

Chelan County

Fire District 1



2021

Performance Standards Report



Table of Contents

Heading	Page
Mission Statement	3
Values	3
Message from the Chief	4
District Overview	5
Stations	5
Organizational Chart	6
Operations	7
Training and Safety	7
Fire Prevention and Public Education	8
Wildfire Community Outreach	8
Deployment Report	9
Expected Number of District Employees	9
Expected Function of District Employees	10
Policy Statements	10
Emergency Response	10
RCW 35.103	10
Intent of RCW 35.103	11
Time Temperature Standard	11
Cardiac Arrest Survival Standard	12
Response Time Standards and Objectives	13
Turnout Time	14
Total Emergency Incidents Pie Chart	14
Emergency Response by Zone	14
Arrival of First Engine at a Fire	15
Arrival of First Alarm Assignment at a Fire	15
Arrival of Emergency Medical Technician at a Medical Scene	15
Arrival of Wildland Firefighting-Trained and Equipped Personnel	15
Steps to Achieve Compliance	16
Map of Chelan County Fire District 1 Boundaries	17





Mission Statement

Our mission is to save lives and protect property with Professionalism through Pride, Commitment and Compassion.

Our Vision for the Future

1. Create a safe work environment that fosters commitment to all personnel for the successful implementation of the mission.
2. Make decisions based on the best interest of the community and earn the respect of the people we serve.
3. Create and maintain a proactive relationship with other public and private agencies and our peers.
4. Provide services that stay ahead of the changing characteristics of our district.
5. Develop and maintain a high level of proficiency through training.
6. Meet essential community needs with established resources through the effective management of our budget, ensuring that expenditures achieve expected results.
7. Provide an effective equipment and apparatus maintenance program to ensure the dependable delivery of all risk services.

Values

The values adopted by Chelan County Fire District 1 are taken from the Wildland Fire Leadership Values and Principles with origins from our Military.

Duty

- Be proficient in your job, both technically and as a leader.
- Make sound and timely decisions.
- Ensure that tasks are understood, supervised, accomplished.
- Develop your subordinates for the future.

Respect

- Know your subordinates and look out for their well-being.
- Keep your subordinates informed.
- Build the team.
- Employ your subordinates in accordance with their capabilities.

Integrity

- Know yourself and seek improvement.
- Seek responsibility and accept responsibility for your actions.
- Set the example.

Our values and standard operating procedures/guidelines are the basis for our conduct and actions. A value system we can all connect with makes us more effective. We can evaluate our performance and conduct with values.

Message from The Fire Chief

Greetings citizens of Fire District 1,

The year 2021 brought us many blessings and challenges. Our call volume increased by 396 calls over 2020. We hosted two major wildland incidents: the Rooster Comb Fire and the Red Apple Fire. These two incidents directly threatened over 250 structures in 24-hour periods, respectively. Fortunately, no homes were lost in our District.

Our Water Rescue and Rope Rescue Teams were dispatched to several technical incidents in both our District and region. The demand for all hazard rescue skills continues to increase. As such, we have formed a partnership with Chelan, Douglas, Grant, and Okanogan counties to provide a regional Hazmat response. We are housing a Hazmat apparatus at our Sunnyslope fire station for the region and will be adding Hazmat technicians to our staff.

The District continues to pursue all feasible opportunities to make our community more resilient to wildfires. We have a plan drafted to replant our invasive species (cheatgrass) fuels with native, fire resilient vegetation. We aspire to create a community protection line around vulnerable areas of our District to slow the fires rate of spread.

We continue to replace our apparatus and we are currently building a second helicopter. The District needs to refresh our levy in order to continue with our fleet replacement schedule and hire additional positions.

The District is in the process of purchasing a parcel of land in the Stemilt Basin for a new fire station. Additionally, the Berdan Family is donating a parcel of land on the Wenatchee Heights for another fire station on this end of our District.

The District's Operations Plan delineates the change to the business model the District has operated under since its inception in 1943. Our Volunteer business model no longer adequately exists in our urban areas, resulting in the need to hire additional full-time firefighters.

