















CHULA VISTA FIRE DEPARTMENT

ANNUAL REPORT

2020





WELCOME TO THE CHULA VISTA FIRE DEPARTMENT

I am pleased to share our 2020 annual report. As the second iteration, you find that we are continuing down a consistent path identified by our last administration to improve public safety. Through staffing improvements, innovative resource deployments, optimizing fire station locations, developing new prevention programs, and focusing on engaging with the public the Chula Vista Fire Department is making the City a safer place to live and work.

Inside you will see the tremendous efforts of the women and men of the Chula Vista Fire Department categorized in our lines of service; Administration, Emergency management, Emergency Medical Services, Fire Prevention, Operations and Training.

We are proud to serve the citizens of Chula Vista and our visitors, and even more so during the COVID-19 pandemic. Our organization has made many adjustments along with everyone impacted by COVID-19, with the intent to ensure we maintained service levels and expectations of the public.

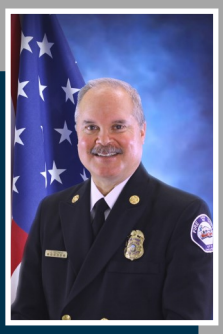


As we approach our Fire Department's 100th year of service on May 2, 2021, we look forward to demonstrating our commitment to service by continuing to improve for the betterment of the City of Chula Vista and the

Stay Healthy and Safe,

Harry Muns

Fire Chief



Special Thanks and Congratulations to Chief Geering!

For:

- ◊ 35 Years of Service
- ◊ Prioritizing firefighter and community safety resulting in 28% increase in operations staffing
- ◊ Directed efforts improving the fleet of fire apparatus and equipment
- ◊ SQUAD Program implementation, reducing response times in Eastern Chula Vista by 14%
- ◊ The opening of Station 10 and the relocation of Station 5 and Station 9
- ◊ Guidance incorporating the Ambulance Transport Program to begin April 2021
- ◊ Served on the executive board of the San Diego Fire Chiefs Association, the Firefighters Advisory Council and was a founding member of the Chula Vista Firefighter's Foundation

Enjoy Retirement! It is well deserved!

"People who care about people"

How to get in touch with us…

Main Line: (619) 691-5055

Website: https://www.chulavistaca.gov/departments/fire-department

Prevention: (619) 691-5029

Email: mzepeda@chulavistaca.gov

COVID-19 Updates:

https://www.chulavistaca.gov/residents/coronavirus

Station Tours:

Website: https://www.chulavistaca.gov/departments/fire-department/stations-locations/station-tours

Records Request:

Clerk's Office (619) 691-5041

Website: https://www.chulavistaca.gov/departments/city-clerk/public-records



What's Inside:

- Administration
- Emergency Management
- Emergency Medical Services
- Fire Prevention
- Operations
- Training

ADMINISTRATION

Staffing

Sworn Staff		Daily Suppression Staff Per 24 Hour Shift	Daily Suppression Staff with SQUADs
Fire Chief	1		
Deputy Chief	3		
Division Chief	1		
Battalion Chief - Supression	6	2	2
Batallion Chief - Administrative	4		
Fire Captain - Suppression	36	12	14
Fire Captain - Administrative	3		
Fire Engineer - Suppression	36	12	12
Fire Engineer - Administrative	1		
Firefighter/Paramedic	36	12	14
Firefighter/EMT	33	11	11
Sr. Fire Inspector/Investigator	2		
Fire Inspector/Investigator II	4		
Fire Inspector/Investigator I	3		
Total Sworn Staff	**169**	**49**	**53**

Civillian Staff	
Administrative Secretary	1
Emergency Services Coordinator	1
Facility Supply Specialist	1
Fire Inspector II/Investigator	0.5
Fire Prevention Specialist	1
Medical Director	1
Multi Media Production Specialist	1
Public Safety Analyst	1
Senior Fiscal Office Specialist	1
Senior Management Analyst	1
Senior Office Specialist	1
Training Program Specialist	1
Total Civilian Staff	**11.5**
Volunteer Staff	
Fire Chaplain	1
CAST	33
CERT	58
Fire Explorers	43
Total Volunteer Staff	**135**

