124	153	562
	Dollar Loss	\$44,150	\$648,200	\$211,655	\$313,860	\$634,320	\$1,852,185
Technical Processing Areas	# of Incidents	5	4	6	6	4	25
	Dollar Loss	\$38,761	\$0	\$5,000	\$214,500	\$55,100	\$313,361
Total # of Incidents		1,643	2,249	1,842	1,729	1,946	9,409
Total Dollar Loss		\$19,349,391	\$13,757,188	\$21,255,369	\$18,445,851	\$17,964,125	\$90,771,924

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	701	1,095	823	770	900	4,289
	Dollar Loss	\$12,439,744	\$6,197,772	\$11,356,379	\$7,728,561	\$11,732,993	\$49,455,449
Operating Equipment	# of Incidents	279	357	335	308	320	1,599
	Dollar Loss	\$1,855,802	\$3,036,791	\$4,310,005	\$4,056,454	\$3,001,401	\$16,260,453
Hot or Smoldering Object	# of Incidents	196	258	308	279	284	1,325
	Dollar Loss	\$2,400,529	\$1,151,604	\$2,508,718	\$3,816,943	\$1,007,381	\$10,885,175
Open Flame or Smoking Material	# of Incidents	194	225	157	157	180	913
	Dollar Loss	\$1,651,775	\$1,700,679	\$1,853,775	\$1,128,834	\$930,744	\$7,265,807
Heat Source Other	# of Incidents	134	121	100	116	118	589
	Dollar Loss	\$506,488	\$689,406	\$677,450	\$859,792	\$653,951	\$3,387,087
Heat Spread from Another Fire	# of Incidents	46	56	49	46	41	238
	Dollar Loss	\$154,376	\$227,220	\$324,360	\$630,534	\$328,417	\$1,664,907
Explosives and Fireworks	# of Incidents	67	98	49	33	68	315
	Dollar Loss	\$329,577	\$672,188	\$56,732	\$176,100	\$11,298	\$1,245,895
Chemical or Natural	# of Incidents	23	38	19	18	23	121
	Dollar Loss	\$1,100	\$81,528	\$167,950	\$48,631	\$100,500	\$399,709
Multiple Heat Sources	# of Incidents	3	1	2	2	12	20
	Dollar Loss	\$10,000	\$0	\$0	\$2	\$197,440	\$207,442
Total # of Incidents		1,643	2,249	1,842	1,729	1,946	9,409
Total Dollar Loss		\$19,349,391	\$13,757,188	\$21,255,369	\$18,445,851	\$17,964,125	\$90,771,924

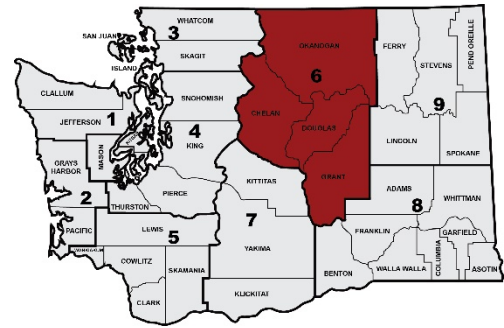
Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	663	837	825	831	880	4,036
	Dollar Loss	\$4,098,233	\$5,889,859	\$10,427,999	\$6,865,271	\$4,744,395	\$32,025,757
Cause Under Investigation	# of Incidents	173	224	202	173	202	974
	Dollar Loss	\$7,040,041	\$4,565,079	\$3,259,003	\$3,868,479	\$6,636,767	\$25,369,369
Cause Undetermined After Investigation	# of Incidents	367	697	336	278	341	2,019
	Dollar Loss	\$5,439,239	\$2,561,930	\$2,476,077	\$2,503,935	\$5,007,926	\$17,989,107
Intentional	# of Incidents	241	295	256	236	317	1,345
	Dollar Loss	\$1,902,450	\$202,430	\$3,923,947	\$1,933,821	\$475,236	\$8,437,884
Failure of Equipment or Heat Source	# of Incidents	171	138	196	192	170	867
	Dollar Loss	\$783,828	\$506,295	\$1,007,793	\$3,211,845	\$1,087,801	\$6,597,562
Act of Nature	# of Incidents	26	58	26	18	34	162
	Dollar Loss	\$600	\$31,595	\$160,550	\$7,500	\$12,000	\$212,245
Cause, Other	# of Incidents	2	0	1	1	1	5
	Dollar Loss	\$85,000	\$0	\$0	\$55,000	\$0	\$140,000
Total # of Incidents		1,643	2,249	1,842	1,729	1,945	9,408
Total Dollar Loss		\$19,349,391	\$13,757,188	\$21,255,369	\$18,445,851	\$17,964,125	\$90,771,924

Region 5 Incident Reporting Summary for 2018

REGION 5 Incident Reporting Summary		# of Incidents	Exposures	Automatic & Mutual Aid Given	Total Reports	Total Property & Content Loss
Clark		47,777	0	2,019	49,796	\$15,003,261
06D01	Clark #9, East County Fire & Rescue	663	0	267	930	\$0
06D03	Clark #3, Brush Prairie	4,042	0	275	4,317	\$934,517
06D06	Clark #6, Hazel Dell	6,426	0	82	6,508	\$4,375,335
06D10	Clark #10, Amboy	0	0	0	0	\$0
06D13	Clark #13, Yacolt	338	0	15	353	\$0
06D15	Clark #11, Clark County Fire and Rescue	3,956	0	216	4,172	\$1,826,370
06M02	Camas-Washougal Fire Department	3,594	0	789	4,383	\$209,725
06M05	Vancouver Fire Department	28,758	0	375	29,133	\$7,657,314
Cowlitz		12,455	0	570	13,025	\$2,942,145
08D01	Cowlitz #1, Woodland	364	0	35	399	\$0
08D02	Cowlitz #2 Fire & Rescue	4,685	0	231	4,916	\$802,470
08D03	Cowlitz #3, Toutle	338	0	2	340	\$0
08D04	Cowlitz #4, Ryderwood	0	0	0	0	\$0
08D05	Cowlitz #5, Kalama	739	0	143	882	\$418,900
08D06	Cowlitz #6, Castle Rock	1,206	0	90	1,296	\$0
08D07	Cowlitz #7, Cowlitz-Skamania Fire District 7	32	0	1	33	\$310,000
08M04	Longview Fire Department	5,091	0	68	5,159	\$1,410,775
Lewis		9,988	0	948	10,936	\$2,315,550
21D01	Lewis #1, Onalaska	348	0	9	357	\$0
21D02	Lewis #2, Toledo	595	0	89	684	\$0
21D03	Lewis #3, Mossyrock	273	0	24	297	\$0
21D04	Lewis #4, Morton	332	0	24	356	\$0
21D05	Lewis #5, Napavine	921	0	160	1,081	\$2,000
21D06	Lewis #6, Chehalis	620	0	197	817	\$658,400
21D07	Lewis #20, Cowlitz-Lewis Fire	191	0	128	319	\$0
21D08	Lewis #8, Salkum/Silver Creek	0	0	0	0	\$0
21D09	Lewis #9, Mineral	120	0	7	127	\$17,000
21D10	Lewis #10, Packwood	0	0	0	0	\$0
21D11	Lewis #11, Pe Ell	0	0	0	0	\$0
21D13	Lewis #13, Curtis	0	0	0	0	\$0
21D14	Lewis #14, Randle Fire & EMS	277	0	15	292	\$37,500
21D15	Lewis #15, Winlock	734	0	98	832	\$70,000
21D16	Lewis #16, Doty/Dryad/Meskill	0	0	0	0	\$0
21D18	Lewis #18, Glenoma	82	0	31	113	\$46,400
21M01	Riverside Fire Authority	3,962	0	66	4,028	\$875,750
21M02	Chehalis Fire Department	1,533	0	100	1,633	\$608,500
Skamania		20	0	3	23	\$185,000
30D01	Skamania #1, Carson	0	0	0	0	\$0
30D02	Skamania #2, Stevenson	0	0	0	0	\$0
30D03	Skamania #3, Underwood	20	0	3	23	\$185,000
30D04	Skamania #4	0	0	0	0	\$0
30D05	Skamania #5, Skamania	0	0	0	0	\$0
30D06	Skamania #6, Cougar	0	0	0	0	\$0
30M01	North Bonneville Fire Department	0	0	0	0	\$0
30M02	Stevenson Fire Department	0	0	0	0	\$0
Wahkiakum		62	0	18	80	\$100,000
35D01	Wahkiakum #1	26	0	2	28	\$0
35D02	Wahkiakum #2, Skamokawa	0	0	0	0	\$0
35D03	Wahkiakum #3, Grays River	13	0	2	15	\$100,000
35D04	Wahkiakum #4, Cathlamet	23	0	14	37	\$0
35M01	Cathlamet Fire Department	0	0	0	0	\$0
REGION 5 Totals		70,302	0	3,558	73,860	\$20,545,956

Region 6

Chelan, Douglas, Grant, and Okanogan counties make up Region 6. In 2018, 54% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,080	1,243	1,121	1,139	1,279	5,862
	Dollar Loss	\$6,444,880	\$30,211,418	\$6,823,812	\$4,838,300	\$6,479,175	\$54,797,585
Rescue & Emergency Medical Service	# of Incidents	5,241	6,123	6,555	6,599	7,080	31,598
	Dollar Loss	\$60,100	\$6,000	\$2,000	\$31,000	\$951,300	\$1,050,400
False Alarms & False Calls	# of Incidents	672	849	867	959	1,000	4,347
	Dollar Loss	\$29,000	\$0	\$15,000	\$0	\$0	\$44,000
Hazardous Conditions (No Fire)	# of Incidents	240	255	272	298	305	1,370
	Dollar Loss	\$0	\$500	\$100	\$25,500	\$1,000	\$27,100
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	38	58	45	54	40	235
	Dollar Loss	\$14,030	\$700	\$500	\$500	\$10,000	\$25,730
Service Calls	# of Incidents	318	472	390	489	487	2,156
	Dollar Loss	\$0	\$150	\$21,000	\$1,000	\$400	\$22,550
Severe Weather & Natural Disaster	# of Incidents	5	7	1	6	13	32
	Dollar Loss	\$0	\$0	\$0	\$0	\$20,000	\$20,000
Good Intent Calls	# of Incidents	1,146	1,515	1,433	1,461	1,593	7,148
	Dollar Loss	\$0	\$0	\$0	\$1,500	\$0	\$1,500
Other Types of Incidents	# of Incidents	132	42	21	26	27	248
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		8,872	10,564	10,705	11,031	11,824	52,996
Total Dollar Loss		\$6,548,010	\$30,218,768	\$6,862,412	\$4,897,800	\$7,461,875	\$55,988,865

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

Over the past five years, 5,862 fire incidents, resulting in just under \$55 million in property and content loss, have been reported by fire service agencies in Region 6. Vegetation fires, accounted for nearly 40% of the five-year total and 58% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Natural Vegetation Fires	# of Incidents	475	496	410	415	572	2,368
	Dollar Loss	\$3,749,300	\$26,344,473	\$10,400	\$527,650	\$1,415,125	\$32,046,948
Structure Fires (including Confined Fires)	# of Incidents	213	264	289	283	261	1,310
	Dollar Loss	\$2,200,910	\$2,392,050	\$4,470,486	\$3,722,700	\$4,072,600	\$16,858,746
Vehicle Fires (Mobile Properties)	# of Incidents	122	167	170	181	148	788
	Dollar Loss	\$329,400	\$185,945	\$1,033,076	\$324,700	\$591,750	\$2,464,871
Fire, Other	# of Incidents	42	52	68	55	42	259
	Dollar Loss	\$17,250	\$1,030,500	\$528,050	\$55,200	\$39,800	\$1,670,800
Outside Storage & Equipment Fires	# of Incidents	39	42	37	53	37	208
	Dollar Loss	\$5,100	\$102,000	\$400,000	\$57,100	\$172,500	\$736,700
Fixed Mobile Property Fires	# of Incidents	17	20	20	23	26	106
	Dollar Loss	\$111,600	\$156,050	\$206,800	\$113,700	\$66,000	\$654,150
Cultivated Vegetation Fires	# of Incidents	38	34	24	23	46	165
	Dollar Loss	\$29,100	\$0	\$175,000	\$36,500	\$120,000	\$360,600
Outside Rubbish Fires	# of Incidents	134	168	103	106	147	658
	Dollar Loss	\$2,220	\$400	\$0	\$750	\$1,400	\$4,770
Total # of Incidents		1,080	1,243	1,121	1,139	1,279	5,862
Total Dollar Loss		\$6,444,880	\$30,211,418	\$6,823,812	\$4,838,300	\$6,479,175	\$54,797,585

