

# GRAPEVINE FIRE DEPARTMENT



## ANNUAL REPORT 2021

**GRAPEVINE FIRE DEPARTMENT**  
**Annual Report 2021**

**Table of Contents**

I.	Mission, Vision, and Values .....	3
II.	Message from the Chief .....	9
III.	Organizational Chart .....	10
IV.	Employee Demographics .....	11
V.	Firefighter Certifications .....	12
VI.	Administrative & Support Services .....	13
VII.	Fire Prevention & Community Safety .....	14
VIII.	Fire and EMS Operations .....	19
IX.	Operations Highlights .....	22
X.	Emergency Management .....	23
XI.	Grapevine Citizens Fire Academy Alumni .....	25
XII.	Contacts .....	26

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### 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

- |                          |  |
|--------------------------|--|
| <b>RESPECT OTHERS</b>    | We will have <b>respect</b> for the people we serve, <b>respect</b> for our members, <b>respect</b> for our organization, and <b>respect</b> for ourselves.  |
| <b>PURSUE EXCELLENCE</b> | We will <b>pursue excellence</b> with an unrelenting passion and will never accept mediocracy.   |
| <b>BE ACCOUNTABLE</b>    | We will <b>hold each other accountable</b> at all levels of our organization.  |
| <b>BE BETTER TODAY</b>   | <b>Today</b> we will strive to <b>be better</b> at our profession <b>than we were yesterday</b> . 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.

**GRAPEVINE FIRE DEPARTMENT**  
**Annual Report 2021**



# GRAPEVINE FIRE DEPARTMENT Annual Report 2021



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021



**GRAPEVINE FIRE DEPARTMENT**  
**Annual Report 2021**



# GRAPEVINE FIRE DEPARTMENT Annual Report 2021



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Message from the Chief

I am pleased to present the Grapevine Fire Department (GFD) Annual Report for Fiscal Year 2021. Perhaps more than ever in our 137-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 have decreased. We continue to focus on national and regional incidents, constantly evaluating how to prevent and respond should something occur in our locale. As our city continues to evolve, our desire remains to provide the highest level of first-class service.

In 2021, GFD responded to 6,696 calls for service resulting in 13,852 responses by your fire department. These calls include fires, medical emergencies, rescues, hazardous chemical responses, and other general calls for public service. Of the 6,696 calls for service, 70% or 4,264 calls were for Emergency Medical Services. Likewise, we responded to several neighboring fire departments' calls for assistance. In turn, these neighbors provided us service when we needed them.

The Grapevine Fire Department continues recruiting and hiring the best people to join our team. We added several new members this year, and they are all doing well. Hiring continues to be a challenge for most of us in the fire service.

2021 has been a busy year around our fire stations. We have moved into all four of our remodeled or newly built stations. We have had hose uncoupling ceremonies at Stations 1 and 4 and hope to have open houses at Stations 2 and 3 this coming Spring. Looking forward, we know that our fire stations are in great shape for many decades to come.