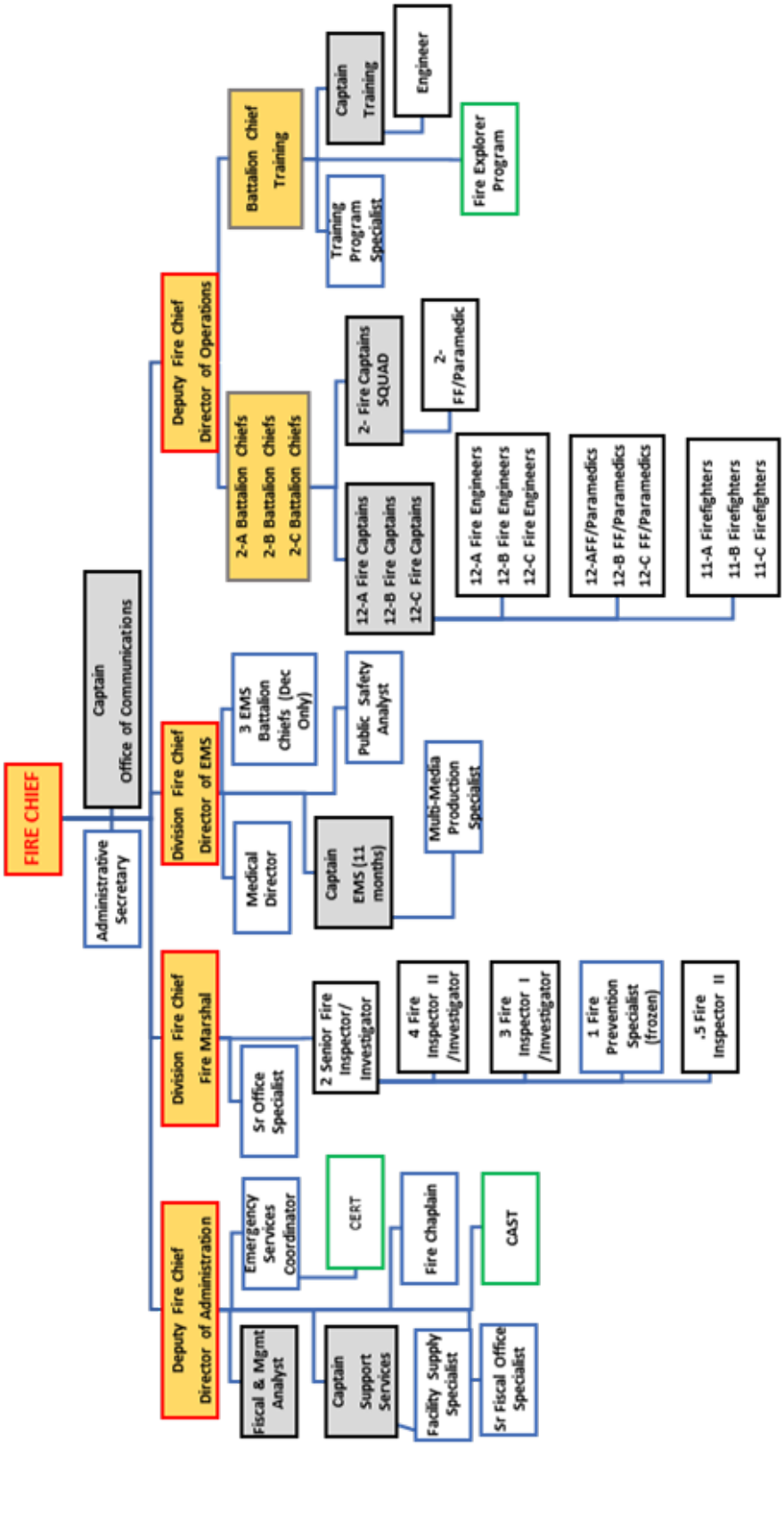
Budget

Expenditures	**Budgeted**	**Actual**
General Fund Expenditures	32,947,728.97	33,705,420.67
First Responder Adanced Life S	1,997,768.00	1,842,800.00
Measure A Expenditures	7,762,796.00	6,345,509.00
Other Funding Expenditures	2,223,525.00	2,010,259.00
Total Expenditures	**44,931,817.97**	**43,903,988.67**
Revenues - General Fund	**4,521,682.00**	**5,788,347.00**
Licenses & Permits	680,489.00	659,464.00
Use Money/Property	36,000.00	36,228.00
Federal Revenue	344,410.00	422,984.00
Other Agency Revenue	610,000.00	610,000.00
Charges for Services	574,330.00	711,950.00
Other Revenue	198,085.00	700,657.00
Transfers In	2,078,368.00	2,647,064.00
Revenues - Measure A	**10,523,731.00**	**10,196,814.00**
Federal Revenue	82,405.00	82,405.00
Transfers In	10,441,326.00	10,114,409.00
Revenues - ALS	**1,949,287.00**	**2,681,031.00**
Federal Revenue	4,642.00	4,642.00
Other Agency Revenue	1,944,645.00	2,676,389.00
Other Funding Revenues	**2,309,815.00**	**1,590,296.00**
Other Agency Revenue	7,500.00	7,500.00
Charges for Services	133,000.00	96,324.00
Federal Revenue	2,106,989.00	1,424,146.00
Transfers In	62,326.00	62,326.00
TOTAL REVENUES	**19,304,515.00**	**20,256,488.00**

Employees by Bargaining Group	
IAFF	164
Association of Chula Vista Employees (ACE)	8
Unrepresented Professional and Mid Managers	3
Senior Managers	3
Executive	1
Not Represented	1.5

Fire Department Staff	
Daily Supression Staff	49
Daily Fire Prevention Staff	13
Daily Training Division Staff	4
Total Clerical Staff	4
Daily Logistical Support Staff	2
Total Support Staff (non-uniform) per weekday	11.5
Total FD Non suppression staff per weekday	33.5
Total Staff Per Weekday Suppression & Non-Suppression	86.5
Total Fire Department Staff	**180.5**
Volunteer Total Staff	105
Fire Department Total w/ Volunteers	286

2020 CHULA VISTA FIRE DEPARTMENT ORGANIZATION CHART



Capital Projects & Improvements

Millenia Fire Station 10

- PFDIF Funded
- Opened in May 2020 at $8.27 Million
- 13,435 sq. ft. with three bays
- Two-story station includes pole and high speed roll-up doors
- To serve the areas of Millenia and Otay Ranch
- EC Constructors Inc and JKA Architecture



Fire Station 5





Fire Station 9

Fire Station 5 & 9 (Relocation & Re-build)

The necessary rebuilds created the opportunity to provide an improvement to our response network. Response modeling software called ADAM (apparatus deployment analysis module) utilized historic CAD data, GIS map data and a projection algorithm which generated the potential positive impact on response times as a result of adding unit/stations and relocating apparatus. According to the modeling analysis, the entire service delivery network will see response time improvements.

