

CITY OF MADISON FIRE DEPARTMENT MADISON, WISCONSIN



2022 ANNUAL REPORT

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FIRE



EMS



EDUCATION
& PREVENTION



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A MESSAGE FROM FIRE CHIEF CHRIS CARBON

Welcome to the City of Madison Fire Department's 2022 Annual Report



It is my distinct honor to share this note as I assume leadership of the Madison Fire Department. It is a humbling position, and one for which I am deeply respectful and grateful for the opportunity. The City of Madison Fire Department is among the finest departments in the nation, and I look forward to this tremendous opportunity to serve our great community, and the personnel of this department.

Before mentioning any of our work in 2022, I must first pause to reflect back on the last 10 years of leadership by Chief Steven Davis. Chief Davis demonstrated a level of commitment and love for this organization that I am honored to follow. It will be among the toughest of tasks to meet the standard that has been set under his tenure, and I will work tirelessly to do just that. To Chief Davis; thank you for all you have done for the MFD, for

the City of Madison, and for each one of us who had the pleasure of serving under your watch. We will always be thankful, and we wish you a wonderful retirement!

As one may imagine, with the transition out of the height of the Covid pandemic, we are all focusing on our efforts to normalize operations and participate in the recovery efforts throughout the City. This has been a steady process of reflection, stabilization, and reorganization within the many aspects of the department. Despite the necessary work in this regard, we are proud to always provide our primary fire and EMS response, remain focused on our core values, and enjoy the opportunity to continue to expand our services in areas such as the CARES program which saw the addition of a second team this year. Please enjoy the story of your Madison Fire Department in 2022.

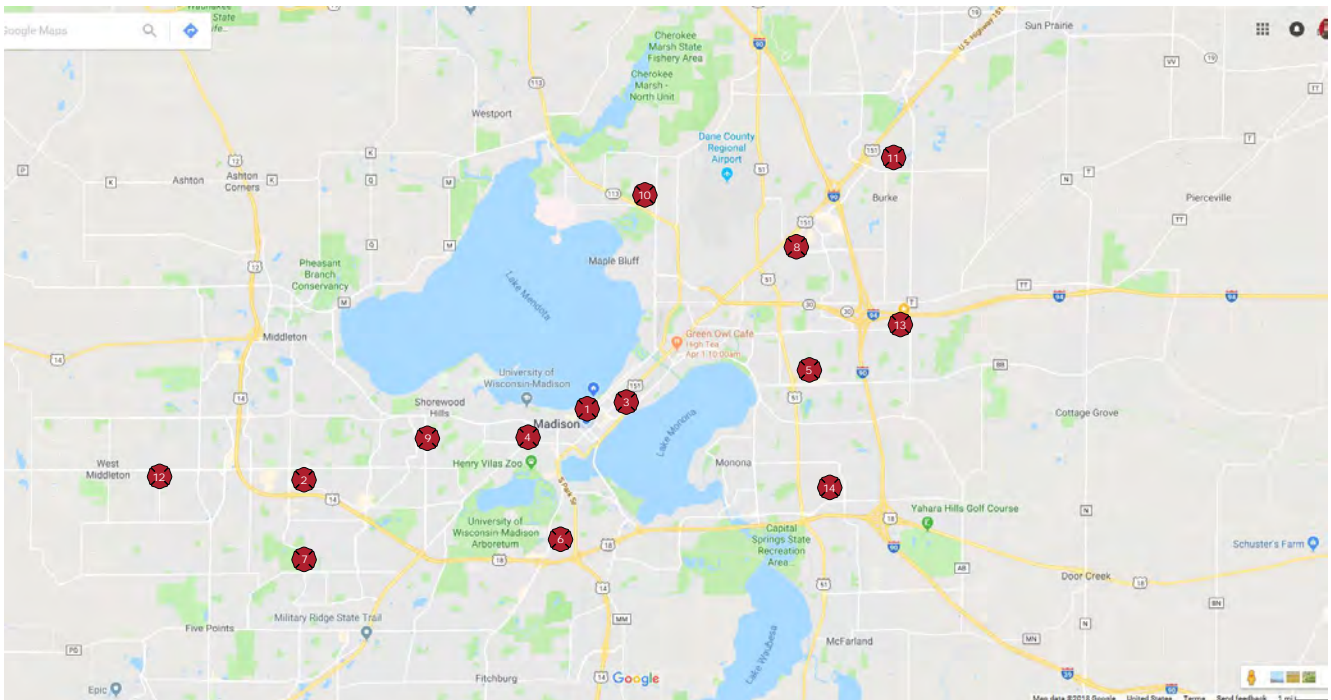
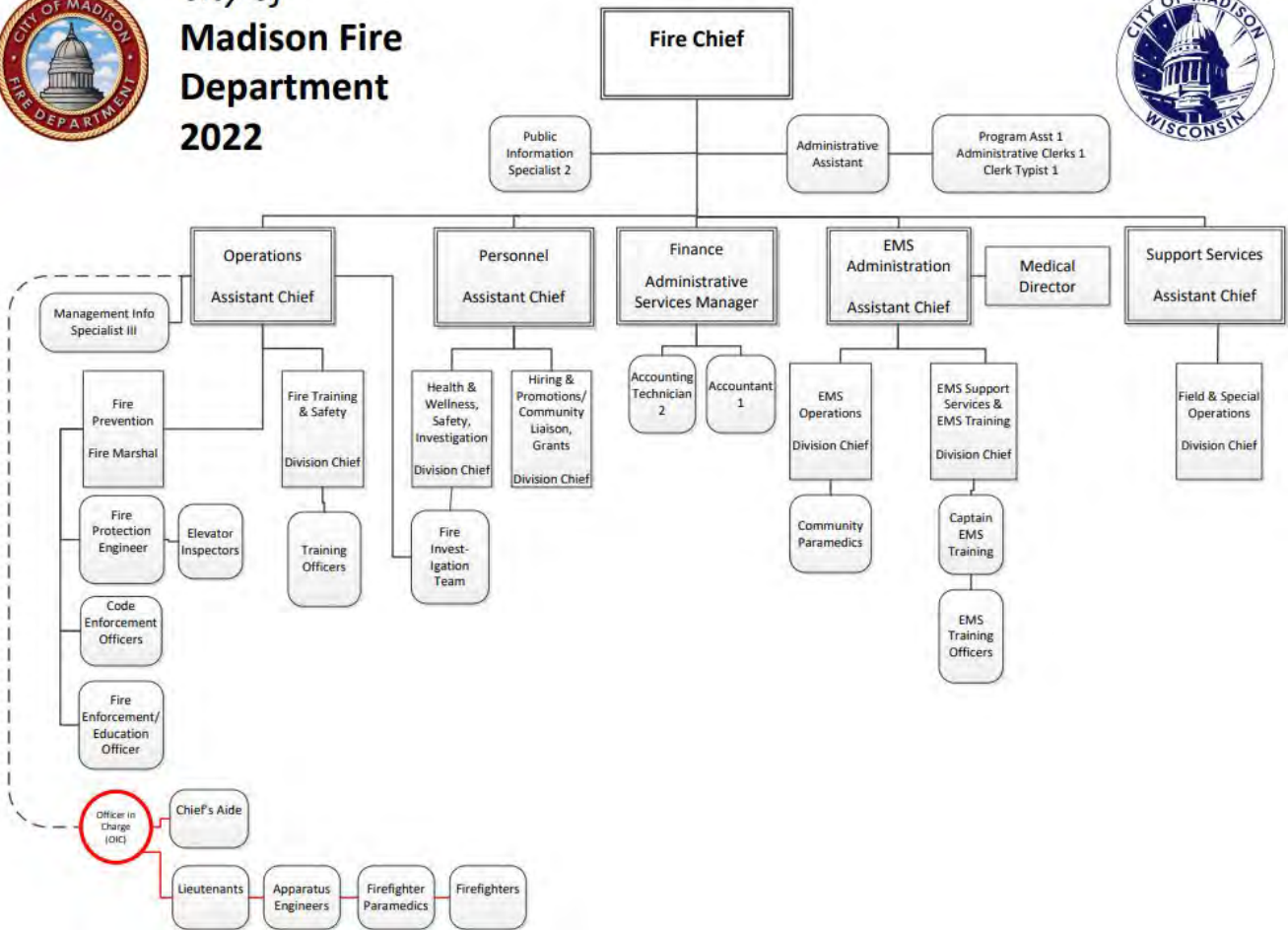
Respectfully Submitted,

