



2023 ANNUAL REPORT

Our mission:

Provide a safe environment for the Clio/Thetford/Vienna community through Emergency Response, Planning, Fire Prevention, Education, Fire Suppression, and Vehicle Rescue Operations, and do so with the safety of our personnel and the public as the primary consideration.

Clio Area Fire Department

3291 W Vienna Rd

Clio, MI 48420

Visit us on the web at clioareafire.com or call 810-687-8506



TABLE OF CONTENTS

| | |
|---|----|
| Remarks from the Chief | 3 |
| 2023 Significant Accomplishments and Events | 4 |
| Organizational Chart | 7 |
| Incident Response | 8 |
| General | 8 |
| Analytics and Graphs | 9 |
| NFPA 1720 Response Capability Analysis | 15 |
| Apparatus and Equipment | 16 |
| New and Modified Apparatus | 16 |
| Apparatus Inventory | 17 |
| Apparatus Incident Response Count | 17 |
| General Apparatus Notes | 18 |
| Community Risk Reduction | 19 |
| Training | 20 |

TABLE OF FIGURES

| | |
|---|----|
| Figure 1: Preliminary Drawing of New Tender 25 | 4 |
| Figure 2: Organizational Chart | 7 |
| Figure 3: Incident Counts 2019 through 2023 | 8 |
| Figure 4: 2023 Major Incident Types | 9 |
| Figure 5: Incident Volume by Municipality | 9 |
| Figure 6: Fire Incident Types by Fire Authority Member Municipalities | 10 |
| Figure 7: Incidents by Hour of Day | 10 |
| Figure 8: Incidents by Day of Week | 11 |
| Figure 9: 2023 Incident Map In-District | 12 |
| Figure 10: Map of 2023 Incidents, Local Area | 13 |
| Figure 11: Map of 2023 Incidents, Wide Area | 14 |
| Figure 12: NFPA 1720 Compliance by Zone | 15 |
| Figure 13: NFPA 1720 Compliance 100/300 Series Incidents by Month | 15 |
| Figure 14: Apparatus Inventory | 17 |
| Figure 15: Apparatus Incident Response Count | 17 |
| Figure 16: Station 1 Aerial Photograph | 18 |
| Figure 17: CAFD Smoke and CO Alarm Installs | 19 |

REMARKS FROM THE CHIEF



Chief James Bronson

It is my pleasure to present the Clio Area Fire Department's Annual Report for 2023. This report provides history, activities, and statistical data that is continuously examined throughout the year to enhance the services we provide to our community. The men and women of this department responded to a total of 331 calls for service during 2023, 14.5% above our five-year average of 289.

The Clio Area Fire Department continues to purchase the highest quality

“One significant challenge that we continue to face is recruitment of new firefighters. We continue to focus an extreme amount of effort toward this issue.”

Chief Jim Bronson on the Department's recruiting challenges.

firefighting vehicles, equipment, and protective clothing necessary to meet our community's needs. In 2023, Clio Fire placed an order for a 2500-gallon tender and purchased a 2023 utility vehicle. The new tender will be replacing 29-year-old Tender 25 which is located at Station 2, with an expected delivery date in the first quarter of 2026. Clio Fire also received a \$30,000 grant from the State of Michigan which was used to purchase protective clothing for our firefighters such as bunker coats, pants, boots, high-visibility vests, and gloves.

Community involvement remains a high priority of the Department. This past year, Clio Fire provided 91 smoke alarms and 41 carbon monoxide alarms to our residents with the help of the Michigan Fire Prevention program.

One significant challenge that we continue to face is recruitment of new firefighters. We continue to focus an extreme amount of effort toward this issue.

In closing, I would like to take this opportunity to once again thank the Clio Area Fire Authority Board for their continued support of the Fire Department. I would also like to recognize and thank our firefighters for their commitment and professionalism to this Department and to their families for allowing them the time to support this community.

James T. Bronson
Fire Chief

2023 SIGNIFICANT ACCOMPLISHMENTS AND EVENTS

Apparatus

- Took delivery of a new 2024 Chevrolet Silverado 3500HD pickup to be used for utility purposes.
- Removed a 1986 Chevrolet Utilimaster squad vehicle from service, with disposition via sealed bid.
- Significant investments were made in apparatus maintenance, including contracted comprehensive preventative maintenance on all major apparatus and replacing the turbocharger on Engine 21.
- Placed order for a new tender to replace Tender 25. Tender 25 was placed into service in 1996, and the replacement tender is expected to arrive in 2026.

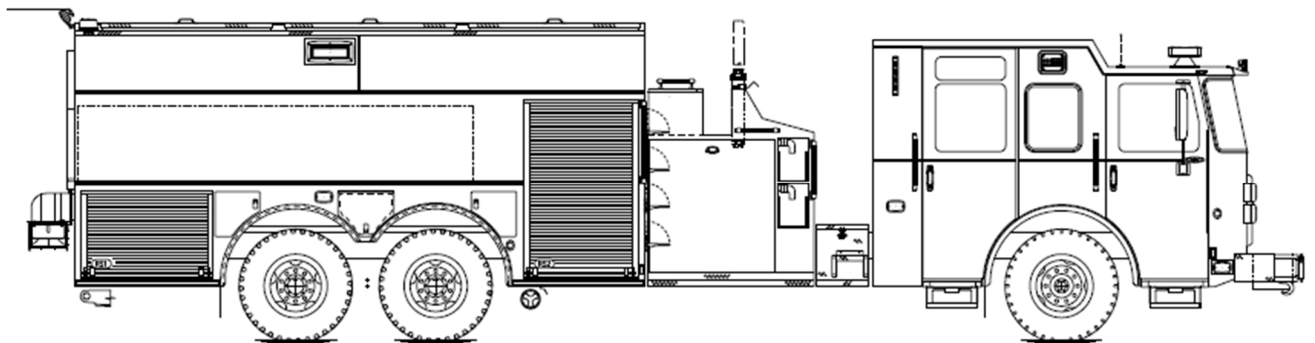


Figure 1: Preliminary Drawing of New Tender 25

Budget, Financials, and Grants

- Fiscal year (FY) 2023 capital and operations expenditures were within budget.
- Audit of FY 2023 financials resulted in an Unmodified Opinion
- Recipient of several grants including:
 - \$100,000 towards firefighting vehicles and maintenance, courtesy of Vienna Township Business Development Authority.
 - \$30,000 grant from the State of Michigan for protective clothing.

Recognition and Awards

- **Driver Ryan Moore Named Firefighter of the Year for 2023.**



Since joining the department in 2017, Driver Ryan Moore has been an outstanding example of dedication, hard-work, and community service. Driver Moore routinely identifies and completes additional tasks and is always ready to assist anyone in need. Aside from his regular emergency response and work duties, Driver Moore helps lead our vehicle maintenance and service program, performing much of the work himself with skill and precision. When a call for extra-duty or a community service event is made, you can be sure that Driver Moore will make every attempt to volunteer his time and expertise.

