



Snohomish County Fire District 7

2015 Annual Alarm Statistical Report

ANNUAL REPORT

In 2005 the Washington state legislature adopted House Bill 1756 in which a predominantly career fire department would be required to provide an annual written report on response times. The bill was later codified as Chapter 52.33 of the Revised Code of Washington.

This report is provided to meet the requirements of that legislation. Prepared in 2015 this report provides the data required for 2014 reporting period. Some time stamps can be inaccurate when transmissions of data fail. We also have limited time stamps for certain units responding that only show the closest full minute instead of seconds. This mostly affects second due apparatus and multiple equipment responses.

Vision

A trusted leader serving the community with a commitment to innovation and improvement.

Value Statement

- We seek feedback and learn and improve from experience.
- We are willing to take risks and make changes in order to improve service.
- We are committed to doing the work, and continuously improving the way work gets done.

Alarm Report

The following represents alarm totals for the District. You will notice that some of the years had substantial increases while others decreased. When averaged annually for 10 years, the district has seen a 2.5% increase in alarm activity each year. It is estimated that the District population continues to grow 5% annually in the past 10 years but call volume has shown no relationship to population increase.

Year	Alarms	Average per day	% Change
2005	4773	13.0	-2.5%
2006	5664	15.5	+18.6%
2007	5285	14.5	-6.7%
2008	5144	14.1	-2.7%
2009	5012	13.7	-2.6%
2010	4775	13.1	-4.7%
2011	4881	13.4	+1.0%
2012	5402	14.8	+10.7%
2013	5608	15.4	+3.8%
2014	5574	15.3	-0.61%
2015	5941	16.3	+6.58%
10 Year Averag 24.5% Increase (2.5% increase annually)			

SERVICE CRITERIA

Turnout time: (The time from receipt of alarm to the time the fire apparatus leaves the fire Station) each fire stations goal turnout time is 90 seconds or less for each call but criteria has been established that acknowledges time needs for dependent on the type of incident responding to.

This criteria is available only for the first unit that responds after dispatch. Other units responding to the same call will have taken longer than the first unit responding. CAD system does not track seconds for other units.

First Arrival Travel Time: (The time measured from the first movement of the apparatus until arrival at the given incident location). The average first arrival response time goal is shown in each category (Highlighted). The incident type is taken into consideration as to the expected response time. Larger fire apparatus will normally take longer than EMS type apparatus.

This criteria is based on the entry into the computer aided dispatch system by MDT and/or dispatchers when voice transmissions are used. The time criteria is posted in seconds for the first arriving unit.

Full Assignment Response Time: (The time measured from the first movement of a responding apparatus until the last assigned unit arrives at the scene). The fire district has established this time period shall be 690 seconds (11 minutes and 30 seconds) 90% of the time. The average full response time goal being 600 seconds (10.0 minutes.) A full response shall include the arrival of a minimum of 13 firefighting personnel.

This criteria is based on the entry into the computer aided dispatch system by MDT or dispatcher. While the data has some inaccuracy it is the best indicator available to the district at this time. The following charts show the times as they are available to this agency and indicate our best attempt at accuracy. It should also be noted that the only alarms analyzed and shown were the alarms within Fire District 7 and alarms that were categorized emergency response. No mutual aid calls or non-emergency response calls were included in the following time charts.

NOTE: Any questions of the contents of this report should be directed to Assistant Chief Eric Andrews eandrews@snofire7.org

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Deficiencies

We see an increase in the first arrival of fire apparatus at a structure fire this year over that of past years. In analyzing the responses it shows that the low numbers of structure fires allows this low abnormal pattern. Listed are the other areas of deficiencies that we continue to work on improvements.

The county has worked on a new computer aided dispatch software solution for the last six years. Finally in October of 2015 that this system was placed in service. We look forward to using the new software for the 2016 report that will be more accurate in showing these measurements

Closing: This report is in response to Chapter 52.33 of the Revised Code of Washington which requires a reporting made available to the public. This report is the best representation of the required reporting contents.

STRUCTURE FIRE		
First fire unit arrival	66.6%	33.4% deficient
First alarm assignment arrival	73.5%	16.5% deficient
WILDLAND FIRE		
First unit arrival	80.0%	10.0% deficient
OTHER FIRE		
Turnout time	86.8%	3.2% deficient
First fire unit arrival	56.5%	43.5% deficient
EMS INCIDENTS		
Basic Life Support arrival	73.3%	16.4% deficient

The response time data shows a mix of improvements and deficiencies. The relatively low call volume in rural areas adds to the complexity of numbers. Significant changes in fire response times will be seen when relatively low numbers are used for these incident types. The EMS calls which make up the vast number of alarms see less swings in times.