Chief Carbon

WHO WE ARE



City of
**Madison Fire
Department
2022**





WHO WE ARE

Comissioned Employees

Title	Actual Occupied Positions*
Chief	1
Assistant Chief	4
Division Chief	6
Captain	2
Community Paramedic (comissioned)	1
Lieutenant	68
Apparatus Engineer II (Chief's Aides)	3
Apparatus Engineer	55
Firefighter/Paramedic II	18
Firefighter/Paramedic	64
Firefighter	164

Civilian Employees

Title	Actual Occupied Positions*
Administrative Services Manager	1
Administrative Assistant	1
Accountant	1
Account Tech	1
Administrative Clerk	3
Clerk Typist	1
Community Paramedic	3
Elevator Code Enforcement Officer	3
Fire Code Enforcement Officer	10
Fire Education Enforcement Officer	1
Fire Marshal	1
Fire Protection Engineer	1
Management Information Specialist	1
Program Assistant	1
Public Information Officer	1

Total Comissioned: 386

Total Civilian: 30

**as of March 1, 2022; includes 17 recruits in Academy Class 12*

**City of Madison Fire Department
Total Number of Firefighters Employed in Each Year**



	2017 total = 372	2018 total = 392	2019 total = 393	2020 total = 389	2021 total = 382	March 2022 total = 386
Other/Multi Racial	1	1	1	1	1	2
Unknown/Did not answer	0	0	0	0	0	0
Hawaiian or Other Pacific Islander Women	0	0	0	0	0	0
Hawaiian or Other Pacific Islander Men	9	8	8	8	8	5
Native American Women	1	1	1	1	1	1
Native American Men	1	1	1	1	1	1
Hispanic Women	1	1	1	1	1	2
Hispanic Men	12	14	15	16	16	17
Black/African American Women	1	2	2	3	3	3
Black/African American Men	40	41	40	40	41	41
White/Caucasian Women	40	37	40	40	36	36
White/Caucasian Men	266	286	284	278	274	276

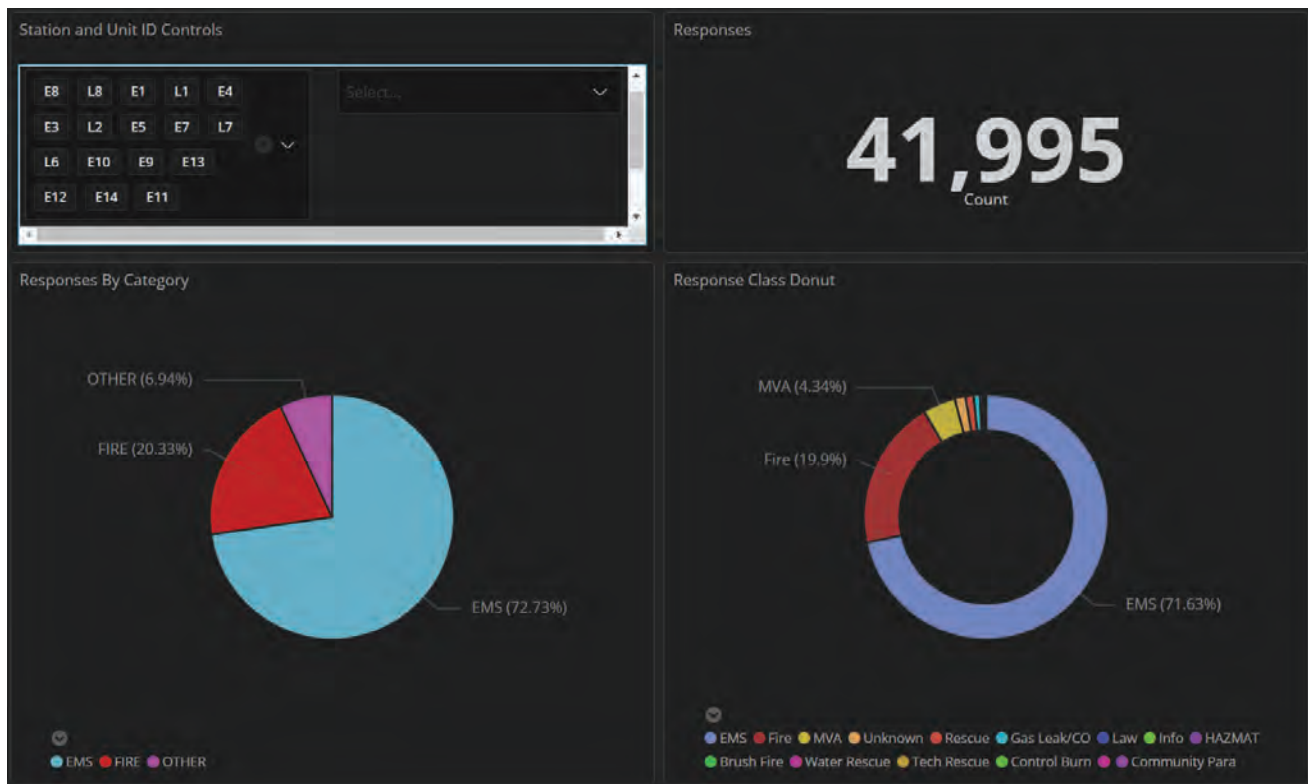


OPERATIONS

Emergency Responses

The Madison Fire Department continues its push to reduce response times to emergencies. The MFD, with the additions of priority dispatching in recent years for fire, emergency medical services, and other emergencies, continues in its plans to reduce its overall response times. This will continue to allow the MFD to improve the ability to save lives and property in the City of Madison.

