

GRAPEVINE FIRE DEPARTMENT



ANNUAL REPORT 2023

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Mission Statement

The Grapevine Fire Department exists to care for the families and visitors of our community. Our mission is to protect life, prevent harm, and preserve property. We serve to meet the ever-evolving needs of our citizens with honor and integrity.

Vision

The Grapevine Fire Department will be recognized by its citizens for providing exceptional Community Safety, Fire Prevention, Emergency Medical Services and Fire Protection. The fire department will build and sustain a culture of family, preparing for the future, remaining community focused, and embracing the diversity of those we serve.

Values

- RESPECT OTHERS** We will have **respect** for the people we serve, **respect** for our members, **respect** for our organization, and **respect** for ourselves.
- PURSUE EXCELLENCE** We will **pursue excellence** with an unrelenting passion and will never accept mediocracy.
- BE ACCOUNTABLE** We will **hold each other accountable** at all levels of our organization.
- BE BETTER TODAY** **Today** we will strive to **be better** at our profession **than we were yesterday**. It is a privilege to be a member of the Grapevine Fire Department. We will participate in all aspects of our work with energy, purpose, and gratitude.

Motto

Our family is always here to help your family.

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Message from the Chief

I am pleased to present the Grapevine Fire Department (GFD) Annual Report for Fiscal Year 2023. Perhaps more than ever in our 139-year history, we are forced to consider our changing environment and the necessary evolution of our service, enabling us to meet the community's needs effectively. Calls for emergency medical services continue to increase while building fires continue a downward trend. We continue to focus on national and regional incidents, constantly evaluating how to prevent and respond should something occur in Grapevine. As our city continues to evolve, we desire to provide the highest level of first-class service.

In 2023, GFD responded to 7,233 calls for service, resulting in 15,815 responses by your fire department. These calls include medical emergencies, rescues, hazardous chemical responses, fires, and other general calls for public service. Of the 7,233 calls for service, 67.7% or 4,897 were for Emergency Medical Services. Our response times remained consistent, with the average for all calls being 5:55. We constantly monitor our calls and response times so that we are positioned to respond to the next call for service. Our calls overlapped 60.53% of the time, meaning we had two or more calls simultaneously.

The Grapevine Fire Department continues to recruit and hire the best people possible. We added new members in Operations this year due to vacancies and retirements, and we are happy to report that they are all doing well. Additionally, we brought on an Office Technician in Administration to assist with numerous projects while assisting with normal business processes. Hiring continues to be challenging for most of us in the fire service.

2023 has been a busy year around the department. Three of our more tenured members retired, leaving vacancies for an Assistant Chief and Battalion Chief, respectively. Our Peer and Fitness Support Teams implemented new programs that enhance our overall mental and wellness initiatives, and our EMS Division has fully embraced our simulation lab. We received a grant to improve not only our Peer Support Team but also the thirteen other municipalities that make up the Northeast Fire Department Association (NEFDA). Our Training Division has provided multiple opportunities for members to further their training and certifications, all while onboarding new members and running our new officer academies. Our future is bright as we look to future opportunities.