- Stations are over 60 years old
- Funded by Measure P
- Fire station 5 (391 Oxford) will be relocated/rebuilt on the east side of the South Library in April 2021
- Fire station 9 (366 E. Oneida) will be relocated/rebuilt at the intersection of Naples/Moss in May 2021
- Both progressing on-time at $20 Million

Apparatus

Measure A funded:

- One Type XI Engine (SQ62, SQ63, SQ64)

Transport Program funded:

- One EMS Battalion Vehicle
- Ordered 13 Type I Ambulances on F-450 Chassis with 14-foot boxes—Arriving in early 2021

CA Office of Emergency Services (OES):

- One BME OES Type III Engine (E6306)











Staff Vehicles

Measure P funded:

3 Training Vehicles

- Two Chevy F2500 HD Crew Cab (Captain, Engineer)
- One Utility Chevy 3500 HD Pickup with Lumber rack



EMERGENCY MEDICAL SERVICES

EMS Incident Type (CAD)

CAD Incident Type	%
Sick Person (Specific Dx)	14.00%
Breathing Problems	12.22%
Falls / Back Inj (Trauma)	11.35%
Unc/Fainting (Non Trauma)	8.87%
Chest Pain	8.80%
Traffic Accident	4.69%
Convulsions / Seizures	4.33%
Abdominal Pain/Problems	4.10%
Hemorrhage / Lacerations	3.70%
Stroke	3.54%
Assault/Rape	3.47%
Traumatic Injuries, Spec	2.48%
Cardiac / Respiratory Arrest	2.34%
OD/Ingestion/Poisonings	2.34%
Diabetic Problems	2.32%
Heart Problems	2.03%
Suspected COVID19	1.68%
Psych / Suicide Attempt	1.61%
Unknown Problem (Man Down)	1.18%
Allergy/Hives/Med Rx/Stng	0.98%
Headache	0.81%
Back Pain (Non Traumatic)	0.74%
Choking	0.60%
Stabbing/Gunshot	0.39%
Preg/Birth/Miscarriage	0.37%
Medical Alert Alarm	0.33%
Animal Bites/ Attacks	0.17%
Medical Aid	0.12%
Heat / Cold Exposure	0.10%
Eye Problems / Injuries	0.08%
Burns / Explosion	0.07%
POISON CONTROL	0.06%
C O / Inhalation/ Haz Mat	0.05%
CV Medical Aid	0.05%
Drowning/Diving Accident	0.03%
Carbon Monoxide Alarm	0.01%
Total	100.00%



EMS Training

EMT / CPR
EMS Skills
Protocol Updates
PALS Renewal
ACLS Training
Resusciiation Hands On
Trax Narcotics Module Training



EMS Average Response Time

	1st Unit	All Units
CVFD	0:05:03	0:05:41
AMR	0:09:50	0:10:07









Educational Links

Stroke Awareness and Prevention

https://www.cdc.gov/stroke/healthy_living.htm
https://www.stroke.org/en/about-stroke

Heart Disease

https://www.cdc.gov/heartdisease/index.htm

https://www.heart.org/en/health-topics/consumer-healthcare/what-is-cardiovascular-disease

Trauma/Injury Prevention

https://health.ucsd.edu/specialties/surgery/trauma-burn/trauma-prevention/Pages/default.aspx
https://www.rchsd.org/programs-services/trauma-center/injury-prevention/

COVID-19 Response

The City's Emergency Operations Center has been activated since March 13, 2020 in support of the City's COVID-19 response. The EOC coordinated the City's response, including:

- Installing 25+ handwashing stations and portable restrooms throughout the City
- Partnered with the San Diego Food Bank and Southwestern College to host a large-scale drive-thru emergency food distribution
- Established a food resource and delivery helpline for Chula Vista residents to request food resources or food delivery
- Provided staff to serve as call takers for 2-1-1 San Diego, focused on connecting South Bay residents with the services they need, including food and housing
- Secured and donated 10 RV trailers to South Bay Community Services to be used as transitional housing for families in need
- Partnering with the Chula Vista Elementary School District and Family Health Centers of San Diego to offer free testing for students and their families
- Chula Vista CERT volunteers activated to support food distribution events across San Diego County.
- Coordinated with the County and State of California to bring three testing sites to Chula Vista
    - Sesame Place, formerly Aquatica – East Chula Vista
    - Former SEARS – North Chula Vista
    - South Library – Southwest Chula Vista
- Conducted investigations into violations of the Public Health Order