In 2022, MFD was dispatched to 41,995 calls for service, with Emergency Medical Services accounting for over 72% of that call volume.



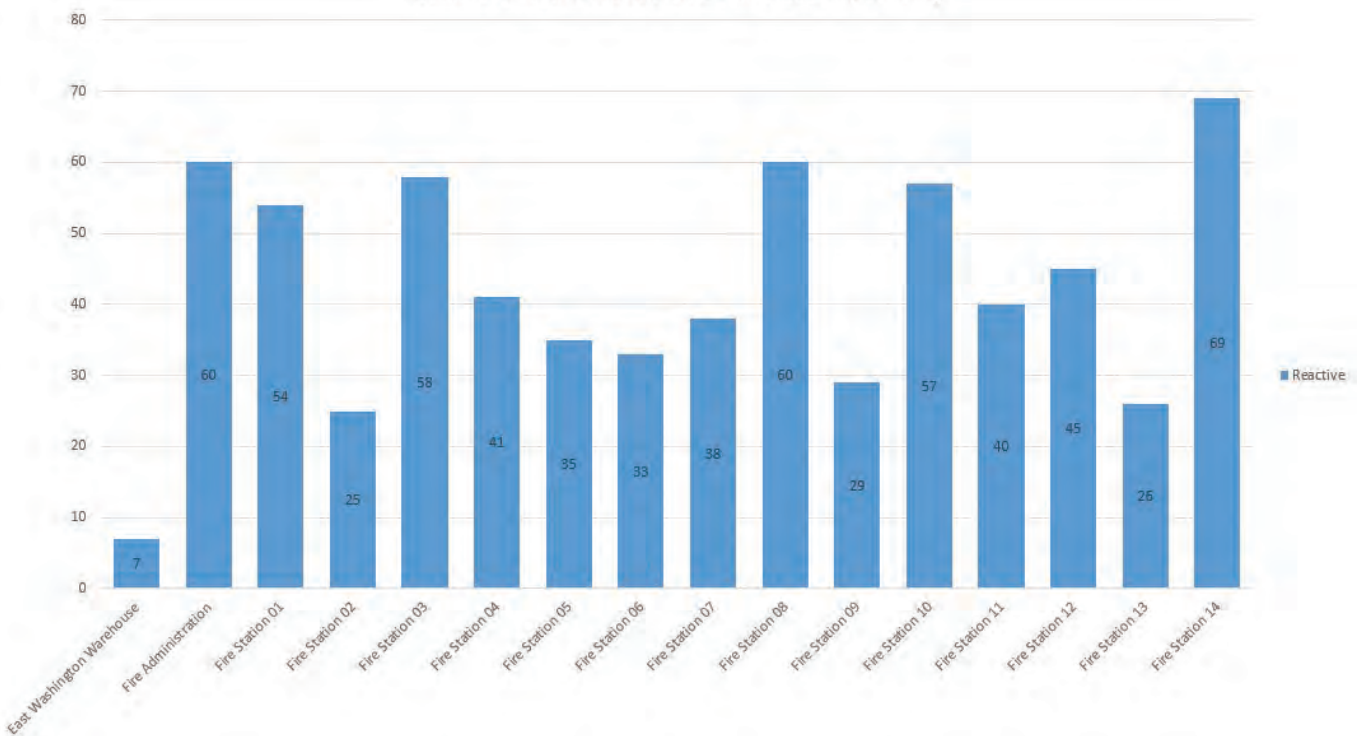


SUPPORT SERVICES

It is the responsibility of the Support Services Division to serve all logistical needs for the Madison Fire Department and act as a liaison with both city and outside agencies. The division had another busy year working together with City Fleet Services, City Engineering, and several vendors to keep all vehicles, equipment, and buildings in working order. Fleet services maintains all fire apparatus, ambulances, and support vehicles for the fire department. These amazing men and women provided important services ranging from routine maintenance to in-depth repairs. They also must complete annual training and help keep the fire department apprised of new technologies. In 2022, fleet technicians responded to 952 fire department work orders which resulted in 5559 total hours of time working on our vehicles. Due to the work ethic of the Madison Fleet employees they helped to support the Madison Fire Department to respond to every 911 call for service.

Support services also worked extremely closely with City Engineering throughout 2022 as they continue to help maintain a progressive working knowledge of current and changing standards, as well as best practices as they relate to facilities. The Engineering team responded to 677 work orders that were placed by MFD employees. This work accounted for over 2,800 hours spent responding to fire department buildings throughout the year.

Count of Reactive Work Orders - MFD 2022 By Building

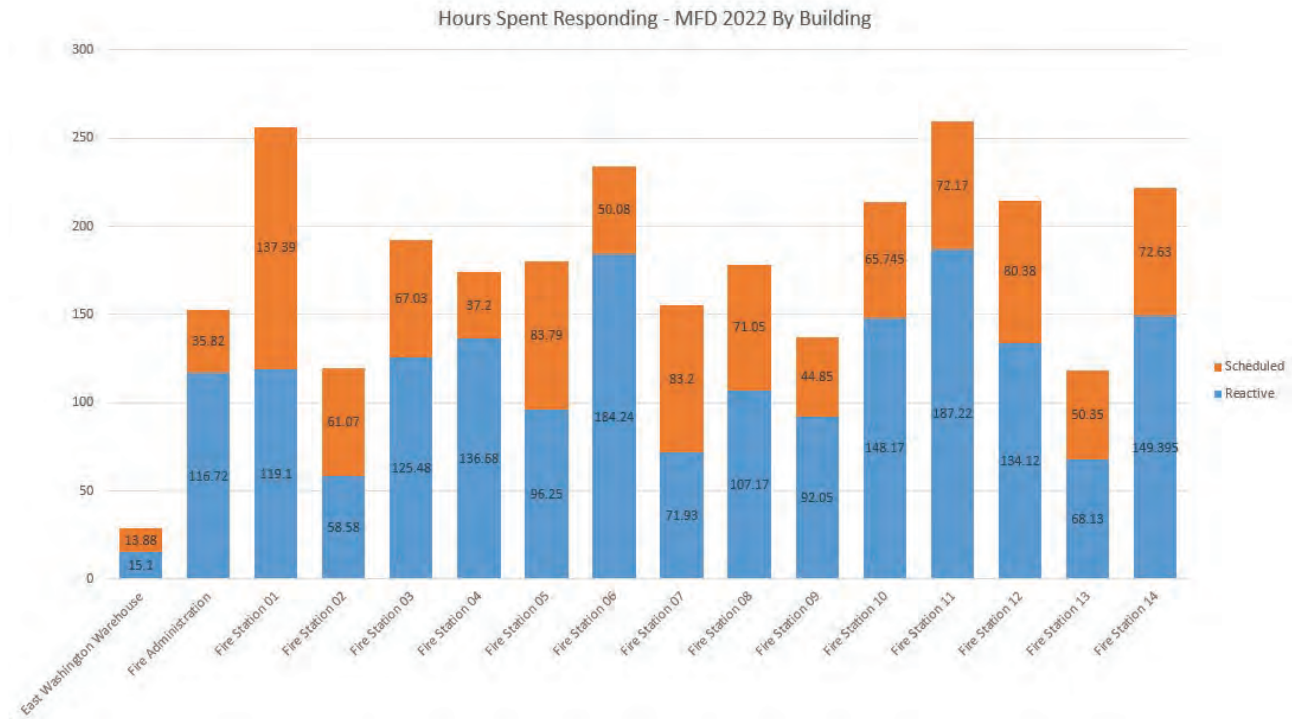


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SUPPORT SERVICES

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Unfortunately, the year did present with several challenges as construction costs continued to rise and supply chains were still an issue. The Madison Fire Department was excited to move forward with a remodel of Fire Station #6, however due to the timing and stress to the budget, the project was placed on hold. The Support Services Division did however continue to focus on our goals of energy / sustainability and the health and wellness of our members. Many of our stations did get LED upgrades and we continued to add solar panels to our buildings. There was also a focus on many cancer reducing initiatives throughout our organization such as post fire decontamination practices, the use of PFAS free foam, and adding gear washers to more fire stations.