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	128	159	166	163	164	780
	Dollar Loss	\$2,198,600	\$2,360,400	\$4,335,386	\$3,717,200	\$4,071,300	\$16,682,886
Fires in Structures Other Than in a Building	# of Incidents	3	8	4	10	9	34
	Dollar Loss	\$0	\$15,350	\$100,500	\$1,500	\$1,000	\$118,350
Commercial Compactor Fire, Confined	# of Incidents	0	0	1	1	0	2
	Dollar Loss	\$0	\$0	\$30,000	\$0	\$0	\$30,000
Cooking Fire, Confined	# of Incidents	31	45	48	59	41	224
	Dollar Loss	\$310	\$11,200	\$4,500	\$4,000	\$0	\$20,010
Chimney or Flue Fire, Confined	# of Incidents	14	22	24	22	21	103
	Dollar Loss	\$2,000	\$3,600	\$0	\$0	\$0	\$5,600
Trash or Rubbish Fire, Contained	# of Incidents	34	30	44	26	25	159
	Dollar Loss	\$0	\$1,500	\$100	\$0	\$300	\$1,900
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	1	0	0	0	0	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	2	0	2	2	1	7
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		213	264	289	283	261	1,310
Total Dollar Loss		\$2,200,910	\$2,392,050	\$4,470,486	\$3,722,700	\$4,072,600	\$16,858,746

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Outside or Special Properties	# of Incidents	589	691	589	579	718	3,166
	Dollar Loss	\$3,941,010	\$26,500,323	\$228,026	\$927,200	\$2,158,175	\$33,754,734
Residential	# of Incidents	292	333	341	348	351	1,665
	Dollar Loss	\$1,294,660	\$1,527,795	\$2,082,136	\$2,589,150	\$1,578,100	\$9,071,841
Assembly	# of Incidents	13	7	24	17	23	84
	Dollar Loss	\$250,000	\$500	\$1,071,500	\$5,000	\$2,046,000	\$3,373,000
Mercantile & Business	# of Incidents	17	38	27	29	24	135
	Dollar Loss	\$321,500	\$794,800	\$1,086,500	\$521,700	\$218,000	\$2,942,500
Storage	# of Incidents	39	44	37	49	43	212
	Dollar Loss	\$296,200	\$310,100	\$984,800	\$647,700	\$384,300	\$2,623,100
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	64	69	58	65	77	333
	Dollar Loss	\$79,700	\$15,000	\$1,115,000	\$88,400	\$20,200	\$1,318,300
Manufacturing & Processing	# of Incidents	8	17	9	20	11	65
	Dollar Loss	\$15,000	\$1,035,000	\$71,700	\$50,000	\$20,000	\$1,191,700
Health Care, Detention, & Corrections	# of Incidents	3	4	4	1	3	15
	Dollar Loss	\$88,000	\$500	\$140,000	\$0	\$0	\$228,500
Other Property Uses	# of Incidents	25	18	6	5	6	60
	Dollar Loss	\$126,100	\$26,300	\$0	\$0	\$0	\$152,400
None	# of Incidents	9	4	12	5	5	35
	Dollar Loss	\$28,000	\$1,100	\$44,150	\$500	\$18,000	\$91,750
Educational Uses	# of Incidents	4	1	5	9	6	25
	Dollar Loss	\$10	\$0	\$0	\$6,150	\$36,400	\$42,560
Undetermined	# of Incidents	17	17	8	12	12	66
	Dollar Loss	\$4,700	\$0	\$0	\$2,500	\$0	\$7,200
Total # of Incidents		1,080	1,243	1,120	1,139	1,279	5,861
Total Dollar Loss		\$6,444,880	\$30,211,418	\$6,823,812	\$4,838,300	\$6,479,175	\$54,797,585

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Functional Areas	# of Incidents	70	76	105	101	89	441
	Dollar Loss	\$730,300	\$495,445	\$750,350	\$299,300	\$2,721,100	\$4,996,495
Undetermined	# of Incidents	143	195	176	138	163	815
	Dollar Loss	\$245,600	\$1,271,405	\$1,930,400	\$1,184,500	\$272,400	\$4,904,305
Storage Areas	# of Incidents	25	37	31	45	27	165
	Dollar Loss	\$420,600	\$308,750	\$788,700	\$1,865,700	\$250,300	\$3,634,050
Structural Areas	# of Incidents	27	51	37	55	46	216
	Dollar Loss	\$327,500	\$352,845	\$872,536	\$292,450	\$554,500	\$2,399,831
Outside Areas	# of Incidents	404	368	372	474	588	2,206
	Dollar Loss	\$241,450	\$403,000	\$950,600	\$234,800	\$503,600	\$2,333,450
Vehicle Areas	# of Incidents	99	114	140	142	124	619
	Dollar Loss	\$330,900	\$96,900	\$546,276	\$333,200	\$853,350	\$2,160,626
Areas of Groups of People (Assembly)	# of Incidents	7	6	7	7	6	33
	Dollar Loss	\$57,000	\$101,000	\$590,000	\$2,800	\$207,500	\$958,300
Service or Equipment Areas	# of Incidents	18	27	26	35	32	138
	Dollar Loss	\$165,700	\$536,500	\$37,050	\$94,500	\$42,025	\$875,775
Other Areas of Origin	# of Incidents	31	30	33	19	33	146
	Dollar Loss	\$41,000	\$35,000	\$350,300	\$0	\$4,500	\$430,800
Means of Egress/Exit Access/Exit Areas	# of Incidents	5	4	3	2	2	16
	Dollar Loss	\$125,600	\$251,500	\$1,000	\$0	\$0	\$378,100
Technical Processing Areas	# of Incidents	1	2	5	5	5	18
	Dollar Loss	\$10,000	\$0	\$1,700	\$150	\$0	\$11,850
Total # of Incidents		830	910	935	1,023	1,115	4,813
Total Dollar Loss		\$2,695,650	\$3,852,345	\$6,818,912	\$4,307,400	\$5,409,275	\$23,083,582

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	390	445	480	466	556	2,337
	Dollar Loss	\$1,551,800	\$2,493,755	\$5,367,562	\$3,449,350	\$2,171,550	\$15,034,017
Operating Equipment	# of Incidents	123	167	173	235	167	865
	Dollar Loss	\$637,150	\$794,565	\$717,250	\$707,400	\$2,394,925	\$5,251,290
Hot or Smoldering Object	# of Incidents	77	74	70	78	88	387
	Dollar Loss	\$296,200	\$236,350	\$101,000	\$12,200	\$353,500	\$999,250
Chemical or Natural	# of Incidents	35	33	24	27	35	154
	Dollar Loss	\$0	\$26,600	\$576,700	\$52,150	\$142,500	\$797,950
Open Flame or Smoking Material	# of Incidents	86	95	94	101	132	508
	Dollar Loss	\$104,000	\$91,300	\$14,900	\$57,300	\$174,300	\$441,800
Heat Spread from Another Fire	# of Incidents	54	39	33	34	74	234
	Dollar Loss	\$60,000	\$107,200	\$31,000	\$1,200	\$142,500	\$341,900
Heat Source Other	# of Incidents	42	43	39	45	45	214
	Dollar Loss	\$46,000	\$81,575	\$500	\$27,800	\$0	\$155,875
Explosives and Fireworks	# of Incidents	22	14	21	35	17	109
	Dollar Loss	\$500	\$21,000	\$10,000	\$0	\$30,000	\$61,500
Multiple Heat Sources	# of Incidents	1	0	1	2	1	5
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		830	910	935	1,023	1,115	4,813
Total Dollar Loss		\$2,695,650	\$3,852,345	\$6,818,912	\$4,307,400	\$5,409,275	\$23,083,582

Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Cause Under Investigation	# of Incidents	77	84	126	144	125	556
	Dollar Loss	\$768,100	\$405,500	\$3,079,362	\$2,966,650	\$695,500	\$7,915,112
Unintentional	# of Incidents	332	355	352	410	474	1,923
	Dollar Loss	\$739,750	\$1,824,545	\$878,800	\$287,550	\$2,681,300	\$6,411,945
Cause Undetermined After Investigation	# of Incidents	160	187	192	172	193	904
	Dollar Loss	\$572,900	\$1,223,605	\$1,541,450	\$630,400	\$1,055,750	\$5,024,105
Failure of Equipment or Heat Source	# of Incidents	103	109	117	131	105	565
	Dollar Loss	\$579,300	\$227,700	\$287,250	\$360,300	\$627,400	\$2,081,950
Cause, Other	# of Incidents	2	22	5	8	4	41
	Dollar Loss	\$12,000	\$145,795	\$856,000	\$0	\$5,000	\$1,018,795
Act of Nature	# of Incidents	56	40	29	40	42	207
	Dollar Loss	\$18,000	\$0	\$175,550	\$52,000	\$142,525	\$388,075
Intentional	# of Incidents	100	113	114	118	172	617
	Dollar Loss	\$5,600	\$25,200	\$500	\$10,500	\$201,800	\$243,600
Total # of Incidents		830	910	935	1,023	1,115	4,813
Total Dollar Loss		\$2,695,650	\$3,852,345	\$6,818,912	\$4,307,400	\$5,409,275	\$23,083,582

Region 6 Incident Reporting Summary for 2018

REGION 6 Incident Reporting Summary		# of Incidents	Exposures	Automatic & Mutual Aid Given	Total Reports	Total Property & Content Loss
Chelan		5,454	1	497	5,952	\$451,300
04D01	Chelan #1	2,548	1	201	2,750	\$5,000
04D03	Chelan #3, Leavenworth	548	0	93	641	\$410,300
04D04	Chelan #4, Ponderosa	0	0	0	0	\$0
04D05	Chelan #5, Manson	388	0	72	460	\$0
04D06	Chelan #6, Monitor/Dryden	487	0	54	541	\$0
04D07	Chelan #7, Chelan Fire & Rescue	924	0	61	985	\$36,000
04D08	Chelan #8, Entiat	292	0	0	292	\$0
04D09	Chelan #9, Lake Wenatchee Fire & Rescue	267	0	16	283	\$0
04D10	Chelan #10, Stehekin	0	0	0	0	\$0
04M01	Cashmere Fire Department	0	0	0	0	\$0
04M05	Wenatchee Fire Department	0	0	0	0	\$0
Douglas		1,638	0	133	1,771	\$1,772,100
09D01	Douglas #1, Waterville	0	0	0	0	\$0
09D02	Douglas #2, East Wenatchee	1,393	0	107	1,500	\$7,000
09D03	Douglas #3, Grand Coulee	0	0	0	0	\$0
09D04	Douglas #4, Orondo	177	0	21	198	\$1,350,100
09D05	Douglas #5, Mansfield	68	0	5	73	\$415,000
09M01	Bridgeport Fire Department	0	0	0	0	\$0
Grant		4,145	2	742	4,889	\$4,221,525
13D03	Grant #3, Quincy	802	0	19	821	\$0
13D04	Grant #4, Warden	288	0	22	310	\$0
13D05	Grant #5, Moses Lake	1,319	0	31	1,350	\$748,500
13D06	Grant #6, Hartline	11	1	12	24	\$0
13D07	Grant #7, Soap Lake	390	0	10	400	\$411,400
13D08	Grant #8, Mattawa	14	0	503	517	\$36,000
13D10	Grant #10, Royal Slope	247	0	24	271	\$0
13D11	Grant #11, E Royal Slope	95	0	1	96	\$0
13D12	Grant #12, Wilson Creek	0	0	0	0	\$0
13D13	Grant #13, Ephrata	92	0	42	134	\$0
13D14	Grant #14, Electric City	0	0	0	0	\$0
13M01	Coulee City/Douglas #8	9	0	23	32	\$150,000
13M03	Electric City Fire Department	19	0	10	29	\$0
13M05	Grand Coulee Fire Department	0	0	0	0	\$0
13M06	Hartline Fire Department	0	0	0	0	\$0
13M08	Moses Lake Fire Department	524	0	12	536	\$2,875,625
13M09	City of Quincy Fire Department	0	0	0	0	\$0
17S02	Port of Moses Lake	47	0	9	56	\$0