- **Lieutenant Jeff Holbin Named Officer of the Year for 2023.**

If you live in Genesee County, MI, and are at all involved in any community service, civil, or charitable organizations, then you are likely familiar with Lieutenant Jeff Holbin. Lieutenant Holbin has selflessly served his community through numerous organizations and has worked tirelessly to make Clio and the surrounding area a better place to live. His service to others began at a young age as Lieutenant Holbin participated in our Explorer program prior to joining the Department in 2008. Never satisfied with the status quo, he constantly identifies opportunities for change and improvement. He also leads our extremely popular annual Halloween Open House event.



Community Risk Reduction

- Continued production of a Community Risk Assessment and Plan
- Accelerated installation of complimentary smoke and carbon monoxide alarms in residents' homes through greater participation in the Michigan MI Prevention program.
- Conducted various community outreach events, including a Fire Prevention Open House, school visits, and messaging.
- Kicked-off a new social media engagement program.
- Continued implementing a fire safety inspection program for commercial occupancies.
- Strengthened capabilities in detecting incidents of youth-fire setting and providing assistance to those youths and families in need.

Health and Safety, Personnel, and Training

- No major injuries or accidents in 2023.
- Continued an NFPA 1582 compliant physical examination program.
- Graduated five personnel in local fire academies with a 100% pass rate.
 - First occurrence of sponsoring a 17-year-old explorer in academy that was able to be hired upon high-school graduation and turning 18-years-old.
- Explorer program remains strong with three explorers currently enrolled in academy (anticipated graduation date of May 2024).
- Net increase of 5 certified firefighters on staff year-over-year.

Service Anniversaries

- 20 Years
 - **Pam Collins**
- 15 Years
 - **Jeff Holbin**
- Five Years
 - **Marissa Holbin**

ORGANIZATIONAL CHART

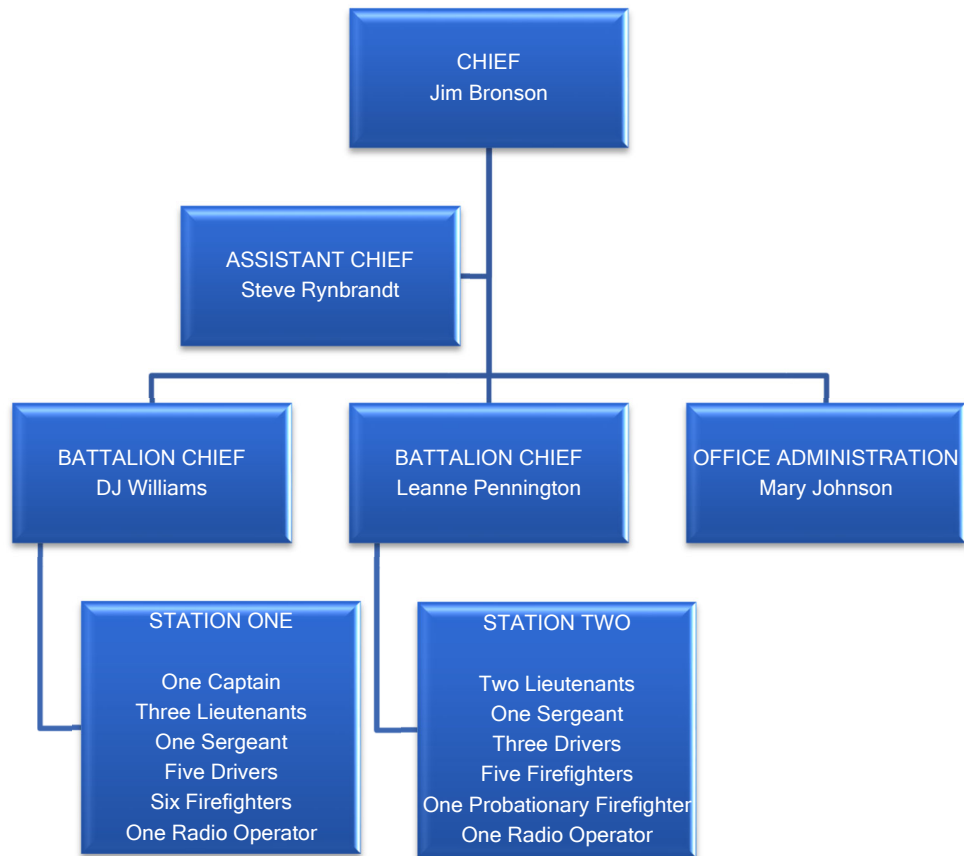


Figure 2: Organizational Chart

INCIDENT RESPONSE

General

CAFD personnel responded to 331 calls for service in 2023. This represents an incident volume about 14.5% above our five-year average (2018 through 2022) of 289 incidents.

Incident alarm times were concentrated between 10:00AM and 10:00PM with relatively even distribution for day of the week, peaking on Mondays and Thursdays.

No fire fatalities were recorded in 2023.

2023 Incident Quick Facts:

- ***Number of Incidents: 331***
 - 76 Fires
 - 34 EMS/Rescue
 - 221 other calls for service
- ***Mutual Aid Incidents***
 - Given: 34
 - Received: 23
- ***Property Value Saved: \$7,769,150***
- ***No Fire Fatalities***

