



FIRE DEPARTMENT

MONTHLY INFORMATION REPORT

May 2022

HIGHLIGHTING DATA METRICS
TO IDENTIFY OPERATIONAL TRENDS
AND
FACILITATE INFORMED DECISION-MAKING

70 E. MAIN STREET
LAKE ZURICH, IL 60047

OUR MISSION: To care for and protect our community.

OUR VISION: The Lake Zurich Fire Department is dedicated to meeting the ever-changing needs of our community, while ensuring a safe and secure environment for all, through professional development, unity, and teamwork.

OUR VALUES: Professionalism, Responsibility, Integrity, Dedication, Honor

Departmental Narrative - May 2022 Overview

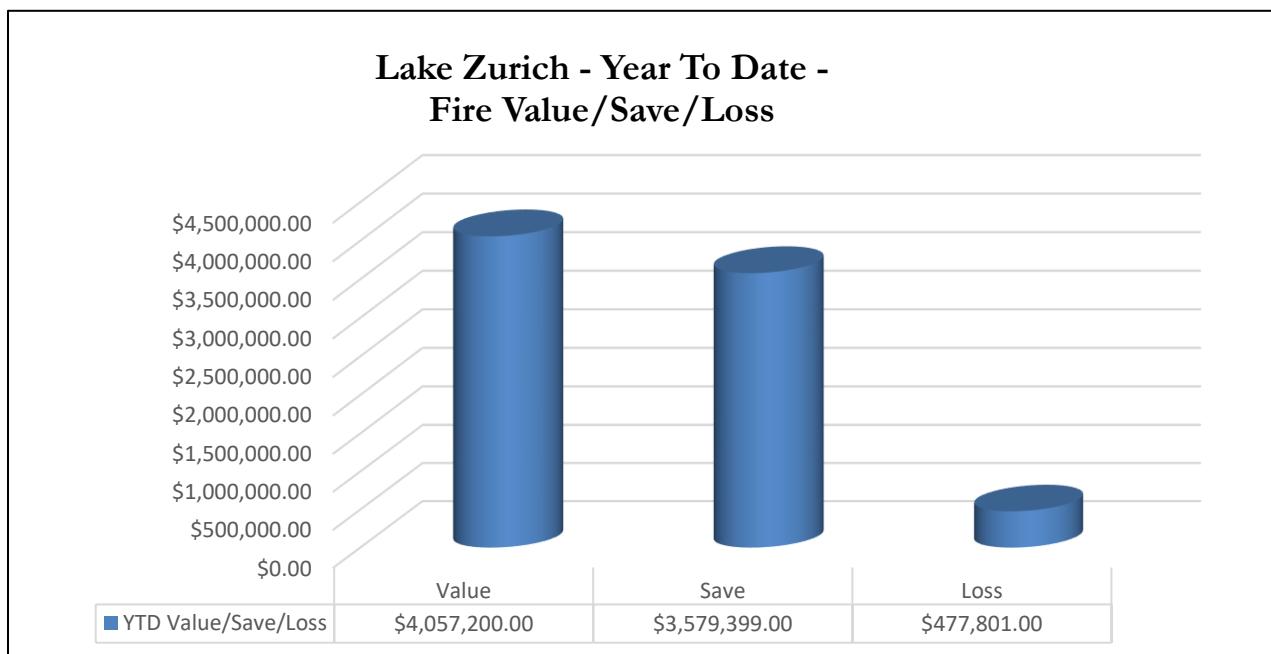
In May, the Department responded to **415** calls for service, averaged **13** calls per day and required **685 individual vehicle responses** to provide the necessary personnel for each incident.

Forty-five (**45%**) percent of the service area responses occurred while another call was in progress. Twenty-five (**25%**) percent of the service area needs to the community required an apparatus from a Lake Zurich Fire Department non-primary engine or ambulance; or a mutual aid department due to multiple calls. This leads to a service area without a primary engine or ambulance and increased response times.

Our current staffing model increases response times when simultaneous calls occur as the Department is only structured to handle a single response per station. We staff two vehicles with only three personnel using what is called a "jump company. If the call is for the ambulance, the personnel respond with the ambulance, and if it is a fire call, the staff responds with the engine. One of the vehicles remains in the station unstaffed on every incident we respond to due to the limited personnel we have on shift. Once a station commits on a call, the next call for service requires another station or mutual aid to handle the incident.



**Lake Zurich - Year To Date -
Fire Value/Save/Loss**

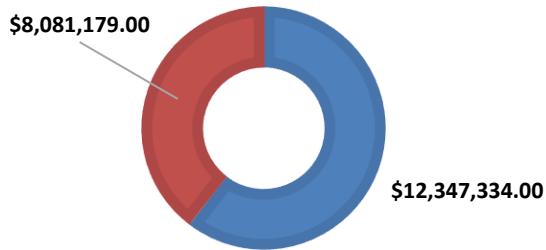


Administration Division

The department continues to work with the Board of Fire and Police Commission (BOFPC) on screening new hire candidates for the three (3) open positions in the department. The screening process requires many hours, including a background interview, follow-up phone calls, neighborhood canvas, and medical and psychological exams. The department anticipates exhausting our budgeted overtime costs but costs decrease once we can bring the new hires on board and have them assigned to shift.

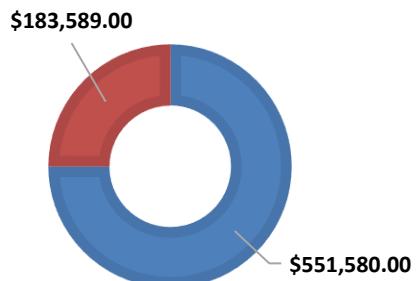
FIRE DEPARTMENT BUDGET

■ Overall Budget ■ YTD Budget Remaining



OVERTIME ACCOUNTS

■ Overtime Budget ■ YTD Dollars Remaining



Station 2, 3, and 4 – New Station Signs – Thank you Rural Fire Protection District Trustees!



Dear Chief Pilgard,

I'd like to extend my sincere gratitude for your fine team. Last Friday, while my mother was visiting, we returned home to the sound of a chirping smoke detector. It had already been an arduous day of errands and appointments, so I wasn't thrilled when I discovered I needed to head out once again in the nonstop rain for batteries. After returning and replacing the batteries, the chirping continued. I figured there must have been a bad battery in the bunch, so I replaced them again...more chirping. Next, I watched a couple of YouTube videos in an effort to discover what I was doing wrong. Nothing I watched seemed to identify the problem. So, I called the Deer Park Fire Department (nonemergency number) to ask for advice. The voice on the phone said they would be right over!