Region 6 Incident Reporting Summary for 2018 (Continued)

Okanogan		536	1	243	780	\$1,934,350
24D02	Okanogan #2, Elmer City	0	0	0	0	\$0
24D03	Okanogan #3	0	0	0	0	\$0
24D04	Okanogan #4, Tonasket	114	1	27	142	\$446,700
24D06	Okanogan #6, Twisp/Winthrop	145	0	166	311	\$1,024,800
24D07	Okanogan #7, Riverside	0	0	0	0	\$0
24D08	Okanogan #8, Okanogan	0	0	0	0	\$0
24D09	Okanogan #9	0	0	0	0	\$0
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	Douglas/Okanogan #15	120	0	40	160	\$0
24D16	Okanogan #16, Aeneas Valley	0	0	0	0	\$0
24M00	Brewster Fire Department	0	0	0	0	\$0
24M01	Coulee Dam Fire Department	0	0	0	0	\$0
24M03	Nespelem Fire Department	0	0	0	0	\$0
24M04	Okanogan Fire Department	0	0	0	0	\$0
24M05	Omak Fire Department	157	0	10	167	\$462,850
24M06	Okanogan #1, Oroville	0	0	0	0	\$0
24M07	Pateros Fire Department	0	0	0	0	\$0
24M11	Conconully Fire Department	0	0	0	0	\$0
REGION 6 Totals		11,820	4	1,624	13,448	\$8,379,275

Region 7

Kittitas, Klickitat, and Yakima counties make up Region 7. In 2018, 62% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,512	1,584	1,383	1,513	1,775	7,767
	Dollar Loss	\$16,367,625	\$10,370,958	\$14,200,985	\$19,106,833	\$41,289,959	\$101,336,360
Rescue & Emergency Medical Service	# of Incidents	15,786	17,134	16,857	17,798	18,826	86,401
	Dollar Loss	\$145,700	\$135,800	\$100,000	\$11,500	\$119,600	\$512,600
Service Calls	# of Incidents	1,244	1,552	1,412	1,652	1,886	7,746
	Dollar Loss	\$78,350	\$36,285	\$113,300	\$202,000	\$12,750	\$442,685
Hazardous Conditions (No Fire)	# of Incidents	386	502	407	522	477	2,294
	Dollar Loss	\$9,400	\$360,050	\$7,100	\$40,950	\$9,770	\$427,270
Severe Weather & Natural Disaster	# of Incidents	15	14	11	19	4	63
	Dollar Loss	\$5,000	\$85,000	\$0	\$0	\$0	\$90,000
False Alarms & False Calls	# of Incidents	1,191	1,252	1,147	1,331	1,292	6,213
	Dollar Loss	\$16,000	\$0	\$10,050	\$5,400	\$0	\$31,450
Other Types of Incidents	# of Incidents	121	95	72	244	111	643
	Dollar Loss	\$0	\$0	\$0	\$10,000	\$200	\$10,200
Good Intent Calls	# of Incidents	2,407	2,687	2,762	2,989	3,246	14,091
	Dollar Loss	\$50	\$9,100	\$50	\$500	\$0	\$9,700
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	30	30	29	34	27	150
	Dollar Loss	\$710	\$965	\$500	\$100	\$1,000	\$3,275
Total # of Incidents		22,692	24,850	24,080	26,102	27,644	125,368
Total Dollar Loss		\$16,622,835	\$10,998,158	\$14,431,985	\$19,377,283	\$41,433,279	\$102,863,540

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

Over the past five years, 7,767 fire incidents, resulting in more than \$101 million in property and content loss, have been reported by fire service agencies in Region 7. Structure fires, including confined fires, accounted for 29% of the five-year total and nearly 80% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	445	421	414	452	520	2,252
	Dollar Loss	\$13,192,090	\$6,862,465	\$10,783,550	\$14,063,510	\$36,275,990	\$81,177,605
Vehicle Fires (Mobile Properties)	# of Incidents	234	253	251	250	243	1,231
	Dollar Loss	\$1,495,000	\$1,165,220	\$2,599,875	\$1,941,423	\$1,649,100	\$8,850,618
Natural Vegetation Fires	# of Incidents	519	583	437	502	629	2,670
	Dollar Loss	\$1,012,160	\$369,750	\$235,960	\$2,677,000	\$1,174,889	\$5,469,759
Cultivated Vegetation Fires	# of Incidents	17	28	17	15	29	106
	Dollar Loss	\$321,900	\$903,400	\$185,500	\$48,000	\$724,380	\$2,183,180
Outside Storage & Equipment Fires	# of Incidents	51	78	59	60	62	310
	Dollar Loss	\$107,800	\$812,683	\$126,925	\$42,600	\$1,045,155	\$2,135,163
Fixed Mobile Property Fires	# of Incidents	19	16	15	18	18	86
	Dollar Loss	\$175,400	\$123,300	\$55,200	\$198,500	\$281,050	\$833,450
Fire, Other	# of Incidents	102	95	84	103	135	519
	Dollar Loss	\$58,650	\$128,460	\$207,950	\$119,850	\$127,310	\$642,220
Outside Rubbish Fires	# of Incidents	125	110	106	113	139	593
	Dollar Loss	\$4,625	\$5,680	\$6,025	\$15,950	\$12,085	\$44,365
Total # of Incidents		1,512	1,584	1,383	1,513	1,775	7,767
Total Dollar Loss		\$16,367,625	\$10,370,958	\$14,200,985	\$19,106,833	\$41,289,959	\$101,336,360

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	258	249	224	267	276	1,274
	Dollar Loss	\$13,146,750	\$6,766,080	\$10,562,760	\$13,829,010	\$36,204,340	\$80,508,940
Fires in Structures Other Than in a Building	# of Incidents	9	12	14	18	12	65
	Dollar Loss	\$5,850	\$73,400	\$206,100	\$122,600	\$8,350	\$416,300
Chimney or Flue Fire, Confined	# of Incidents	31	34	31	35	30	161
	Dollar Loss	\$10,000	\$14,500	\$1,100	\$95,000	\$7,000	\$127,600
Cooking Fire, Confined To Container	# of Incidents	87	71	68	56	93	375
	Dollar Loss	\$20,065	\$5,365	\$7,360	\$13,800	\$42,605	\$89,195
Trash or Rubbish Fire,	# of Incidents	55	53	71	72	100	351
	Dollar Loss	\$4,425	\$3,120	\$6,180	\$2,300	\$1,695	\$17,720
Commercial Compactor Fire, Confined	# of Incidents	0	1	1	1	7	10
	Dollar Loss	\$0	\$0	\$0	\$800	\$12,000	\$12,800
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	2	0	0	2	1	5
	Dollar Loss	\$5,000	\$0	\$0	\$0	\$0	\$5,000
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	3	1	5	1	1	11
	Dollar Loss	\$0	\$0	\$50	\$0	\$0	\$50
Structure Fire, Other	# of Incidents	0	0	0	0	0	0
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		445	421	414	452	520	2,252
Total Dollar Loss		\$13,192,090	\$6,862,465	\$10,783,550	\$14,063,510	\$36,275,990	\$81,177,605

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	473	527	486	507	598	2,591
	Dollar Loss	\$7,815,705	\$5,411,775	\$9,662,795	\$6,049,390	\$32,667,344	\$61,607,009
Storage	# of Incidents	53	47	41	47	60	248
	Dollar Loss	\$2,496,500	\$1,768,843	\$642,600	\$5,801,750	\$2,111,000	\$12,820,693
Outside or Special Properties	# of Incidents	761	795	681	778	873	3,888
	Dollar Loss	\$2,773,030	\$1,423,030	\$1,298,430	\$3,543,393	\$1,901,565	\$10,939,448
Manufacturing & Processing	# of Incidents	14	17	8	17	16	72
	Dollar Loss	\$1,187,500	\$280,400	\$1,096,000	\$430,500	\$2,949,500	\$5,943,900
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	45	59	37	40	42	223
	Dollar Loss	\$266,650	\$1,293,140	\$489,000	\$963,000	\$408,350	\$3,420,140
Assembly	# of Incidents	27	15	27	28	44	141
	Dollar Loss	\$1,164,920	\$49,550	\$448,950	\$455,650	\$1,091,760	\$3,210,830
Mercantile & Business	# of Incidents	42	32	39	37	40	190
	Dollar Loss	\$570,900	\$28,010	\$444,500	\$1,778,750	\$129,000	\$2,951,160
None	# of Incidents	58	55	33	17	60	223
	Dollar Loss	\$75,500	\$38,000	\$90,000	\$80,000	\$0	\$283,500
Educational Uses	# of Incidents	13	8	7	6	13	47
	Dollar Loss	\$10,370	\$75,000	\$28,600	\$0	\$940	\$114,910
Other Property Uses	# of Incidents	15	19	10	14	17	75
	Dollar Loss	\$1,000	\$300	\$110	\$3,900	\$21,000	\$26,310
Health Care, Detention, & Corrections	# of Incidents	7	9	2	4	8	30
	Dollar Loss	\$5,550	\$2,910	\$0	\$500	\$9,500	\$18,460
Undetermined	# of Incidents	0	1	2	2	1	6
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		1,508	1,584	1,373	1,497	1,772	7,734
Total Dollar Loss		\$16,367,625	\$10,370,958	\$14,200,985	\$19,106,833	\$41,289,959	\$101,336,360

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Service or Equipment Areas	# of Incidents	32	26	24	29	39	150
	Dollar Loss	\$1,253,270	\$495,900	\$275,450	\$3,299,000	\$28,376,000	\$33,699,620
Undetermined	# of Incidents	134	134	140	186	210	804
	Dollar Loss	\$4,079,450	\$1,646,750	\$3,986,150	\$4,575,950	\$1,751,120	\$16,039,420
Structural Areas	# of Incidents	85	84	85	88	73	415
	Dollar Loss	\$3,605,950	\$1,976,400	\$2,587,075	\$2,804,300	\$1,226,550	\$12,200,275
Functional Areas	# of Incidents	152	141	149	150	149	741
	Dollar Loss	\$1,614,865	\$1,382,415	\$2,385,170	\$1,419,550	\$2,420,640	\$9,222,640
Vehicle Areas	# of Incidents	202	218	210	200	213	1,043
	Dollar Loss	\$1,441,100	\$1,211,320	\$2,261,700	\$1,506,373	\$1,440,550	\$7,861,043
Outside Areas	# of Incidents	571	632	493	534	699	2,929
	Dollar Loss	\$1,768,425	\$2,411,193	\$630,915	\$562,200	\$2,402,580	\$7,775,313
Storage Areas	# of Incidents	55	49	48	66	60	278
	Dollar Loss	\$1,350,225	\$663,510	\$1,410,325	\$1,700,400	\$1,600,700	\$6,725,160
Areas of Groups of People (Assembly)	# of Incidents	23	8	14	13	11	69
	Dollar Loss	\$502,100	\$172,600	\$89,300	\$453,060	\$409,000	\$1,626,060
Other Areas of Origin	# of Incidents	60	82	69	96	120	427
	Dollar Loss	\$44,050	\$165,900	\$222,200	\$293,000	\$554,465	\$1,279,615
Means of Egress/Exit Access/Exit Areas	# of Incidents	7	10	6	10	10	43
	Dollar Loss	\$65,110	\$122,510	\$148,500	\$13,500	\$61,200	\$410,820
Technical Processing Areas	# of Incidents	1	2	1	4	2	10
	Dollar Loss	\$5,500	\$5,000	\$0	\$109,500	\$20,000	\$140,000
Total # of Incidents		1,322	1,386	1,239	1,376	1,586	6,909
Total Dollar Loss		\$15,730,045	\$10,253,498	\$13,996,785	\$16,736,833	\$40,262,805	\$96,979,966