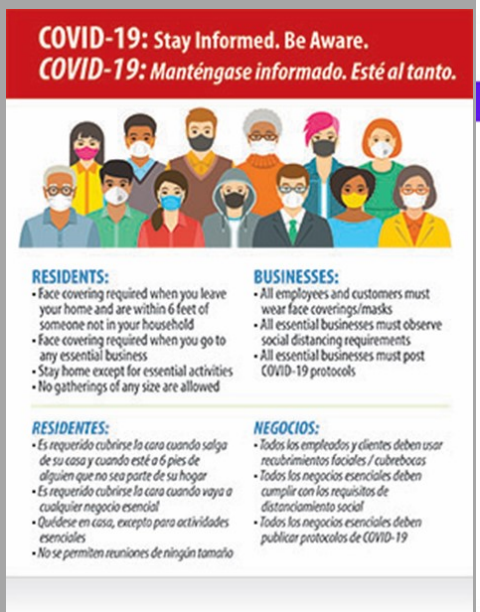




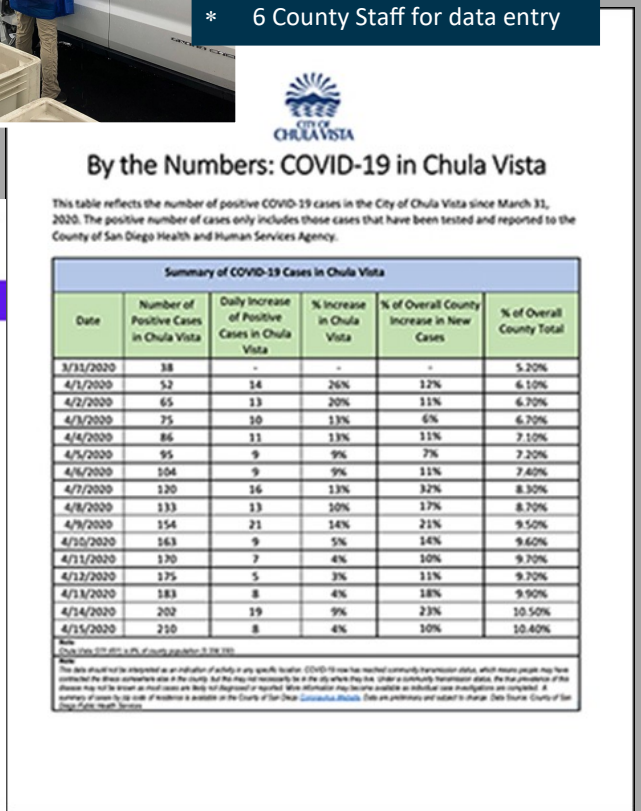


Staffing:

- 13 hourly EMTs for testing
- 4 Recreation employees for check-in
- 6 County Staff for data entry







CITY OF CHULA VISTA

By the Numbers: COVID-19 in Chula Vista

This table reflects the number of positive COVID-19 cases in the City of Chula Vista since March 31, 2020. The positive number of cases only includes those cases that have been tested and reported to the County of San Diego Health and Human Services Agency.

Summary of COVID-19 Cases in Chula Vista

Date	Number of Positive Cases in Chula Vista	Daily Increase of Positive Cases in Chula Vista	% Increase in Chula Vista	% of Overall County Increase in New Cases	% of Overall County Total
3/31/2020	38	-	-	-	5.20%
4/1/2020	52	14	26%	12%	6.10%
4/2/2020	65	13	20%	11%	6.70%
4/3/2020	75	10	13%	6%	6.70%
4/4/2020	86	11	13%	11%	7.10%
4/5/2020	95	9	9%	7%	7.20%
4/6/2020	104	9	9%	11%	7.40%
4/7/2020	120	16	13%	32%	8.30%
4/8/2020	133	13	10%	17%	8.70%
4/9/2020	154	21	14%	21%	9.50%
4/10/2020	163	9	5%	14%	9.60%
4/11/2020	170	7	4%	10%	9.70%
4/12/2020	175	5	3%	11%	9.70%
4/13/2020	183	8	4%	18%	9.90%
4/14/2020	202	19	9%	23%	10.50%
4/15/2020	210	8	4%	10%	10.40%