Moments later, Lieutenant Keith Hobs, FF/PM Phil Rotstein and FF/PM Kevin Glasder arrived at my door. After also trying different batteries, they determined the smoke detector was at the end of its life. It was dated 2013 and I was told nine or ten years is typically how long this sort of equipment lasts. Further, since all units in my home were originally installed at the same time, they encouraged me to replace all of them. But I was delighted (and a bit shocked) when they offered to return once I had purchased the replacements the same day.

An hour later I called the Deer Park Fire Department back and they returned to install all of the new smoke detectors and combo smoke/carbon monoxide detectors more quickly and efficiently than I could ever have dreamed of accomplishing on my own. I'm not sure it's even possible to express how grateful I am. Had I done this myself, I would not have confidence it was done properly.

Lieutenant Keith Hobs, FF/PM Phil Rotstein and FF/PM Kevin Glasder were a Godsend! These fine gentlemen were so courteous and helpful. It was our pleasure to meet them. It is truly comforting to know that they are nearby should a more serious crisis ever arise. Please thank them again.

Most appreciatively,

Monica Baber

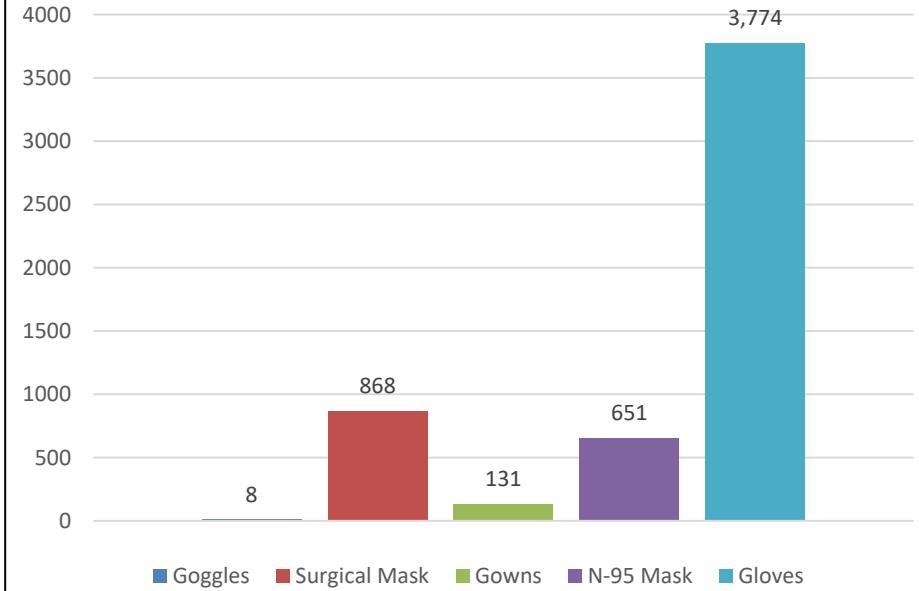
COVID-19 Updates

We are tracking the Personal Protective Equipment (PPE) that members use and dispose of due to the COVID-19 pandemic.

In May, we issued **5 pairs of safety goggles** and used **170 surgical masks** on patients, **164 - N95 respirators** for our personnel, **18 gowns**, and approximately **976 surgical gloves**.

The graph pictured to the right shows the year-to-date (2022).

PPE Utilized & Disposed 2022



After two years of everyone feeling isolated – it is wonderful to have our community being able to come and revisit the fire stations and firefighters!



"The ladies of Brownie Troop 439 (2nd grade @ St. Francis) had an amazing time on their exciting tour on Friday. Your staff was so helpful in setting up and giving the tour. It was truly heartwarming to see them interact with the girls. They communicated and explained things perfectly at exactly the right age-level and kept them engaged and excited about learning about safety the whole time."

On a side note: As a parent, it makes me feel very reassured to know that, should there be an emergency, your staff can communicate and provide a feeling of security to the kids.

Thank you again!

Sincerely,

*Marie, Karen, Laura & the ladies of Troop 439
(Pictured left)*



Our Personnel



Congratulations to Captain Benny Yee & Lieutenant Shaun Stapleton on your promotions! (Pictured above)



Congratulations to the FF/PM Brian Stodola Family! They welcomed their beautiful daughter, Camila Cataleya Stodola, born May 17 at 8:50pm 7.6lbs, 20.5".

Community Focus/Risk Reduction/Public Education

Examples of community focus/risk reduction/public education include but are not limited to; school talks and station tours where a safety message such as stop, drop, and roll is covered. We also monitor fire and severe weather drills in schools and educate children about fire safety. Also, we teach exit drills in the home to middle school students and provide CPR/First-Aid training.

Pictured below is a Fire Truck Engine Ride to School.