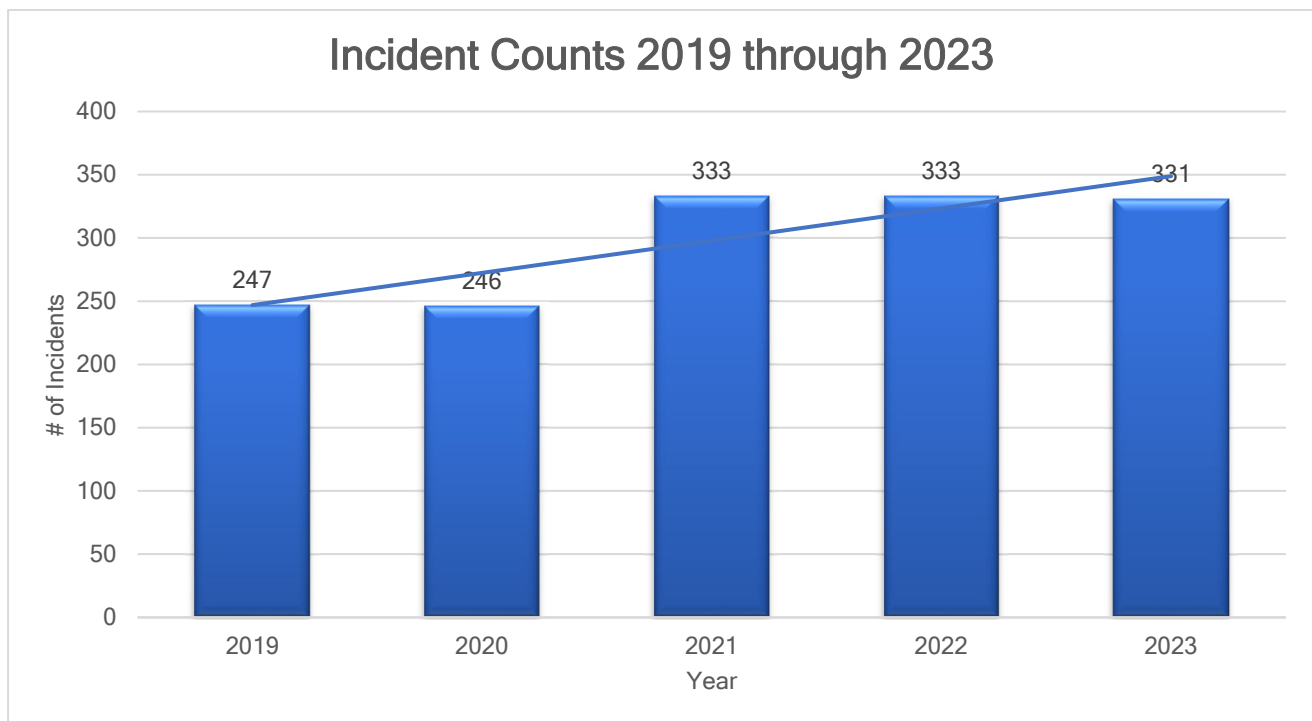


Figure 3: Incident Counts 2019 through 2023

Analytics and Graphs

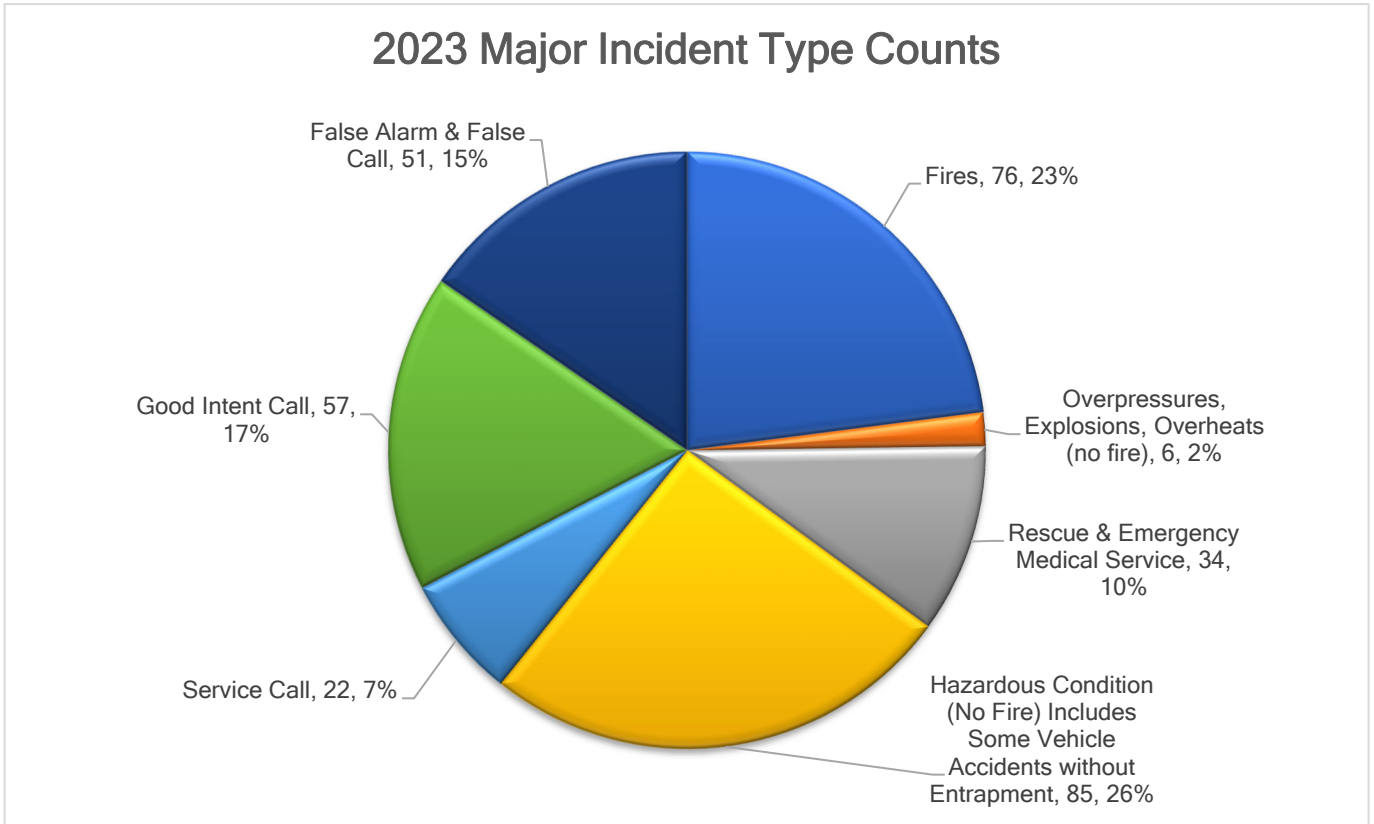


Figure 4: 2023 Major Incident Types

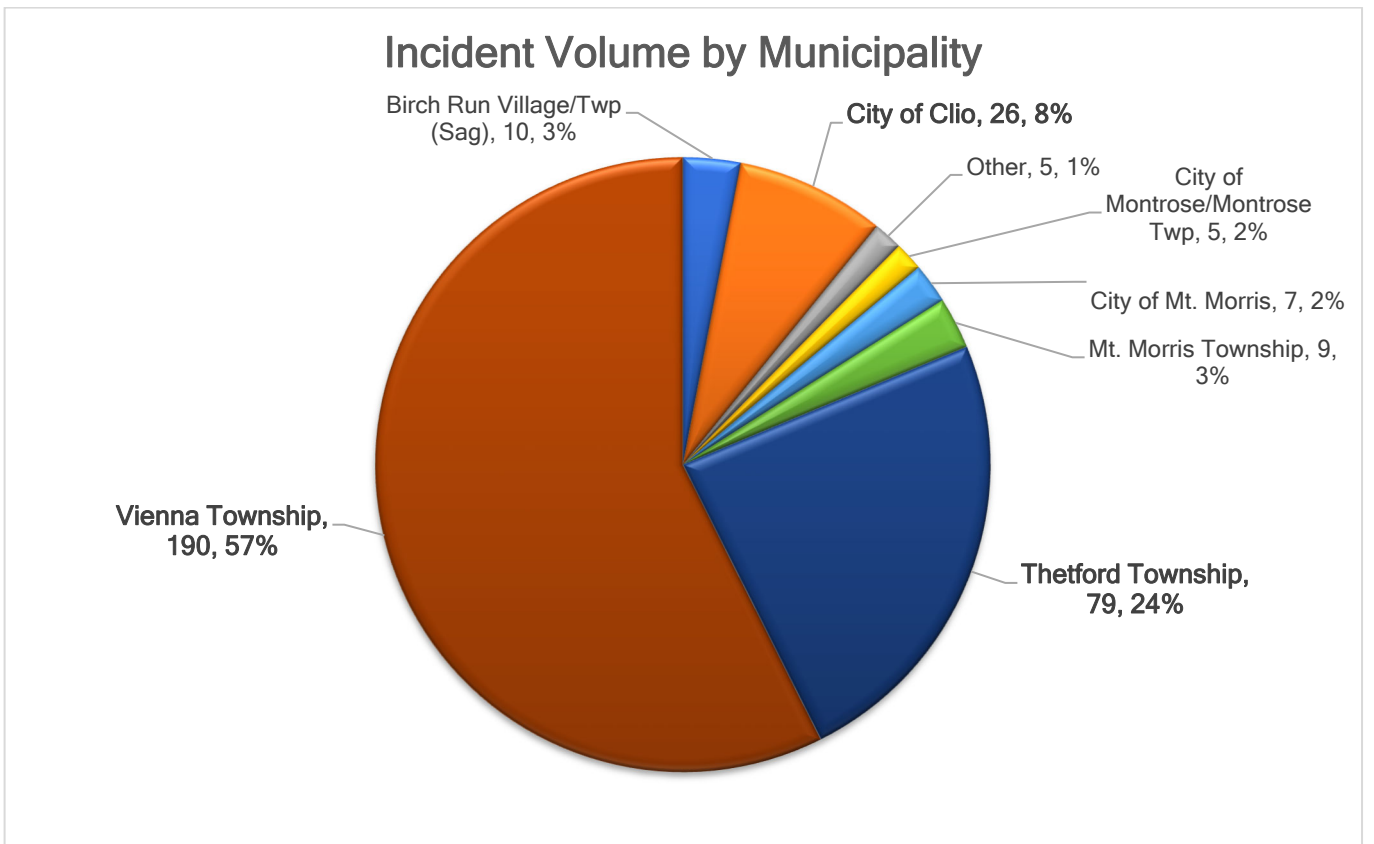


