



ANNUAL REPORT

2022

Proudly serving the City of Snoqualmie, Echo Glen Children's Center and the Upper Snoqualmie Valley through Mutual Aid Agreements.

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SNOQUALMIE FIRE DEPARTMENT ANNUAL REPORT

Message from the Fire Chief

It is with great pride that I present the 2022 Fire Department Annual Report. The following is a culmination displaying the outstanding work performed by the firefighters and administrative staff within the department. All fire department staff are committed to providing the highest level of service to the community and anyone we respond to or interact with.

This year was another exciting year for the Department. First and foremost, the firefighters responded to over 1,632 incidents – an 18% increase from the previous year. The growth within the community and the upper Snoqualmie Valley has increased the demand for service and required us to respond to more and more incidents. In 2020, many departments - including Snoqualmie - saw a decrease in incident volume. This was likely caused by the Governor's Orders associated with the Covid-19 pandemic. In 2022, Snoqualmie responded to the most incidents in its entire history.

The Firefighters continue to pursue excellence and remain in the top 1% of all fire departments in the world. In 2022, the Department maintained its Accredited Status with the Center for Public Safety Excellence. This effort is not an easy feat, but the organization is committed to providing the highest levels of service to those we serve and there is no better way to prove this than retaining our accredited status.

In 2022, firefighters trained over 4,360.5 hours, a slight decrease from the previous year. They also provided public education and community risk reducing events reaching 490 people. Moreover, 16 Volunteer Firefighter/ EMS providers gave 4,360.5 hours of service with an equivalent cost benefit to the City of \$244,103.04.

Also in 2022, the Department experienced some retirements and separations that were remarkable. The Department had three firefighters and the Administrative Assistant resign or retire from the organization. Although we are very happy for these members, it did add additional challenges to navigate. Fortunately, by the end of the year testing for these vacancies was completed and the Department was fully staffed.

Lastly, in 2022, the Department had its Washington State Rating Bureau (WSRB) evaluation. The WSRB performs an evaluation that is used to create a score that drives insurance rates for our customers. I am proud to say that the Department has maintained our rating of 4, and the Department has begun making changes in hopes of reaching a Rating of 3 during the next evaluation.

On behalf of all the firefighters and emergency responders, please accept our appreciation for another remarkable year. It has been a pleasure serving all of you.