FIELD OPERATIONS

Lake Rescue Team:

In 2022 the Lake Rescue Team responded to 48 emergency incidents on our area waters. Out of those 48 responses, our team rescued 19 individuals in life-threatening situations. These rescues included six individuals who had fallen through the ice. An additional 13 people were rescued due to overturned sailboats, canoes, pleasure boats, and vehicles in the water.

The City of Madison Lake Rescue Team is staffed with 57 Rescue Divers, with a minimum of five Rescue Divers ready to respond 24 hours a day, 365 days a year. These Rescue Divers must complete hundreds of hours of training. Every year the Lake Rescue Team trains on topside, underwater, ice rescues, recoveries, and vehicle recovery. The team also responds to assistance calls from the City of Madison Police Department, Dane County Sheriff's Office and other local fire departments.



Above: In November, the team uses their Rapid Deployment Craft to rescue two people who fell through thin ice on Cherokee Lake.

Left: in June 2022, Lake Rescue 1 puts out a fire in a tree that was smoldering from a suspected lightning strike the night before.

Hazardous Incident Team (HIT):

In 2013 Wisconsin Emergency Management reconfigured the State Hazmat teams' levels and distribution. Madison became one of six TYPE II teams primarily responsible for Level A responses to the Southwestern quadrant of the State of Wisconsin. The Team is also responsible for Level B and mass decontamination responses in Dane County.

HIT was busy in 2022 and responded to and mitigated many incidents. Here are a few examples: Responded to a hotel in Monroe where chlorine and sulfuric acid were mixed, producing a toxic cloud; this mixture was placed in a special over-pack drum and building ventilated, and air monitored. In Monona, HIT responded to a hydrogen sulfide gas incident in an apartment. HIT monitored the building, neutralized the solution, placed the chemical in an over-pack drum, and then ventilated the building. In a Madison incident, a forklift punctured a pallet of sulfuric acid containers.

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FIELD OPERATIONS

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HIT contained the leak and neutralized the product. Madison Ladder 1 responded to a 128-unit high-rise with high levels of CO; HIT responded, deployed air monitors, and assisted in ventilating the building until air levels returned to normal.

Additionally, HIT responds to fentanyl and other drug-related incidents.

Right: The now-vacant Clock Tower Office Park on Odana Road was the stage for a full-scale hazardous materials simulation earlier this month. The training served as continuing education for all Hazardous Incident Team members, but it was also an opportunity for some of our newest members to get hands-on experience.



Heavy Urban Rescue Team (HURT):

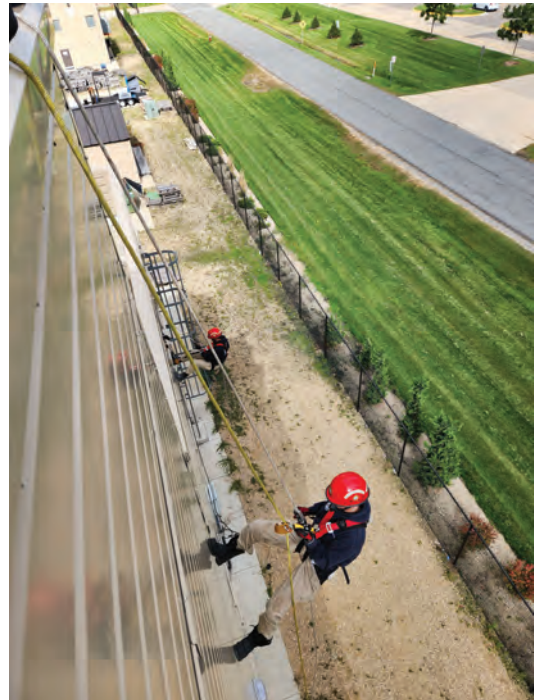
The Heavy Urban Rescue Team (HURT) is a specialized team of 57 dedicated firefighters. They specialize in five primary rescue disciplines: trench rescue, building collapse, high/low angle rescue, confined space rescue, and grain bin rescue. The MFD's HURT deals with the location, rescue (extrication), and initial medical stabilization of trapped individuals.

In 2022 HURT responded to ten incidents throughout Dane County. These responses included an occupied 2nd story deck full of students which collapsed at the Mifflin St. Block Party causing multiple injuries. In another case, a semi-tractor lost control and crashed into a house, causing significant structural damage. HURT also extricated an injured individual who fell into a cement mixer truck drum. Additionally, HURT responded to



four other incidents in which vehicles had crashed into structures, providing shoring to stabilize the buildings until emergency repairs could be made.

Left & Right: The HURT in off-duty rope rescue training, under the instruction of retired MFD Division Chief Ernie Martinez.





FIRE INVESTIGATION

Investigations

The Madison Fire Department Fire Investigation Team (FIT) responded to over 70 incidents in 2022 and consults with crews in the field on many other investigative inquiries throughout the year. We work closely with our Fire Prevention Division and Madison Police, along with other investigative services to determine the cause and origin of fires and to use the full authority of law enforcement to assist with our common goal.

The FIT continues to train and expand their knowledge in this ever-changing and challenging profession of investigating fires. Our team is committed to this work and is the department's busiest special team. The team is based out of Firehouse #11 on the far east side and has a crew of 4 personnel who respond with an Engine company and a pickup truck (Car 80), which carries the bulk of the fire investigation equipment. The Public Information Officer also assists the FIT in the sharing of important information that may need to be broadcast to the public.



Crews fight a fire at the Nitty Gritty Restaurant in downtown Madison on November 20, 2022. Fire investigators found the likely cause of the blaze was improperly discarded smoking materials.