Figure 5: Incident Volume by Municipality

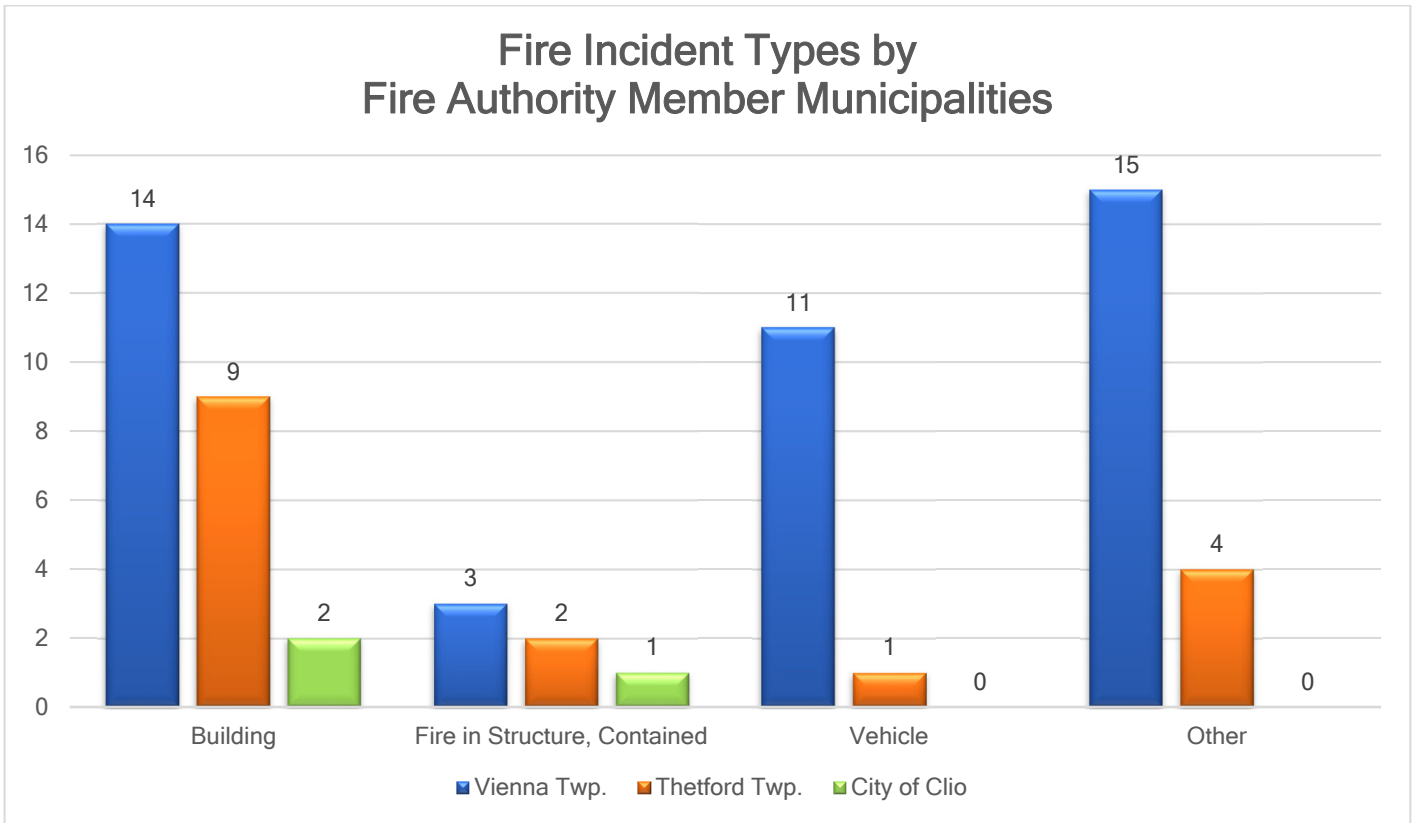


Figure 6: Fire Incident Types by Fire Authority Member Municipalities

of Incidents by Hour of the Day

Incident Category ● Fire ● EMS ● Other