FIRE PREVENTION

Deliverables

New Construction plan reviews completed within established time frames: 97.7%

New Construction plan reviews completed: 670

New Construction inspections completed: 1,052

Hotel Motel inspections completed: 64

Hotel Motel violations: 150

Multi-Family Apartment inspections completed: 1,938

Multi-Family Apartment violations: 1,552

Annual Fire Code inspections completed: 1,488

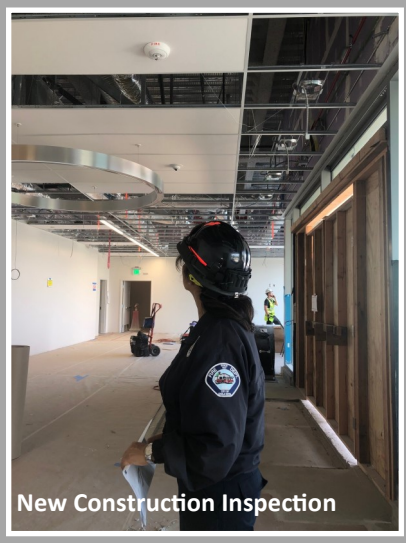
Annual Fire Code violations: 2,170

School inspections completed: 1,100

School violations: 463

Fire Hazard inspections completed: 291

Total Inspections: 5,933 **Total Violations: 4,335**


New Construction Inspection


Annual Permit Inspection



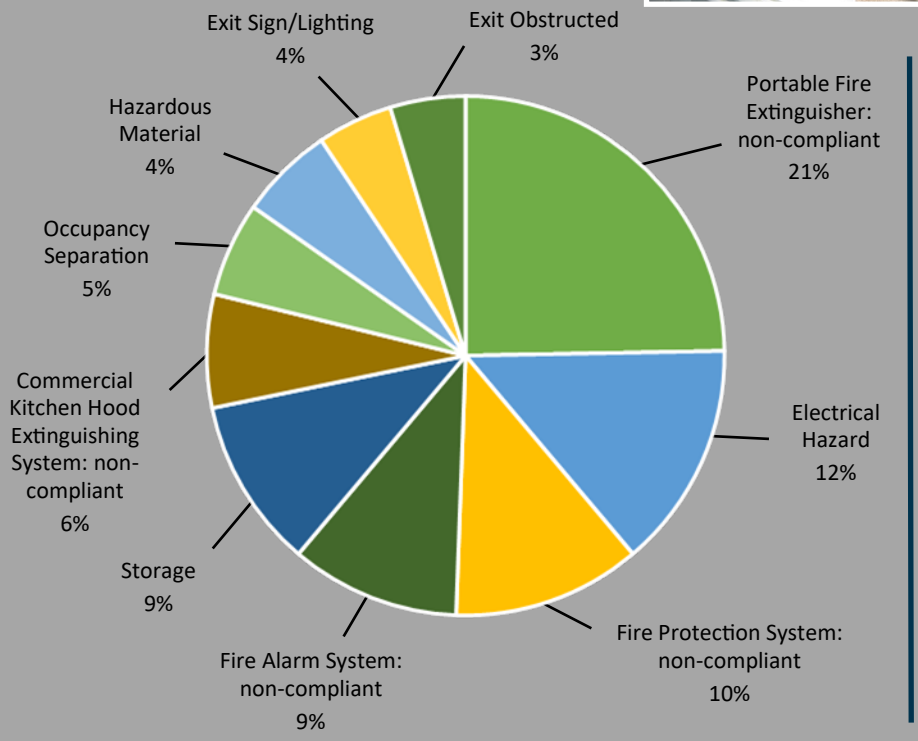
Fire Investigations

Number of investigations: 48

Unit responses 121

Ave. unit hours at scene 3:11:55

Top 10 Inspection Violations



Fire Ignition Source Determination	%
Heat from powered equipment, other	8.9%
Electrical arcing	6.7%
Heat from other open flame or smoking materials, other	6.7%
Cigarette	4.4%
Flame/torch used for lighting	4.4%
Heat source: other	4.4%
Spontaneous combustion, chemical reaction	4.4%
Heat from direct flame, convection currents	2.2%
Heat from undetermined smoking material	2.2%
Hot ember or ash	2.2%
Lighter: cigarette, cigar	2.2%
Molten, hot material	2.2%
Spark, ember, or flame from operating equipment	2.2%
Undetermined	46.7%

Division Chief/Fire Marshal Justin Gipson **Sr Fire Inspector/Investigator** Darin Golden Derek Olivas **Fire Inspector II/Investigator** Richard Gari Fernando Felix Maggie Greene Adam Beardsley Kelly Briars (PT) **Fire Inspector I/Investigator** Justin Berkley Chris Smith Marshall Castro **Sr Office Specialist** Mariluz Zepeda

OPERATIONS

Fire Operations consists of ten fire stations and 147 suppression firefighters. In 2020, CVFD responded to 22,949 incidents known as calls for service (CFS), increasing 19.4 percent over the last five years. On average there are sixty-three CFS per day spread amongst 12 staffed companies. Two engine companies have call volume over 4,500 each per year. Daily operations include a total of 53 professional firefighters per day staffing nine engine companies, two aerial ladder trucks, one Type I Urban Search & Rescue (US&R), two 12 hour squads, and two Battalion command vehicles.

4-0 Staffing

In 2020, 4-0 staffing improvements continued with the addition of a Firefighter to 4 engines. 4-0 staffing allows for the crews and patients to be at scene a shorter period of time, thus the unit is then available for its next call. There is one engine remaining in the CVFD network that will go to 4-0 staffed in 2021.

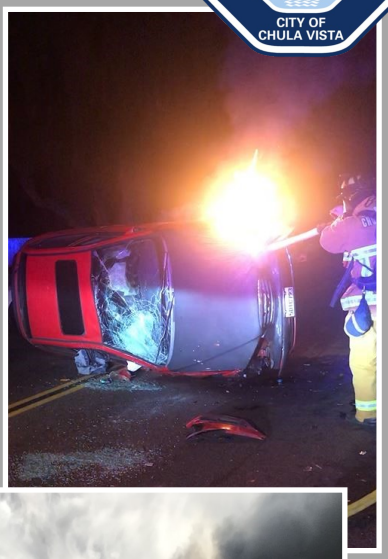
COVID and Call Volume

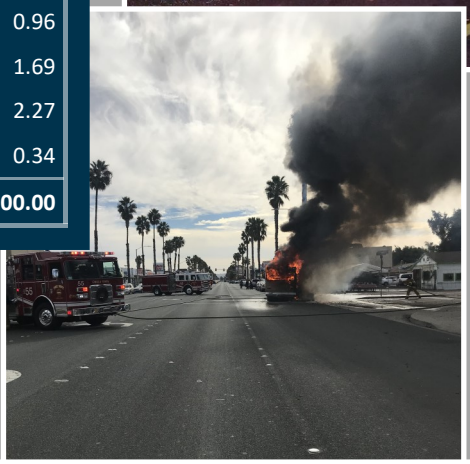
With the pandemic came a lower request for service due to stay at home order.