We are currently working on a plan to present to the voters in 2023 that would refresh the funding for our District while simultaneously exploring the opportunity to become a Regional Fire Authority with Douglas County Fire District 2.

We are always a phone call or email away. Please reach out to us anytime with inquiries.

PROFESSIONALISM – PRIDE – COMPASSION



District Overview

Chelan County Fire District 1 provides a full range of services that include fire suppression, emergency medical services, technical rescue, fire prevention, education, and fire investigation to our 44,000 citizens in 70-square miles in the Wenatchee area. Fire District 1 members responded to 3,416 incidents in 2021 from our six fire stations located throughout the Fire District. Four of the six fire stations are staffed 24 hours a day with a combination of career, volunteer and resident volunteer personnel.

The citizens of Fire District 1 elect a 3-member Board of Fire Commissioners to govern the organization, each of whom is elected to serve a 6-year term. The 2021 Board consists of Board Chair Phil Dormaier, Cam de Mestre, and Gordon Zimmerman.

In 2021, the General Operating Budget for Fire District 1 was \$8.1 million dollars. This revenue is derived primarily from property taxes, which were levied at \$1.38 per \$1,000 of assessed property valuation.



Stations

Station 10: 731 North Wenatchee Avenue.

Station 11: 206 Easy Street constructed in 1982.

Station 12: 408 North Western Ave constructed in 1964.

Station 13: 1836 South Mission St constructed in 2018.

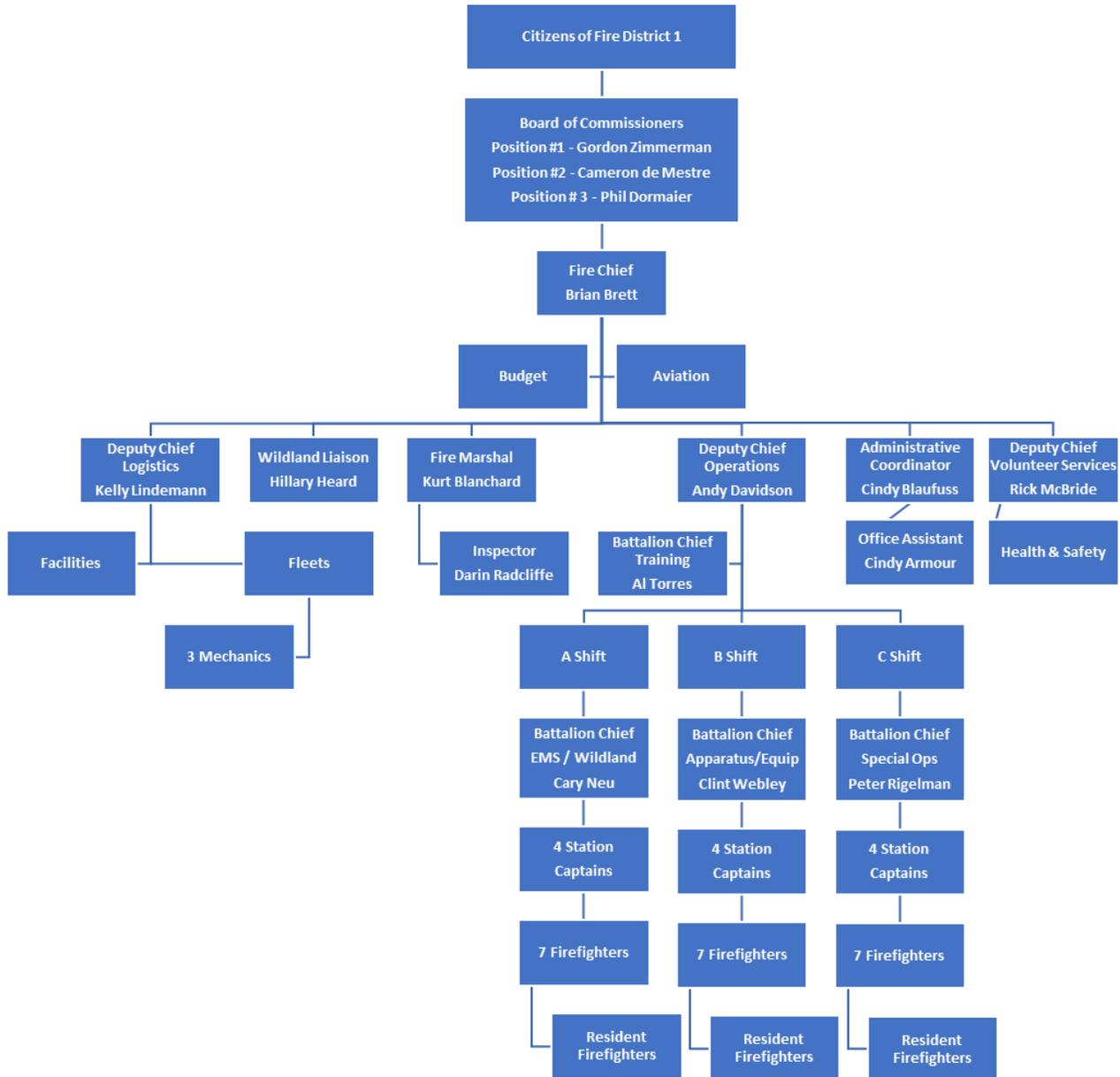
Station 14: 4852 Squilchuck Road constructed in 1975