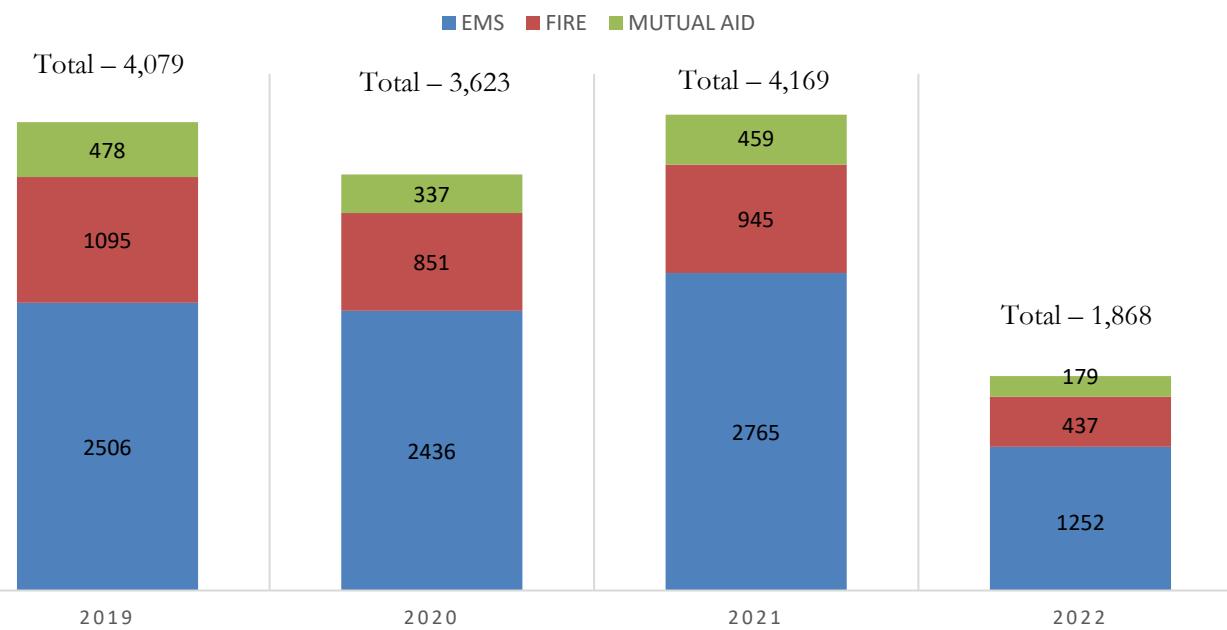
Operations Division

Vehicles Out of Service

- During May, the following vehicles were out of service due to maintenance, repairs, or breakdowns:
 - Ambulances – 70.93 hours
 - Engines – 20.50 hours
 - Year-To-Date Hours:

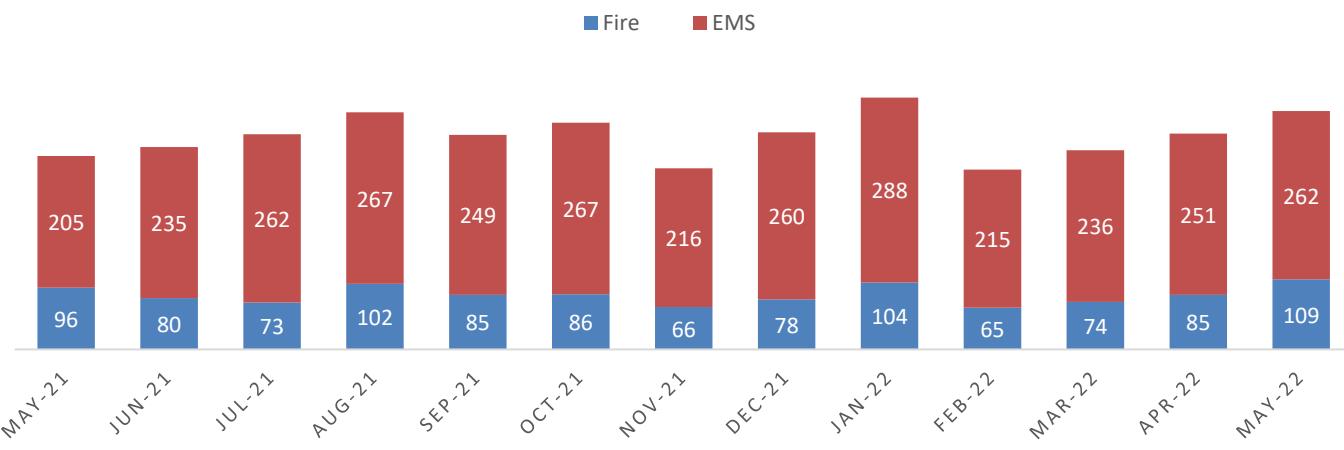
Ambulances: 159.18 hours | Engines: 1,016.58 hours

TOTAL CALLS - YTD (DATA WILL BE ADDED EACH MONTH TO 2022)



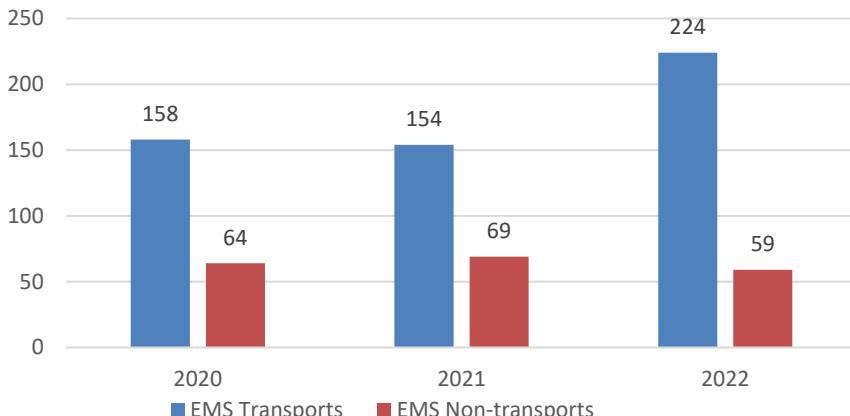
Below is the breakdown of Fire versus EMS incidents in Lake Zurich – minus aid given. Our fire calls include structure fires, car fires, grass fires, dumpster fires, wires down, and other types of service calls.

MAY - EMS V FIRE CALLS (NO MUTUAL OR AUTO AID)



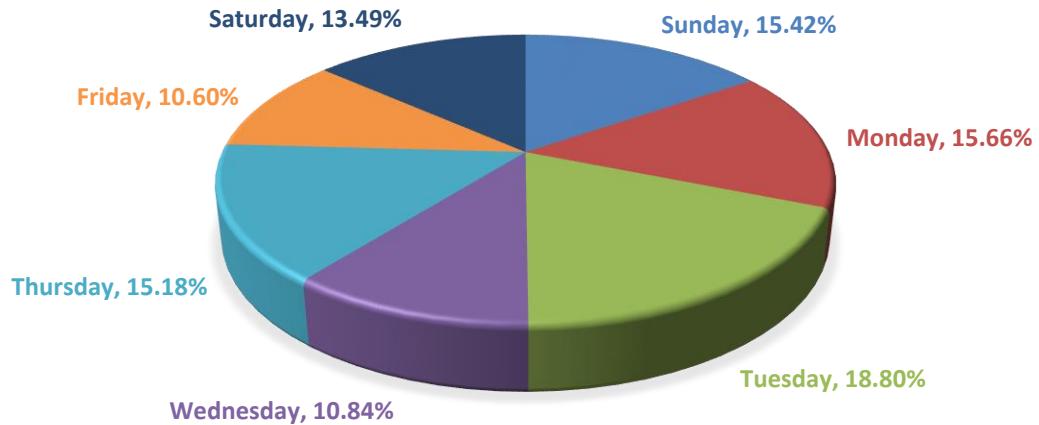
The following chart reflects activity related to emergency medical services, a core function of the fire department — not every EMS call results in transport. A prime example of this is an automobile accident where several victims refuse transport. EMS transports always outpace refusals. This chart compares the month of May across 3 years. The trend is consistent with the data period. These numbers represent the patients seen.