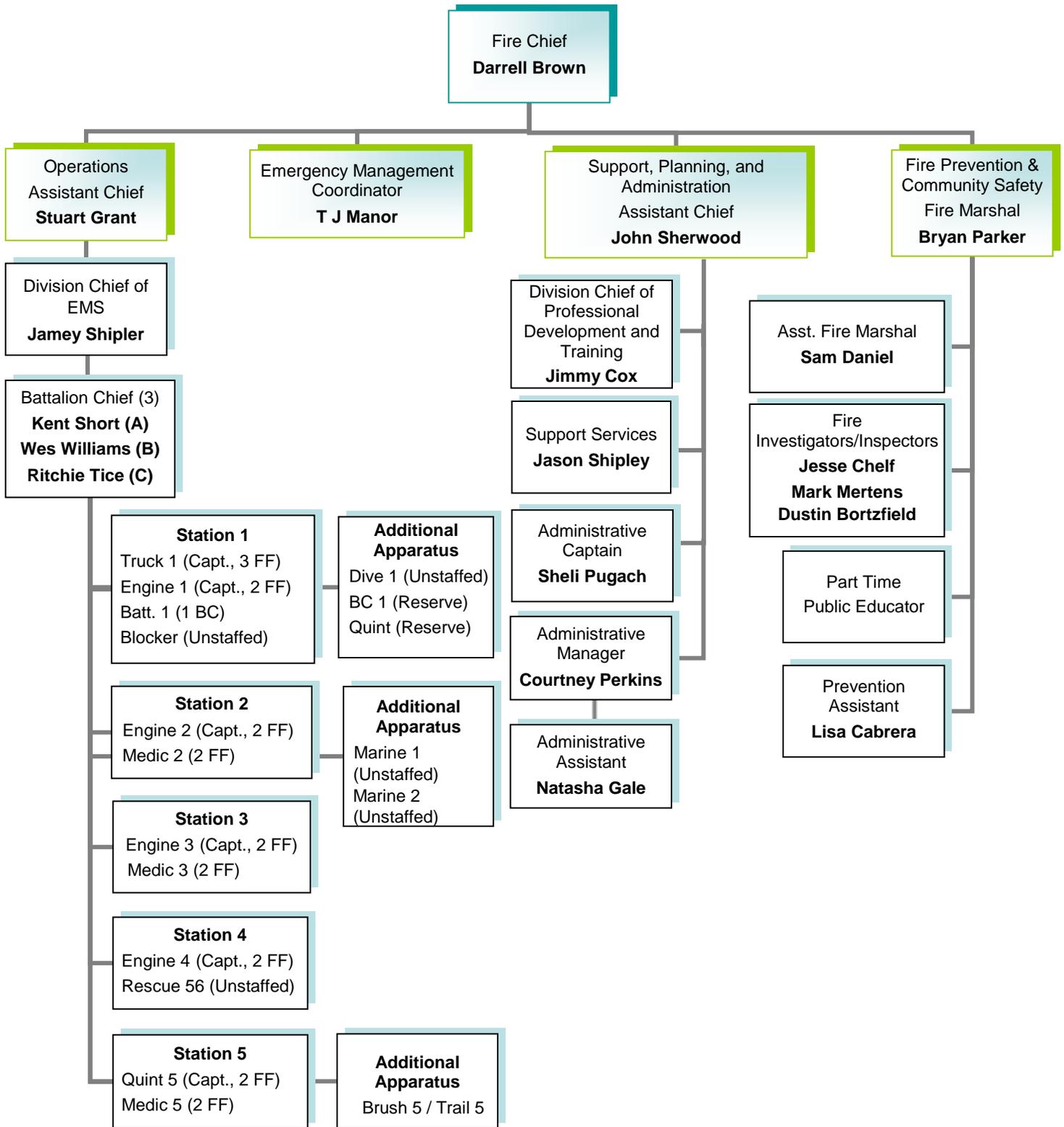
Please feel free to stop by any one of our five fire stations for a tour or to visit with some of the best and brightest firefighters anywhere in America. Your family is our family, and we are always here to help. It is my honor to serve the men and women of the Grapevine Fire Department and its citizens.



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Organizational Chart



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### 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		Sworn Staff Age	
5 years or less	35	20-29	22
6 to 15 years	42	30-39	38
16 to 25 years	21	40-49	34
26 to 30 years	5	50-59	14
31 years or more	2	60 +	1

From October 1, 2020 to September 30, 2021, 3 members have retired and several others have left for various reasons. The Department has hired 8 new members. 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.

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### 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.

<b>Firefighter Certification</b>	
Master	27
Advanced	38
Intermediate	16
Basic	23

<b>Fire Service Instructor</b>	
Master	1
Advanced	5
Intermediate	42
Basic	37

<b>Fire Prevention Related Certifications</b>	
Arson Investigator Master	4
Arson Invest. Advanced	2
Investigator Master	6
Investigator Advanced	4
Investigator Intermediate	1
Investigator Basic	0
Fire Inspector Master	5
Inspector Advanced	2
Inspector Intermediate	2
Inspector Basic	2
Plans Examiner	8

<b>Fire Operations Related Certifications</b>	
Hazardous Materials Technician	19
Incident Safety Officer	25
Incident Commander	12
Driver/Operator	94
Driver/Aerial	45
Wildland	3
Fire Officer 1	24
Fire Officer 2	26
Fire Officer 3	1
Fire Officer 4	8
Fire & Life Safety Education	9