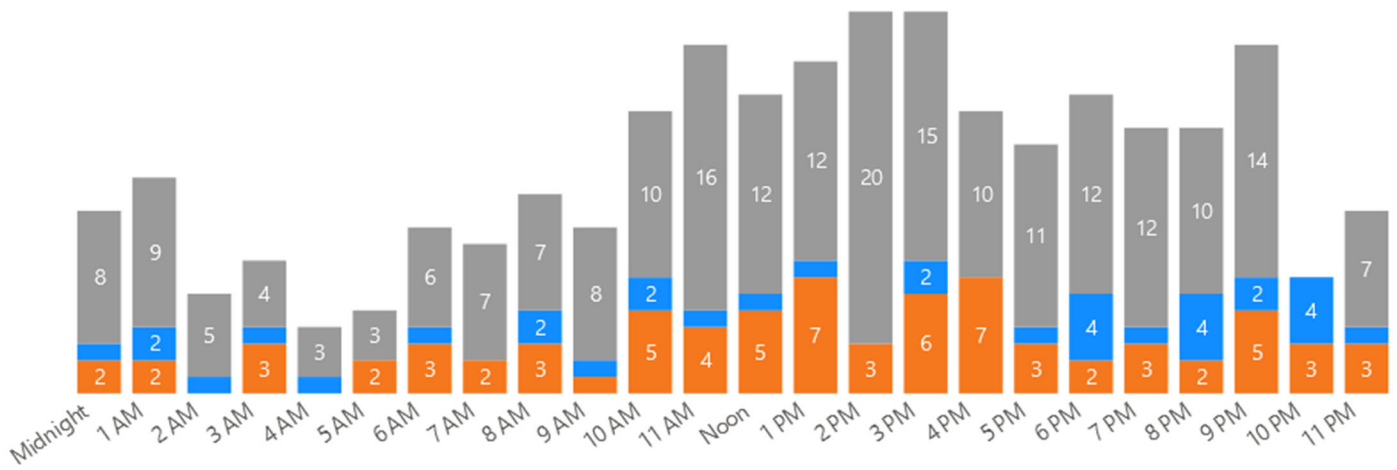


Figure 7: Incidents by Hour of Day

of Incidents by Weekday and Incident Category

● Fire ● EMS ● Other

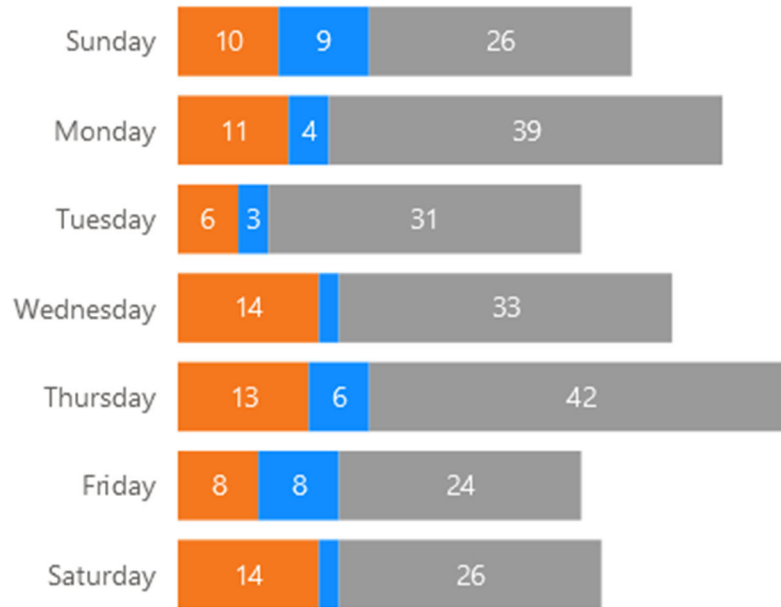
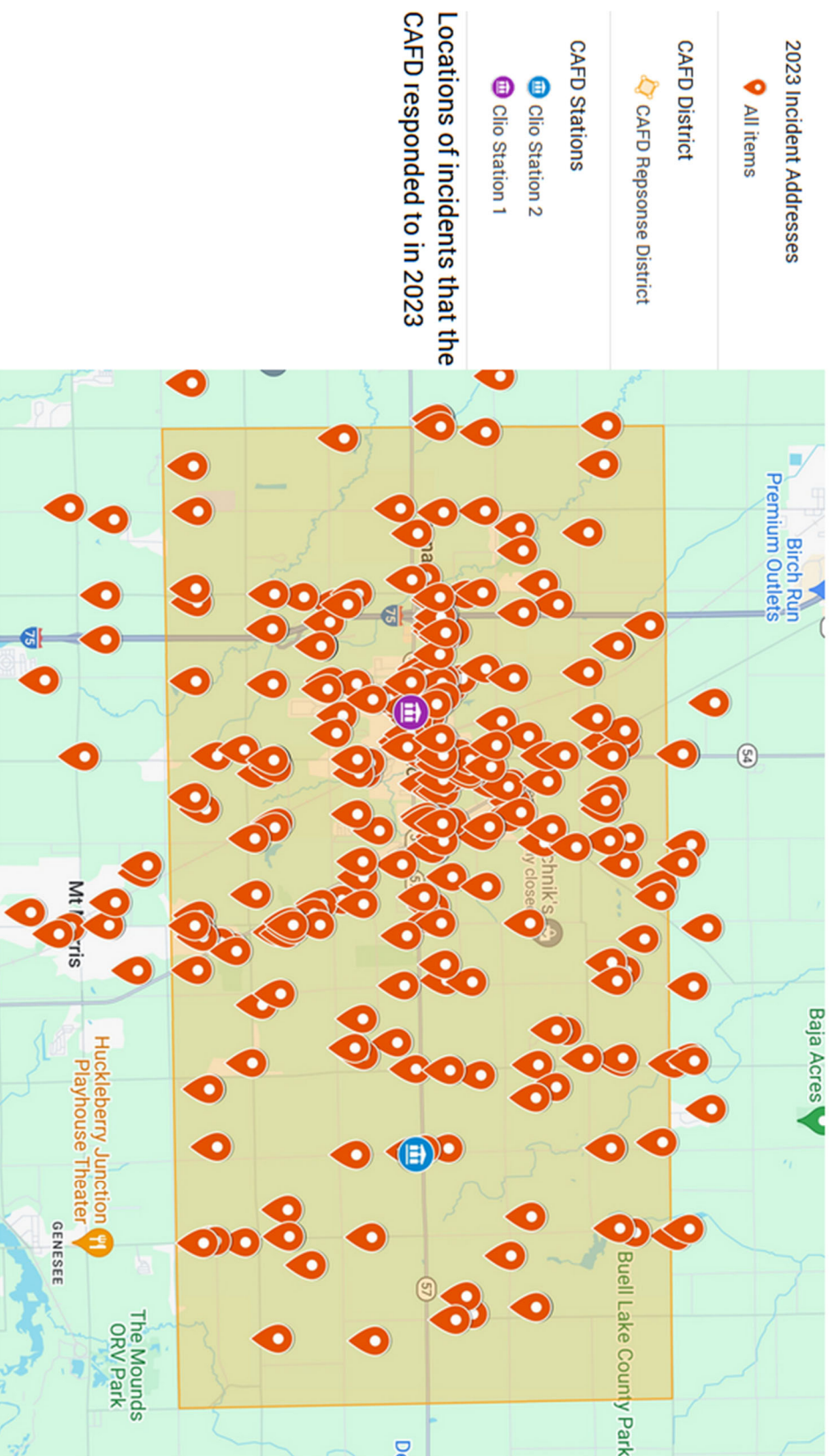