Calls For Service in Chula Vista

Includes responses by CVFD and neighboring Fire Departments.

Incident Type	Dispatch	% of Total
Fire	2,078	8.61
Structure	1,370	
Grass, Trash, Other	553	
Vehicle	155	
Overpressure Rupture	0	0.00
EMS	20,792	86.14
Rescue	232	0.96
Hazardous Condition	407	1.69
Service Call	548	2.27
Incomplete	81	0.34
TOTAL	**24,138**	**100.00**













CVFD CFS—Changes by Year

Calendar Year	Total	% Diff. (+)	Cum % Diff
2020	22,949	1.1	38.8
2019	22,700	5.5	37.7
2018	21,514	0.3	32.2
2017	21,445	7.8	31.9
2016	19,892	4.7	24.1
2015	18,998	6.6	19.4
2014	17,825	8.8	12.8
2013	16,377	4.0	4.0
2012	15,742		

Vehicle Rescue/ Extrications

EMS	11
Rescues	15
Other	5

Metrics:	Baseline*	2020	Threshold
Arrival of the first unit on scene to a medical emergency within seven minutes	80.3%	84.0%	90.0%
Initial Attack Force (one engine and four firefighters) in seven minutes	63.3%	72.3%	90.0%
Effective Response Force (fourteen firefighters) in ten minutes	58.1%	70.9%	90.0%

*Baseline (FY17) established prior to stafing improvements

Station 1: 447 F St

Units: B51, E51, T51
Incidents: 6,611
Responses: 7,835



Station 2: 80 East J St

Units: E52, O420
Incidents: 2,064
Responses: 2,353



Station 4: 850 Paseo Ranchero

Units: E54, BR54
Incidents: 1,482
Responses: 2,185





Station 6: 605 Mount Miguel Rd

Units: E56, BR56
Incidents: 947
Responses: 1,370

Station 8: 1180 Woods Dr

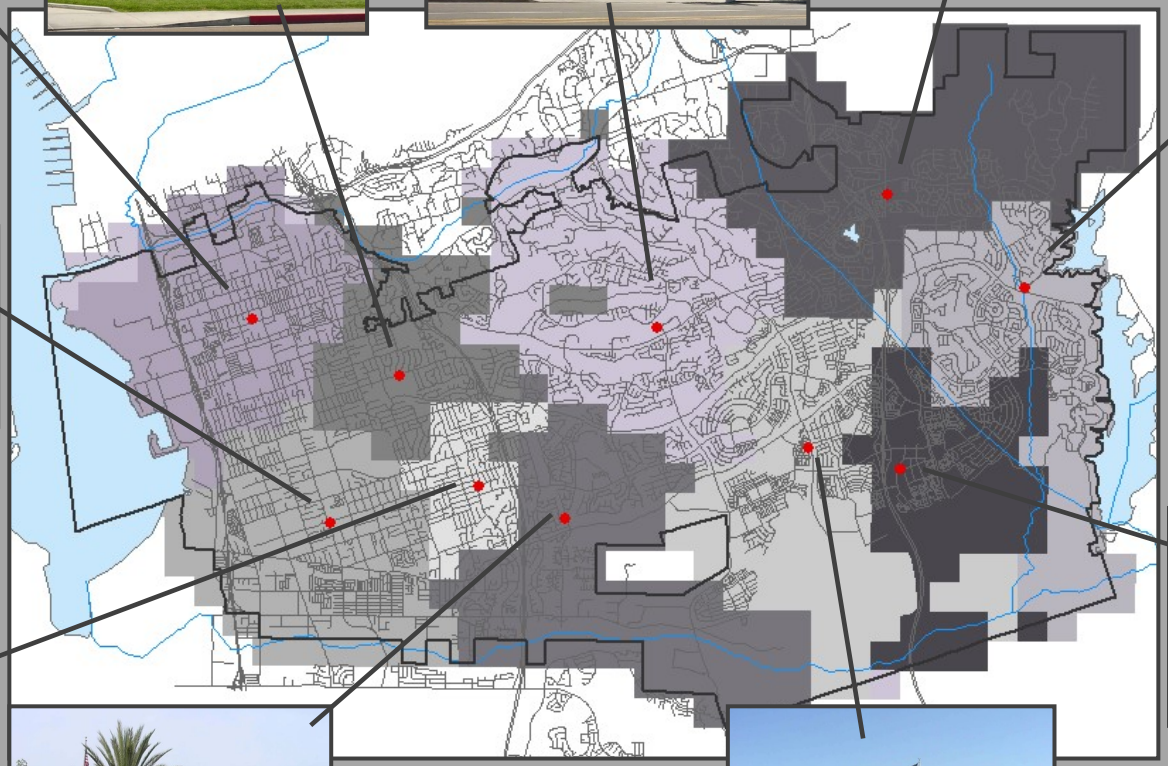
Units: E58
Incidents: 1,215
Responses: 1,856