Structure Fire			
Turn Out Time	30 Responses		
(=or<) 90 seconds	11	36.7%	
91 to 120 seconds	14	46.7%	83.4%
121 to 132 seconds	1	3.3%	86.7%
133 to 144 seconds	4	13.3%	100%
> 144 seconds	0	0%	
Average Turn Out Time	1 minute 29 seconds		
First Arrival - Structure Fire			
Arrival Time	30 Responses		
(=or<) 300 seconds	9	30%	
301 to 345 seconds	6	19.9%	49.9%
346 to 390 seconds	5	16.7%	66.6%
391 to 435 seconds	5	16.7%	83.3%
> 436 seconds	5	16.7%	100%
Average First Arrival	5 minute 51 seconds		
Full Assignment Arrival - Structure Fire			
Arrival Time	17 Responses		
(=or<) 600 seconds	11	64.7%	
600 to 645 seconds	1	5.8%	70.5%
646 to 690 seconds	0	0%	70.5%
691 to 735 seconds	1	5.8%	76.3%
> 736 seconds	3	17.6%	100%
Average First Alarm	12 minute 3 seconds		
Wildland Fire Incidents			
Turn Out Time	41 Responses		
(=or<) 90 seconds	29	70.7%	
91 to 120 seconds	5	12.2%	82.9%
121 to 132 seconds	6	14.7%	97.5%
133 to 144 seconds	1	2.4%	100%
> 144 seconds	0	0%	100%
Average Turn Out Time	1 minute 19 seconds		
First Arrival - Wild Land Fire			
Arrival Time	41 Responses		
(=or<) 300 seconds	16	52%	
301 to 345 seconds	4	20%	72%
346 to 390 seconds	8	8%	80%
391 to 435 seconds	4	8%	88%
> 481 seconds	9	12%	100%
Average WL Response	6 minute 0 seconds		

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Other Fire Incidents			
Turn Out Time	122 Responses		
(=or<) 90 seconds	38	31.1%	
91 to 120 seconds	52	42.6%	73.7%
121 to 132 seconds	16	13.1%	86.8%
133 to 144 seconds	11	9%	95.8%
> 144 seconds	5	4.2%	100%
Average Turn Out Time	1 minute 40 seconds		
Arrival Time	122 Responses		
(=or<) 300 seconds	38	31.1%	
301 to 345 seconds	17	13.9%	45%
346 to 390 seconds	14	11.5%	56.5%
391 to 435 seconds	9	7.4%	63.9%
> 436 seconds	44	36.1%	100%
Average First Arrival	6 minute 48 seconds		
EMS Incidents			
Turn Out Time	3294 Responses		
(=or<) 90 seconds	2168	65.8%	
91 to 120 seconds	681	20.7%	86.5%
121 to 132 seconds	184	5.6%	92.1%
133 to 144 seconds	141	4.3%	96.4%
144 to 156 seconds	120	3.6%	100%
Average Turn Out Time	1 minute 25 seconds		
First Arrival BLS Time	2136 Responses		
(=or<) 300 seconds	1015	47.5%	
301 to 345 seconds	123	5.8%	53.3%
346 to 390 seconds	427	20%	73.3%
391 to 435 seconds	167	7.8%	81.1%
> 436 seconds	404	18.9%	100%
Average BLS Response	5 minute 29 seconds		
First Arrival ALS Time	985 Responses		
(=or<) 300 seconds	522	53%	
301 to 345 seconds	133	13.5%	66.5%
346 to 390 seconds	113	11.5%	78%
391 to 435 seconds	122	12.4%	90.4%
> 480 seconds	95	9.6%	100%
Average ALS Response	5 minute 5 seconds		

Hazardous Materials Ops Level			
Response Time	3 Responses		
(=or<) 300 seconds	2	66.7%	
301 to 345 seconds	1	33.3%	100%
346 to 390 seconds	0	0%	100%
391 to 435 seconds	0	0%	100%
> 436 seconds	0	0%	100%
Average Response Time	4 minute 1 seconds		
Hazardous Materials Tech Level			
Response Time	1 Responses		
420 to 539 seconds	1	100%	
Hazardous Materials Technical Rescue			
Response Time	0 Responses		
	0	100%	

Closing:

This is the Ninth Annual report is in response to Chapter 52.33 of the Revised Code of Washington which requires a reporting made available to the public. This report is the best representation of the required reporting contents. We are continuing to work on more accurate information to be used the time reporting intent of the legislation. Newer computer aided dispatching software (CAD) is hoped to provide more accurate information for all responding apparatus.

Any questions of the contents of this report should be directed to Assistant Chief Eric Andrews
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