EMERGENCY MEDICAL SERVICES DIVISION - EMS

EMS Training & Logistics

In 2022, the EMS Training and Logistics Division continued to ensure the EMTs and Paramedics of the MFD were provided with high-level training that enhanced the delivery of cutting-edge emergency medical services to the community we serve. Under the guidance of our Medical Director, Dr. Megan Gussick, a robust training plan continues to keep our personnel up-to-date with best practices in EMS while ensuring all relicensure requirements are achieved. Each quarter, a topic of continuing education is addressed such as cardiac, respiratory, pediatrics, and trauma. Paramedics rotate through ALS skills stations and a simulated medical or trauma scenario encompassing that quarterly topic. The EMS Training Division, with the assistance of our 24 Paramedic 2s, delivers quarterly basic life skills sessions to all personnel covering the quarterly content. In addition, Dr. Gussick holds a quarterly virtual meeting with all personnel to cover topics and content pertinent to continuing education requirements and MFD operations.

In 2022, we added 11 new paramedics to our staff. Two of those personnel were hired by the MFD as Paramedics and had their licenses activated; the other nine successfully completed five months of intensive training at Madison College, followed by two months of field training on the MFD ambulances under the guidance of our Paramedic 2s. In the fall of 2022, five additional personnel started Paramedic school, and the MFD looks forward to seeing those personnel as front-line medics by early summer of 2023.

In 2022, a continued emphasis was placed on care for patients in cardiac arrest, utilizing high-performance CPR practices. A major change for the MFD was in the response package for patients in cardiac arrest. The Lund University Cardiac Assist System, or LUCAS, is an automatic compression device that was deployed on all six of our ladder trucks. In addition to the ambulance and engine or ladder that is dispatched to a cardiac arrest call, now an additional engine or ladder is added to the assignment, with one of the two big rigs being a ladder company with the LUCAS. We are hopeful these devices will enhance patient outcomes, while at the same time providing for safer and more efficient compressions while moving or transporting a patient in cardiac arrest. So far we have had great feedback from the crews, and hope the outcomes continue to provide positive feedback and numbers.



Left: The Lund University Cardiac Assist System. The availability of the LUCAS devices was made possible by local philanthropists through the Berbee-Walsh Department of Emergency Medicine at UW Health.



EMS SPECIAL TEAMS

Community Paramedicine

Internal Referrals:

In 2022, Madison Fire first responders referred over 200 patients to the Community Paramedicine office. Referrals, who often are frequent callers to 911, are based on a variety of factors including unsafe living conditions, addiction, substance misuse, mental health reasons and isolation. Working with citizens to address the individual needs of each case, we take the time to research, chart merge and find the best resources for each referral.

UPH Meriter Partnership:

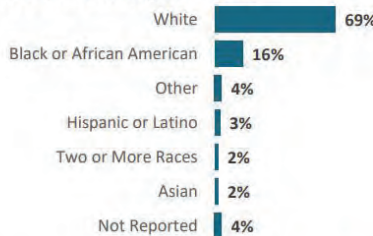
Once again, the Community Paramedicine office continued their partnership with UnityPoint Health Meriter's Emergency Department working together to support, educate and empower at-risk individuals both to improve their overall health as well as their satisfaction with the healthcare system. Our paramedics stay connected with patients weekly either by making phone calls or visiting to check on the needs of each individual patient and to help lessen their anxiety. As needed, our paramedics also help coordinate care, problem-solve barriers, as well as help pick up groceries or medication for those unable to get them. Together with the UnityPoint Health Meriter Emergency Department, we review each case and link patients to appropriate resources. In 2022, this program graduated 26 patients and took on 33 new patients.

Community Alternative Response Emergency Services (CARES):

The CARES program launched on September 1, 2021, as a Phase 1 response model for behavioral emergencies that would traditionally get police response. We started with one 2-person team that worked Monday through Friday from 11am to 7pm in the Central District, responding out of Fire Station #3 on Williamson St. In December of 2021, they began responding city-wide. In July of 2022, we added a second CARES team at a separate location on Fish Hatchery Rd. and expanded hours of operation from 8 am to 8 pm.

CARES crews are trained and equipped to respond to non-violent emergency calls. The response team is made up of one MFD Community Paramedic and one Crisis Worker from Journey Mental Health. CARES' goal is to provide an alternative resource that can make a meaningful difference in bridging gaps in the continuum of care, making a positive impact on the health and well-being of our patient population, and facilitating access to more appropriate and equitable care to historically underserved communities. The CARES role in these calls is the integration of medical and behavioral care from the onset of crisis intervention, with the goals of improving outcomes and diverting patients from emergency rooms and justice system contacts. Most importantly, CARES can provide an initial intervention then transport and provide a warm hand-off to the appropriate mental health service in the community. In a partnership with Dane County Human Services and Madison Dane County Public Health, CARES data is being gathered and evaluated to determine effectiveness and next steps for Team growth. By the end of 2022, CARES had responded to over 950 calls. The next planned expansion is slated for April of 2023 with CARES also working Saturday and Sunday from 8am to 8pm.

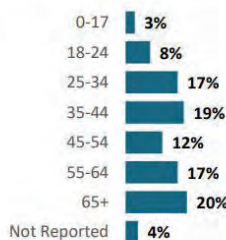
CARES served people of different racial and ethnic backgrounds.



CARES served both male and female patients.



CARES served individuals of all ages.





FIRE TRAINING DIVISION

2022 Highlights

The Fire Training Division is responsible for providing training to our approximately 400 members covering a wide range of topics, tactics, and procedures. We had a very busy and comprehensive year in 2022 providing training to both our field personnel as well as new hires.

Starting in February, Recruit Class 12 began their Fire Training Academy. Sixteen new Recruits trained on the many aspects of fire suppression, physical fitness, emergency medical services and more. By June their hard work was rewarded by beginning their new careers and serving as City of Madison Firefighters. We were not done with new Recruits just yet. In September we hired another class of Recruits. Recruit Class 59 with their twelve members completed their training in December. As you can see, there was a large jump in the numbering for this recruit class. This is due to a bit of a history lesson within the Madison Fire Department. The fire department started their first organized recruit academies in the early 1960s versus on the job training which occurred prior to this time. Calculating all the hiring classes since this time, the department determined this was the 59th organized academy the department has hired.



Fires occurring in high rise structures are one of the most dangerous and challenging calls we face. A high rise structure in the City of Madison is defined as any building which has occupied space over seventy-five feet from the ground. We

were able to utilize one of our buildings downtown on West Wilson Street. This was a multi-company drill which included practicing size ups, hose deployment and advancement, search and rescue, as well as the detailed organization and communications skills required for this type of fire. We were able to get all our firehouses across all three shifts to participate in this drill.



During any structure fire, there is a possibility of firefighters becoming lost, disoriented, or cut-off from their normal means of egress in and out of the structure. When these events occur a Mayday is called and we have to rescue one of our own. A Mayday situation requires some specialized equipment as well as additional personnel to safely and efficiently rescue one of our own. This is all accomplished while still working to

continued...



FIRE TRAINING DIVISION

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suppress the original fire and complete all the tactical considerations on a given fireground. This is a yearly drill completed by our firefighters to assure everyone goes home at the end of each shift.