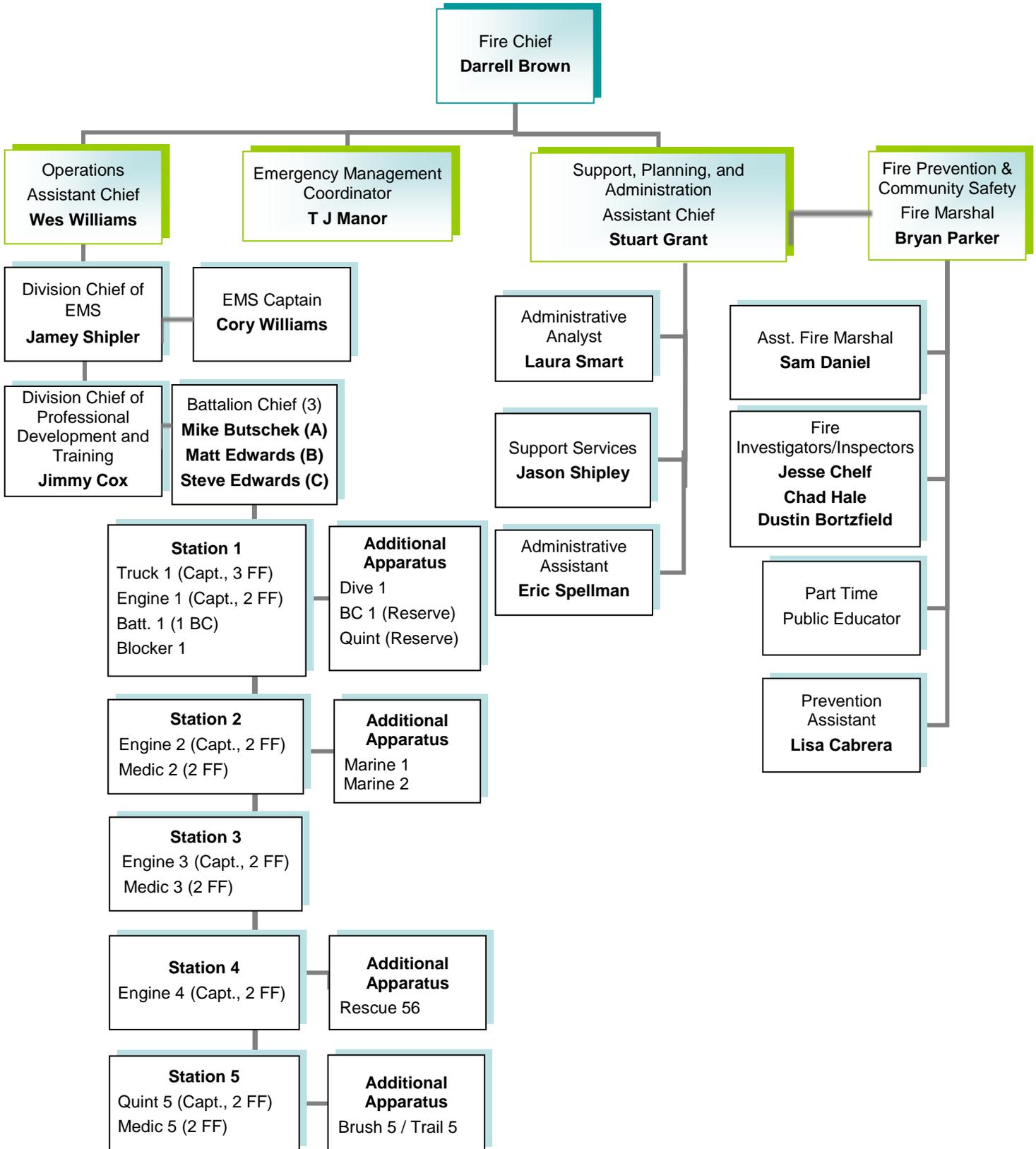
Please feel free to stop by any one of our five fire stations for a tour or to visit with some of the best and brightest firefighters in America. Your family is our family, and we are always here to help. It is my honor to serve the men and women of the Grapevine Fire Department and its citizens.



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Organizational Chart



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Employee Demographics

The Grapevine Fire Department is authorized 112 full time positions. There are 108 sworn positions and 4 civilian positions authorized in the Fire Department budget.

Overall demographic data indicates a stable and satisfied work force that is growing increasingly younger as long-term employees retire. Sworn staff tenure indicates approximately one third of the department with five or less years of service. Additionally, over half of the fire department members are less than 40 years of age. The trend towards a younger workforce will continue for the foreseeable future.

Sworn Staff Tenure	
5 years or less	38
6 to 15 years	42
16 to 25 years	23
26 to 30 years	7
31 years or more	2

From October 1, 2022 to September 30, 2023, 4 members have retired and several others have left for various reasons. The Department has hired 5 new members including 1 new Administrative member. Over the next few years, several retirements can be anticipated, which will result in a younger and less experienced workforce. The continued and future focus on training, education, career development, and succession planning are imperative to maintain an effective workforce.

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Firefighter Certifications

The Texas Commission on Fire Protection is the state agency which oversees and regulates the activities and career personnel of all Texas professional fire departments. Among the agency's responsibilities is to establish training and certification criteria for personnel, including higher level certifications (above basic). Higher certification levels are obtained by a mixture of time in the job, formal education, and training completed.