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	592	648	543	708	838	3,329
	Dollar Loss	\$8,980,550	\$5,847,673	\$8,981,785	\$9,848,430	\$10,504,885	\$44,163,323
Open Flame or Smoking Material	# of Incidents	155	138	147	111	149	700
	Dollar Loss	\$1,257,600	\$297,100	\$1,290,905	\$2,959,000	\$25,749,905	\$31,554,510
Operating Equipment	# of Incidents	263	267	265	260	249	1,304
	Dollar Loss	\$3,399,445	\$1,945,240	\$1,490,895	\$2,298,362	\$1,947,760	\$11,081,702
Hot or Smoldering Object	# of Incidents	112	105	99	101	127	544
	Dollar Loss	\$1,230,100	\$674,300	\$1,010,200	\$740,600	\$1,253,890	\$4,909,090
Heat Spread from Another Fire	# of Incidents	60	69	51	55	67	302
	Dollar Loss	\$706,050	\$635,100	\$125,500	\$492,141	\$167,200	\$2,125,991
Heat Source Other	# of Incidents	70	85	79	89	101	424
	Dollar Loss	\$103,750	\$350,825	\$951,500	\$90,200	\$476,715	\$1,972,990
Chemical or Natural	# of Incidents	19	25	11	15	14	84
	Dollar Loss	\$8,000	\$493,610	\$142,500	\$300,100	\$34,050	\$978,260
Explosives and Fireworks	# of Incidents	51	48	44	37	39	219
	Dollar Loss	\$44,550	\$6,350	\$3,500	\$8,000	\$124,400	\$186,800
Multiple Heat Sources	# of Incidents	0	1	0	0	2	3
	Dollar Loss	\$0	\$3,300	\$0	\$0	\$4,000	\$7,300
Total # of Incidents		1,322	1,386	1,239	1,376	1,586	6,909
Total Dollar Loss		\$15,730,045	\$10,253,498	\$13,996,785	\$16,736,833	\$40,262,805	\$96,979,966

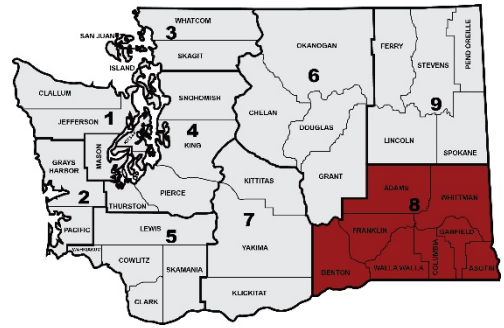
Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Cause Under Investigation	# of Incidents	149	151	163	217	248	928
	Dollar Loss	\$6,437,750	\$3,756,703	\$5,218,600	\$4,336,750	\$30,233,405	\$49,983,208
Unintentional	# of Incidents	590	633	560	584	673	3,040
	Dollar Loss	\$5,943,575	\$3,239,650	\$6,382,695	\$9,074,612	\$4,384,315	\$29,024,847
Cause Undetermined After Investigation	# of Incidents	166	156	153	192	206	873
	Dollar Loss	\$664,315	\$466,350	\$825,275	\$459,580	\$4,120,595	\$6,536,115
Failure of Equipment or Heat Source	# of Incidents	173	184	144	163	160	824
	Dollar Loss	\$1,772,480	\$1,331,395	\$1,088,435	\$986,350	\$964,100	\$6,142,760
Intentional	# of Incidents	214	223	190	175	262	1,064
	Dollar Loss	\$887,325	\$956,400	\$302,280	\$1,728,400	\$463,605	\$4,338,010
Act of Nature	# of Incidents	28	37	27	33	27	152
	Dollar Loss	\$6,600	\$503,000	\$35,500	\$5,000	\$40,550	\$590,650
Cause, Other	# of Incidents	2	2	2	12	10	28
	Dollar Loss	\$18,000	\$0	\$144,000	\$146,141	\$56,235	\$364,376
Total # of Incidents		1,322	1,386	1,239	1,376	1,586	6,909
Total Dollar Loss		\$15,730,045	\$10,253,498	\$13,996,785	\$16,736,833	\$40,262,805	\$96,979,966

Region 7 Incident Reporting Summary for 2018

REGION 7 Incident Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
Kittitas		5,459	0	95	5,554	\$26,989,290
19D01	Kittitas #1, Thorp	28	0	0	28	\$0
19D02	Kittitas #2, Kittitas Valley Fire & Rescue	4,071	0	19	4,090	\$683,640
19D03	Kittitas #3, Easton	0	0	0	0	\$0
19D04	Kittitas #4, Vantage	0	0	0	0	\$0
19D06	Kittitas #6, Lake Cle Elum	0	0	0	0	\$0
19D07	Kittitas #7	676	0	48	724	\$26,305,650
19D08	Kittitas #8, Lake Kachess	0	0	0	0	\$0
19M01	Cle Elum Fire Department	505	0	19	524	\$0
19M03	Kittitas Fire Department	0	0	0	0	\$0
19M04	Roslyn Fire Department	0	0	0	0	\$0
19M05	S. Cle Elum Fire Department	179	0	9	188	\$0
Klickitat		870	0	349	1,219	\$355,000
20D01	Klickitat #1, Trout Lake	0	0	0	0	\$0
20D02	Klickitat #2, Bickleton	0	0	0	0	\$0
20D03	Klickitat #3, Husum	159	0	119	278	\$0
20D04	Klickitat #4, Lyle	156	0	34	190	\$0
20D05	Klickitat #5, Centerville	3	0	1	4	\$0
20D06	Klickitat #6, Dallesport	0	0	0	0	\$0
20D07	Klickitat #7, Goldendale	284	0	26	310	\$0
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 Department	4	0	46	50	\$0
20M02	Goldendale Fire Department	182	0	14	196	\$51,000
20M03	White Salmon Fire Department	82	0	109	191	\$304,000
Yakima		21,296	19	838	22,153	\$14,108,989
39D01	Yakima #1, Highland	253	0	35	288	\$17,400
39D02	Yakima #2, Selah	1,645	0	47	1,692	\$716,050
39D03	Yakima #3, Naches	0	0	0	0	\$0
39D04	Yakima #4, East Valley	1,199	0	35	1,234	\$0
39D05	Yakima #5	2,766	16	44	2,826	\$4,736,819
39D06	Yakima #6, Gleed	149	0	33	182	\$2,800,000
39D07	Yakima #7, Glade	5	0	0	5	\$0
39D09	Yakima #9, Naches Heights	123	0	36	159	\$205,500
39D11	Yakima #11, Broadway	0	0	0	0	\$0
39D12	Yakima #12, West Valley	789	0	84	873	\$460,450
39D14	Yakima #14, Nile/Clifddell	149	0	10	159	\$21,050
39M01	Grandview Fire Department	574	0	2	576	\$192,750
39M02	Granger Fire Department	127	0	3	130	\$40
39M03	Mabton Fire Department	79	0	2	81	\$211,150
39M06	Sunnyside Fire Department	2,380	0	207	2,587	\$210,800
39M08	Toppenish Fire Department	789	3	261	1,053	\$553,255
39M10	Wapato Fire Department	0	0	0	0	\$0
39M11	Yakima Fire Department	10,030	0	35	10,065	\$3,983,625
39M12	Zillah Fire Department	239	0	4	243	\$100
REGION 7 Totals		27,625	19	1,282	28,926	\$41,453,279

Region 8

Adams, Asotin, Benton, Columbia, Garfield, Franklin, Walla Walla, and Whitman counties make up Region 8. In 2018, 39% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,344	1,507	1,038	1,158	1,583	6,630
	Dollar Loss	\$7,836,896	\$11,458,504	\$8,809,174	\$5,894,736	\$20,408,461	\$54,407,771
Rescue & Emergency Medical Service	# of Incidents	19,694	21,252	16,929	17,684	20,828	96,387
	Dollar Loss	\$58,000	\$308,000	\$16,000	\$70,250	\$8,000	\$460,250
Hazardous Conditions (No Fire)	# of Incidents	542	550	373	502	561	2,528
	Dollar Loss	\$389,750	\$10,000	\$5,500	\$22,500	\$2,300	\$430,050
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	23	33	22	39	31	148
	Dollar Loss	\$58,800	\$0	\$0	\$500	\$130,000	\$189,300
False Alarms & False Calls	# of Incidents	2,610	2,731	2,091	2,286	2,690	12,408
	Dollar Loss	\$131,000	\$33,000	\$0	\$10,500	\$0	\$174,500
Good Intent Calls	# of Incidents	2,334	2,514	1,814	2,283	2,977	11,922
	Dollar Loss	\$70,800	\$0	\$0	\$25	\$3,000	\$73,825
Service Calls	# of Incidents	1,389	1,690	1,449	1,782	2,286	8,596
	Dollar Loss	\$29,450	\$0	\$0	\$0	\$16,500	\$45,950
Other Types of Incidents	# of Incidents	62	104	62	54	84	366
	Dollar Loss	\$0	\$0	\$0	\$100	\$0	\$100
Severe Weather & Natural Disaster	# of Incidents	16	20	10	14	6	66
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Undetermined Type of Incident	# of Incidents	0	0	0	0	2	2
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		28,014	30,401	23,788	25,802	31,048	139,053
Total Dollar Loss		\$8,574,696	\$11,809,504	\$8,830,674	\$5,998,611	\$20,568,261	\$55,781,746

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

Over the past five years, 6,630 fire incidents, resulting in more than \$54 million in property and content loss, have been reported by fire service agencies in Region 8. Structure fires, including confined fires, accounted for nearly 29% of the five-year total and 81% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	393	454	313	344	446	1,950
	Dollar Loss	\$6,290,808	\$9,787,525	\$7,650,070	\$4,513,236	\$15,747,724	\$43,989,363
Vehicle Fires (Mobile Properties)	# of Incidents	228	213	136	191	234	1,002
	Dollar Loss	\$1,378,216	\$664,490	\$406,415	\$941,950	\$2,012,301	\$5,403,372
Natural Vegetation Fires	# of Incidents	404	481	328	345	541	2,099
	Dollar Loss	\$30,462	\$89,500	\$507,750	\$319,950	\$2,396,951	\$3,344,613
Cultivated Vegetation Fires	# of Incidents	23	41	30	23	33	150
	Dollar Loss	\$80,050	\$646,879	\$90,064	\$16,500	\$2,000	\$835,493
Fixed Mobile Property Fires	# of Incidents	9	14	9	16	14	62
	Dollar Loss	\$13,550	\$50,800	\$90,500	\$90,050	\$109,300	\$354,200
Outside Rubbish Fires	# of Incidents	168	151	104	127	208	758
	Dollar Loss	\$14,840	\$208,700	\$60,250	\$4,775	\$26,475	\$315,040
Outside Storage & Equipment Fires	# of Incidents	54	53	36	51	50	244
	Dollar Loss	\$22,320	\$910	\$2,625	\$2,350	\$110,915	\$139,120
Fire, Other	# of Incidents	65	100	82	61	57	365
	Dollar Loss	\$6,650	\$9,700	\$1,500	\$5,925	\$2,795	\$26,570
Total # of Incidents		1,344	1,507	1,038	1,158	1,583	6,630
Total Dollar Loss		\$7,836,896	\$11,458,504	\$8,809,174	\$5,894,736	\$20,408,461	\$54,407,771