Station 17: 3760 West Malaga Road constructed in 1995

- The average response times between stations is 6 minutes and 45 seconds.



Organization Chart



Operations

The dedicated personnel assigned to the Operations Division responded to 3,416 requests for service from our six strategically located fire stations. Requests for medical services (EMS) again accounted for the largest number of responses with a total of 62% of calls. While the primary function of the Operations Division personnel is to respond to emergency and non-emergency calls, Operations Division personnel are assigned additional responsibilities to include, conducting building pre-fire plans, business inspections, public education events and maintaining equipment in a constant state of readiness.

Fire District 1 continues to participate in automatic aid with our neighboring fire departments. This helps reduce response times and provides customers with what they need quickly.

The Operations Division will continue to invest in our responders, leverage technology and strive to maintain or reduce response times to better serve our citizens.

Training and Safety

Chelan County Fire District 1 firmly believes in, and is dedicated to, the training of our members. Our constant tradition of training prepares us to serve the public in a safe and efficient manner. We utilize a combination of technology and manipulative drills to provide realistic live training to prepare our members for a wide range of emergency response situations.

District members recorded 17,541 hours of manipulative and classroom training, averaging 222 hours per member in 2021. This training included topics such as firefighter survival, pump operations, hose evolutions, ladders, rope rescue, and wildland with several of our members serving as instructors. Additional internal trainings included:

- Washington State mandated training
- District policies and procedures
- Reviewing NIOSH Line of Duty Death reports
- EMS ongoing training and evaluation
- SCBA Fit Testing
- Company evaluations – hose drills
- Emergency Vehicle Incident Prevention
- Rapid intervention training
- Multi-Company evolutions
- Wildland driving rodeo course
- Rope Rescue
- Live Fire NFPA 1403

Our members also had the opportunity to attend several regional training events in a variety of disciplines.

Fire Prevention and Public Education

The goal of the Fire Prevention and Public Education Division is to keep fire related property damage and injuries to a minimum, while working collaboratively with our community partners and developers. We are working on implementing Community Risk Reduction activities as an important piece of the District's efforts to keep our citizens educated in emergency preparedness.

District 1 consists of approximately 19,500 residential structures and 2,200 commercial structures. Our Fire Prevention Captain conducts business occupancy inspections on over 1,800 commercial structures annually. Additionally, we flow and inspect all the hydrants in the District annually and conduct origin and cause investigations on fire scenes to determine any areas of safety and outreach we need to bring to the community's attention.