Station 5: 391 Oxford St

Units: E55, O6306
Incidents: 5,241
Responses: 6,316





Station 10: 1715 Millenia Ave

Units: E60
Incidents: 293
Responses: 445
Opened: May 2020



Station 9: 266 East Oneida

Units: E59
Incidents: 1,809
Responses: 2,109





Station 3: 1410 Brandywine Ave

Units: USAR53
Incidents: 1,358
Responses: 2,013



Station 7: 1640 Santa Venetia

Units: B52, E57, T57
Incidents: 2,001
Responses: 3,026

Incidents—The number of Calls for Service responded to within the station district.

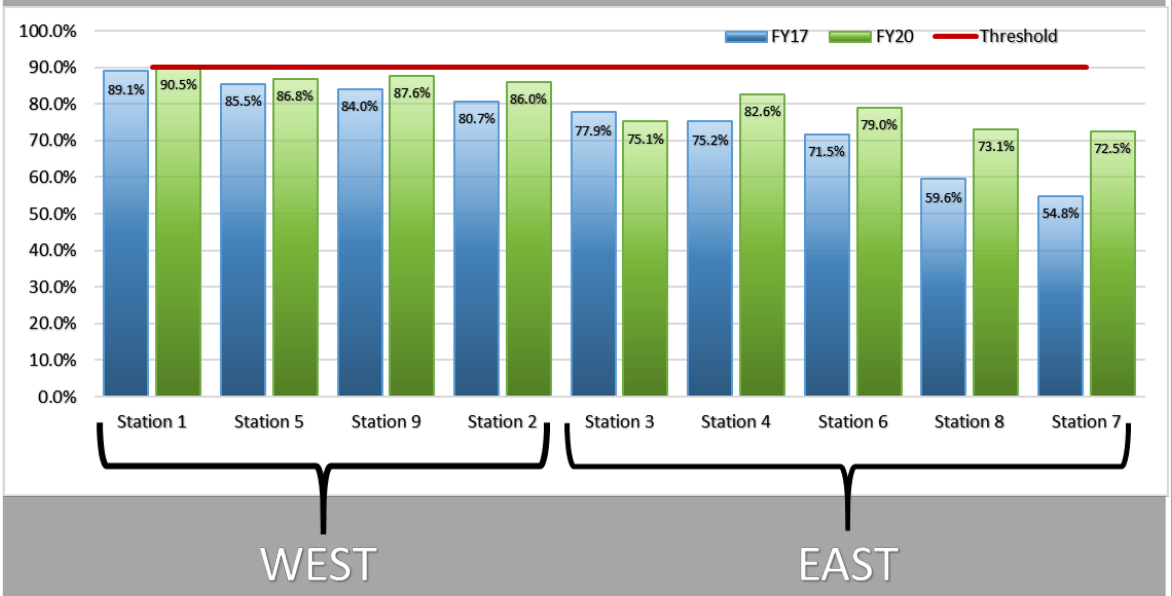
Responses—The number of units responding to the incidents within the district. Some CFS require more than one unit to mitigate the emergency.

Unit Responses:

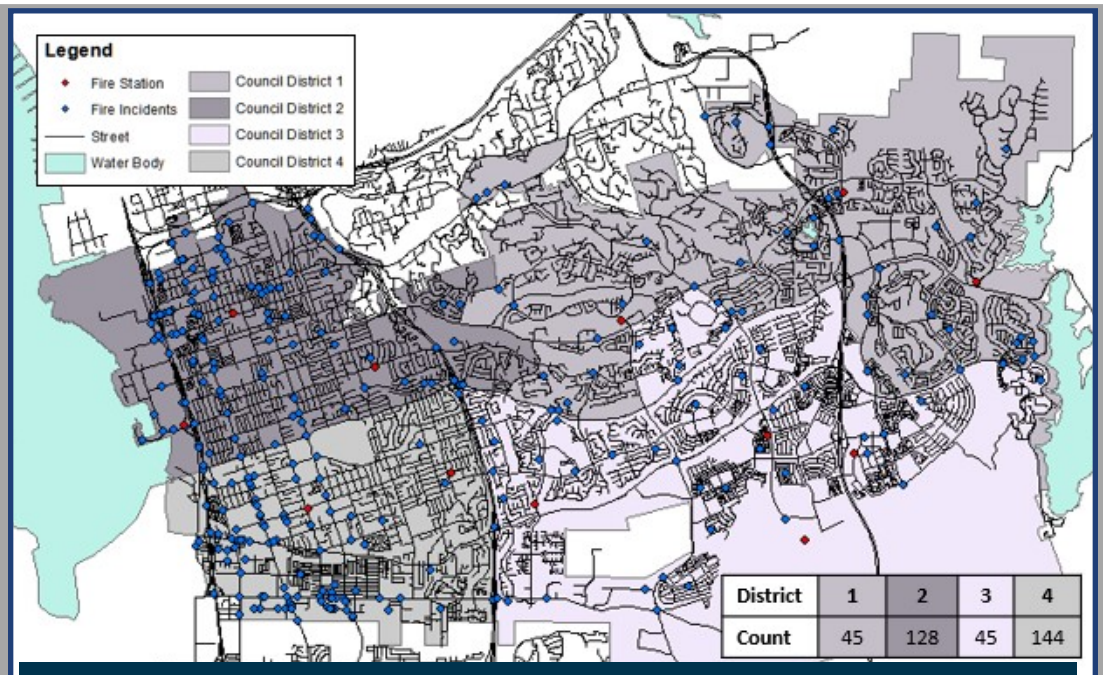
Multiple units may be requested on one CFS.