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	228	274	172	191	247	1,112
	Dollar Loss	\$6,160,633	\$9,711,625	\$7,281,950	\$4,492,400	\$15,477,309	\$43,123,917
Fires in Structures Other Than in a Building	# of Incidents	15	7	6	5	16	49
	Dollar Loss	\$102,050	\$51,000	\$361,500	\$10,000	\$239,100	\$763,650
Cooking Fire, Confined	# of Incidents	84	105	70	87	128	474
	Dollar Loss	\$11,925	\$24,300	\$4,765	\$7,036	\$29,270	\$77,296
Trash or Rubbish Fire, Contained	# of Incidents	49	55	48	39	46	237
	Dollar Loss	\$7,700	\$600	\$305	\$2,250	\$1,845	\$12,700
Chimney or Flue Fire, Confined	# of Incidents	15	9	13	20	6	63
	Dollar Loss	\$6,000	\$0	\$1,050	\$1,000	\$200	\$8,250
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	1	4	4	1	3	13
	Dollar Loss	\$2,500	\$0	\$500	\$50	\$0	\$3,050
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	0	0	0	1	0	1
	Dollar Loss	\$0	\$0	\$0	\$500	\$0	\$500
Commercial Compactor Fire, Confined	# of Incidents	1	0	0	0	0	1
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		393	454	313	344	446	1,950
Total Dollar Loss		\$6,290,808	\$9,787,525	\$7,650,070	\$4,513,236	\$15,747,724	\$43,989,363

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	530	550	397	423	620	2,520
	Dollar Loss	\$5,352,778	\$5,613,526	\$4,845,695	\$3,772,386	\$8,876,013	\$28,460,398
Outside or Special Properties	# of Incidents	636	708	485	568	749	3,146
	Dollar Loss	\$1,407,739	\$919,850	\$348,869	\$921,900	\$3,876,324	\$7,474,682
Storage	# of Incidents	44	56	34	38	47	219
	Dollar Loss	\$322,400	\$1,031,149	\$384,910	\$901,000	\$3,246,427	\$5,885,886
Mercantile & Business	# of Incidents	34	41	30	30	41	176
	Dollar Loss	\$134,250	\$191,700	\$14,100	\$83,000	\$4,198,210	\$4,621,260
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	33	55	40	36	50	214
	Dollar Loss	\$41,500	\$501,879	\$2,630,800	\$172,000	\$67,000	\$3,413,179
Manufacturing & Processing	# of Incidents	9	16	13	6	6	50
	Dollar Loss	\$479,500	\$2,653,550	\$50,000	\$0	\$0	\$3,183,050
Assembly	# of Incidents	24	36	17	20	30	127
	Dollar Loss	\$93,004	\$56,075	\$424,800	\$29,675	\$42,910	\$646,464
Health Care, Detention, & Corrections	# of Incidents	5	7	3	7	9	31
	Dollar Loss	\$1,000	\$465,075	\$0	\$500	\$75	\$466,650
Other Property Uses	# of Incidents	9	11	10	14	8	52
	Dollar Loss	\$4,000	\$0	\$110,000	\$250	\$7,002	\$121,252
Educational Uses	# of Incidents	13	14	3	10	13	53
	Dollar Loss	\$725	\$2,700	\$0	\$25	\$74,500	\$77,950
None	# of Incidents	3	10	3	6	7	29
	Dollar Loss	\$0	\$15,000	\$0	\$14,000	\$20,000	\$49,000
Undetermined	# of Incidents	3	2	3	0	1	9
	Dollar Loss	\$0	\$1,000	\$0	\$0	\$0	\$1,000
Total # of Incidents		1,343	1,506	1,038	1,158	1,581	6,626
Total Dollar Loss		\$7,836,896	\$11,451,504	\$8,809,174	\$5,894,736	\$20,408,461	\$54,400,771

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Structural Areas	# of Incidents	64	80	57	59	75	335
	Dollar Loss	\$2,039,800	\$2,753,435	\$938,350	\$535,800	\$5,205,986	\$11,473,371
Functional Areas	# of Incidents	148	165	117	109	138	677
	Dollar Loss	\$999,454	\$1,999,465	\$1,491,965	\$2,144,210	\$1,442,940	\$8,078,034
Undetermined	# of Incidents	48	73	58	70	82	331
	Dollar Loss	\$780,800	\$350,400	\$3,255,500	\$444,290	\$2,755,883	\$7,586,873
Areas of Groups of People (Assembly)	# of Incidents	16	16	11	12	16	71
	Dollar Loss	\$335,025	\$988,800	\$277,000	\$62,525	\$4,578,000	\$6,241,350
Vehicle Areas	# of Incidents	200	201	131	175	205	912
	Dollar Loss	\$983,016	\$550,340	\$399,410	\$1,062,650	\$1,841,601	\$4,837,017
Outside Areas	# of Incidents	436	450	291	329	448	1,954
	Dollar Loss	\$1,334,154	\$573,710	\$911,344	\$858,800	\$915,047	\$4,593,055
Service or Equipment Areas	# of Incidents	21	21	20	25	16	103
	Dollar Loss	\$588,200	\$2,972,050	\$136,500	\$88,500	\$103,500	\$3,888,750
Storage Areas	# of Incidents	48	58	38	46	45	235
	Dollar Loss	\$587,850	\$222,400	\$673,025	\$405,225	\$1,117,250	\$3,005,750
Means of Egress/Exit Access/Exit Areas	# of Incidents	3	7	5	6	12	33
	Dollar Loss	\$500	\$104,250	\$202,500	\$25,000	\$157,100	\$489,350
Technical Processing Areas	# of Incidents	6	11	0	4	6	27
	Dollar Loss	\$1,150	\$156,000	\$0	\$500	\$32,000	\$189,650
Other Areas of Origin	# of Incidents	35	53	40	38	46	212
	Dollar Loss	\$26,360	\$0	\$1,030	\$3,700	\$45,695	\$76,785
Total # of Incidents		1,025	1,135	768	873	1,089	4,890
Total Dollar Loss		\$7,676,309	\$10,670,850	\$8,286,624	\$5,631,200	\$18,195,002	\$50,459,985

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

Heat Source Categories		2014	2015	2016	2017	2018	5-Year Total
Undetermined	# of Incidents	422	467	320	399	356	1,964
	Dollar Loss	\$3,514,631	\$5,918,240	\$3,524,965	\$3,617,190	\$4,898,478	\$21,473,504
Operating Equipment	# of Incidents	255	290	201	202	288	1,236
	Dollar Loss	\$2,284,950	\$2,279,950	\$3,207,615	\$969,235	\$2,388,260	\$11,130,010
Open Flame or Smoking Material	# of Incidents	142	93	83	75	116	509
	Dollar Loss	\$1,213,438	\$440,925	\$512,330	\$136,700	\$4,745,901	\$7,049,294
Heat Spread from Another Fire	# of Incidents	41	41	27	40	88	237
	Dollar Loss	\$243,000	\$287,300	\$331,600	\$109,500	\$4,986,111	\$5,957,511
Hot or Smoldering Object	# of Incidents	80	100	62	74	89	405
	Dollar Loss	\$416,780	\$424,449	\$441,925	\$532,700	\$646,000	\$2,461,854
Chemical or Natural	# of Incidents	22	32	15	13	23	105
	Dollar Loss	\$2,000	\$762,636	\$56,525	\$30,175	\$154,700	\$1,006,036
Explosives and Fireworks	# of Incidents	23	47	22	28	51	171
	Dollar Loss	\$1,010	\$506,100	\$180,000	\$100	\$95,100	\$782,310
Heat Source Other	# of Incidents	39	65	35	40	76	255
	Dollar Loss	\$500	\$51,250	\$31,664	\$235,600	\$270,252	\$589,266
Multiple Heat Sources	# of Incidents	1	0	2	2	1	6
	Dollar Loss	\$0	\$0	\$0	\$0	\$10,000	\$10,000
Total # of Incidents		1,025	1,135	767	873	1,088	4,888
Total Dollar Loss		\$7,676,309	\$10,670,850	\$8,286,624	\$5,631,200	\$18,194,802	\$50,459,785

Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	468	474	375	377	482	2,176
	Dollar Loss	\$3,240,520	\$2,898,971	\$4,538,920	\$1,755,635	\$2,728,090	\$15,162,136
Cause Under Investigation	# of Incidents	92	116	88	109	108	513
	Dollar Loss	\$1,572,295	\$4,855,215	\$1,917,650	\$1,389,490	\$4,022,282	\$13,756,932
Intentional	# of Incidents	133	139	85	89	112	558
	Dollar Loss	\$631,069	\$795,150	\$203,000	\$7,500	\$4,217,050	\$5,853,769
Cause Undetermined After Investigation	# of Incidents	158	170	85	109	144	666
	Dollar Loss	\$1,331,525	\$807,090	\$770,305	\$2,096,350	\$748,998	\$5,754,268
Cause, Other	# of Incidents	14	20	7	13	62	116
	Dollar Loss	\$57,540	\$177,150	\$85,600	\$29,000	\$5,007,111	\$5,356,401
Failure of Equipment or Heat Source	# of Incidents	141	171	113	151	152	728
	Dollar Loss	\$842,160	\$1,073,274	\$741,560	\$351,225	\$1,321,971	\$4,330,190
Act of Nature	# of Incidents	19	45	13	24	29	130
	Dollar Loss	\$1,200	\$64,000	\$29,589	\$2,000	\$149,000	\$245,789
Total # of Incidents		1,025	1,135	766	872	1,089	4,887
Total Dollar Loss		\$7,676,309	\$10,670,850	\$8,286,624	\$5,631,200	\$18,194,502	\$50,459,485

Region 8 Incident Reporting Summary for 2018

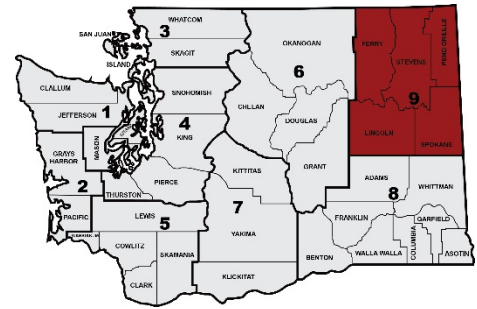
REGION 8 Incident Reporting Summary		# of Incidents	Exposures	Automatic or Mutual Aid Given	Total Reports	Total Property & Content Loss
Adams		2	0	2	4	\$0
01D01	Adams #1, Ritzville	0	0	0	0	\$0
01D02	Adams #2, Hatton/Lind	0	0	0	0	\$0
01D03	Adams #3, Odessa	0	0	0	0	\$0
01D04	Adams #4, Harder/McCall	0	0	0	0	\$0
01D05	Adams #5, Othello	0	0	0	0	\$0
01D06	Adams #6, Benge	2	0	2	4	\$0
01D07	Adams #7, Washtucna	0	0	0	0	\$0
01M03	Ritzville Fire Department	0	0	0	0	\$0
Asotin		507	0	55	562	\$207,720
02D00	Asotin #1, Blue Mountain Fire District	5	0	2	7	\$0
02D01	Asotin #1, Clarkston	229	0	22	251	\$0
02M01	Asotin Fire Department	72	0	0	72	\$0
02M02	Clarkston Fire Department	201	0	31	232	\$207,720
Benton		20,182	69	2,079	22,330	\$16,318,680
03D01	Benton #1, South Kennewick	1,212	14	300	1,526	\$4,971,233
03D02	Benton #2, Benton City	819	27	234	1,080	\$167,500
03D03	West Benton Fire Rescue	564	0	54	618	\$635,650
03D04	Benton #4, West Richland	1,537	4	191	1,732	\$698,385
03D05	Benton #5	0	0	0	0	\$0
03D06	Benton #6, Plymouth/Paterson	0	0	0	0	\$0
03M02	Kennewick Fire Department	9,100	23	783	9,906	\$5,457,106
03M04	Richland Fire Department	6,295	1	476	6,772	\$4,388,806
03S01	Hanford Fire Department	655	0	41	696	\$0
Columbia		0	0	0	0	\$0
07D01	Columbia #1, Starbuck	0	0	0	0	\$0
07D03	Columbia #3, Dayton	0	0	0	0	\$0
Franklin		5,830	7	432	6,269	\$3,040,950
11D01	Franklin #1, Connell - Mesa	0	0	0	0	\$0
11D02	Franklin #2, Kahlotus	0	0	0	0	\$0
11D03	Franklin #3, Pasco	394	0	146	540	\$172,400
11D04	Franklin #4, Basin City	0	0	0	0	\$0
11D05	Franklin #5	0	0	0	0	\$0
11M01	Connell Fire Department	31	0	0	31	\$0
11M02	Pasco Fire Department	5,405	7	286	5,698	\$2,868,550