Sincerely,



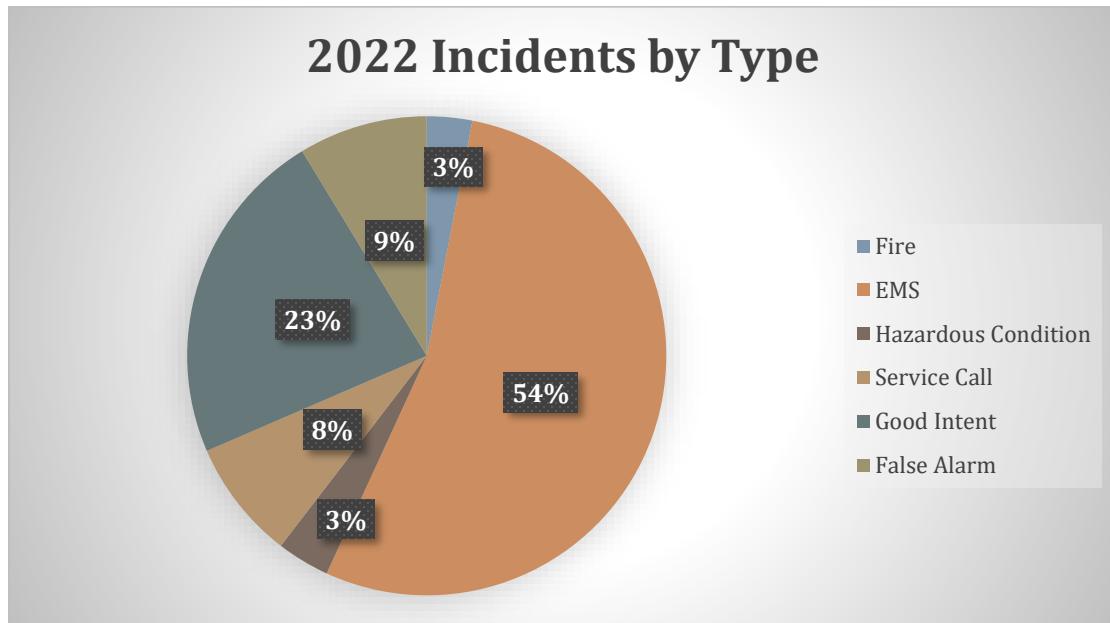
Mark Correira
Fire Chief



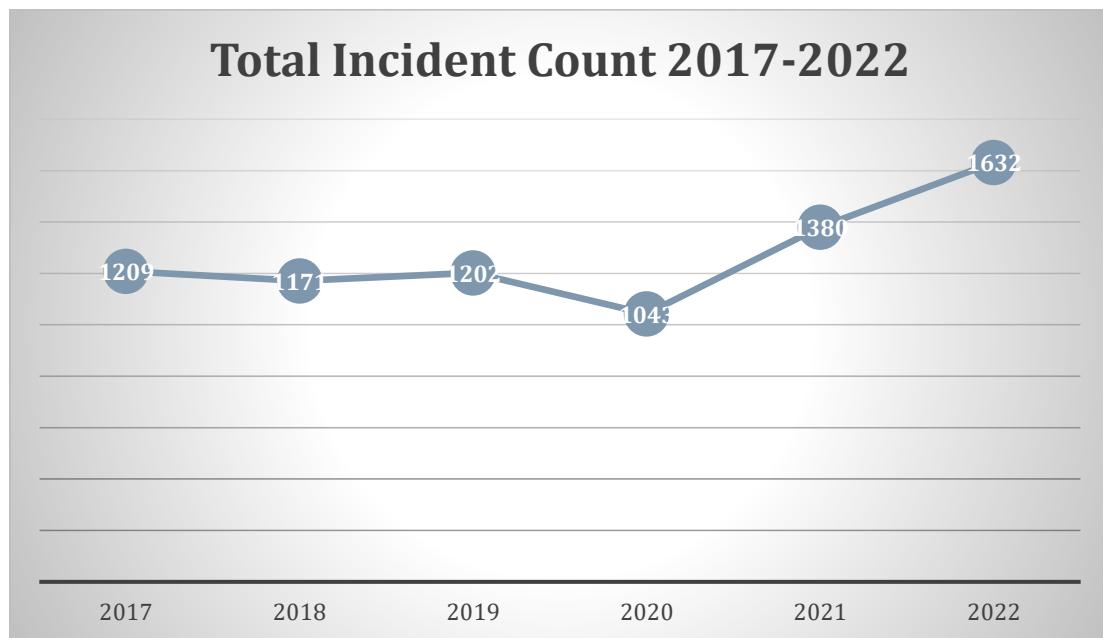
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Fire Department Responses

The Fire Department responded to 1,632 incidents in 2022. Fifty-four (54%) of all incidents were for emergency medical services. The chart below breaks out these incidents by type.

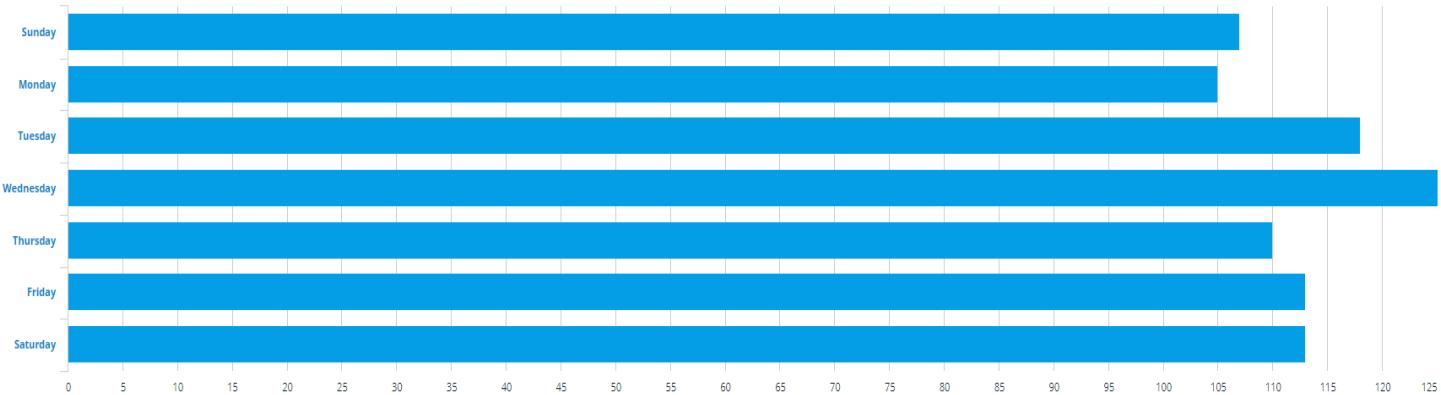


The fire department saw a 18% increase in incident volume from the previous year. The chart below trends incident volumes from 2017-2022.