EMS Transports vs Non-Transports - (Patients)
Monthly 3 year - Comparison

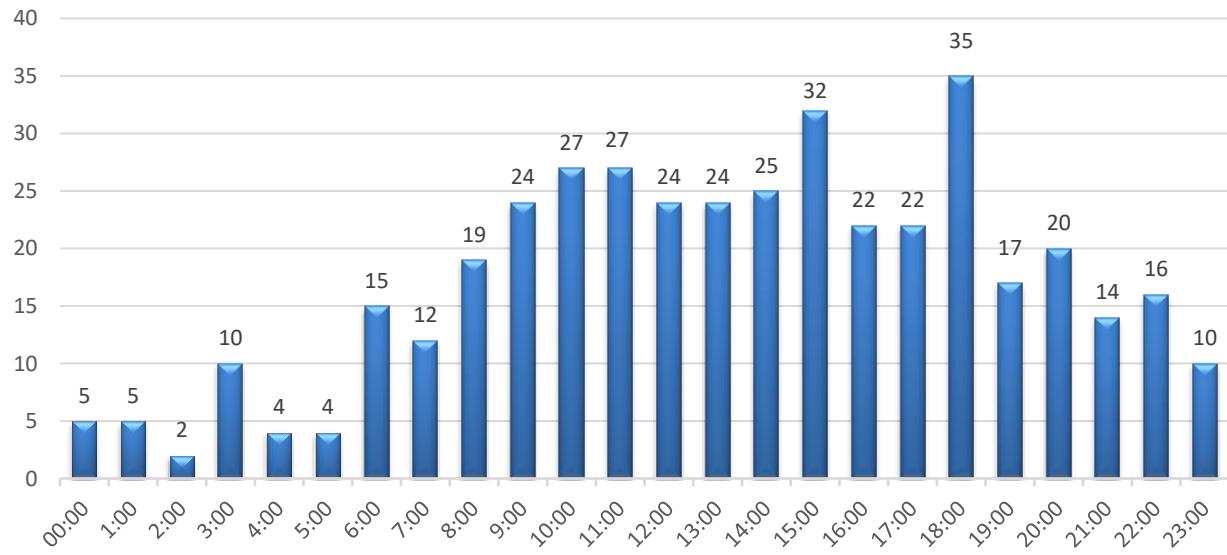


The following two charts break down calls by the day of the week and hour of the day.