Firefighter Certification	
Master	30
Advanced	36
Intermediate	22
Basic	23

Fire Service Instructor	
Master	3
Advanced	6
Intermediate	41
Basic	34

Fire Prevention Related Certifications	
Arson Investigator Master	4
Arson Invest. Advanced	1
Investigator Master	7
Investigator Advanced	2
Investigator Intermediate	2
Investigator Basic	1
Fire Inspector Master	5
Inspector Advanced	1
Inspector Intermediate	4
Inspector Basic	2
Plans Examiner	10

Fire Operations Related Certifications	
Hazardous Materials Technician	12
Incident Safety Officer	23
Incident Commander	14
Driver/Operator	95
Driver/Aerial	57
Wildland	4
Fire Officer 1	26
Fire Officer 2	31
Fire Officer 3	2
Fire Officer 4	6
Fire & Life Safety Education	10

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Administrative & Support Services

Administration and Supportive Services is responsible for:

- Budget administration
- Contract administration
- Purchasing
- Records management
- Maintenance of equipment and facilities
- Payroll
- Workers compensation
- Personnel services
- Training
- Promotional Testing

The function of administrative support is responsible for the delivery of efficient and effective executive assistance.

Support Services provides the essential equipment, supplies, and maintenance necessary to fulfill the core mission of the fire department. All protective clothing is purchased and maintained by Support Services. Additionally, Support Services evaluates safety equipment, protective clothing, and coordinates staff testing and selection.

Administration and Support Services is also responsible for the coordination and delivery of effective training programs for career staff on the subjects of firefighting, technical rescue, emergency medical care, and safety. This training accounted for over 13,000 hours of training. In addition, the Division is responsible for the department firefighter health and wellness programs, tracking injuries, and tracking accidents.



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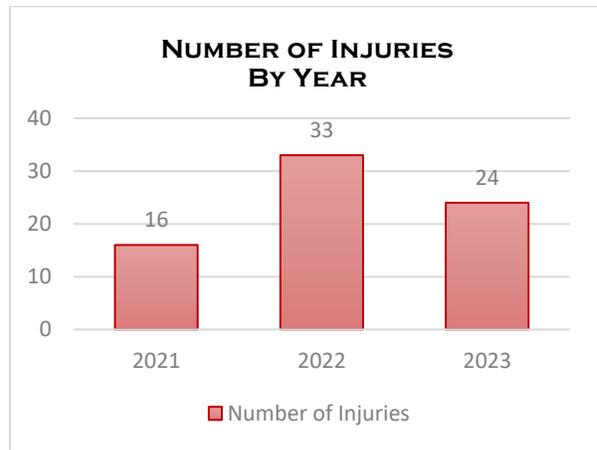
TOTAL NUMBER OF TRAINING HOURS DURING FY 22-23

13,978.5 HOURS

AVERAGE OF 152 HOURS PER EMPLOYEE

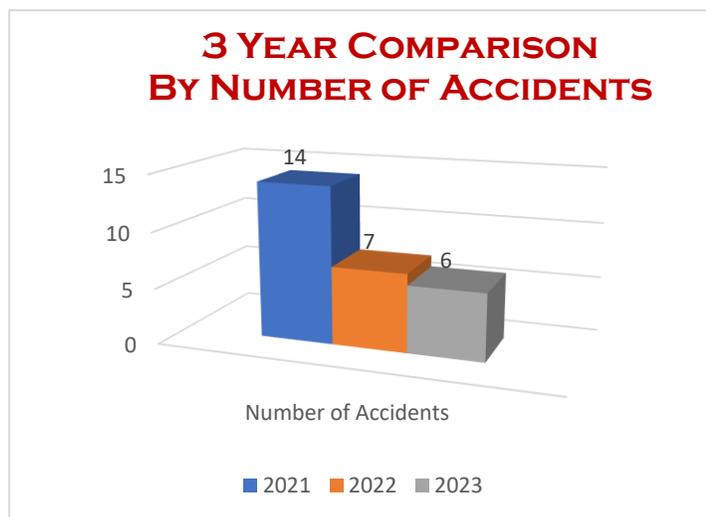
TOTAL NUMBER OF INJURIES: 27

AMOUNT OF INJURY PER SHIFT		%
Shift A	13	48.15%
Shift B	9	33.33%
Shift C	5	18.52%
Total	27	100%



TOTAL NUMBER OF ACCIDENTS: 6

SHIFT	NUMBER OF ACCIDENTS
A	2
B	4
C	0
Total	6



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Fire Prevention & Community Safety

The Fire Prevention & Community Safety Division categorizes activities into four broad areas; fire prevention activities, fire inspection activities, public safety, and fire investigations. Fire Prevention activities include inspections, plan review, safety consultations, public education efforts, addressing legal process matters, conducting referrals and training activities. Overall, fire prevention activity has increased 3.23% since last year. This increase was directly related to having a new inspector in training.