# GRAPEVINE FIRE DEPARTMENT Annual Report 2021

## Administrative & Support Services

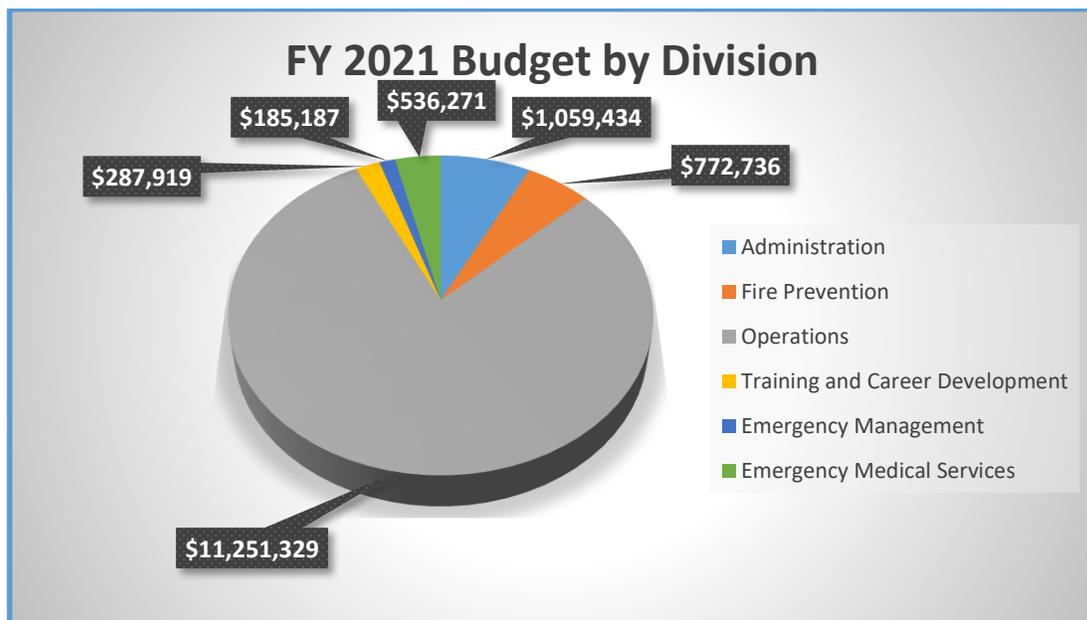
Administration and Supportive Services is responsible for:

- 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 35,000 hours of training. In addition, the division is responsible for the department firefighter health and wellness programs.



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### 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 33.1% since last year. This increase was directly related to COVID precautions being relaxed by the Department and businesses alike.

#### Fire Prevention Activities

<b>ACTIVITIES</b>	<b>2019-2020</b>	<b>2020-2021</b>
Inspections	3,147	4,436
Plan Review	407	373
Consultations	561	746
Public Education	3	7
Training	2	2
Investigations	7	17
Detectors/Batteries	49	27
Life Jacket Program	77	54
<b>Total</b>	<b>4,253</b>	<b>5,662</b>

# **GRAPEVINE FIRE DEPARTMENT**

## **Annual Report 2021**

### **Fire Inspection Activities**

Fire inspections of buildings within the city is accomplished through the effort of full-time fire inspectors. Inspection activities have increased by 33.1% in the last fiscal year. This increase was directly related to COVID restrictions being relaxed by the Department and businesses alike.

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.

# GRAPEVINE FIRE DEPARTMENT Annual Report 2021

## APPARATUS of the GRAPEVINE FIRE DEPARTMENT



Truck Company



Mobile Intensive Care Unit

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021



Engine Company



Dive Unit

# GRAPEVINE FIRE DEPARTMENT Annual Report 2021



Heavy Rescue



Fire Boat

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Fire and EMS Operations

The Fire Department Operations Division has usually experienced a consistent yearly increase in the annual number of response calls, however in FY 19-20 there was a decrease, but FY 20-21 saw a 14.6% increase in calls from the previous year.