Our Wildland Liaison conducts multiple fire prevention activities to reduce the impact of wildfire in our community. Some of the 2021 projects include:

Community outreach

- Home assessments: 57
- Wildfire blog posts: 3
- WiRe rapid assessments: 154
- CTP rapid assessments (Eagleview Pictometry): 250
- Mobile Mapping rapid/comprehensive assessments: 1,200/5
- Door hangers: 0
- Community engagement contacts: 189
- Acres treated: 4.25
- Piles chipped: 37
- Cubic feet chipped: 2,512
- Structures treated: 40
- Funding awarded: \$134,514

While home assessment participation shrank, participation remains active in communities we offer chipping assistance.

Fuels Reduction

Curbside chipping:

Community	Participants	Piles	Volume [cu ft]	Volunteer Hours	Homeowner Investment
Sunnyslope	3	10	1280	55	\$1,912.18
Forest Ridge	20	8	312	264	\$7,534.56
Tanda Lane	5	7	420	123	\$3,767.28
Forest Ridge*	12	12	500	100.5	\$2,868.27
TOALS	40	37	2,512	542.5	\$16,082.29

Fuels treatments:

Fuels Treatment method	Acres	Description
Thinning	2.25	CCFD1 Seasonal Staff-Broadview Ravine
Thinning	2.0	FEMA Squilchuck Defensible Space Grant
TOTALS	4.25 acres	

*These numbers do not include curbside chipping.

Other notable fuels projects:

- Broadview Fuels treatment: CCFD1 Seasonal Staff weed whacked and thinned the fuels at the top of the ravine as an ongoing fuels treatment following the goat grazing effort in 2019.
- Boozer-Boodry Wildfire Ready Neighbors Event: this was a partnership with Café, Cascadia Conservation District and DNR to conduct a neighborhood cleanup event.
- Forrest Ridge Firewise Community: assisted in the planning and coordination for the fall chipping event, obtaining a chipper from Valley Tractors and CCFD1 staff worked with volunteers during the chipping event.



Deployment Report 2021

Expected Number of District Employees

Chelan County Fire District 1 had the following employees in 2020:

- Chief Officers 5 (shared with DCFD2)
- Battalion Chiefs 4 (one BC in Training)
- Officers 13 (one Captain in Prevention)
- Career Firefighters 36 (on shift)
- Volunteer Firefighters 22
- Administrative Staff 2
- Wildland Liaison 1 (shared with DCFD2)
- Support Services 6

In 2022 the District plans to add the following positions:

- Volunteer Firefighters 18

Expected Functions of District Employees

Chelan County Fire District 1 employees had the following expected functions in 2021:

- Fire Suppression
- Emergency Medical Services – Basic Life Support (BLS)
- Hazardous Materials Response – Awareness and Operations Level
- Fire Inspections
- Public Education
- Fire Investigation
- Fire Hydrant Inspections
- Pre-Fire Planning
- Rope Rescue
- Water Rescue

Policy Statements

Chelan County Fire District 1 was established on March 29, 1943, by Resolution #134-A. The candidates for Fire Commissioner, upon formation, included I.A. Van Valkenburgh, William J. Moore, and Joe S. Welty.

Emergency Response

RCW 35.103

During its 2005 session, the Washington State Legislature considered and then passed what has now been codified as Chapter 35.103 RCW. The law directs “substantially career fire departments” to evaluate their level of service and deployment delivery and response time on an annual basis. Chelan County Fire District 1, beginning in 2018, has now transformed into a “substantially career” fire district with an increase in hiring full-time firefighters combined with limited, if any, growth and retention in the volunteer ranks. Specifically, the annual report shall include:

- The policy statements establishing the existence of the District, services the District provides, the basic organizational structure of the District, the expected number of employees and the functions that the employees are expected to perform.
- The adopted standards of turnout and response for all applicable emergency incidents.
- The annual comparison of the adopted standards of turnout and response for all emergency incidents.
- Definition of the geographic areas and circumstances in which the requirements of the adopted standards are not being met.
- Explain the predictable consequences of any deficiencies and address the steps that are necessary to achieve compliance with the district’s adopted standards.