Region 8 Incident Reporting Summary for 2018 (Continued)

Garfield		56	0	0	56	\$2,000
12D01	Garfield #1, Pomeroy	56	0	0	56	\$2,000
Walla Walla		1,522	10	118	1,650	\$1,095,865
36D01	Walla Walla #1, Clyde	0	0	0	0	\$0
36D02	Walla Walla #2/Columbia #2	152	1	11	164	\$0
36D03	Walla Walla #3, Eureka	0	0	0	0	\$0
36D04	Walla Walla #4, Walla Walla	0	0	0	0	\$0
36D05	Walla Walla #5, Burbank	489	0	88	577	\$272,800
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 Station	0	0	0	0	\$0
36M04	Walla Walla Fire Department	881	9	19	909	\$823,065
Whitman		2,888	0	149	3,037	\$439,546
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	9	0	4	13	\$0
38D06	Whitman #6, Endicott	14	0	1	15	\$10,000
38D07	Whitman #7, Rosalia	0	0	0	0	\$0
38D08	Whitman #8, LaCrosse/Hooper	0	0	0	0	\$0
38D10	Whitman #10, Oakesdale	44	0	8	52	\$0
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	16	0	5	21	\$95,000
38M01	Albion Fire Department	0	0	0	0	\$0
38M02	Colfax Fire & Rescue	301	0	12	313	\$35,000
38M05	Garfield Fire Department	0	0	0	0	\$0
38M06	LaCrosse Fire Department	0	0	0	0	\$0
38M07	Malden Fire Department	0	0	0	0	\$0
38M10	Pullman Fire Department	2,504	0	119	2,623	\$299,546
38M11	Rosalia Fire Department	0	0	0	0	\$0
38M13	Tekoa Fire Department	0	0	0	0	\$0
REGION 8 Totals		30,987	86	2,835	33,908	\$21,104,761

Region 9

Ferry, Lincoln, Pend Oreille, Spokane, and Stevens counties make up Region 9. In 2018, 52% 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 Category		2014	2015	2016	2017	2018	5-Year Total
Fire	# of Incidents	1,766	1,905	1,813	1,886	2,064	9,434
	Dollar Loss	\$8,346,719	\$9,631,124	\$9,935,146	\$8,077,692	\$12,634,659	\$48,625,340
Hazardous Conditions (No Fire)	# of Incidents	909	1,235	887	843	933	4,807
	Dollar Loss	\$78,800	\$34,500	\$44,700	\$93,320	\$4,300	\$255,620
Rescue & Emergency Medical Service	# of Incidents	41,238	46,428	43,269	36,490	45,496	212,921
	Dollar Loss	\$124,815	\$33,000	\$10,100	\$18,050	\$15,000	\$200,965
Good Intent Calls	# of Incidents	6,027	8,429	9,014	8,687	6,097	38,254
	Dollar Loss	\$60,000	\$0	\$0	\$0	\$20	\$60,020
Severe Weather & Natural Disaster	# of Incidents	34	71	12	14	9	140
	Dollar Loss	\$30,000	\$0	\$5,000	\$0	\$0	\$35,000
Service Calls	# of Incidents	5,090	5,861	5,290	4,445	3,975	24,661
	Dollar Loss	\$5,000	\$4,008	\$0	\$60	\$12,000	\$21,068
Overpressure Rupture, Explosion, Overheat (No Fire)	# of Incidents	88	99	88	61	61	397
	Dollar Loss	\$1,000	\$1,550	\$540	\$1,250	\$11,450	\$15,790
False Alarms & False Calls	# of Incidents	2,527	2,637	2,477	2,395	2,613	12,649
	Dollar Loss	\$0	\$0	\$0	\$0	\$2,000	\$2,000
Other Types of Incidents	# of Incidents	609	281	231	216	206	1,543
	Dollar Loss	\$0	\$0	\$2,000	\$0	\$0	\$2,000
Total # of Incidents		58,288	66,946	63,081	55,037	61,454	304,806
Total Dollar Loss		\$8,646,334	\$9,704,182	\$9,997,486	\$8,190,372	\$12,679,429	\$49,217,803

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

Over the past five years, 9,434 fire incidents, resulting in more than \$48 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 88% of the dollar loss to property and content.

2014 – 2018 Fires Incidents by Type (Sorted by Dollar Loss)

Fire Incidents by Category		2014	2015	2016	2017	2018	5-Year Total
Structure Fires (including Confined Fires)	# of Incidents	543	564	590	592	551	2,840
	Dollar Loss	\$6,227,925	\$8,819,424	\$8,716,958	\$7,585,218	\$11,410,860	\$42,760,385
Vehicle Fires (Mobile Properties)	# of Incidents	223	207	248	212	276	1,166
	Dollar Loss	\$1,633,428	\$598,950	\$445,336	\$305,092	\$908,468	\$3,891,274
Natural Vegetation Fires	# of Incidents	507	615	446	523	551	2,642
	Dollar Loss	\$32,006	\$15,400	\$728,752	\$26,002	\$46,100	\$848,260
Fixed Mobile Property Fires	# of Incidents	22	20	17	23	24	106
	Dollar Loss	\$119,650	\$134,250	\$21,600	\$100,250	\$213,600	\$589,350
Outside Rubbish Fires	# of Incidents	324	338	373	376	440	1,851
	Dollar Loss	\$252,860	\$5,000	\$11,750	\$6,650	\$16,102	\$292,362
Fire, Other	# of Incidents	73	80	80	82	141	456
	Dollar Loss	\$5,000	\$32,600	\$6,950	\$50,700	\$30,029	\$125,279
Cultivated Vegetation Fires	# of Incidents	8	7	12	7	8	42
	Dollar Loss	\$72,000	\$0	\$0	\$0	\$0	\$72,000
Outside Storage & Equipment Fires	# of Incidents	66	74	47	71	73	331
	Dollar Loss	\$3,850	\$25,500	\$3,800	\$3,780	\$9,500	\$46,430
Total # of Incidents		1,766	1,905	1,813	1,886	2,064	9,434
Total Dollar Loss		\$8,346,719	\$9,631,124	\$9,935,146	\$8,077,692	\$12,634,659	\$48,625,340

2014 – 2018 Structure Fires by Type (Sorted by Dollar Loss)

Structure Fires (including confined fires)		2014	2015	2016	2017	2018	5-Year Total
Building Fires	# of Incidents	316	302	323	315	320	1,576
	Dollar Loss	\$6,194,475	\$8,774,349	\$8,682,908	\$7,511,378	\$10,371,245	\$41,534,355
Fires in Structures Other Than in a Building	# of Incidents	22	15	24	22	17	100
	Dollar Loss	\$3,660	\$15,300	\$14,800	\$52,500	\$1,009,775	\$1,096,035
Cooking Fire, Confined to Container	# of Incidents	89	134	135	149	106	613
	Dollar Loss	\$4,970	\$20,125	\$15,525	\$11,585	\$12,570	\$64,775
Chimney or Flue Fire, Confined	# of Incidents	72	64	49	60	57	302
	Dollar Loss	\$19,220	\$2,150	\$700	\$8,200	\$11,600	\$41,870
Fuel Burner/Boiler Malfunction, Fire Confined	# of Incidents	10	10	5	8	9	42
	Dollar Loss	\$5,100	\$7,000	\$1,000	\$1,500	\$0	\$14,600
Trash or Rubbish Fire, Contained	# of Incidents	33	35	49	36	38	191
	Dollar Loss	\$500	\$150	\$1,025	\$55	\$2,670	\$4,400
Incinerator Overload or Malfunction, Fire Confined	# of Incidents	0	4	4	0	3	11
	Dollar Loss	\$0	\$350	\$1,000	\$0	\$3,000	\$4,350
Commercial Compactor Fire, Confined	# of Incidents	1	0	1	2	1	5
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		543	564	590	592	551	2,840
Total Dollar Loss		\$6,227,925	\$8,819,424	\$8,716,958	\$7,585,218	\$11,410,860	\$42,760,385

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

Property Use Category		2014	2015	2016	2017	2018	5-Year Total
Residential	# of Incidents	747	803	797	815	887	4,049
	Dollar Loss	\$5,832,067	\$5,472,624	\$6,630,908	\$6,290,034	\$9,052,255	\$33,277,888
Outside or Special Properties	# of Incidents	722	827	742	750	843	3,884
	Dollar Loss	\$1,360,992	\$928,450	\$871,209	\$207,419	\$1,624,020	\$4,992,090
Storage	# of Incidents	60	48	60	64	48	280
	Dollar Loss	\$423,300	\$569,200	\$1,011,950	\$907,779	\$449,654	\$3,361,883
Health Care, Detention, & Corrections	# of Incidents	10	16	13	11	17	67
	Dollar Loss	\$5,250	\$2,215,000	\$1,000	\$0	\$2,200	\$2,223,450
Assembly	# of Incidents	21	38	32	33	29	153
	Dollar Loss	\$50,000	\$53,350	\$657,979	\$169,610	\$1,079,200	\$2,010,139
Mercantile & Business	# of Incidents	55	45	64	58	71	293
	Dollar Loss	\$273,510	\$151,000	\$632,100	\$413,280	\$95,600	\$1,565,490
Educational Uses	# of Incidents	21	12	18	16	17	84
	Dollar Loss	\$259,600	\$15,000	\$103,000	\$5,720	\$8,530	\$391,850
Manufacturing & Processing	# of Incidents	13	16	11	20	26	86
	Dollar Loss	\$17,000	\$210,000	\$500	\$14,800	\$93,000	\$335,300
Other Property Uses	# of Incidents	36	27	23	32	38	156
	Dollar Loss	\$500	\$16,500	\$25,000	\$32,500	\$184,600	\$259,100
Industrial, Utility, Defense, Agriculture, & Mining	# of Incidents	69	62	31	34	51	247
	Dollar Loss	\$74,500	\$0	\$1,500	\$36,550	\$34,000	\$146,550
None	# of Incidents	3	7	6	4	18	38
	Dollar Loss	\$50,000	\$0	\$0	\$0	\$11,600	\$61,600
Undetermined	# of Incidents	3	3	0	7	7	20
	Dollar Loss	\$0	\$0	\$0	\$0	\$0	\$0
Total # of Incidents		1,760	1,904	1,797	1,844	2,052	9,357
Total Dollar Loss		\$8,346,719	\$9,631,124	\$9,935,146	\$8,077,692	\$12,634,659	\$48,625,340