<b>Fire Department Total Call Volume</b>	<b>2019-2020</b>	<b>2020-2021</b>
Total Fire Apparatus Calls without EMS	1,832	2,435
Total Ambulance Calls with Fire Apparatus	4,008	4,266
<b>Total Fire Department Calls</b>	<b>5,840</b>	<b>6,701</b>

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.

<b>Fire Department Total Response Volume</b>	<b>2019-2020</b>	<b>2020-2021</b>
Total Fire Apparatus Responses	7,901	9,437
Total Ambulance Responses	4,675	4,415
<b>Total Fire Department Response</b>	<b>12,576</b>	<b>13,852</b>

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.

<b>Fire Apparatus Call Volume</b>	<b>2019-2020</b>	<b>2020-2021</b>
<b><i>Fires</i></b>	128	158
Includes structure, vehicle, grass		
<b><i>Medical (excluding MVA)</i></b>	3,364	3,616
All medical assistance by fire crews		
<b><i>Rescue</i></b>	662	1,096
Includes all MVA, extrication, rescue		
<b><i>Hazardous Conditions</i></b>	143	182
Includes gas or fuel leaks, overheat, electrical hazards, severe weather		
<b><i>Public Service</i></b>	608	894

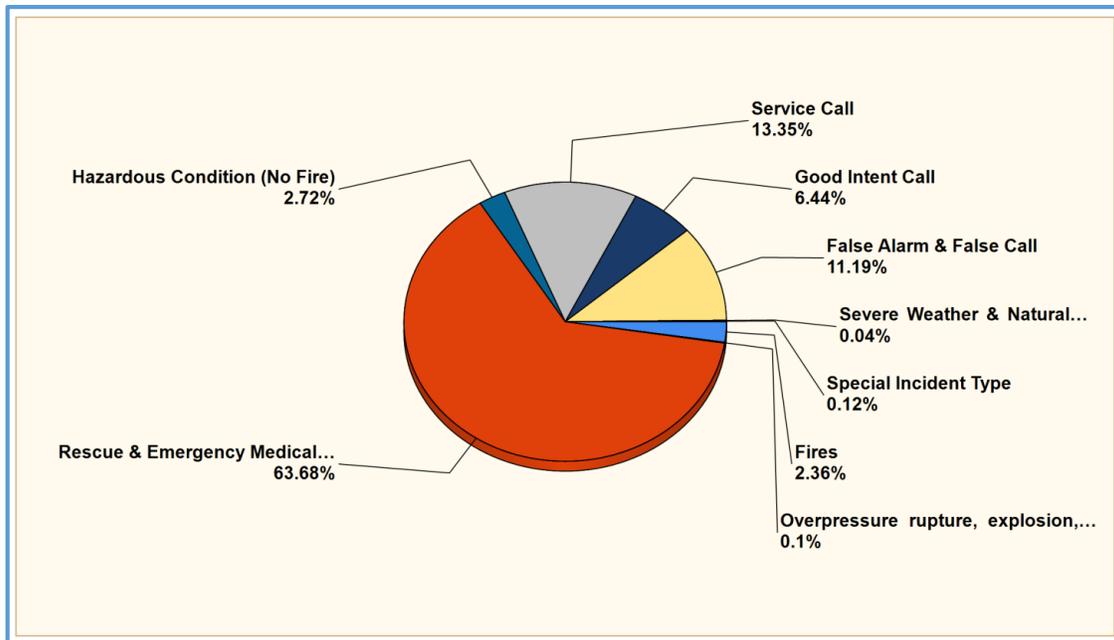
## GRAPEVINE FIRE DEPARTMENT Annual Report 2021

Public Assistance, animal rescue, cover assignments		
<b>False Calls and Alarms</b>	927	749
No hazard found, malfunctioning alarms, good intent, etc.		
<b>Severe Weather</b>	8	6
Natural disaster, wind storm, lightning strike		
<b>Total Fire Apparatus Calls</b>	<b>5,840</b>	<b>6,701</b>

Similar to fire apparatus call volumes, ambulance call volumes increased during FY 20-21 with an easing of the pandemic. The City of Grapevine experienced a 6.4% increase in call volumes from last year and Emergency Medical Service calls account for approximately 70% of all fire department calls.