Figure 8: Incidents by Day of Week

2023 CAFD Incidents



Locations of incidents that the CAFD responded to in 2023

Figure 9: 2023 Incident Map In-District



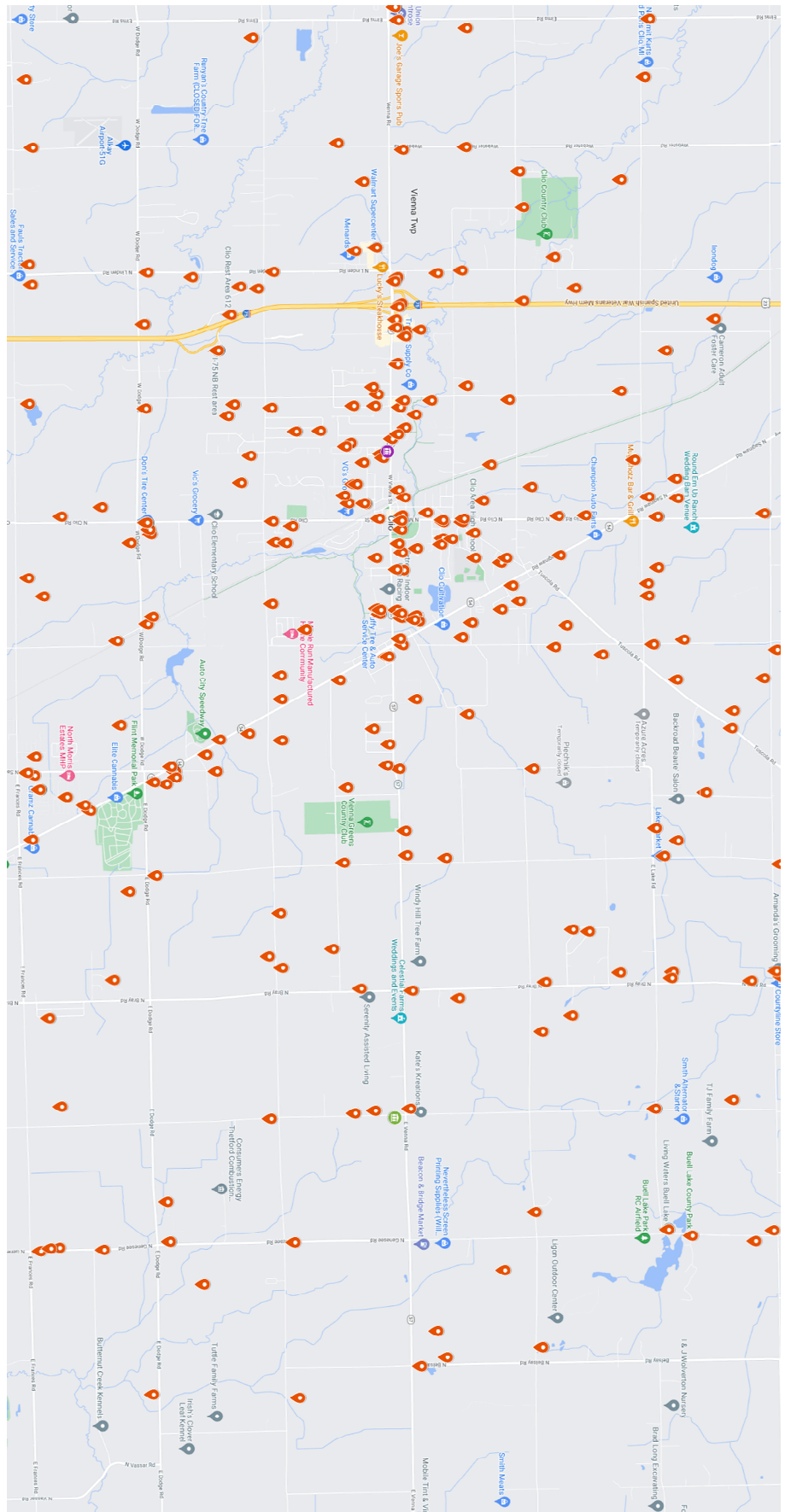


Figure 10: Map of 2023 Incidents, Local Area



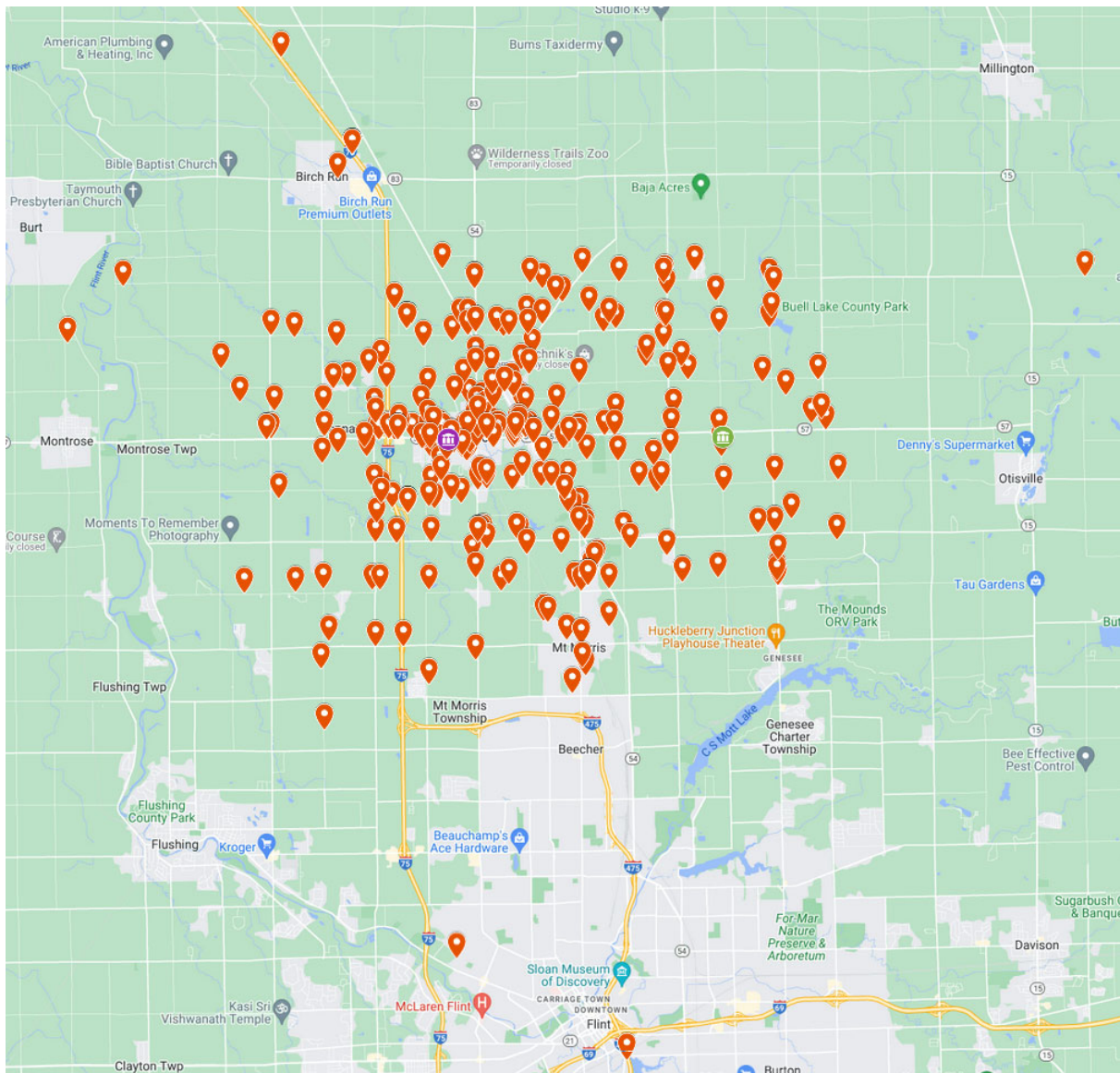


Figure 11: Map of 2023 Incidents, Wide Area



NFPA 1720 Response Capability Analysis

NFPA 1720 is the “Standard for the Organization and Deployment of Fire Suppression Operations, Emergency Medical Operations, and Special Operations to the Public by Volunteer Fire Departments”. One component of NFPA 1720 is response capability, which outlines a standard for response time and minimum responding personnel. These standards vary upon the population density of the fire district. Under this standard, the City of Clio is classified as

“urban” (>1,000 people per square mile), while Vienna and Thetford Townships are classified as “rural” (<500 people per square mile).

% by Zone

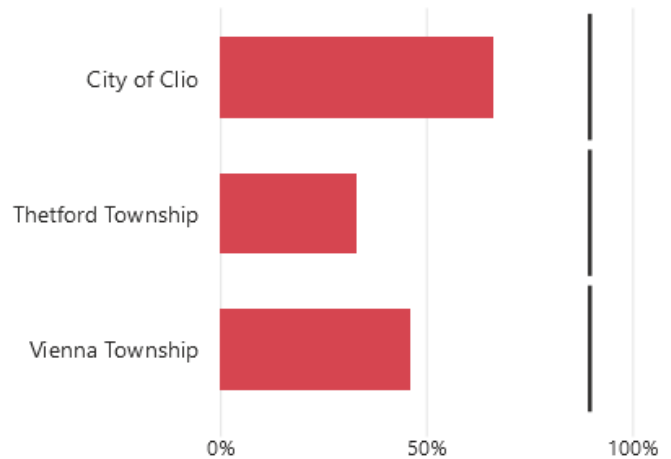


Figure 12: NFPA 1720 Compliance by Zone

Average turn-out-time (the amount of time between dispatch and a unit enroute) was 3:39 while average response time (the time between dispatch and first-unit arrival) was 11:46.

While our average response time generally met the NFPA 1720 response capability standard for rural areas (less than five hundred people per square mile), our staffing and availability prevented achieving the effective force standard 56% percent of the time (Note: this analysis is limited to fire and EMS/rescue incidents only, and only within the Clio Area Fire Department district).



Figure 13: NFPA 1720 Compliance 100/300 Series Incidents by Month

APPARATUS AND EQUIPMENT

New and Modified Apparatus

Placing an order for a new tender to replace Tender 25 was the highlight of 2023's apparatus news. Tender 25 has been in service with the Clio Area Fire Department since 1996.