Fire Prevention Activities

ACTIVITIES	2021-2022	2022-2023
Inspections	4,460	4,667
Plan Review	422	420
Consultations	480	455
Public Education	13	20
Training	12	12
Investigations	9	5
Detectors/Batteries	22	14
Life Jacket Program	99	102
Total	5,517	5,695

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Fire Inspection Activities

Fire inspections of buildings within the city is accomplished through the effort of full-time fire inspectors. Inspection activities have decreased by 2% in the last fiscal year. This decrease was directly related to having an inspector leave the department and a new inspector in training.

Fire inspections cover a wide area of focus. Inspections include visits to businesses to evaluate compliance with fire and life safety codes, to offer evaluations of safety appliances and equipment, to provide assistance in meeting requirements for conducting events or assemblies, and to ensure that properties are properly prepared for occupancy. In all cases, the purpose of our inspection program and activities is to educate and ensure that all businesses in Grapevine are operating in as safe an environment as possible.

Fire inspection personnel typically handle complaints, technical inspections, new construction, and respond after hours as necessary. They also conduct more advanced, scheduled commercial property inspections to include hotels, nursing homes, businesses, offices, small warehouses, small mercantile, and strip centers.

Pre-fire planning helps prepare the firefighters by becoming familiar with buildings and features of the buildings prior to an emergency. The firefighters in the field use a program called First Due to accomplish the pre-planning activities. The Department also has a program called Community Connect that allows homeowners to put in pre-emergency information into the program for the firefighters.



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APPARATUS of the GRAPEVINE FIRE DEPARTMENT



Truck Company



Mobile Intensive Care Unit

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Engine Company



Dive Unit

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Heavy Rescue



Fire Boat

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Fire and EMS Operations

The Fire Department Operations Division has usually experienced a consistent yearly increase in the annual number of response calls. This fiscal year, FY 22-23 saw a 9.55% increase in calls from the previous year with 60.53% of those calls overlapping another call.

Fire Department Total Call Volume	2021-2022	2022-2023
Total Fire Apparatus Calls without EMS	2,282	2,336
Total Ambulance Calls with Fire Apparatus	4,632	4,897
Total Fire Department Calls	6,914	7,233

When the Fire Department receives a call, usually more than one apparatus responds to the call. The following shows the total number of responding apparatus to the calls.

Fire Department Total Response Volume	2021-2022	2022-2023
Total Fire Apparatus Responses	10,270	10,149
Total Ambulance Responses	4,795	5,666
Total Fire Department Response	15,065	15,815

For reporting purposes, fire apparatus calls and emergency medical service (ambulance) calls are tracked separately. Fire apparatus calls are divided into several categories, including fires (of all types), medical assistance by fire crews, rescue, hazardous conditions, public service (to include public assistance, animal rescue, and cover assignments), and false calls/false alarms.

Fire Apparatus Call Volume	2021-2022	2022-2023
<i>Fires</i>	196	162
Includes structure, vehicle, grass		
<i>Medical (excluding MVA)</i>	3,949	4,199
All medical assistance by fire crews		
<i>Rescue</i>	683	698
Includes all MVA, extrication, rescue		
<i>Hazardous Conditions</i>	210	174
Includes gas or fuel leaks, overheat, electrical hazards, severe weather		
<i>Public Service</i>	1,293	848

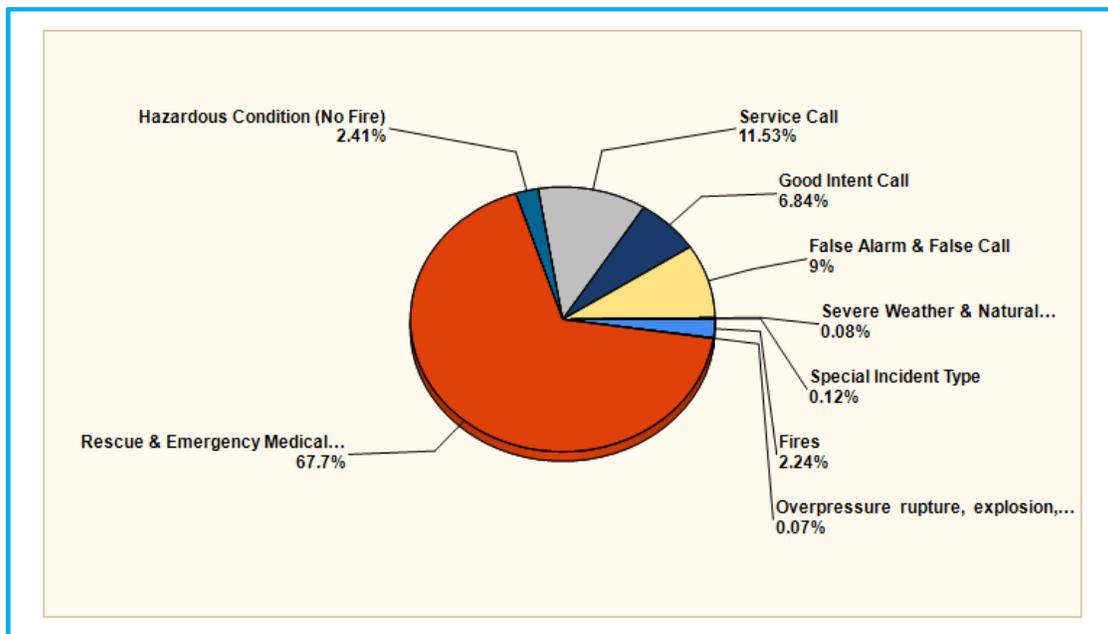
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Public Assistance, animal rescue, cover assignments		
False Calls and Alarms	577	1,146
No hazard found, malfunctioning alarms, good intent, etc.		
Severe Weather	6	6
Natural disaster, wind storm, lightning strike		
Total Fire Apparatus Calls	6,914	7,233