RESPONSE BY DAY OF WEEK - MAY



RESPONSE BY HOUR OF DAY - MAY



STATION 1

321 S. Buesching Road
Lake Zurich, IL 60047

APPARATUS & STAFFING

BATTALION 32



ENGINE 321

AMBULANCE 321



STATION 2

350 W. Highway 22
North Barrington, IL 60010

APPARATUS & STAFFING

ENGINE 322

AMBULANCE 322



STATION 3

1075 Old McHenry Road
Lake Zurich, IL 60047

APPARATUS & STAFFING

ENGINE 323

AMBULANCE 323



STATION 4

21970 Field Pkwy
Deer Park, IL 60010

APPARATUS & STAFFING

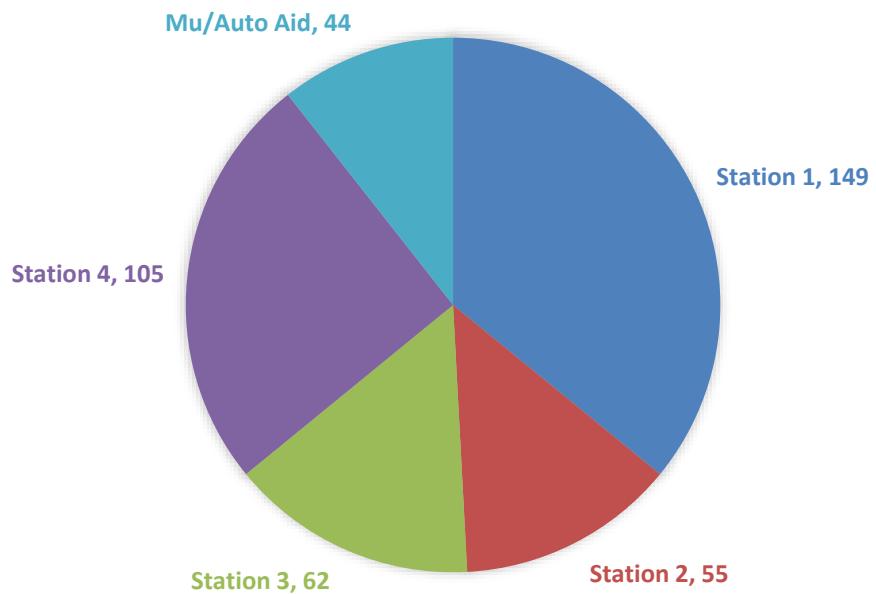
ENGINE 324

AMBULANCE 324



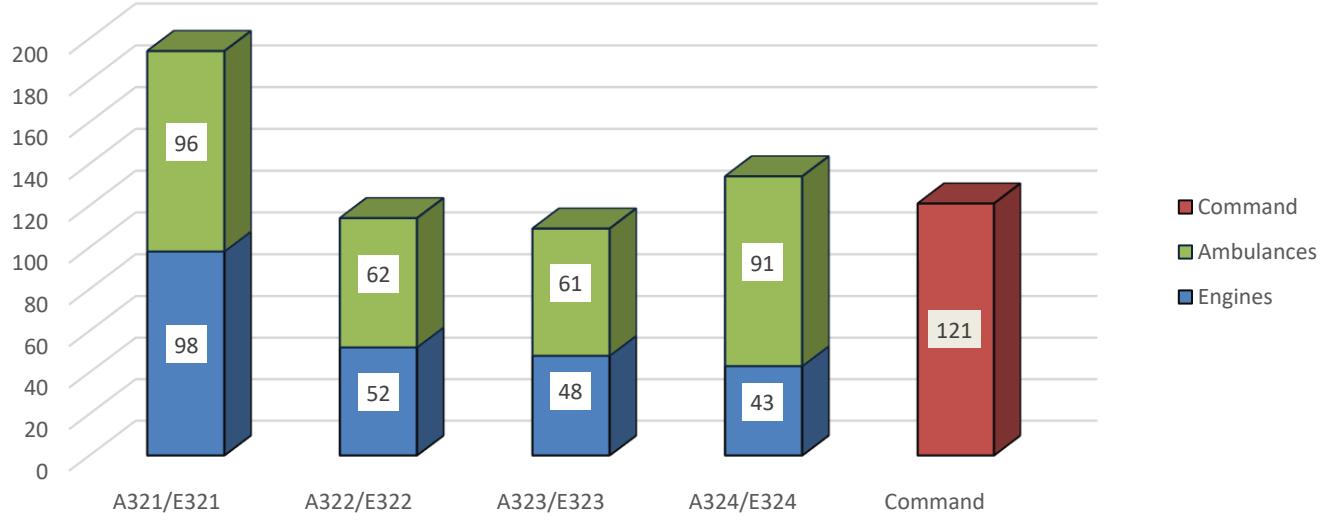
The graph below represents the percentage of calls by each station and mutual/auto aid for May 2022. The chart does **not** represent the station that responded as the primary resource to the area – it means where the call originated. Station 1 is historically the busiest district.

ORIGIN OF CALLS - MAY, 2022

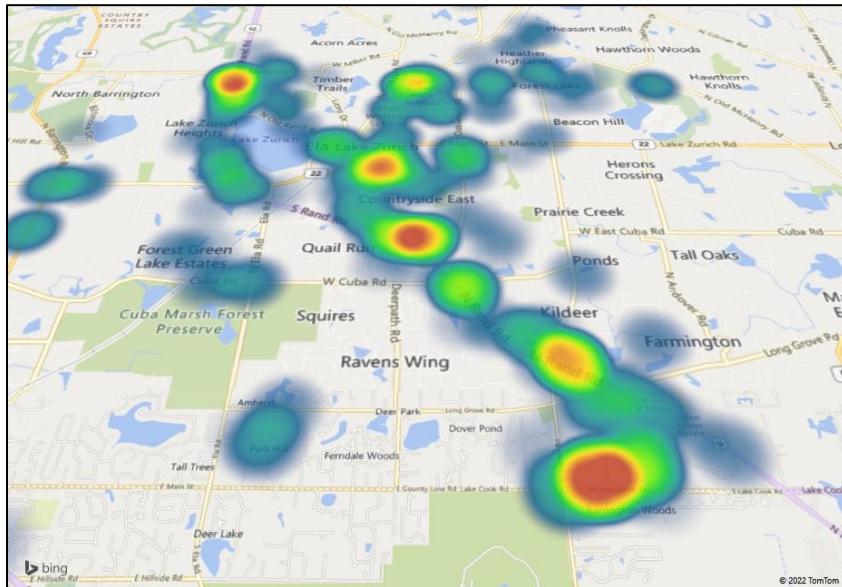


The graph below shows the responses by each unit – Ambulances, Engines, and Command Officer – in May

Total Unit Responses - Ambulances, Engines, & Command Officer



The following graphic is a visual representation of call distribution for May. As visually displayed, the assisted living/memory care facilities are a large portion of our department calls and are consistently within the top ten locations responded to each month. We frequently respond to doctor offices, health clinics, and automobile accidents near the Route 12 corridor.

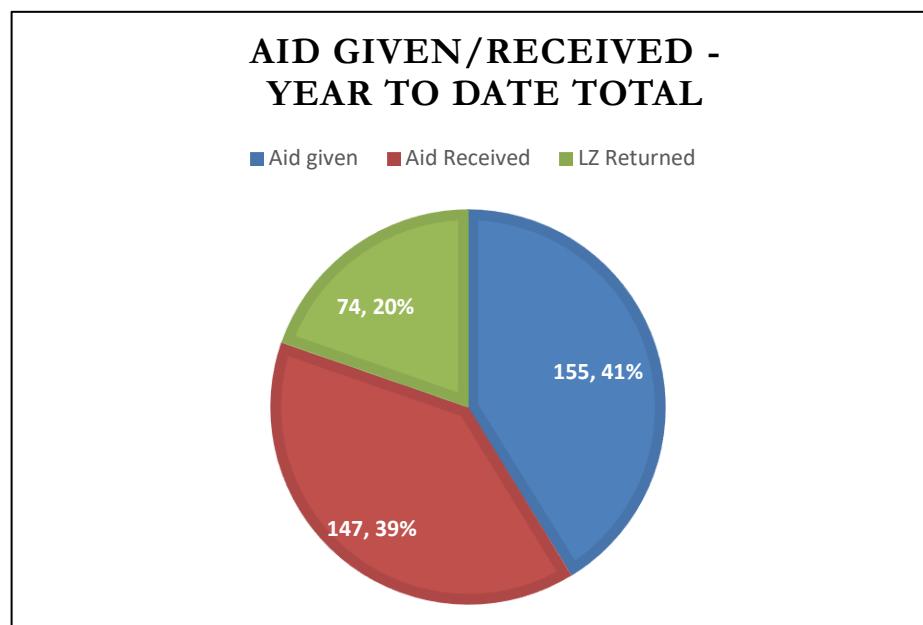


Frequent Call Locations:

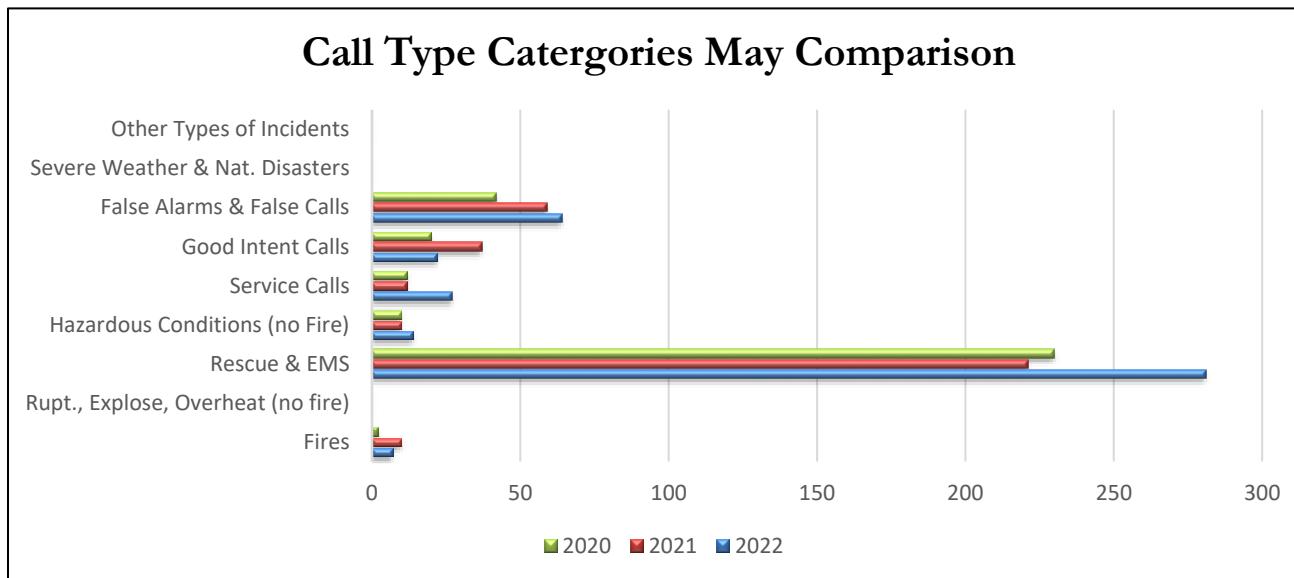
- 21840 Lake Cook Road – Deer Park Village Senior Living – 19 responses
- 795 N. Rand Road – Azpira Place of Lake Zurich – 14 responses
- 21481 Rand Road – Northwest Community Healthcare – 8 responses
- 900 S. Rand Road – Avantara Health Care Center of Lake Zurich – 8 responses
- 777 Church Street - Cedar Lake Assistant Living - 8 Responses

Mutual/Auto Aid Response Year to Date –

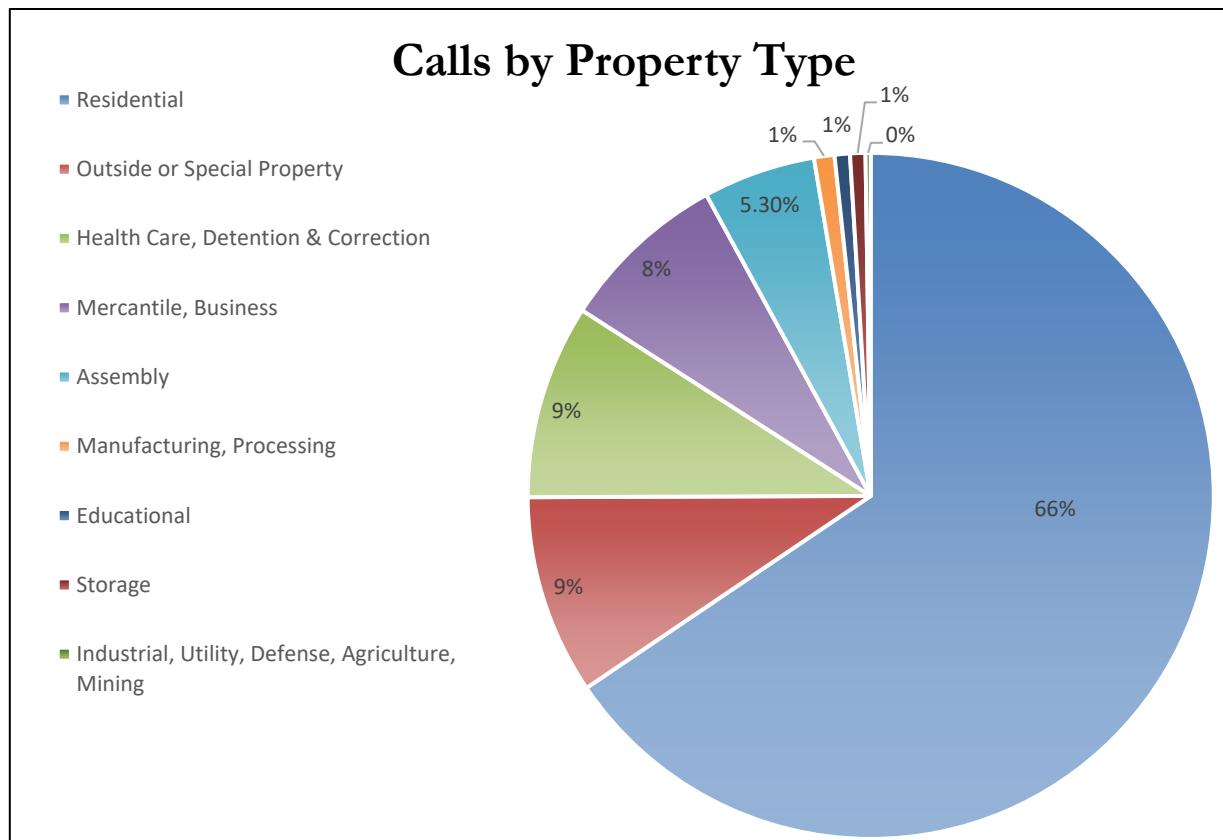
The mutual aid agreements are designed not to overburden any agency and are looked at carefully for necessary adjustments. Run cards for the Department have changed, and our partners respond to assist us more often. In May, we responded to **44 mutual aid calls and returned 16 times** before arrival. The chart to the right shows YTD Aid Given/Received and how many times LZ returned before their arrival. Many of our response incidents do not require intervention from the LZPD 911 center through automated dispatching and resource sharing. They are handled by the agency requesting our response — direct cost savings to our budget and an added benefit of the automated dispatch system.



All calls we code as a department within the National Fire Incident Reporting System (NFIRS). The codes all relate to the text categories noted in the chart below. As indicated below, you will see that the trends remain mostly the same across the three years. As shown below, rescue and EMS incidents account for most calls we respond to and continue to increase.