New Utility 20 Quick Facts:

- *Chevrolet Silverado 3500HD Pickup*
- *6.6L L8T Gasoline V8 Engine*
- *Four-Wheel Drive*
- *8' bed*
- *Seats 5 Firefighters*
- *Outfitted Cost: \$60,000 (approx.)*



Tenders' primary purpose is to haul large volumes of water, particularly in more rural areas without fire hydrants. While the new Tender 25 will certainly handle that task with a 2500-gallon water capacity, it also will be an effective pumping apparatus with a 1500 gallon-per-minute fire pump, several pre-connected lines, and roughly 1,500' of various size hoses. New Tender 25 will be built on a custom chassis with a six-person cab and comes with a price tag of approximately \$973,972.

Earlier in 2022, the Department removed 36-year-old Squad 16 from service with the intent to replace it with a full-size 1-ton pickup. That pickup was ordered early in 2023 and delivered in October 2023. Once delivered, Department and contractor personnel readied the vehicle for

service installing the emergency lights, siren, radio, and decals. Finally on December 14, 2023, Utility 20 was placed into service for emergency response with a total acquisition and outfitting cost of approximately \$60,000.

Apparatus Inventory

| | |
|---------------|---|
| Engines | Engine 11: 2022 Pierce Impel, 2,000 GPM, 1,000 gallons |
| | Engine 21: 2010 Pierce PUC, 1,500 GPM, 1,000 gallons |
| Tenders | Tender 15: 2016 Rosenbauer, 1,500GPM, 2,500 gallons |
| | Tender 25: 1996 Pierce, 1,250 GPM, 2,000 gallons |
| Aerial Ladder | Aerial 12: 2001 Pierce, 2,000 GPM, 100' Aerial Platform |
| Grass/Brush | Grass 13: 2004 Chevrolet |
| | Grass 23: 2004 Chevrolet |
| Squad/Utility | Utility 20: 2024 Chevrolet 3500 Pickup |
| Command | Car 1: 2022 GMC Yukon |
| | Car 2: 2019 Chevrolet Tahoe |