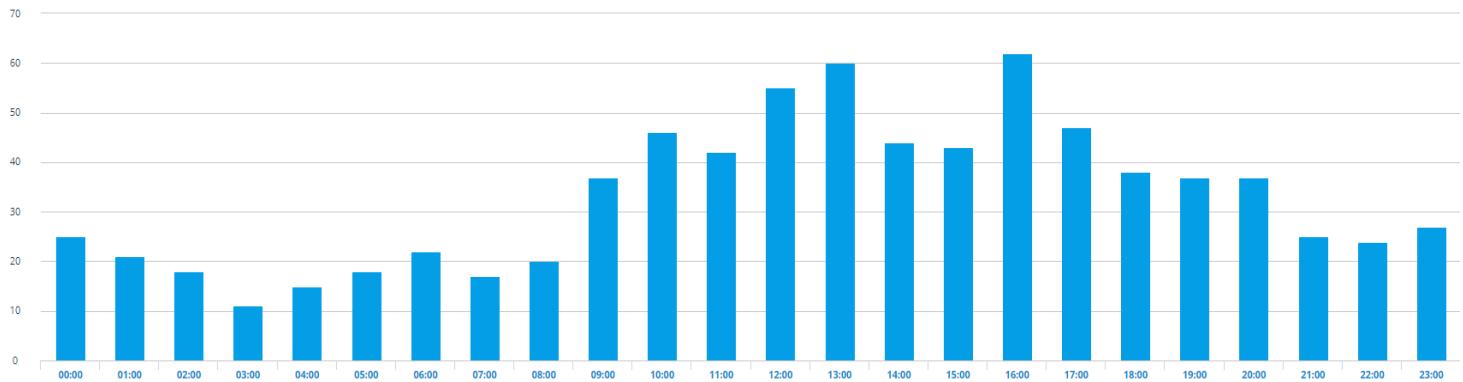


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Incident volumes are consistent throughout the week with most incidents occurring on Sunday, and the least on Monday. The chart below shows incident volumes by the day of the week.



Incident volumes vary by time of the day with the peak-time being between the hours of 12PM and 5PM, and the valley-hours between 12AM and 5AM. The following chart shows incidents by the time of the day.



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Response Times

For 2022, the average total response time for the first arriving unit to the scene of an incident is 6 minutes, 52 sec. As an accredited agency, the Department is required to measure response times and effective response force (ERF) for fire, EMS and other categories. The following charts shows the Department's performance for Fire (low risk) and EMS (moderate risk). These two categories were chosen as they make up the supermajority of all the incidents the Fire Department responded to in 2022. Response time data for the other categories can be found in the Department's 2022 Annual Compliance Report: <https://www.snoqualmiewa.gov/581/Reference-Documents> .

Fire Response

(Low Risk) Fire Suppression - 90th Percentile Times - Baseline Performance			Benchmark (Target)	2018-2022	2022	2021	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban		1:53	1:40	1:30	2:00	2:21	1:57
		Rural		2:34	NRI	2:34	n/a	n/a	n/a
Turnout Time	Turnout Time 1st Unit	Urban		1:52	1:48	1:46	2:11	1:35	2:01
		Rural		1:39	NRI	1:39	n/a	n/a	n/a
Travel Time	Travel Time 1st Unit Distribution	Urban		7:58	10:05	8:09	7:39	7:15	6:44
		Rural		10:14	NRI	10:14	n/a	n/a	n/a
	Travel Time ERF Concentration	Urban		7:58	10:05	8:09	7:39	7:15	6:44
		Rural		10:14	NRI	10:14	n/a	n/a	n/a
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	8:00	9:54	11:49	10:44	9:51	8:02	9:05
				n=388	n=62	n=100	n=45	n=89	n=92
		Rural		12:04	NRI	12:04	n/a	n/a	n/a
	Total Response Time ERF Concentration			n=12	n=0	n=12	n/a	n/a	n/a
		Urban	8:00	9:54	11:49	10:44	9:51	8:02	9:05
				n=388	n=62	n=100	n=45	n=89	n=92
		Rural		12:04	NRI	12:04	n/a	n/a	n/a
				n=12	n=0	n=12	n/a	n/a	n/a