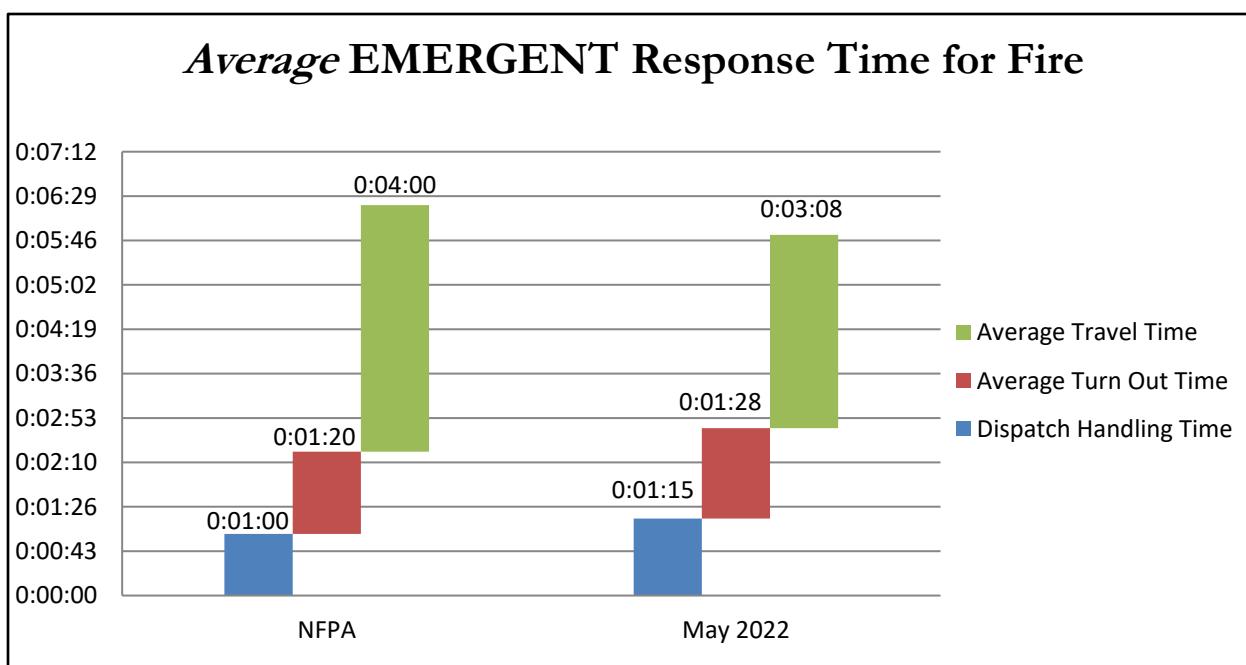
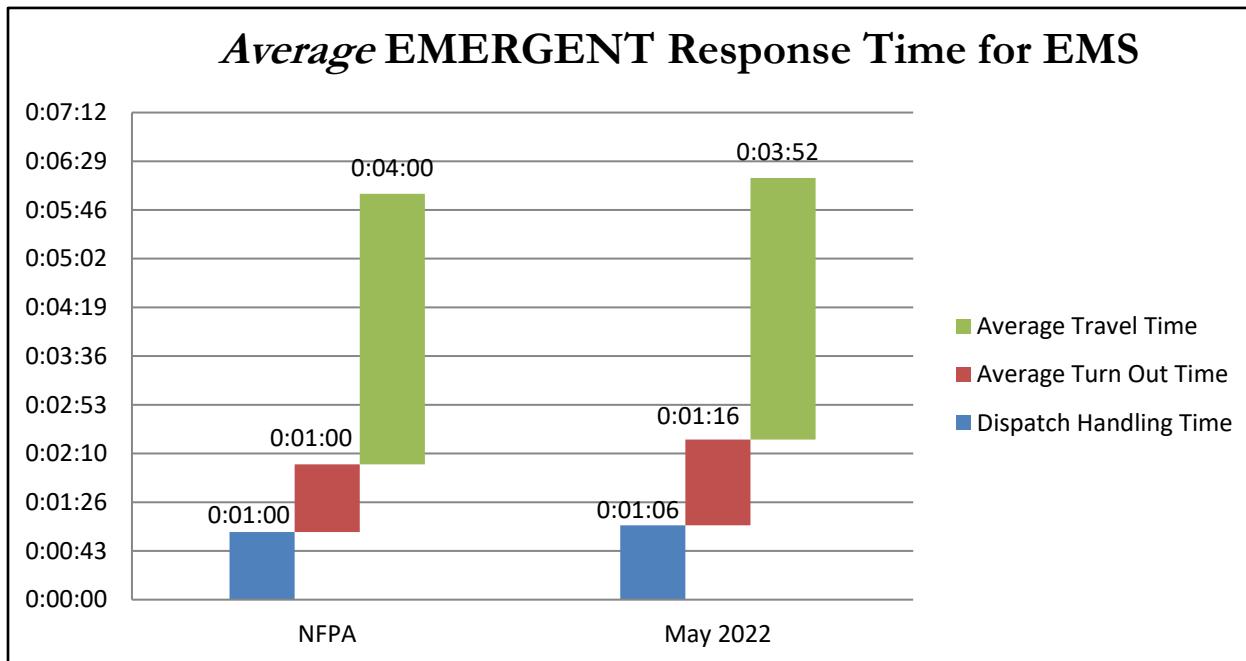


As previously mentioned, there is a national standard for coding the type of property use. How is this relevant? We see trends in various occupancies and use them to determine our service demand. For example, the healthcare category would increase if additional assisted living or nursing homes were open. As shown below, we continue to respond to Residential Properties more than any other (66%), and Outside/Special Property and Health Care were second with (9%) of all calls.



Response time includes three key factors: dispatch handling, turnout, and travel time. Dispatch handling time is when dispatch takes in information and then dispatch personnel. The turnout time is when the crews receive the call to the time they get into the vehicles and hit the enroute button. Travel time reflects the time from en route to when they arrive at the incident scene. Construction, speed limits, weather, and train traffic can impact response times. The overall goal for arrival at an emergency fire call is 6 minutes and 20 seconds from the time of notification until the first unit arrives on the scene. For a response to an EMS incident, this time is 6 minutes.

The following two graphs compare the average emergency response times for Fire and EMS calls within our first arriving unit's primary response area. These times will vary based on the first responding unit's location, multiple calls, weather, time of day, and traffic conditions. *Dispatch handle times have increased after switching to the new CAD system and delays caused by processing an alarm. The ETSB and Infor continue to work on the issue.