Figure 14: Apparatus Inventory

Apparatus Incident Response Count

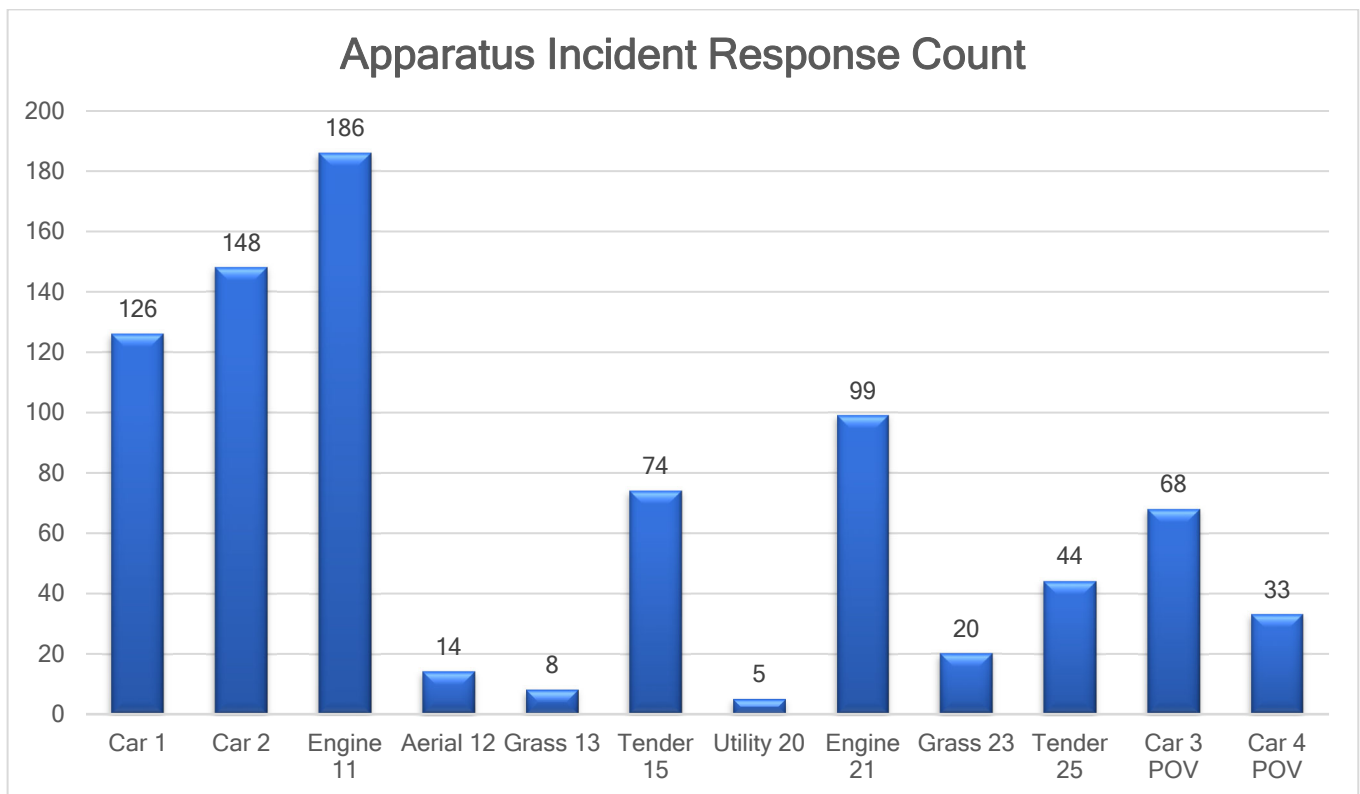


Figure 15: Apparatus Incident Response Count

General Apparatus Notes

Preventative maintenance of apparatus was a primary focus for the Department in 2023. In a rather significant change, all scheduled preventative maintenance on major apparatus was performed by Front Line Services in Freeland, MI. Front Line Services specializes in emergency vehicles and is able to perform much of the maintenance on-site at our stations, reducing the amount of time that an apparatus is out of service for maintenance along with reducing the load on Department personnel to move apparatus. Aside from preventative maintenance, Front Line Services and Department personnel provided break/fix repairs throughout the year, including replacing the turbo on Engine 21's diesel engine.

Major apparatus fire pumps (Engines 11 and 21, Tenders 15 and 25, and Aerial 12) continue to perform well, and all were recertified at their rated flows and pressures. All ladders, including Aerial 12's primary ladder and platform, were tested and recertified for service.



Figure 16: Station 1 Aerial Photograph

COMMUNITY RISK REDUCTION

The Clio Area Fire Department furthered its strong partnership with the State of Michigan's MI Prevention Program in 2023. These efforts strengthened our community risk reduction (CRR) program within the department as we work towards a safer community.

During 2023, CAFD personnel installed 91 smoke alarms, along with 41 carbon monoxide alarms, into residents' homes completely free of charge. Our goal is that every residence has working smoke and CO alarms.

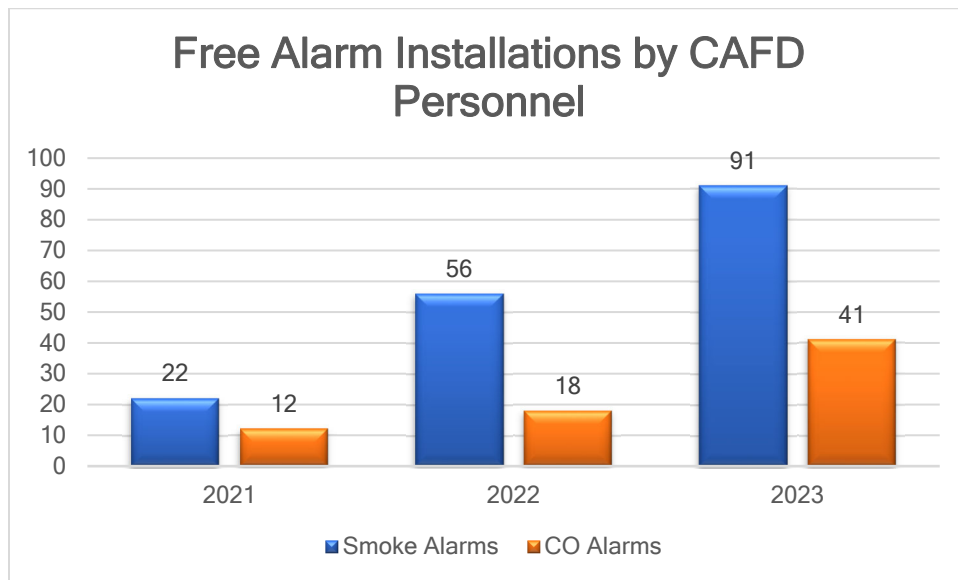


Figure 17: CAFD Smoke and CO Alarm Installs

CAFD personnel were also active with community outreach events and efforts including school visits, participation in community organizations and events, targeted messaging, and a fire prevention open house.

We continued development of our inspection program with four certified fire inspectors. As the department works to adopt a common fire code in all three member municipalities, these personnel are continuing their training and conducting fire inspections with an emphasis on community education and fire/life safety in our local businesses.

We have also continued development of a community risk assessment, which will in turn lead to the development of a community risk reduction plan.



TRAINING

Training continues as a priority in the CAFD with members attending and participating in various sessions around the state. Delivery of training includes classroom, hands-on practical exercises, and computer-based training.

2023 training activities included:

- NIMS - ICS
- Traffic Incident Management
- Fireground Hydraulics
- Hydrant Operations
- Water Drafting Operations
- Utility Safety
- Firefighter Survival and Rescue
- Vehicle Extrication/Jaws
- Address and Street Familiarity
- Radios and Communications
- Water and Ice Rescue
- CPR and AED
- Personnel Accountability
- Community Risk Reduction
- Grass Fires and Wildfires
- Fire Inspection
- Instruction
- Safety and Air Monitoring
- Ladders
- Ventilation
- Fire Investigation
- SCBA
- Search and Rescue
- Aerial
- Hazardous Materials/Right to Know
- Handlines and Hose Streams
- Driver Training
- Bloodborne Pathogens
- PPE
- Building Collapse
- Youth Fire-Setting Programs

The above is small sampling of topics our personnel trained on throughout the year.

EVERY HOME NEEDS WORKING SMOKE AND CO ALARMS!

If you or someone you know needs smoke or carbon monoxide alarms, please contact the CAFD at:

Phone: 810-687-8506

Email: info@clioareafire.com

Web: clioareafire.com

The CAFD typically can provide and install alarms to residents free of charge.