One of the most valuable types of training available for our Recruits and front line personnel is utilizing acquired structures for hands on drills and live fire scenarios. This includes both residential and commercial buildings. These buildings are typically scheduled to be torn down for new projects on the site. Last year presented many of these opportunities with one of the most significant being the building where Paison's Restaurant was located. The Training Division was able to take this opportunity to provide multiple types of training including high rise scenarios, forcible entry, search and rescue, ventilation and hose advancement. Our Heavy Urban Rescue Team was also able to use the structure for various rescue scenarios as well. The Madison Fire Department is very grateful to those who consider donating these structures as it allows us to become better at serving our community.

Here is a breakdown types and hours of training performed in 2022:

- Acquired structures: 1,780
- Company level: 23,746
- Apprentice Firefighters: 2,888
- Recruit Academy: 18,200

Total: 46,614 hours of training!





HIRING & PROMOTIONS

In 2022, the City of Madison Fire Department conducted two vital processes to fill the staffing needs of the department; specifically, a Firefighter hiring process and an Apparatus Engineer promotional process.

The **Apparatus Engineer promotional process** started off the year. Apparatus Engineers are responsible for safely driving fire apparatus and crew members to calls, operating fire pumps and aerial devices as well as daily apparatus maintenance and equipment checks.

This promotional process consists of three components: the written, over-the-road, and operational exams. After the process was completed all fifteen promotion-eligible personnel attended a 40-hour training course to enhance their knowledge and skills sets as Apparatus Engineers, and will be promoted as vacancies occur.



The 15 personnel who will be promoted to Apparatus Engineer in order of seniority as vacancies occur.

The 2022 **Firefighter hiring process** was enhanced with a number of improvements designed to increase diversity, equity, and inclusion within our Department.

Traditionally Madison Fire has offered Firefighter process exams on only one day with successive sessions including hundreds of candidates each. The hiring process enhancements included:

1. An online written exam for Firefighters available to take during normal business hours and 7 days a week.
2. For those who preferred an in-person exam, sites, including Madison College, were available across Wisconsin and the U.S.
3. An expanded application period and timeline for testing was also added. This allowed for testing over a 6-week period rather than just one day.
4. A streamlined Interview process featured one less interview by combining the Community oral board panels with the Department panels allowing for fewer travel days for potential hires who live outside the City of Madison.

Given the nationwide availability of the exam, we received applications from 24 different states across the U.S. Recruit Class 60 was selected from this process and began their Fire and EMS Academy in June of 2023.

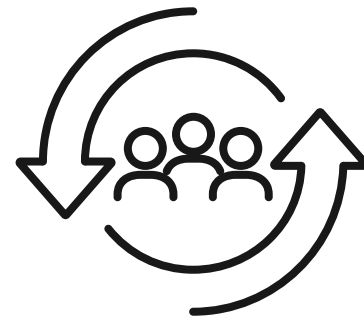


PERSONNEL DIVISION

The Personnel Division is responsible for daily administration of the Fire Department and City of Madison personnel rules and Mayor's Administrative Procedure Memoranda. The Assistant Chief of Personnel supervises two Division Chiefs (Health and Wellness, Hiring and Promotions), works closely with MFD Payroll, City Human Resources, and serves as Leadership Team representative with regard to Labor Relations. In addition, the Chief of Personnel meets with and provides a monthly report to the Police and Fire Commission.

The Asst. Chief of Personnel has oversight of the following processes:

- All departmental hiring, resignation, and termination activities
- New hire background checks
- Promotional processes, Personnel Evaluations
- Complaint Investigations
- Assignment and transfer process
- Maintenance of personnel records



New Hires -- 33 new employees in 2022

- Administrative Clerk - 1
- Administrative Services Manager - 1
- Clerk Typist - 1
- Community Paramedic - 1
- Firefighter/EMT - 28
- Fire Prevention Division - 1

Leadership Team Changes (2022)

- Leadership Team Changes (2022)
- April 1, 2022 – Fire Chief Steve Davis - Retired
- April 1, 2022 – DC Chris Carbon to Fire Chief
- May 29, 2022 – LT Chris Hammes to Division Chief – EMS Training/Logistics

Promotions and Reclassifications (2022)

- 18 Fire Department employees were promoted or reclassified in 2022.

2022 Separations

- | | |
|-------------------------------|---|
| Accountant Jessica Achterberg | Apparatus Engineer Joe Ellingson |
| Captain Jennifer Román | Apparatus Engineer Joe Tiller |
| Firefighter Laura Graf | Apparatus Engineer Cleveland Stevenson |
| Firefighter Thomas Le | Lieutenant Scott Larson |
| Firefighter Todd Cole | Apparatus Engineer Steve Le |
| Firefighter Patrick Tomko | Firefighter Matt Herrmann |
| Firefighter Richard Reppen | Fire Chief Steve Davis |
| Lieutenant Chris Ernst | Clerk Typist Katonia Cauley |
| Firefighter Tristan Lopez | Lieutenant Robert Hansbro |
| Lieutenant Larry Grab | Code Enforcement Officer Ronald Kneifel |

2022 Military Deployments

The Madison Fire Department focuses recruitment efforts in several areas to ensure we are successful in communicating to and attracting a diverse group of applicants for hiring processes. Our military recruitment events have been instrumental in affording us the opportunity to recruit several former and active military personnel. 13 MFD members were deployed in 2022 for periods of time ranging from one week to eight months.



HEALTH & WELLNESS

The Health and Wellness division of Madison Fire is responsible for the health and well-being of 415 personnel in many different roles within the department. The physical and mental health of the department is an important component to delivering effective emergency and non-emergency services to the City of Madison residents and visitors.

Our five-person Peer Fitness team assists our members in staying fit and ready for response along with promoting a healthy diet and lifestyle. This group keeps our stations outfitted with exercise equipment and suggestions for productive workouts. They also assist in the evaluation of our newest Firefighters health and help them manage the stresses that come with this profession.

Due to the potential exposure to carcinogens during our work, our cancer initiative committee has worked hard to make improvements to minimize our exposure levels and coming up with ways to decontaminate when we do have exposures.

The Madison Fire Department also promotes annual wellness physicals to members and coordinates with SSM Health to accomplish this goal. They have also conducted our influenza vaccinations to provide us with additional protection during the flu season.

The COVID response from the department has kept us on our toes in our response to the community and in the firehouse. The year 2022 has proven to be 3 times higher in positive cases than the previous 2 years for the department. We have experienced approximately 150 positive cases amongst our members and it has most certainly challenged us with keeping our staffing at a high level. We are optimistic moving forward into 2023, and our numbers are extremely low in the first couple months of this year.

Peer Support

The Madison Fire Department recognizes the importance of behavioral health and offers the Peer Support Program as another resource to support its members, retirees, and their families. The purpose of the Peer Support Program (PSP) is to provide a core group of personnel who are trained to offer ongoing support, guidance, and consultation by behavioral health professionals that provide confidential support, information, and/or referral to current and retired employees and family members seeking assistance. This may be related to a critical incident, day-to-day work stress, or personal life stress.

In 2022 the program saw an increase in Peer Support Team utilization time of 64% from 2021. The Peer Support Team has many roles within the Madison Fire Department. The team checks in on crews who respond to critical incidents and sets up critical incident debriefings facilitated by mental health professionals. The team also has programs that reach out to those who have recently retired, are on bereavement leave, who are injured on-duty, and those deployed in the military. In 2022 the team began working on the process to expand the team for 2023 due to increasing program utilization.