Similar to fire apparatus call volumes, ambulance call volumes increased during FY 22-23 with more people returning to their regular activities. The City of Grapevine experienced a 9.2% increase in call volumes from last year and Emergency Medical Service calls account for approximately 70% of all fire department calls.

Ambulance Call Volume	2021-2022	2022-2023
Patients treated and transported	3,293	3,612
Patients not transported	1,339	1,285
Total Ambulance Responses*	4,632	4,897

* Total includes all dispatch calls in which an ambulance was deployed, including structure fires and hazmat calls.



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Response Time

Response time of emergency units is a measure of three individual components of the response sequence and can reveal a great deal of valuable information relating to service delivery. The primary components of response time are:

- **Call Processing:** The time required for the dispatcher to receive the 9-1-1 call, gather and enter the information into the computer aided dispatch (CAD) system, selecting appropriate units and then beginning the process of alerting the units that will respond (“dispatch time”).
- **Turn Out or “Reaction” Time:** The time required for the responding personnel to receive the dispatch information, get to the vehicles, dress in PPE as appropriate, mount the vehicles and leave the fire station. Turn out time is measured from “dispatch time” to “enroute” time.
- **Travel Time:** The time required to actually drive the vehicle to the incident location. This is measured from “enroute” time to “arrival” time. This time is affected by factors such as distance from the fire station to the location, traffic conditions, road conditions, route taken during the response, and weather conditions, to name a few.

The individual calling for emergency services is sensitive to the total response time matrix. They call and then count the minutes till help arrives. We report the response time of fire units including only the turn-out and travel time, *i.e.*, dispatch time to arrival time, because that is the only portion of the response matrix that we (fire department) can affect.

First arriving unit on the scene is an important and the most frequently reported response time statistic. However, it is not the total or even most important measure of service delivery. When only one unit is all that is responding, first arriving is critical.

Second arriving unit is important because it frequently represents when a fire company can actually begin attacking a fire or rendering certain other types of aid. The requirement mandated by the State of Texas in Texas Administrative Code Rule 435.17, which we call “Two-in, Two-out,” requires that a minimum of four firefighters be on the scene of a fire in a structure before anyone can enter the structure to begin extinguishment of the fire. As a result, a fire company staffed by three firefighters (our present staffing) that arrives at the location to find a house with active fire burning in say five minutes, cannot begin to go inside the building to fight the fire until another unit with two or more people arrives. If this is nine minutes, then the first crew is on scene for four minutes but unable to fight the fire from the inside. Time temperature curves demonstrate fire intensity doubles every 60 seconds. In other words, in four minutes a fire will intensify and grow by 525%. Given that, the response time of second arriving companies is a critical measure in these instances.