Intent of RCW 35.103

The legislature acknowledges the efforts of the International City/County Management Association of Fire Chiefs and the National Fire Protection Association for the organization and deployment of resources for fire departments. The arrival of first responders with automatic external defibrillator capability before the onset of brain death and arrival of adequate fire suppression resources before flash-over are critical events during the mitigation of an emergency and in the public's best interest. For these reasons, this chapter contains performance measures relating to the organization and deployment of fire suppression operations, emergency medical operations and special operations by substantially career fire departments. This chapter does not, and is not intended to, in any way modify or limit the authority of code cities to set levels of service.

Time-Temperature Standard

Time Temperature Standard

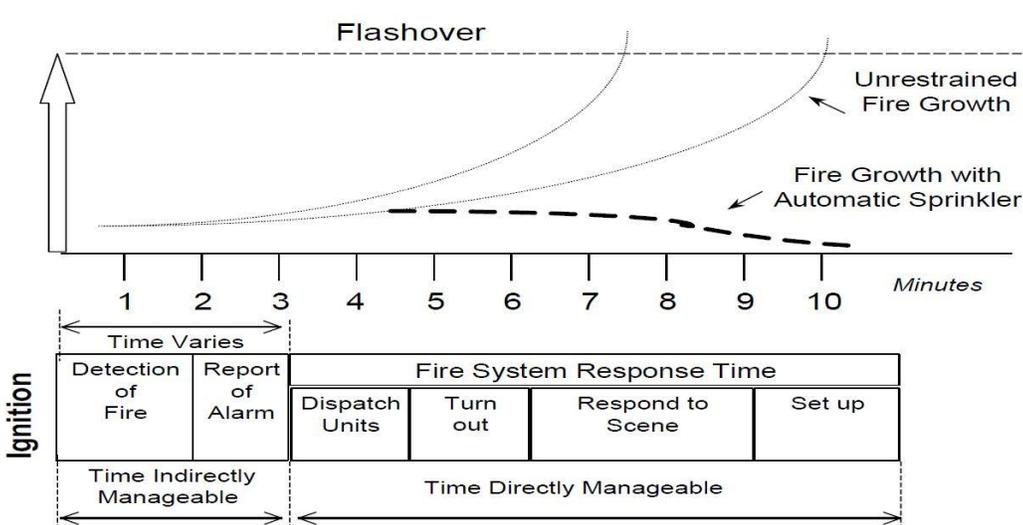
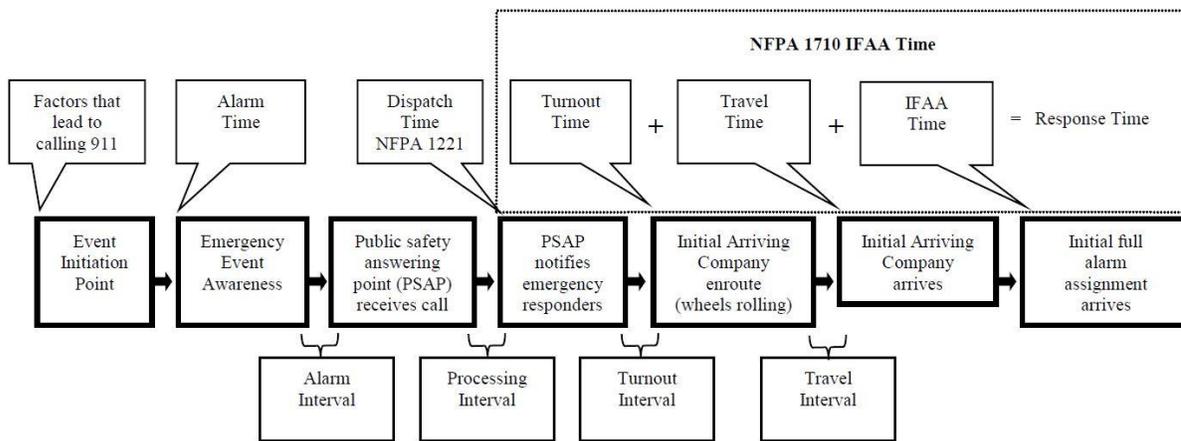
The "time-temperature curve" standard, in the figure below, is based on data from the National Fire Protection Association (NFPA) and the Insurance Services Organization (ISO) which have established that a typical point source of ignition in a residential house will "flash over" at some time between five and ten minutes after ignition, turning a typical "room and contents" fire into a structural fire of some magnitude.