EMERGENCY MANAGEMENT

Since 2005, Fire Marshal Ed Ruckriegel has acted as the City of Madison's Emergency Management Coordinator, overseeing the City's response to multiple large-scale emergencies, most notably the flooding of 2018 and the COVID-19 pandemic. With his well-earned retirement in December 2022, the role of Emergency Management Coordinator will become a separate full-time position in 2023.



In October, Fire Marshal & City of Madison Emergency Management Coordinator Ed Ruckriegel, (far right), received the Joe Vorce Career Safety Award from the Wisconsin State Fire Inspectors Association during the 32nd Annual Fire Safety Recognition Luncheon of the Professional Fire Fighters of Wisconsin.



FIRE PREVENTION

The Fire Prevention Division works with many stake holders to ensure the City of Madison, Village of Shorewood Hills, and the Town of Blooming Grove are one of the safest places to live, work, and play. The Fire Prevention Division reduces many risks to our community through engineering, education, and enforcement. The Division is broken into four different programs to accomplish our safety goals. These programs are Code Enforcement, Community Education, Fire Protection Engineering, and Elevator Inspections.

The Fire Prevention Division works hard to provide quality services to the citizens and visitors of our great city through a multi-tiered approach to code compliance. This approach provides the City a safe and vibrant place for people to live and work, while providing a measure of safety for our firefighting personnel that keeps them out of harm's way.

The Fire Prevention Division generates revenue for the City through fire protection plan review fees, elevator annual inspections, 2% fire dues payments for completing annual fire inspections, annual licenses for businesses with higher risk operations, and miscellaneous fees.



The personnel of the Fire Prevention Division, just before the retirements of Fire Marshal Ed Ruckriegel and Administrative Clerk Ann Blackdeer. Back row, from left: Jen Blair, Mark Sommerfeld, Ollie Matthews, Ed Ruckriegel, Joe Seifert, Scott Strassburg, Eric Dahl, Brian Kruser, Doug Milks. Front row from left: Amanda Hornung, Amy Lampe, John Kosmatka, Bill Sullivan, Ann Blackdeer, Bernadette Galvez. Not pictured: Jan Cramer, Ron Mueller, Aaron Schultz.



FIRE PREVENTION

Code Enforcement Unit

The City of Madison Fire Prevention Officers are responsible for providing and maintaining the best possible level of safety for our residents, visitors, business owners, and their employees. Staff use a mixture of scheduled safety inspections, education activities, plan review of fire detection and suppression systems, capacity enforcement, the most current engineering principles, and a permitting process for special hazards and occupancies to ensure all multi-unit residential and commercial buildings in our communities are built, operated and maintained safely.

Mid-year the State of Wisconsin, Department of Agriculture, Trade and Consumer Protection (DATCP) decided to end agreements with local municipalities, including the City of Madison, to conduct plan review and inspections for above-ground and below-ground flammable and combustible liquid storage tanks. At the request of DATCP, the years of extensive files, contact information, reports, and documentation was compiled, organized, reviewed, boxed up, and provided to them.

With the Intergovernmental Agreement to dissolve the Town of Madison, the Fire Prevention Division was tasked with integrating approximately 500 commercial properties and completing the annual routine inspections. The Fire Prevention Division also worked with the City of Fitchburg Fire Department to compile, organize, and document the transfer of 73 commercial properties that were annexed into the City of Fitchburg per the Intergovernmental agreement.

Fire Prevention Officers continue to work with large venues and event exhibitors at the Alliant Energy Center, Monona Terrace and other indoor and outdoor venues on improving safety at large-scale events and expos. With larger, complex events occurring again, this took a great deal of time and provided many educational opportunities.

Excluding new construction-related inspections, the fire department conducted over 25,900 inspection-related activities in the ever-increasing 12,650 commercial buildings and properties.



Inspections over the course of the year included over 8,000 routine inspections by Fire Prevention staff alone, 3024 compliance-related re-inspections, and more than 100 special, Bar, Tavern, and Place of Assembly capacity inspections.

The misuse of extension cords, power strips, and cube tap adapters causing issues such as smoke odor scares and tripping circuit breakers continues to be a top violation discovered during the routine fire inspection.



FIRE PREVENTION

Community Education Unit

The Community Education Program is passionate about keeping the City of Madison safe by educating the public on fire and injury prevention.

The City of Madison Fire Department engaged with members of the community through presentations, station tours, sprinkler side-by-side live burns and Safety Saturday, a yearly event that sees the MFD and other agencies gather on the Capitol Square to educate residents on safety.

We continue to find different ways to spread the importance of fire safety and injury prevention.

Stay Safe and Stay Healthy!





FIRE PREVENTION

Fire Protection Engineering Unit

The Fire Protection Engineer works directly with owners, developers, architects, engineers, contractors, business operators and other City Agencies to ensure the built environment has incorporated all of the required safety features that allow efficient evacuation, early detection and suppression of fires, limit the spread of smoke and fire, and facilitate access and integration of emergency response services.

In 2022, we saw revenues exceed budget projections; however, the amount was less than in 2021. We also saw a slight decline in the number of fire protection plan reviews approved--from 1,307 in 2021 to 1,174 in 2022. The Fire Protection Engineer was also involved in reviewing over 500 plans through the



City of Madison Planning Division regarding fire apparatus access to proposed projects. Even a minor dip after the very strong construction year of 2021 shows there is still steady work in the Fire Protection Engineering discipline.

In addition to reviewing almost 1,200 plans, the Fire Prevention Division is also responsible to complete inspections during the construction phase and witness acceptance testing when the systems are complete to verify proper installation and functionality. Fire Prevention Officers conducted over 3,300 inspections relating to fire protection system work permits in 2022.



FIRE PREVENTION

Elevator Inspection Unit

The City of Madison Elevator Inspection Unit consists of three State and NAESA Certified Elevator Inspectors. Together they work to ensure the safe installation, alteration, and operation of conveyances, including elevators, escalators, platform lifts, chair lifts, type B material lifts, and dumbwaiters.

Our primary focus is on timely plan review approval, accurate and safe installation and alteration inspections, as well as annual inspections.

The Madison Fire Department issues a Permit to Operate for each elevator on an annual basis after verifying the conveyances are in compliance with state and national standards.

In 2022 the Elevator Inspection Unit hired a new Elevator Inspector Mark Sommerfeld, Mark is a native of Milwaukee, Wisconsin and after being honorably discharged from the military he worked as an elevator mechanic in Florida for 26 years. Mark later became an Elevator Inspector in Florida for 3 years and now lives in Madison. The MFD is currently seeking an additional Elevator Inspector to help with the increasing workload.

In 2022, approximately 2990 conveyances were inspected, including approximately 147 installation inspections. The elevator inspection unit has resumed its Firefighter Elevator Rescue Training program as the firefighters were called to approximately 200 elevator entrapments in 2022.