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EMS

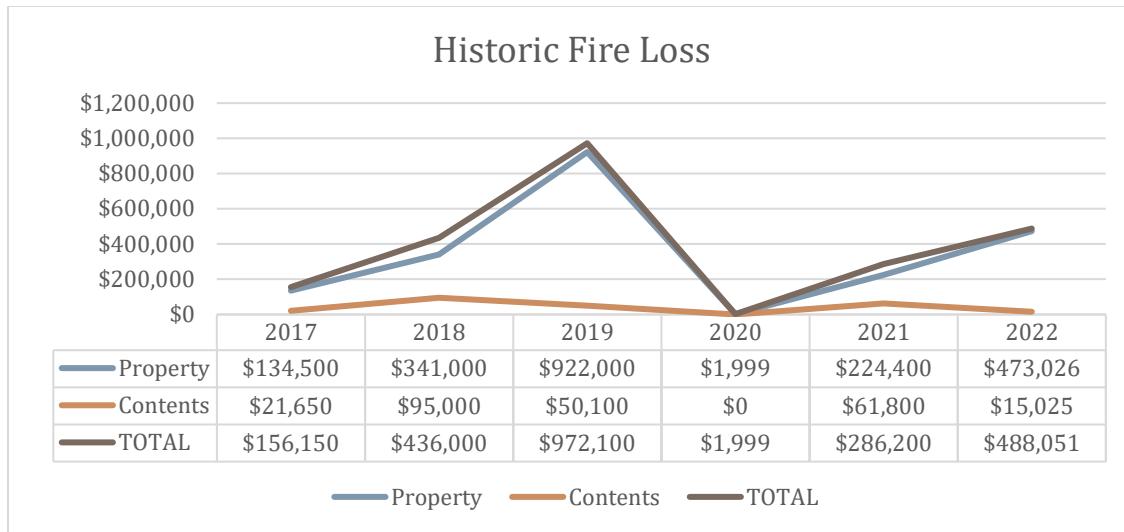
(Moderate Risk) EMS - 90th Percentile Times - Baseline Performance			Benchmark (Target)	2018-2022	2022	2021	2020	2019	2018
Alarm Handling	Pick-up to Dispatch	Urban		1:34	1:42	1:34	1:43	1:14	1:41
		Rural		2:06	2:25	1:47	n/a	n/a	n/a
Turnout Time	Turnout Time 1st Unit	Urban		1:36	1:34	1:30	1:48	1:30	1:39
		Rural		1:22	1:29	1:16	n/a	n/a	n/a
Travel Time	Travel Time 1st Unit Distribution	Urban		7:57	9:22	7:26	9:21	6:38	6:58
		Rural		11:30	12:35	10:25	n/a	n/a	n/a
	Travel Time ERF Concentration	Urban		7:57	9:22	7:26	9:21	6:38	6:58
		Rural		11:30	12:35	10:25	n/a	n/a	n/a
Total Response Time	Total Response Time 1st Unit on Scene Distribution	Urban	8:00	9:51	11:26	9:42	11:06	7:57	9:06
				n=1407	n=332	n=255	n=259	n=298	n=263
		Rural		13:58	15:24	12:32	n/a	n/a	n/a
	Total Response Time ERF Concentration	Urban	8:00	n=29	n=13	n=16	n/a	n/a	n/a
				9:51	11:26	9:42	11:06	7:57	9:06
		Rural		n=1409	n=334	n=255	n=259	n=298	n=263
				13:58	15:24	12:32	n/a	n/a	n/a
				n=29	n=13	n=16	n/a	n/a	n/a

Property Loss Charts

For reporting purposes, fire loss is broken into two categories: property and contents. Property describes physical properties such as cars, house, etc. Contents describe items that are not part of the structure but perish in the incident. In recent history, the highest year of property loss occurred in 2019 with a total of \$972,100. The supermajority of this property loss can from a single residential structure fire. 2022's property loss totaled \$488,051.

The following chart compares the annual fire loss by year:

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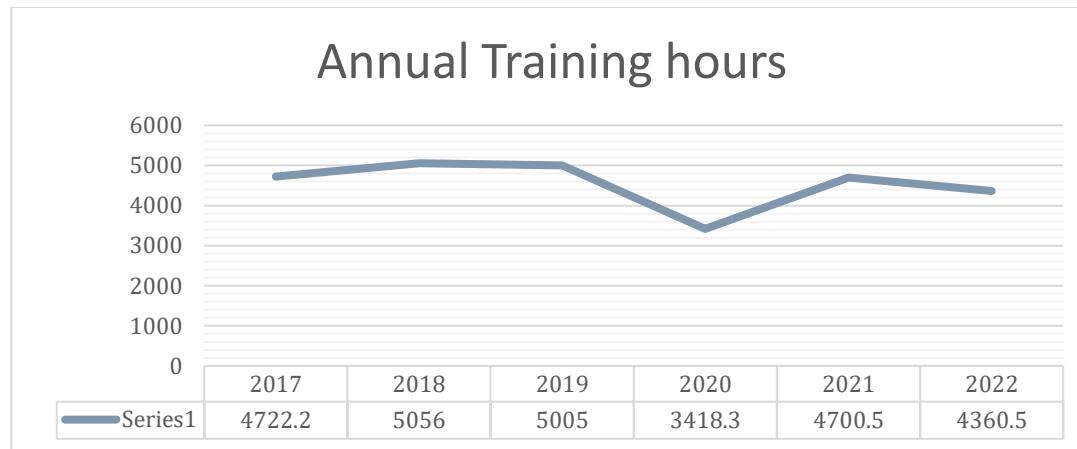
In 2022, over \$31 million in property was at risk because of fire incidents. Total property loss for this same time period was \$473,026,400, or 1.5%.



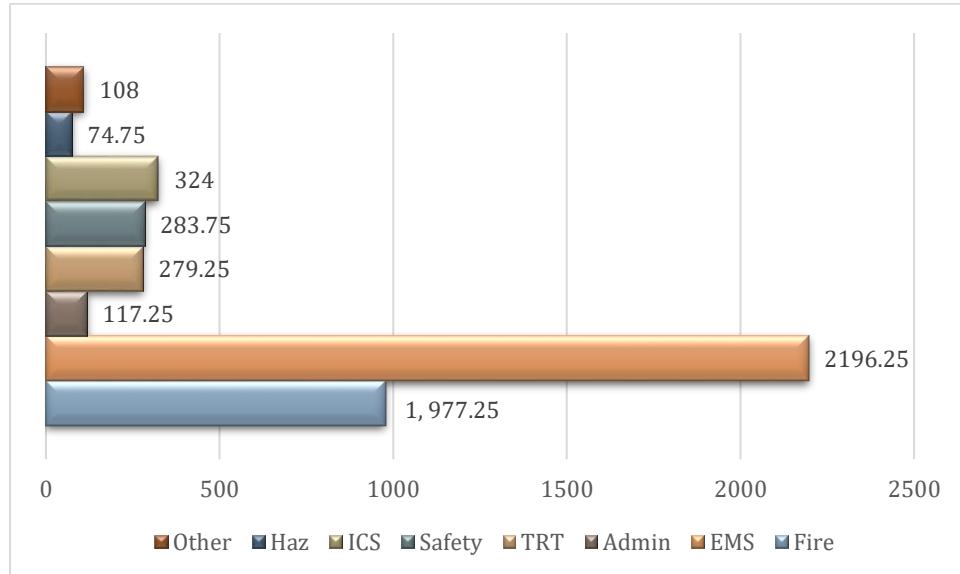
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Fire Department Training

The Fire Department trained for 4,360 hours in 2022, a decrease of 340 hours from the previous year. In 2020 there was a drop in training hours as the Department transitioned to a new training consortium, learning management system, and tracking tool which doesn't track some training activity that had been tracked in the previous system. Training hours returned to a more normal level as seen in 2017 through 2019. The following chart displays this data point:



Training sessions were broken into groups that best fit the type of training being performed. Training types included Fire, EMS, Hazmat (Haz), Technical Rescue (TRT), Administrative (Admin), Safety, and Other. The following chart displays the training by session by hours.