Unit	Daily Ave.	Monthly Ave.
B51	1.3	37.2
B52	0.8	22.7
BR54	0.03	0.8
BR55	0.02	0.5
BR56	0.07	2.2
E51	15.6	475.2
E52	5.0	151.7
E54	4.3	131.8
E55	12.7	386.6
E56	2.9	87.1
E57	5.3	161.0
E58	3.5	105.5
E59	6.5	198.6
E60	1.4	41.5
SQ62	5.2	157.2
SQ63	1.7	51.4
T51	5.0	151.0
T57	1.2	35.2
USAR53	5.1	155.6
TOTAL	**77.4**	**2354.5**

7 Minutes 90% Threshold—Fire & EMS



Shown in green, are the Response Time Improvements made by Station



Fires Fought and Extinguished by CVFD by Council District

(Total responses to fires 2,078)

Strike Team

The Chula Vista Fire Department participates in the California Fire Assistance Agreement to support other jurisdictions in the local area and throughout California. In 2020, fire operations deployed 56 personnel to 29 incidents throughout California.

The Chula Vista Fire Department participates in the FEMA Urban Search and Rescue System to support other jurisdictions nationally. In 2020 fire operations deployed 2 personnel to 4 incident in the states of Hawaii, Louisiana and Texas.

Grant	FY2016 SAFER	FY2018 AFG	FY2018 SAFER	EMPG 19	SHSP 19	UASI 19
Year	3	1	3	1	3	2
Time Frame	Jan 2018 - Jan 2021	Sept 2019 - Sept 2020	Jan 2020 - Jan 2023	July 2019 - May 2020	Sept 2019 - May 2022	Sept 2019 - Dec 2021
For	4th FF on 4 engines (Total 12FF)	All FF Trained/qualified on NWCGFF Type II	Engine 60 Personnel (12 FF)	EOC Coordinator and EOC Upgrade	EOC Coordinator	Training and Software/licenses/AWS
Award Value	$2.2M (FEMA)	$14,872 (FEMA)	$3m (FEMA)	$ 63,879 and $ 71,600	$35,000.00	$ 59,459 and $ 93,199
Cost Share	$1.4M from City	$1,487 from City	$1.8m from City	$ 63,879	$ -	$ -

TRAINING

Training Hours

JAC/SWC hours 74,607

Wellness Exercise hours 10,887

Total Training hours **85,494**

74% increase from 2019!

Training Catagories	Classes
Mandatory In-service Training (Confined Space, Driver, Hazardous Materials, Wildland Safety)	4
Mandatory Testing (Audiograms, Mask Fit/SCBA Flow)	2
Additional Training Online via Target Solutions	31
Additional Training	3
Training Video Projects	85

Academy 20-01: 23 Recruits
16 Weeks of CSFM 111 and CVFD Specific Curriculum and testing
4 weeks of technical rescue courses and testing
CA DMV Firefighter Endorsement training
Tiller Academy
Probationary Development Benchmark Exam (4 months) Engine

Course Offerings
Nozzle Forward (First time in San Diego County)
Regional Instrutor Orientation
CEET Lead / Skill Evaluator
Instructor 1
Ethical Leadership for Instructors
Rope Rescue Technician
Confined Space Rescue Technician
Rope Rescue Technician
Hazardous Materials Incident Commander
S-290 Intermediate Wildland Behavior
Rescue Systems 1

Facility & Equipment
Addition of Classrooms 3 & 4
Roof prop revitalization - Commercial & Residential
Addition of Garden Style Apartment staircase
Burn prop configuration and revitalization
Drill tower enhancement
Water Mapping Box



Engine Company Operations IST

Focused on Relay Pumping, Nozzle Control and Water Mapping. (6 hrs)

Truck Company Operations IST

Focused on commercial roof ventilation operations (6 hrs)





Underwriters Laboratory Firefighter Safety Research Institute (ULFSRI) (4 hrs)

> Suppression Tactics in Single-Family Homes

Firefighters improve their fire suppression decision making skills and enhance water application techniques to increase victim survivability during a fire attack in a residential structure.

> Understanding and Fighting Basement Fires

Firefighters examine the dynamics of below-grade fires and the influence of coordinated fire mitigation tactics from full-scale fire testing in realistic residential structures.

> Water Mapping in Residential Structures

Firefighters learn how to anticipate where water goes when applied from a hose to the room of a residential structure.









JoinCVFD Recruitment

10 Recruitment Open Houses

Interview Preparation Courses

MegaCode Preparation Courses

Chula Vista Fire Department Training Division

JoinCVFD

Training Chief	Training Captain	Training Engineer	Training Program Specialist
Sean Lowery	Charles Kuniyoshi	Robert Parkhill	Grace Knepper