FINANCE

2022 Operating Budget and Actual*

Line Item	Original Budget	Revised Budget	Actual	% of Subtotal (Actual)	Original Budget Surplus (Deficit)	Revised Budget Surplus (Deficit)
Intergovernmental Revenues	(\$1,849,367.00)	(\$1,849,367.00)	(\$4,276,540.38)	22%	\$2,427,173.38	\$2,427,173.38
Charges for Services	(\$11,657,284.00)	(\$11,657,284.00)	(\$13,524,657.62)	69%	\$1,867,373.62	\$1,867,373.62
Fire Services	(\$1,568,184.00)	(\$1,568,184.00)	(\$1,723,883.75)	9%	\$155,699.75	\$155,699.75
Ambulance Conveyance Fees	(\$9,745,000.00)	(\$9,745,000.00)	(\$11,429,298.66)	59%	\$1,684,298.66	\$1,684,298.66
Other	(\$344,100.00)	(\$344,100.00)	(\$371,475.21)	2%	\$27,375.21	\$27,375.21
Licenses and Permits	(\$1,356,543.00)	(\$1,356,543.00)	(\$1,511,253.70)	8%	\$154,710.70	\$154,710.70
Elevator Permits and Licenses	(\$819,828.00)	(\$819,828.00)	(\$944,097.45)	5%	\$124,269.45	\$124,269.45
Fire Permits	(\$536,715.00)	(\$536,715.00)	(\$567,156.25)	3%	\$30,441.25	\$30,441.25
Investment and Other Contributions	(\$5,250.00)	(\$5,250.00)	(\$953.25)	0%	(\$4,296.75)	(\$4,296.75)
Miscellaneous Revenue	(\$113,100.00)	(\$113,100.00)	(\$131,708.40)	1%	\$18,608.40	\$18,608.40
Other Finance Source	(\$25,800.00)	(\$25,800.00)	\$0.00	0%	(\$25,800.00)	(\$25,800.00)
Transfer In	\$0.00	\$0.00	(\$21,520.82)	0%	\$21,520.82	\$21,520.82
Total Revenues	(\$15,007,344.00)	(\$15,007,344.00)	(\$19,466,634.17)	100%	\$4,459,290.17	\$4,459,290.17
Salaries	\$43,789,708.00	\$44,373,719.00	\$44,065,853.04	63%	(\$276,145.04)	\$307,865.96
Permanent Wages & Premium Pay	\$42,219,615.00	\$40,958,626.00	\$39,122,377.60	56%	\$3,097,237.40	\$1,836,248.40
Overtime Wages	\$1,570,093.00	\$3,415,093.00	\$4,943,475.44	7%	(\$3,373,382.44)	(\$1,528,382.44)
Benefits	\$13,907,401.00	\$16,476,090.00	\$16,397,041.04	23%	(\$2,489,640.04)	\$79,048.96
Supplies	\$1,172,397.00	\$1,189,409.66	\$1,013,988.68	1%	\$158,408.32	\$175,420.98
Purchased Services	\$1,872,440.00	\$1,827,740.00	\$1,523,840.30	2%	\$348,599.70	\$303,899.70
Debt and Other Financing	\$116.00	\$116.00	\$0.00	0%	\$116.00	\$116.00
Interdepartmental Charges	\$5,179,100.00	\$5,116,251.00	\$4,650,314.38	7%	\$528,785.62	\$465,936.62
Interdepartmental Billing	\$0.00	\$0.00	\$0.00	0%	\$0.00	\$0.00
Transfer Out	\$102,000.00	\$102,000.00	\$2,735,510.93	4%	(\$2,633,510.93)	(\$2,633,510.93)
Total Expenses	\$66,023,162.00	\$69,085,325.66	\$70,386,548.37	100%	(\$4,363,386.37)	(\$1,301,222.71)
Grand Total	\$51,015,818.00	\$54,077,981.66	\$50,919,914.20		\$95,903.80	\$3,158,067.46

2022 Capital Budget and Actual

Project	Budget	Actual	Budget Surplus (Deficit)
CARES Vehicle	50,000	39,879	10,121
Communications Equipment	300,000	182,542	117,458
Fire Apparatus & Rescue Vehicles (Fleet Services)	3,205,000	2,571,304	633,696
Fire & EMS Equipment	500,000	293,157	206,843
Fire Building Improvements (Engineering Division)	295,000	411,697	(116,697)
Fire Station 6 Remodel	3,957,000	64,672	3,892,328
Total	8,307,000	3,563,251	4,743,749



INFORMATION TECHNOLOGY

The Madison Fire Department Division of Information Technology has one full-time staff member who is responsible for managing and coordinating the diverse technology needs of the Madison Fire Department. On average, there has been an increase yearly of 3% in the amount of technology service requests.

Technology Changes in 2022

- We still faced many challenges from 2021, including but not limited to, the extended supply chain delays for equipment and the continued adjustment to different work environments between the office and work from home support. This included continued and new support of remote users working from home as well as office maintenance.
- Continued to upgrade our vehicle routers to phase out the Cradlepoint Routers to newer routers that are FirstNet ready. Doing so will set us up to move to FirstNet in the future more smoothly and efficiently.
- Due to the supply chain delays, the migration from our current Mobile Data Computer (MDC) fleet to the Dell Rugged computers was ongoing through the year.
- Upgrading our KeySecure in all 41 frontline units officially began, 50% have been completed in 2022.
- Tested out a new tracking system for our Knox Key system. This new system should help eliminate issues with locating sets of keys.
- The ongoing management, mobilizing, and demobilizing of Command Post for Citywide events and training.
- The move away from Polycom was completed. New video conferencing systems will continue to be implemented over the next few years.
- Cleaned our SharePoint site in preparation to migrate to the current version of SharePoint.
- Began the process of upgrading our MedVaults in all 41 frontline units due to being outdated.
- Ongoing support and continued planning and testing of a major upgrade to Telestaff.
- Worked with City IT on building the foundation for Fire's new Team Dynamix (TDX) site. There is still a lot of work to be done on the site but we are on our way to migrating away from the SharePoint form.
- Continued work and coordination with City IT for ordering new equipment and replacement of aging desktops and laptops.

continued...



INFORMATION TECHNOLOGY

continued...

Projects for 2023

1. Continuing to work with City IT on migrating our SharePoint site to the latest version and redesigning our internal site.
2. Will work with Dane County 911 to test a newer modernized version of Mobile for our frontline vehicles.
3. Continue collaboration with City IT to work on upgrading EOC technology,
4. In 10% of our vehicles, we are going to start testing 5G capable equipment and proceed from there based on the results.
5. Start planning for the migration of TeleStaff from on premise to a Cloud Environment (2027).
6. We will continue to implement FirstNet ready technology. We hope to finish upgrading all of our frontline routers by the end of this year.
7. Migration from our current Mobile Data Computer (MDC) fleet to the Dell Rugged computers is planned to be completed.
8. We will continue to upgrade our MedVaults and KeySecure in all frontline units. We hope to have all frontline units changed over to the new equipment by the end of 2023.
9. Will continue to survey stations and strategically continue to upgrade conferencing equipment.