Area of Origin by Category		2014	2015	2016	2017	2018	5-Year Total
Structural Areas	# of Incidents	101	103	98	86	102	490
	Dollar Loss	\$1,575,700	\$4,182,350	\$2,159,892	\$1,912,975	\$2,092,020	\$11,922,937
Functional Areas	# of Incidents	150	110	146	142	129	677
	Dollar Loss	\$1,749,760	\$1,397,545	\$2,687,436	\$1,139,245	\$1,563,600	\$8,537,586
Undetermined	# of Incidents	122	180	169	156	221	848
	Dollar Loss	\$814,100	\$426,325	\$1,549,400	\$922,629	\$2,566,510	\$6,278,964
Storage Areas	# of Incidents	50	52	58	64	52	276
	Dollar Loss	\$1,233,075	\$685,400	\$988,250	\$1,770,094	\$1,589,777	\$6,266,596
Vehicle Areas	# of Incidents	190	191	202	203	233	1,019
	Dollar Loss	\$1,519,528	\$426,550	\$424,036	\$612,892	\$1,159,808	\$4,142,814
Areas of Groups of People (Assembly)	# of Incidents	19	17	12	12	20	80
	Dollar Loss	\$538,220	\$284,100	\$260,880	\$383,120	\$2,462,396	\$3,928,716
Outside Areas	# of Incidents	458	463	335	395	443	2,094
	Dollar Loss	\$456,050	\$786,704	\$1,263,950	\$712,180	\$264,302	\$3,483,186
Service or Equipment Areas	# of Incidents	27	24	20	20	34	125
	Dollar Loss	\$86,800	\$328,350	\$328,850	\$133,550	\$820,750	\$1,698,300
Other Areas of Origin	# of Incidents	34	29	43	39	71	216
	Dollar Loss	\$47,100	\$275,100	\$86,500	\$391,800	\$25,954	\$826,454
Means of Egress/Exit Access/Exit Areas	# of Incidents	13	14	14	16	13	70
	Dollar Loss	\$24,250	\$501,150	\$147,950	\$62,150	\$43,100	\$778,600
Technical Processing Areas	# of Incidents	4	4	3	4	4	19
	Dollar Loss	\$19,000	\$20,000	\$2,500	\$2,300	\$0	\$43,800
Total # of Incidents		1,168	1,187	1,100	1,137	1,322	5,914
Total Dollar Loss		\$8,063,583	\$9,313,574	\$9,899,644	\$8,042,935	\$12,588,217	\$47,907,953

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

Heat Source Categories		2014	2015	2016	2017	2018	Grand Total
Undetermined	# of Incidents	462	518	475	505	613	2,573
	Dollar Loss	\$3,311,328	\$3,057,825	\$4,986,605	\$4,034,712	\$7,095,221	\$22,485,691
Operating Equipment	# of Incidents	251	244	235	228	274	1,232
	Dollar Loss	\$1,847,635	\$3,683,245	\$1,439,613	\$1,105,847	\$1,852,170	\$9,928,510
Open Flame or Smoking Material	# of Incidents	142	158	139	150	182	771
	Dollar Loss	\$2,013,200	\$1,050,550	\$998,300	\$1,547,327	\$2,719,296	\$8,328,673
Hot or Smoldering Object	# of Incidents	119	119	128	127	114	607
	Dollar Loss	\$137,620	\$852,000	\$718,196	\$552,049	\$377,060	\$2,636,925
Heat Source Other	# of Incidents	46	37	46	50	62	241
	Dollar Loss	\$216,200	\$473,304	\$88,660	\$427,200	\$9,500	\$1,214,864
Heat Spread from Another Fire	# of Incidents	59	34	31	34	27	185
	Dollar Loss	\$298,100	\$176,650	\$136,300	\$317,200	\$276,270	\$1,204,520
Multiple Heat Sources	# of Incidents	6	4	7	7	2	26
	Dollar Loss	\$36,000	\$1,000	\$1,134,100	\$0	\$0	\$1,171,100
Chemical or Natural	# of Incidents	56	36	21	15	20	148
	Dollar Loss	\$140,000	\$2,000	\$372,870	\$31,000	\$71,500	\$617,370
Explosives and Fireworks	# of Incidents	27	37	18	21	26	129
	Dollar Loss	\$63,500	\$17,000	\$25,000	\$27,600	\$187,200	\$320,300
Total # of Incidents		1,168	1,187	1,100	1,137	1,320	5,912
Total Dollar Loss		\$8,063,583	\$9,313,574	\$9,899,644	\$8,042,935	\$12,588,217	\$47,907,953

Cause of Ignition by Category		2014	2015	2016	2017	2018	5-Year Total
Unintentional	# of Incidents	456	465	439	415	466	2,241
	Dollar Loss	\$2,532,355	\$3,539,095	\$2,692,105	\$2,172,013	\$3,589,426	\$14,524,994
Cause Undetermined After Investigation	# of Incidents	196	230	194	221	220	1,061
	Dollar Loss	\$999,100	\$1,000,450	\$3,048,046	\$2,534,080	\$3,607,577	\$11,189,253
Cause Under Investigation	# of Incidents	109	157	156	171	172	765
	Dollar Loss	\$1,740,300	\$1,245,125	\$1,720,915	\$1,782,052	\$3,076,790	\$9,565,182
Failure of Equipment or Heat Source	# of Incidents	116	115	133	135	158	657
	Dollar Loss	\$870,378	\$2,776,704	\$783,528	\$645,156	\$772,550	\$5,848,316
Intentional	# of Incidents	183	159	151	155	254	902
	Dollar Loss	\$1,652,000	\$738,700	\$931,350	\$871,934	\$1,035,374	\$5,229,358
Cause, Other	# of Incidents	31	13	11	15	24	94
	Dollar Loss	\$148,450	\$12,000	\$723,700	\$37,700	\$502,000	\$1,423,850
Act of Nature	# of Incidents	77	48	16	25	24	190
	Dollar Loss	\$121,000	\$1,500	\$0	\$0	\$0	\$122,500
Total # of Incidents		1,168	1,187	1,100	1,137	1,318	5,910
Total Dollar Loss		\$8,063,583	\$9,313,574	\$9,899,644	\$8,042,935	\$12,583,717	\$47,903,453

Region 9 Incident Reporting Summary for 2018

REGION 9 Incident Reporting Summary		# of Incidents	Exposures	Automatic Aid or Mutual Aid Given	Total Reports	Total Property & Content Loss
Ferry		0	0	0	0	\$0
10D03	Ferry #3/Stevens #8	0	0	0	0	\$0
10D13	Ferry/Okanagan #13, Republic	0	0	0	0	\$0
10D14	Ferry/Okanogan #14	0	0	0	0	\$0
Lincoln		150	0	32	182	\$12,500
22D01	Lincoln #1, Sprague	0	0	0	0	\$0
22D03	Lincoln #3, Odessa	0	0	0	0	\$0
22D04	Lincoln #4, Reardan	105	0	20	125	\$12,500
22D05	Lincoln #5, Davenport	0	0	0	0	\$0
22D07	Lincoln #7, Wilbur	0	0	0	0	\$0
22D08	Lincoln #8, Almira	45	0	12	57	\$0
22D09	Lincoln #9, Grand Coulee	0	0	0	0	\$0
22M01	Almira Fire Department	0	0	0	0	\$0
22M02	Creston Fire Department	0	0	0	0	\$0
22M03	Davenport Fire Department	0	0	0	0	\$0
22M05	Odessa Fire Department	0	0	0	0	\$0
22M08	Wilbur Fire Department	0	0	0	0	\$0
Pend Oreille		500	0	187	687	\$100,000
26D02	Pend Oreille #2, lone	6	0	0	6	\$87,000
26D03	Pend Oreille #3, S Pend Oreill	346	0	80	426	\$3,000
26D04	Pend Oreille #4	0	0	0	0	\$0
26D05	Pend Oreille #5, Locke- Ruby	0	0	0	0	\$0
26D06	Pend Oreille #6	65	0	42	107	\$0
26D08	Pend Oreille #8	0	0	0	0	\$0
26M02	lone Fire Department	0	0	0	0	\$0
26M03	Metaline Fire Department	0	0	0	0	\$0
26M04	Metaline Falls Fire Department	0	0	0	0	\$0
26M05	Newport Fire Department	22	0	1	23	\$10,000
26X04	Kalispel Tribal Public Safety	61	0	64	125	\$0

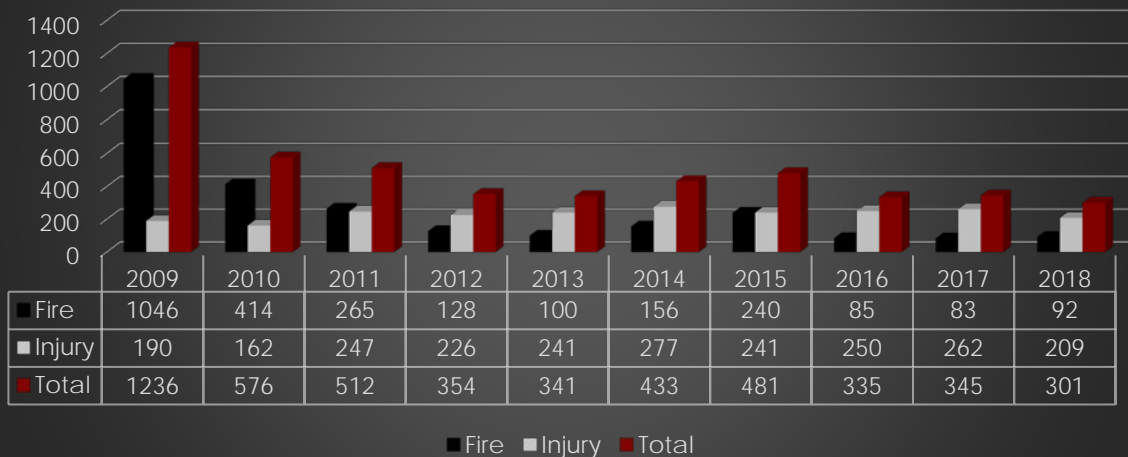
Region 9 Incident Reporting Summary for 2018 (Continued)

Spokane		58,475	5	4,088	62,568	\$14,423,164
32D01	Spokane #1, Spokane Valley	3,909	0	164	4,073	\$2,279,838
32D02	Spokane #2, Fairfield	43	0	17	60	\$65,000
32D03	Spokane #3, Spokane	1,612	0	158	1,770	\$0
32D04	Spokane #4, Deer Park	3,224	0	115	3,339	\$1,506,002
32D05	Spokane #5, Nine Mile Falls	83	0	5	88	\$0
32D08	Spokane #8, Valleyford	1,839	0	1,166	3,005	\$2,285,042
32D09	Spokane #9, Mead	3,800	3	1,450	5,253	\$1,006,020
32D10	Spokane #10	967	0	156	1,123	\$276,025
32D11	Spokane #11, Rockford	59	0	12	71	\$0
32D12	Spokane #12, Latah/Waverly	0	0	0	0	\$0
32D13	Spokane #13, Newman Lake	103	0	2	105	\$0
32M01	Airway Heights Fire Department	1,810	0	24	1,834	\$30,500
32M02	Cheney Fire Department	1,478	0	30	1,508	\$13,150
32M06	Medical Lake Fire Department	658	0	44	702	\$6,500
32M10	Spokane Fire Department	38,890	2	745	39,637	\$6,955,087
32S03	Spokane Tribal Fire Department	0	0	0	0	\$0
Stevens		2,360	0	182	2,542	\$1,637,900
33D01	Stevens #1, Springdale	1,332	0	27	1,359	\$188,400
33D02	Stevens #2, Hunters	0	0	0	0	\$0
33D03	Stevens #3, Colville	0	0	0	0	\$0
33D04	Stevens #4, Valley	379	0	32	411	\$317,000
33D05	Stevens #5, Addy	224	0	4	228	\$119,000
33D06	Stevens #6, Kettle Falls	0	0	0	0	\$0
33D07	Stevens #7, Arden	99	0	84	183	\$412,500
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, Northport	28	0	0	28	\$0
33D12	Stevens #12, Rice/Daisy/Gifford	56	0	0	56	\$314,000
33D13	Stevens #13, Evans	43	0	6	49	\$0
33M01	Chewelah Fire Department	0	0	0	0	\$0
33M02	Colville Fire Department	103	0	14	117	\$287,000
33M03	Kettle Falls Fire Department	96	0	15	111	\$0
33M04	Marcus Fire Department	0	0	0	0	\$0
33M05	Northport Fire Department	0	0	0	0	\$0
REGION 9 Totals		61,485	5	4,489	65,979	\$16,173,564