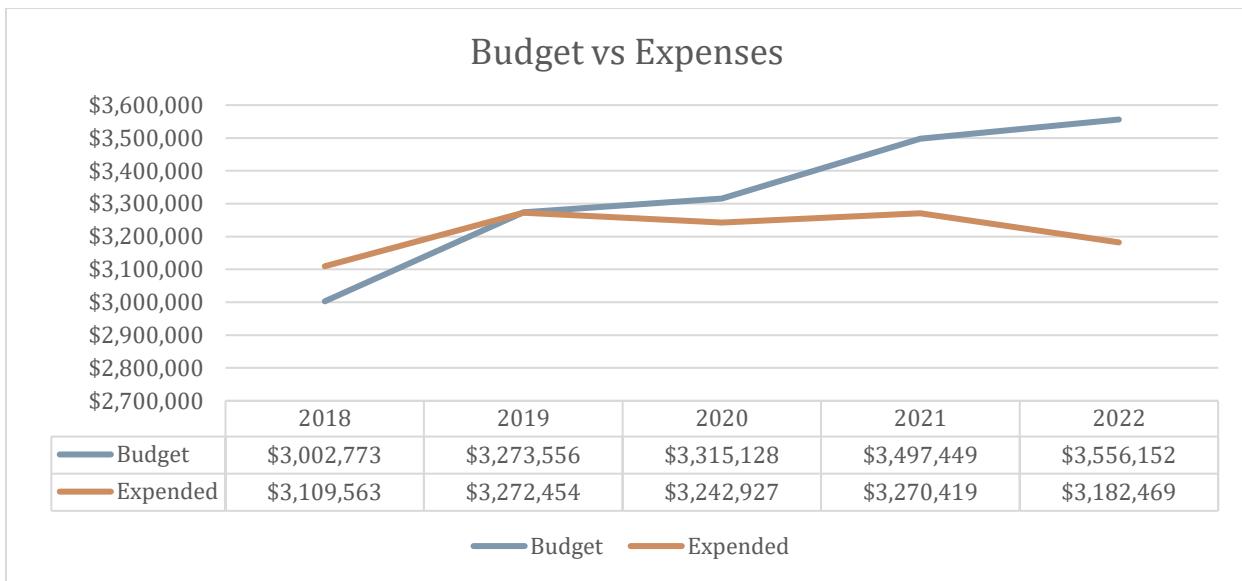


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Fire Department Finances

Budget and Expenses

The 2022 Fire Department Budget* was approved at \$3,556,152: a 1.7% increase from 2021. For this same time period the Department expended \$3,182,469 – underspending it by \$373,683. 2022 marks the end of the biennium (2-year budget) and much of this savings was caused by staffing vacancies.

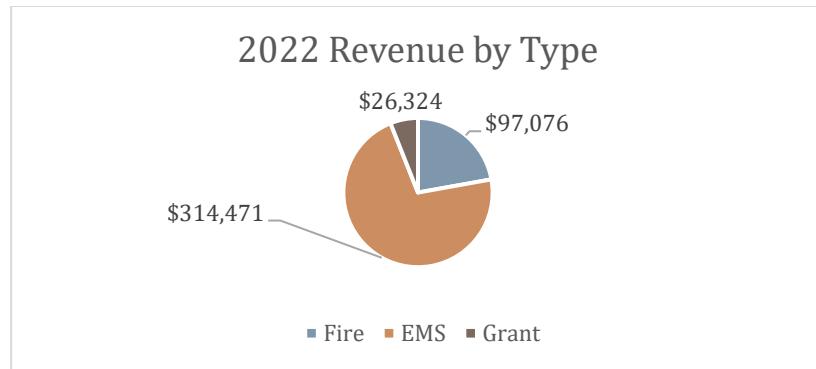


* Fire Department Budget includes Emergency Management Program Budget.

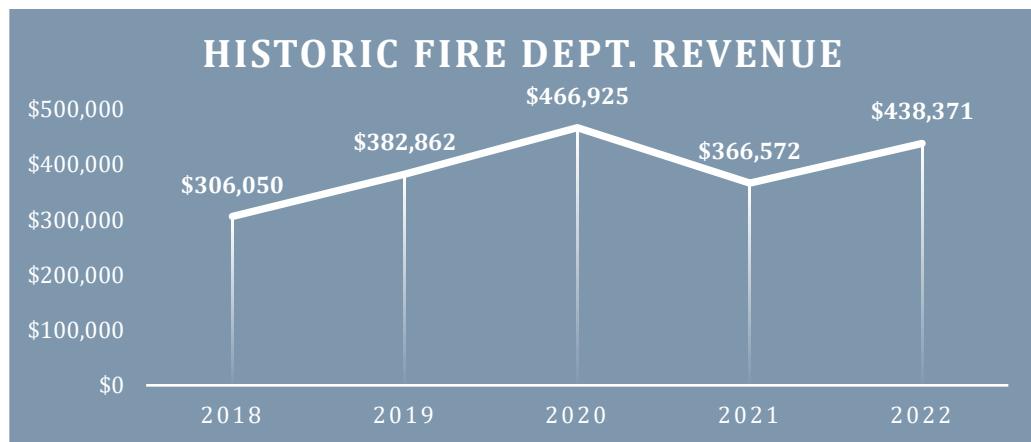
Revenue

The Fire Department generated \$437,871 in revenue in 2022. Fire Department revenue is broken into three categories: fire, EMS and grants. The fire category captures fees generated from fire protection services; grants capture funds received through annual or periodic grants; and EMS revenue comes from EMS transport fees and the King County BLS EMS allocation from the King County. The following chart breaks down the categories and by amount:

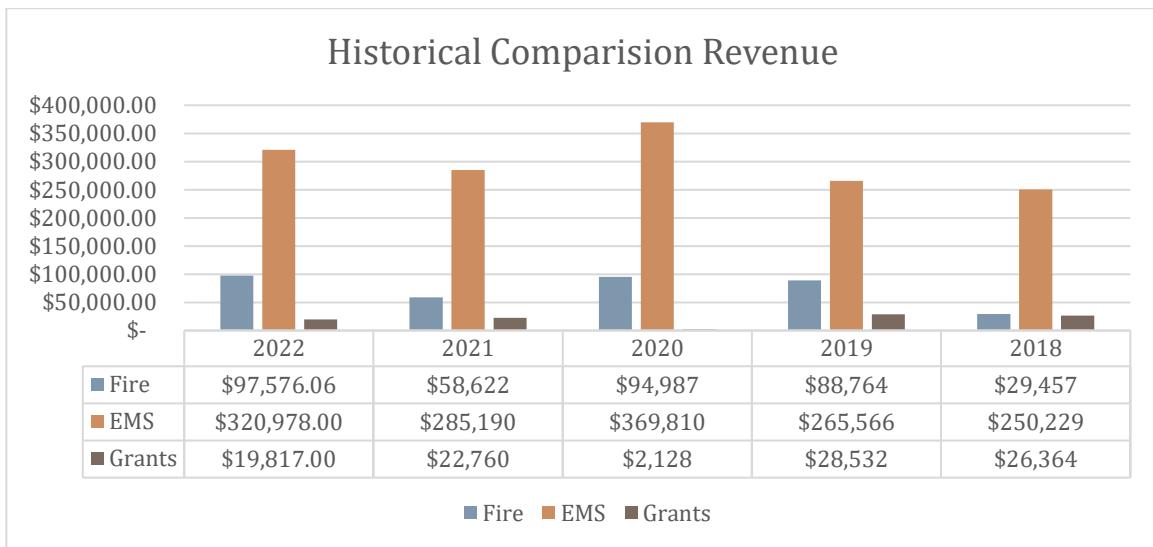
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The fire service revenue has ebbed and flowed over the past seven years. The fluctuations in the chart below were caused by a delayed payment of EMS fees to the City from King County causing two years of payment within the same year. During this year, there was also a decrease in EMS transport fee revenue caused by the global pandemic.



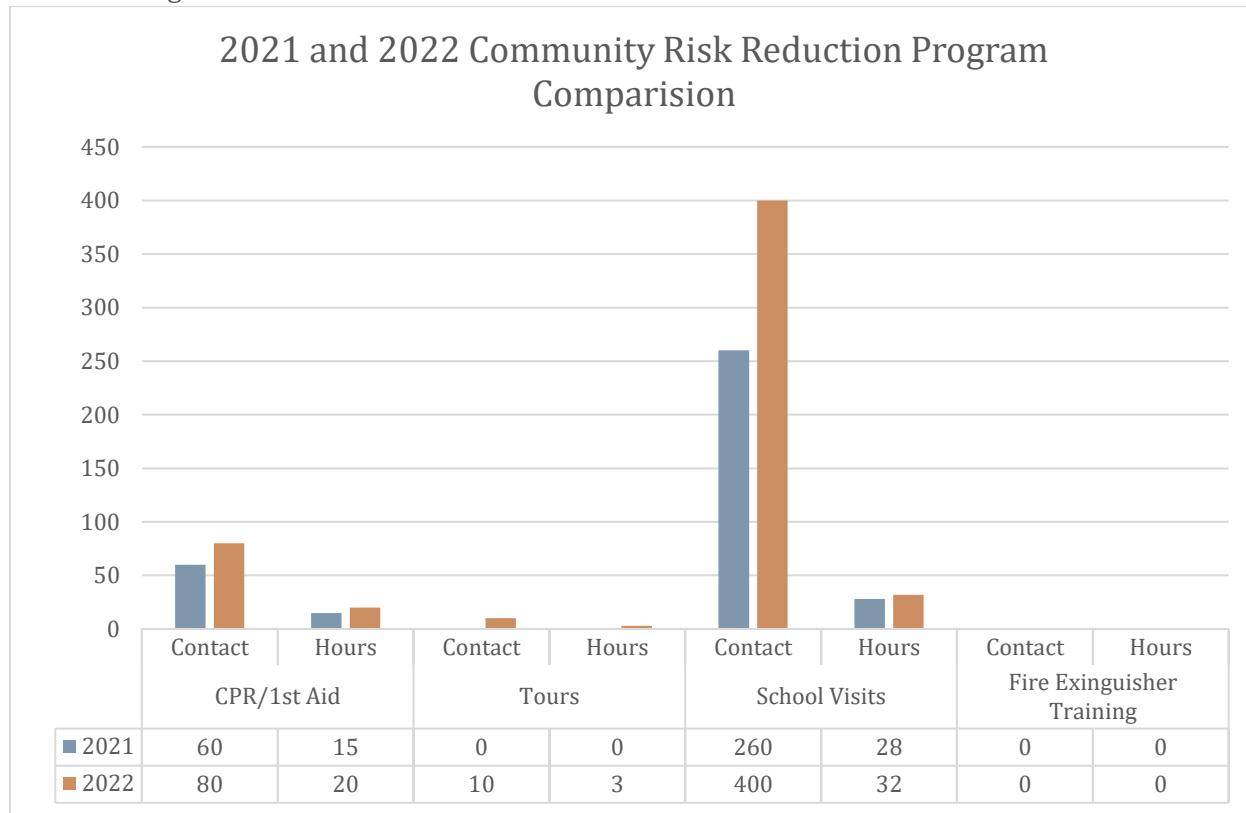
The following chart is a comparison in fire department revenue from 2018 through 2022:



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Community Risk Reduction and Outreach

An ounce of prevention is worth a pound of cure, and if it's predictable – it's preventable. This mantra is why the Department spends a portion of its time investing in community risk reduction programs. Included in these activities are fire safety talks with elementary schools, CPR training, first aid training, school visits to the fire station, fire extinguisher training, high school career shadow programs and community events. In 2022, the department invested 43 hours and reached 320 people. These decreases were caused by the global pandemic with many facilities (like schools) not allowing outside visitors. The following chart breaks out these activities:



In addition to the above activities, the Department also completed two (2) in home safety surveys, attended multiple public outreach events, and stop-the-bleed training to the community.

Fire Inspections

In October of 2017, the department celebrated its first year of the Fire Inspections Program*. Because of the global pandemic, Department operations were focused on limiting interaction with the public. This caused the department to suspend the business inspection program from April 2022 to October 2022. In the final quarter, inspections focused on assembly areas, healthcare, educational and high-risk occupancy. In 2022 and in total, the department inspected over 381 business and found 254 violations.

The following table provides a historical view of the fire inspection program:

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	2022	2021	2020
Completed Business/Building Inspections	381	45	16
Violations	254	0	0

* In 2005, the City returned these inspections to the Building Department.

** The 16 inspections in 2020 were reinspection of violations from 2019.

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Volunteerism

Volunteers play a vital role for the Snoqualmie Fire Department. At the end of 2022, the department had a total of 16 volunteers. Our volunteers provide a variety of services complimenting career staff including filling shifts, teaching CPR classes and various other community outreach activities. In 2022, volunteers provided 3,801 hours of support. By comparison, a career firefighter in a year will complete 2,584 hours of service (not including overtime or call-backs). As such, the combined hours of the volunteers equate to 1.47 FTE career firefighter.

The volunteer hours also demonstrate a financial benefit to the department. Given an average hourly salary of an FTE career firefighter at \$63.33 per hour, the combined volunteer hours reflect a salary savings of \$187,295.10 (not including benefits).

Here is a chart reflecting the cost benefits of the volunteer staff:

Total # of Volunteers	16
Average FTE Hourly Rate	\$63.33
2019 Volunteer Annual Hours	4,698
VOLUNTEER COST BENEFIT SUBTOTAL	\$297,524.34
Volunteer Program Expenses	-\$51,796.00
Uniforms/PPE (5% of total)	-\$1,625.30
TOTAL VOLUNTEER COST BENEFIT	\$244,103.04

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Emergency Management

EOC Activations:

Eleven partial activations in 2022

- January 5 – Winter Storm (snow)
- February 28 – Flooding Threat
- June 4 – Train Derailment (Stone Quarry)
- June 10 – Flooding Threat
- July 21 – Extreme Heat event
- August 15 – Extreme Heat event
- September 7 – High Fire Danger (Red Flag)
- October 13 – High Fire Danger / Poor Air Quality
- November 28 – Winter Storm (snow)
- December 13 - Winter Storm (snow)
- December 28 - Winter Storm (snow)

No full EOC Activation for 2022

Staff time delegated to Emergency Management: 2,080 hours.

Major accomplishment:

Management COVID Pandemic throughout 2022

Supported Community Rating System

Review of Comprehensive Emergency Management Plan



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