Time Temperature Curve

The utility of the time-temperature curve for fire station placement is contingent on several factors, including but not limited to the following:

- It does not account for the time required for the existence of a fire to be "discovered" and reported to the fire department via the 911 system.
- The time from ignition to flashover varies widely (5-30 minutes depending on building characteristics).

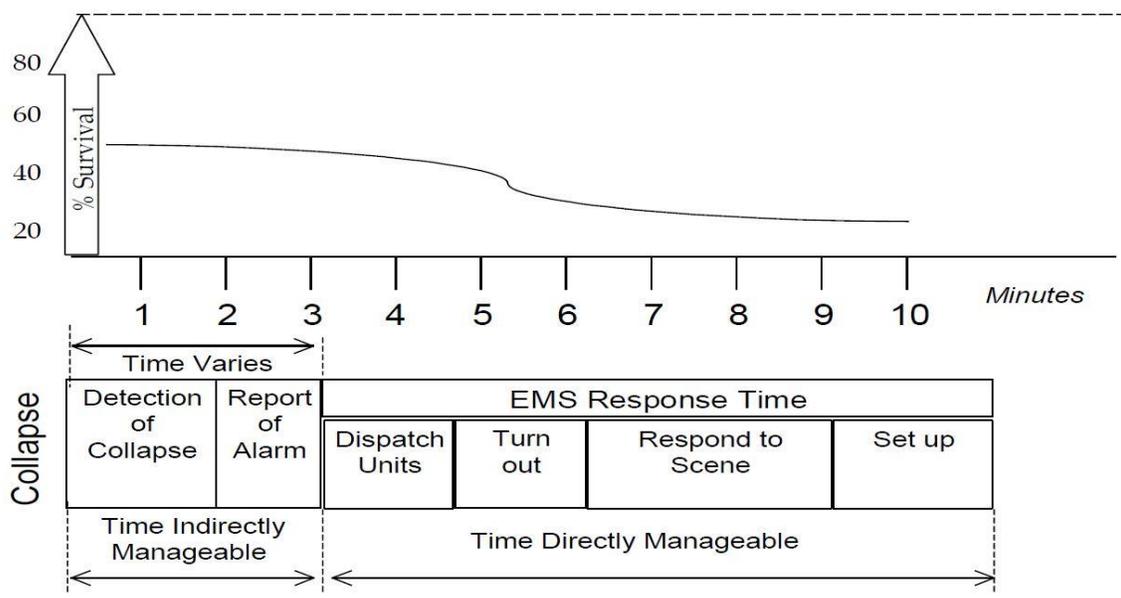




Cardiac Arrest Survival Standard

In communities where the fire service is the principal provider of Emergency Medical Services (EMS) first response, the “Chain of Survival” standard, shown in the figure below, was developed by the American Heart Association and is often used to provide guidance for the distribution of resources. The Chain of Survival suggests that basic life support (CPR and defibrillation) should be available to the victim of a cardiac arrest within 4 minutes of the event. Early notification, distribution and concentration of emergency response services are thus paramount to successful resuscitation efforts.





The Golden Hour Standard

In trauma events, the golden hour is the historic benchmark applied to victims with significant critical, traumatic injuries. The golden hour reflects the concept that survivability decreases significantly if the patient isn't in the operating room within one hour of receiving a critical traumatic injury.