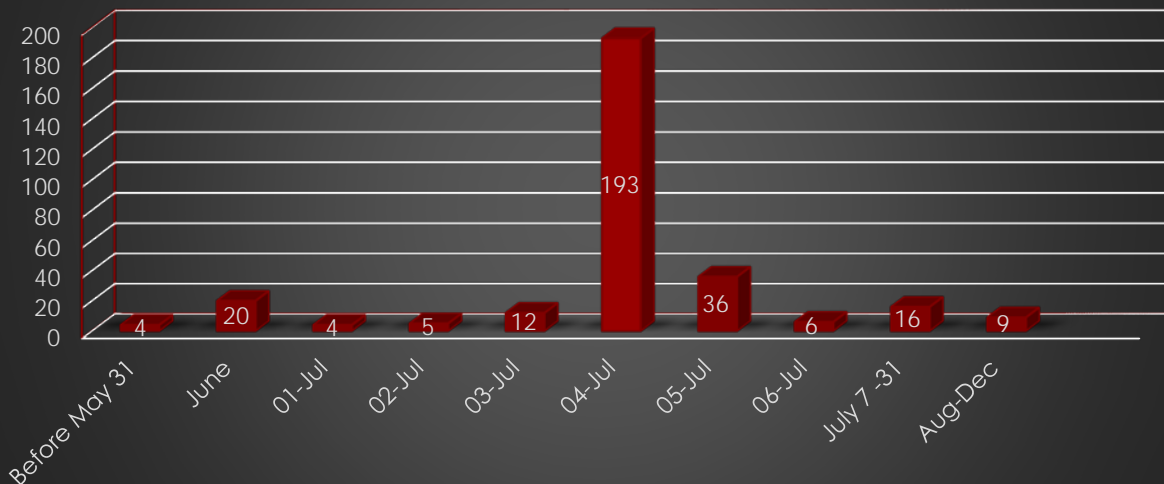
2018 FIREWORKS REPORT

There were 301 fireworks-related injuries and/or fires reported to the SFMO in 2018, by fire departments and hospital emergency rooms. This is a 13% reduction from the previous year's total of 345. Of the 301 reports received, there were 92 fires and 209 injuries. These incidents resulted in \$161,475 in property loss. This data was collected on paper reports from individual fire departments and hospitals and is supplemented by the NFIRS database. Fireworks-related incidents most often occur on July 4th. This has remained constant over the past ten years.

Ten Year Trend Fireworks Incidents



Incidents by Date



Fires by Device Type

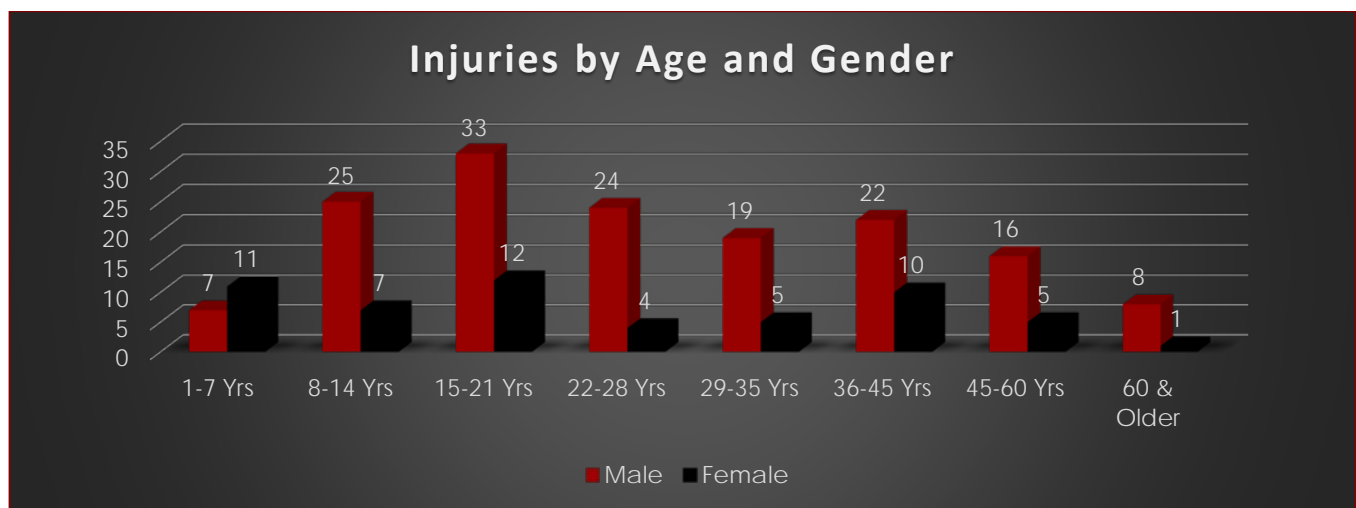
In 2018, fireworks-related fire caused an estimated loss of \$161, 475. Illegal and unknown type fireworks were identified as the cause in 66 of the 92 reported fires and caused \$35,725 of the estimated dollar loss. Legal fireworks were identified in 27 of the reported fires and accounted for approximately \$125,650 of the total loss.

Fires by Classification of Fireworks Device								
Property Type	Dollar Loss				Number of Fires			
	Illegal	Legal	Unknown	Total	Illegal	Legal	Unknown	Total
Commercial	\$0	\$0	\$500	\$500	0	0	2	2
Residential Structure	\$100	\$80,000	\$32,000	\$112,100	1	2	3	6
School	\$0	\$0	\$100	\$100	0	1	0	1
Vehicle	\$0	\$0	\$0	\$0	0	0	1	0
Wildland or Vegetation	\$1,125	\$45,650	\$1,900	\$48,675	8	19	44	71
None	\$0	\$0	\$0	\$0	0	0	0	0
Undetermined	\$0	\$100	\$000	\$100	1	5	6	12
Total	\$1,225	\$125,650	\$34,500	\$161,475	10	27	56	92

Wildland fires accounted for the largest number of fires at 71, or 77% and approximately 30% of the fire loss. Residential structure fires accounted for 6% of the fires and largest amount of fire loss at 69%. Undetermined, commercial, schools, and vehicle fires accounted for 16% of the total fires and less than one hundredth of a percent of the fire loss.

Fireworks Injuries – Age and Gender

Fireworks-related injuries by age and gender show that male youth and young adults are most often injured. The lack of supervision of young children was a factor indicated in 29% of the incidents where supervision was known. According to the Center for Disease Control, children are 11 times more likely to be injured by fireworks when they are unsupervised.



Fireworks Injuries – Legal Fireworks Classification

The leading types of injuries reported were trauma at 44% and burns at 43% of the total, accounting for 87% of the total. Traumatic injuries consisting of at least two injuries to different areas of the body occurred in 93% of the total.

Legal fireworks were the leading class causing 133 injury incidents, or 64%. Illegal fireworks were responsible for 35 incidents, or 17%. Unknown fireworks type accounted for 41 incidents or 19%.

Injuries by Legal Classification of Fireworks									
Type of Injury					Place Injured				
	Illegal	Legal	Unknown	Total		Illegal	Legal	Unknown	Total
Vision/Hearing Loss	0	0	3	3	Chest	0	0	1	1
Amputation	2	8	2	12	Hand/Arm/Fingers	17	59	16	92
First Degree Burn	3	26	3	32	Head or Face	4	28	12	44
Second Degree Burn	5	39	8	52	Leg or Foot	2	17	5	24
Third Degree Burn	0	1	1	2	Multiple Locations	9	22	6	37
Trauma	21	45	22	88	Torso / Hip	2	3	3	8
Unknown	1	6	2	9	Unknown	0	1	2	2
Grand Total	32	125	41	198	Grand Total	34	130	45	209

Fireworks Injuries – Device Type

Of the 133 incidents involving legal devices, multi-aerials caused 45%, followed by sparklers at 14%. Illegal devices causing injuries include Public Display Mortars at 26% and M-80s at 23%.

The leading cause of fireworks-related injuries is “Hit by Debris” at 43% and “Holding fireworks in hands” at 42%.

Injuries by Type of Device					Cause of Injury	
	Illegal	Legal	Unknown	Total		
Altered Fireworks	3	0	0	3	Duds-relighting or handling	17
Bottle Rockets	2	2	0	4	Holding fireworks in hands	88
Cones and Fountains	0	3	0	3	Leaning over fireworks	4
Firecrackers and Chasers	5	1	0	6	Tampering with fireworks	1
Ground and Flying Spinners	0	14	0	14	Hit by debris	89
Homemade Explosive Devices	4	0	0	4	Unsafe surface for lighting	8
M-80s	8	0	0	8	Other	2
Missiles and Rockets	2	0	0	2	Grand Total	209
Multi-Aerials	0	60	0	60		
Novelties	0	8	2	10		
Public Display Mortars	9	0	0	9		
Roman Candles	0	17	0	17		
Smoke Items	1	5	0	6		
Sparklers	0	19	0	19		
Unknown	1	4	39	44		
Grand Total	35	133	41	209		

The chart below provides a summary of the reports received in 2018 by county and agency type:

County	Fire Department			Fire District			Hospital		Grand
	Fire	Injury	Total	Fire	Injury	Total	Injury	Total	Total
Adams	0	0	0	0	0	0	0	0	0
Asotin	2	0	2	0	0	0	3	3	5
Benton	0	0	0	0	0	0	3	3	3
Chelan	0	0	0	0	0	0	0	0	0
Clallam	0	0	0	0	0	0	1	1	1
Clark	0	0	0	4	0	4	14	14	18
Columbia	0	0	0	0	0	0	0	0	0
Cowlitz	0	0	0	1	0	1	4	4	5
Douglas	0	0	0	0	0	0	0	0	0
Franklin	0	0	0	0	0	0	0	0	0
Grant	0	0	0	0	0	0	1	1	1
Grays Harbor	0	0	0	1	0	1	6	6	7
Island	0	0	0	2	0	2	2	2	4
Jefferson	0	0	0	0	0	0	1	1	1
King	61	4	65	0	0	0	26	26	91
Kitsap	4	0	4	0	0	0	12	12	16
Kittitas	0	0	0	4	0	4	0	0	4
Klickitat	0	0	0	0	0	0	0	0	0
Lewis	0	0	0	0	0	0	4	4	4
Mason	0	0	0	0	0	0	4	4	4
Multnomah	0	0	0	0	0	0	1	1	1
Okanogan	0	0	0	0	0	0	1	1	1
Pacific	0	0	0	0	0	0	3	3	3
Pierce	8	0	8	0	0	0	47	47	55
San Juan	0	0	0	0	0	0	0	0	0
Skagit	0	0	0	0	0	0	5	5	5
Skamania	0	0	0	0	0	0	1	1	1
Snohomish	1	0	1	0	0	0	26	26	27
Spokane	0	0	0	0	0	0	3	3	3
Stevens	0	0	0	0	0	0	1	1	1
Thurston	0	0	0	2	0	2	1	1	3
Walla Walla	0	0	0	0	0	0	0	0	0
Whatcom	0	0	0	1	0	1	14	14	15
Whitman	3	0	3	0	0	0	1	1	4
Yakima	1	0	1	1	0	1	3	3	5
Grand Total	80	4	84	16	0	16	188	188	298