Ambulance Call Volume	2019-2020	2020-2021
Patients treated and transported	3,175	3,136
Patients not transported	833	1,130
<b>Total Ambulance Responses*</b>	<b>4,008</b>	<b>4,266</b>

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



# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### 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)	2020-2021
Turn Out Time	1:04
Travel Time	4:55
Response Time	5:59
Second Responding Unit (Structure Fires)	6:23

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Operations Highlights

- Received a new Engine and put it in-service as Engine 1.
- Assisted with staffing at the Hurst vaccination clinic to fight the COVID pandemic.
- Acquired two life-like manikins and furniture for realistic training in the Simulation Lab.
- Reactivated a reserve Engine and outfitted it with arrow boards to answer incidents on the freeways as a blocking unit.
- Started the renovation project on the 1928 Model A fire engine.
- Refurbished the skid unit on Brush 5 with secure compartments.
- Received the Fitch and Associates study on the Department with recommendations to enhance operations.
- Received the Mission Lifeline Gold Plus Award for STEMI activations and cardiac care.
- Received a new vehicle for Battalion Chiefs.
- Participated in the Make-A-Wish program to enrich the lives of those less fortunate.
- Held full-scale high rise exercises with the entire Department.
- Enhanced the Department's drone capabilities and increased the number of pilots.
- Started having members volunteer to work in the Alarm Office to help with the shortage of Dispatchers.
- Enhanced EMS operations by installing EKG monitor mounts on the stretchers and incorporating our DEA numbers into one number for the Department.
- COVID – 19 disrupted operations at events and in the way the Department responds and operates every day. Events were cancelled and members were asked to wear masks, take temperatures, and socially distance.
- Enhanced operations for Marine incidents by adding a Live Scope System and a Tow Fish (towable sonar) to assist in locating victims in the water.
- Received an increase in the amount received from the Texas Ambulance Supplemental Payment Program.
- Several members attended an advanced shoring class at TEEX.
- Engine 2 was involved in a major accident with a citizen while they were enroute to a structure fire.
- New Fire Station 3 was opened on December 18, 2020.
- New Fire Station 2 was opened on January 18, 2021.

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021



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.

In FY 2020-2021, the Grapevine Fire Department's Office of Emergency Management continued to support COVID-19 operations by coordinating staff participation at the Northeast Tarrant County Vaccination Site in Hurst. The support provided to the vaccination site enabled a

# **GRAPEVINE FIRE DEPARTMENT**

## **Annual Report 2021**

successful vaccination program and ensured our citizens had as many vaccination options as possible.

The City was severely impacted by the winter storm that crippled much of the State of Texas. The response to the storm was coordinated out of the Emergency Operations Center (EOC). Some of the activities coordinated from the EOC consisted of damage assessments, facilitating the restoration of power and water to residents, and the establishment of warming centers for displaced residents.

Our major special events resumed in 2021 with the Parade of Lights and other modified “Christmas Capitol of Texas” events. Main Street Fest and Grapefest also returned at full capacity and were a great success. The Office of Emergency Management supported these events by conducting emergency planning for the event and maintaining situational awareness from the EOC.

The Office of Emergency Management established the Grapevine Emergency Management Advisory Committee (GEMAC). This mission of this committee is to bring all emergency management stakeholders together to discuss relevant issues and to coordinate activities. The first meeting was held in October and kicked off the initial stages of the development of the City’s Continuity of Operations Plan which will be complete in the spring of 2022. Future GEMAC initiatives will be an update of the Damage Assessment Plan and implementation of the Debris Management Plan that was developed in coordination with regional partners.

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Grapevine Citizens Fire Academy Alumni

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

From October 1, 2020 through September 30, 2021, the GCFAA provided 1,467 hours in support of GFD. During this time frame, CFA responded to many requests from the Department for assistance. Major support requests included a front desk 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	9
Support of Fire Prevention	244
Support of Operations	861
CFA Planning and Support	353
<b>Total Hours Volunteered</b>	<b>1,467</b>

# GRAPEVINE FIRE DEPARTMENT

## Annual Report 2021

### Contacts

Chief Darrell Brown	817-410-4450
Assistant Chief Stuart Grant	817-410-4430
Assistant Chief John Sherwood	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