2021 Total Incidents

MAJOR INCIDENT TYPE	# INCIDENTS	% of TOTAL
Fires	223	6.53%
Overpressure rupture, explosion, overheat - no fire	4	0.12%
Rescue & Emergency Medical Service	2130	62.35%
Hazardous Condition (No Fire)	72	2.11%
Service Call	128	3.75%
Good Intent Call	541	15.84%
False Alarm & False Call	306	8.96%
Severe Weather & Natural Disaster	1	0.03%
Special Incident Type	11	0.32%
TOTAL	3416	100%

2021 Response Time Standards and Objectives

Chelan County Fire District 1 has established response time standards for the zones within Fire District 1. The zones represent the area in proximity to our fire stations. The response time standard for zones 10, 12, 15 and 16 is 6 minutes or less for 90% of the incidents. The response time standard for all other zones in the District is 8 minutes or less for 90% of the incidents. A

full first-alarm assignment (3 Engines, 1 Ladder, and 1 Battalion Chief) for fire suppression is 10 minutes for 90% of the incidents.



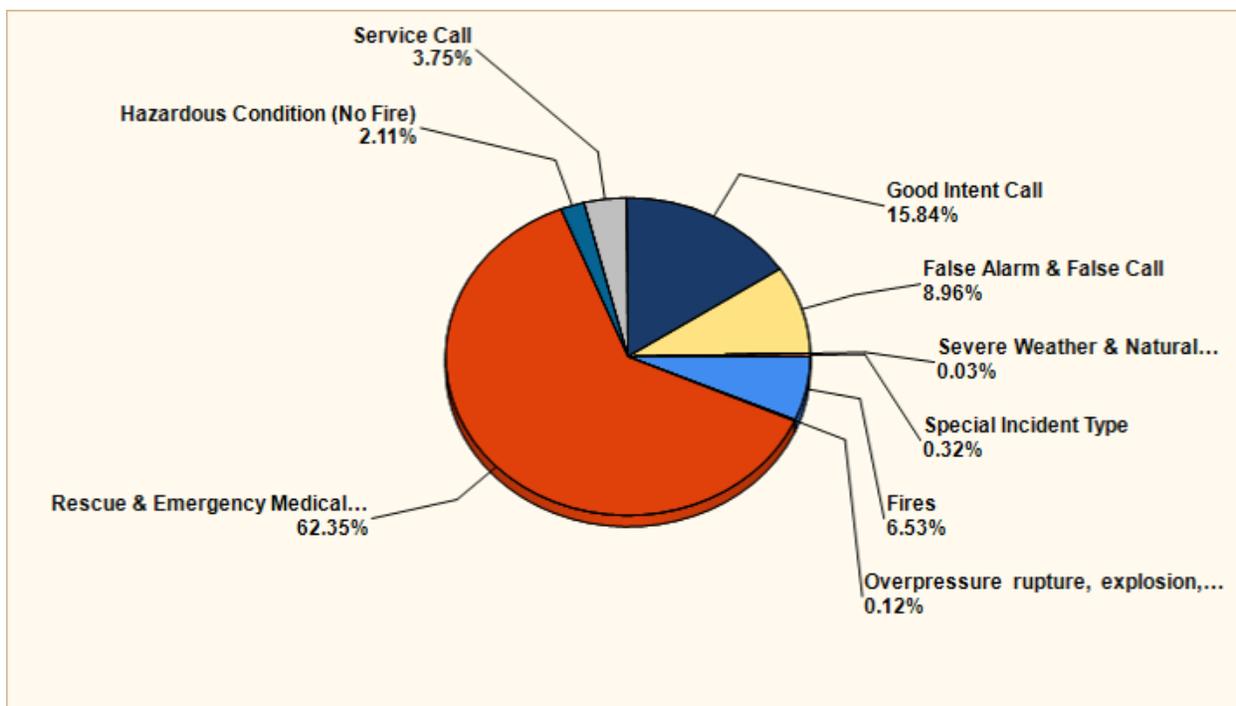
Turnout Time

Turnout time is the time from receipt of a dispatched alarm by the firefighting or emergency medical crew, until they indicate (verbally or electronically) that they are enroute to the incident.