Average Response Times (min:sec)	2022-2023
Turn Out Time	0:57
Travel Time	4:58
Response Time	5:55
Second Responding Unit (Structure Fires)	6:52

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Operations Highlights

- Received and placed in-service two new MICU's.
- Received funding for two additional MICU's and started specifications.
- Received funding for an Engine, Quint, and Ladder Truck. Started specifications on all.
- The Department responded to the tornado that struck the city on December 13, 2022 damaging Sam's Club, Discount Tire, Christian Brothers, Extra Space Storage, Mustang Car Wash, Grapevine Middle School, Waffle Way, the Service Center, Grapevine Mills Mall, apartments, and houses.
- Responded to a mutual aid trench/confined space call with Rescue 56 in Ft. Worth.
- Assisted Public Works with the relocation of the warehouse to our auxiliary storage facility and Fleet to Station 2 until repairs can be made at the Service Center.
- AC John Sherwood retired on April 1, 2023 and Wes Williams was named as the new Assistant Chief.
- Michael Butschek was appointed as a new Operations Battalion Chief.
- Transitioned the Administrative Captain to the EMS Division as the new EMS Captain.
- Received the Mission Lifeline Bronze Award for STEMI activations and cardiac care.
- BC Ritchie Tice retired on June 30, 2023 and Steve Edwards was appointed as a new Operations Battalion Chief.
- Received the Texas Fire Marshal's Achievement of Excellence Award for the second time.
- Hosted the Texas Fire Chiefs Academy.
- Grapevine and Colleyville started sharing First Due pre-fire information on emergency responses.
- Received a grant from the United States Department of Transportation to acquire a Scorpion unit for the Blocker apparatus.
- Received a grant from the State of Texas for training and clinical assistance for all cities in NEFDA for mental health.
- Enhanced operations by acquiring new Thermal Imaging devices.
- Placed a new jet ski in service to facilitate improved responses on Grapevine Lake.
- Held the first Citizens' Fire Academy class since the pandemic, Class 22.
- Received the 1928 Model AA back from Moreno's Customs and placed at Fire Station 2.

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The Office of Emergency Management (OEM) works with city departments, the private sector, and community stakeholders to mitigate, prepare for, respond to, and recover from the threats and hazards that pose the greatest risk. These risks include incidents such as natural disasters, disease pandemics, chemical spills, and other manmade emergencies. Activities of OEM fall within the following phases of emergency management:

Mitigation – Activities that change the nature of a threat, decrease vulnerability, or reduce exposure to disaster impacts. Mitigation activities can occur throughout the disaster cycle and can be structural or non-structural in nature.

Preparedness – Actions taken before an emergency to plan, organize, equip, train, and exercise to build response capabilities. Preparedness activities take place within the city and throughout the community.

Response – Actions that are taken during or immediately after a disaster occurs. Response actions include mobilization of emergency services, first responder activities, and activation of the Emergency Operations Center when necessary.

Recovery – Activities that continue beyond the initial emergency response. Recovery focuses on restoring critical community functions to normal and managing reconstruction. Rebuilding efforts can also include mitigation practices to reduce risk for the future.

The Office of Emergency Management coordinated support of several planned and unplanned events this year. The most noteworthy event this year was the two EF-1 tornadoes that impacted the city and damaged over 40 public and private structures. Damage to City facilities totaled to over \$13,000,00.00. Fortunately, there was no loss of life and all five individuals who were transported to local hospitals were released the same day with only minor injuries. The response

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to the tornado highlighted the exceptional cooperation between local, county, and state resources to prepare for and respond to emergencies.

Training continues to be a focus. The Office of Emergency Management hosted Incident Command System courses that are designed to familiarize individuals who would be assigned to the Emergency Operations Center (EOC) with the processes associated with large incident response.

The Office of Emergency Management also supports the many special events hosted by the City of Grapevine by operating the EOC while festivals and events are in progress. The EOC serves as a communications hub for the event and allows for the maintenance of situational awareness that is necessary to support City staff on the festival/event grounds.

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Grapevine Citizens Fire Academy Alumni

Volunteer hours are compiled by functional area: Administration, Operations, Prevention and CFA Planning and Support.

From October 1, 2022 through September 30, 2023, the GCFAA provided 1,288 hours in support of GFD. During this time frame, CFA responded to many requests from the Department for assistance. Major support requests include public education support, equipment and supplies for fire stations, and assisting with the annual fireworks demonstration on July 4th.

A breakdown of the hours volunteered by the GCFAA are as follows.

Support of General Administration	116
Support of Fire Prevention	64
Support of Operations	863
CFA Planning and Support	245
Total Hours Volunteered	1,288

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Contacts

Chief Darrell Brown	817-410-4450
Assistant Chief Stuart Grant	817-410-4430
Assistant Chief Wes Williams	817-410-4452
Fire Marshal Bryan Parker	817-410-4420
Division Chief Jamey Shipler	817-410-4435
Division Chief Jimmy Cox	817-410-4440
EMC T.J. Manor	817-410-4470

Social Media