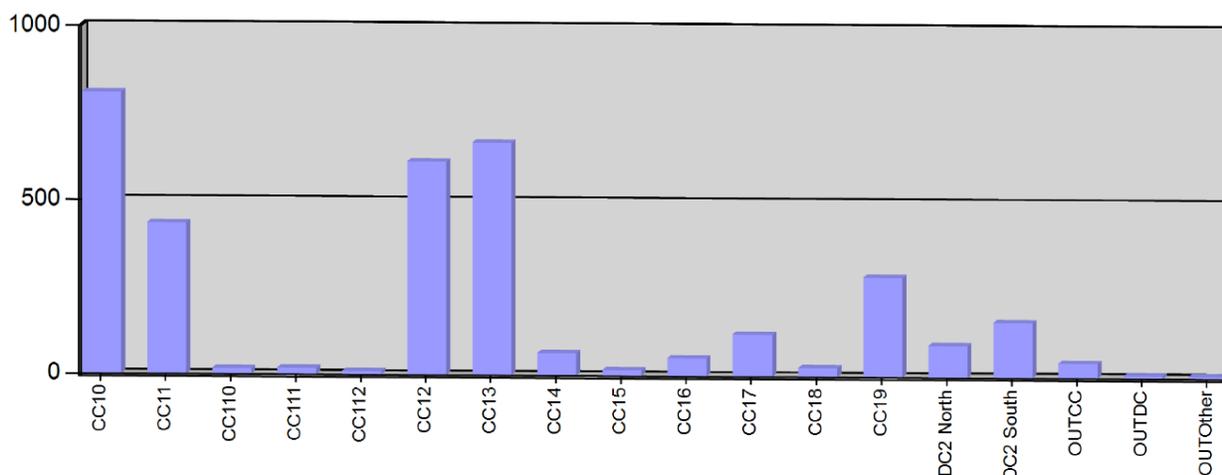
Chelan County Fire District 1 turnout time standard is:

- 1 minute, or less, for 90% of all EMS incidents.
- 1 minute and 20 seconds, or less, for 90% of fire response incidents.
- 1 minute and 20 seconds, or less, for 90% of Hazardous Materials and Rescue incidents.

Chart of 2021 Response Types



2021 Emergency Response by Area



Chelan County Fire District 1 Board of Commissioners have adopted a Delivery Standards Policy, Article I, Policy 07, on June 12 of 2019. The District compiled the information for the 2021 Performance Standards report upon adoption of the Delivery Standards Policy. The District aspires to provide accurate information to measure our key performance metrics consisting of:

- Average turnout time.
- Arrival of first engine at a fire.
- Arrival of first full alarm assignment at a fire.
- Arrival of Emergency Medical Technician(s) at a medical scene.
- Arrival of wildland firefighting-trained and equipped personnel.
- Arrival of an Incident Management Team consisting of at least an IC, Division/Group Supervisor and a Safety Officer within 15-minutes for 90% of the warranted incidents.

Currently, CCFD1 is unable to accurately report data for our key performance metrics because of the human factor required to document times at RiverCom (Dispatch), availability of open radio channels to accurately announce unit status and the lack of appropriate modules in Emergency Services Reporting.

Upon receiving a call, RiverCom manually enters the times for responding units. The Telecommunicator is multi-tasking managing the emergency communications of the call nature. As such, the times of responding/arriving units are recorded when the Telecommunicator can manually enter them in the CAD log. Furthermore, the quantity of responding units consumes the available airtime, often prohibiting an immediate (accurate) announcement of unit(s) status.

Additionally, CCFD1 is developing a process of evaluating our structure fire responses to manually evaluate the date for key benchmarks of assembling an Incident Management Team.

We did not make any progress toward improving recording our measured times. The project is still in the inception stage at the time of this report.

Steps to Achieve Compliance

Steps necessary to achieve compliance with the District's adopted standards may include the following:

- Addition of staffed fire stations
- Hiring additional responders
- Recruiting and retaining additional volunteers
- Member training to reduce turnout times
- Continued automatic aid with neighboring fire/EMS agencies
- Improved data entry and collection for reporting
- Adopting technology to electronically record responding and arrival times

The District is currently working with I-Spy Fire to develop a module for digitally documenting the turnout time, response time, arrival of first alarm assignment and arrival of wildland resources at a wildland scene. This capability will be available at an undetermined date at the time of this report.

Map of Chelan County Fire District 1