Training Division

During May, we completed the following shift training:

Officer Training – Members, completed officer training on handling routine emergencies.

SCBA – Members completed training on SCBA Rules of Air Management.

EMS Continued Education – Paramedics completed mandatory training on the new NCH EMS SOG's.

Pediatric Cardiac Care – Paramedics completed training on treating a pediatric patient with cardiac issues.

Dry Hydrant Testing – Crews flow tested dry hydrants and pre-planned them for setting up an effective water supply.

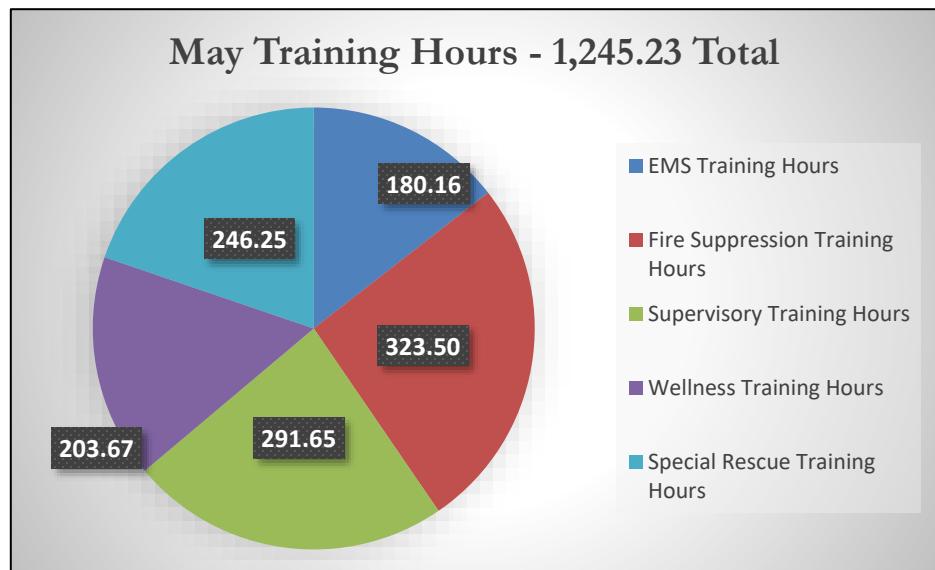
Stand Down for Mental Health – Members participated in the IRMA Mental Health webinars.

Pre-Plans – Members reviewed the pre-plans of several target hazards to familiarize themselves with the building and associated risks.

Company Needs – Company Officers evaluated their crew and based the training on their company's needs. This included department SOG review and Daily Training Bulletin completion.

Weekly Equipment Review – Crews review department equipment and ensure they can operate properly and effectively.

Probationary Program – Probationary members worked on completing Probationary Program.



The following members attended Outside Training:

FF/PM Hall completed the final 80 hours of the OSFM Fire Investigation class.

Lieutenant Wascow, FF/PM Campbell & FF/PM Penkava completed 16 hours of training during the Online Hazmat Conference.

Deputy Chief Christopherson completed the 8-hour EOP Development class.

FF/PM Boeckmann completed the 40-hour Leadership Development & Decision-Making class.

Deputy Chief Kelly & Deputy Chief Christopherson attended the 3-day Station Design Conference.

Fire Prevention Bureau Division

May saw the return of fire drills and school visits.

Pictured to the right is an engine and Bureau visit to the Issac Fox Elementary School first-graders, where we discussed fire safety and showed equipment to over 90 first-grade students and teachers.

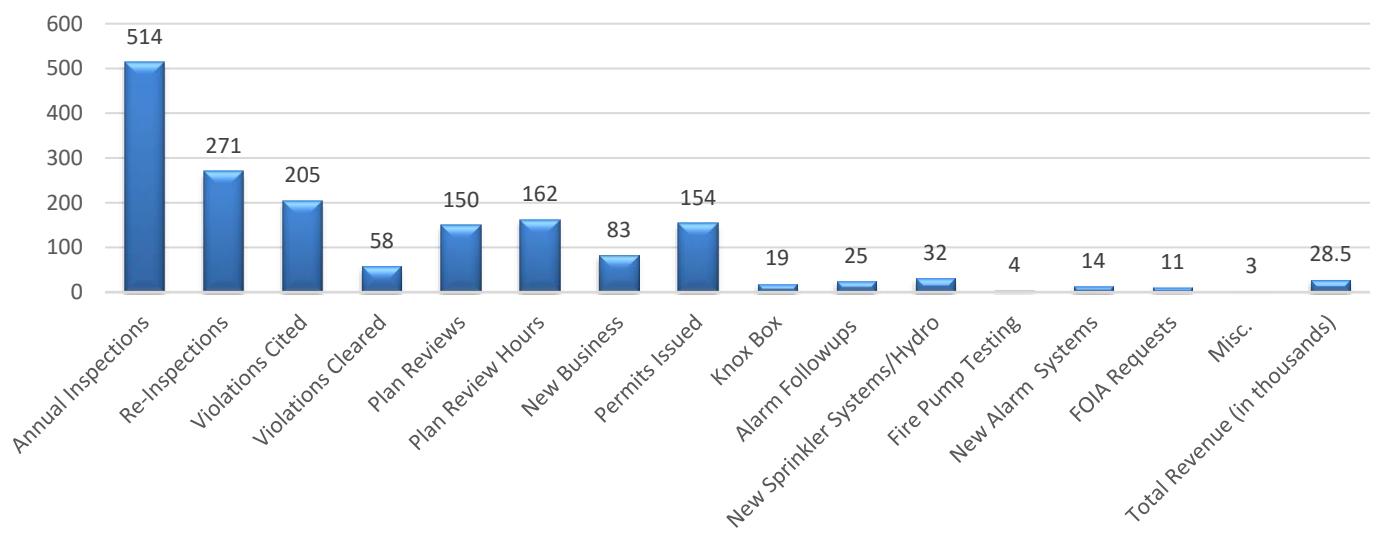
The below picture is from the Lake County Fire Expo. Fire Prevention Specialist Bob Kleinheinz was pleased to 'MC' the Fire Sprinkler Live Burn Demo to nearly 300 people. The Lake Zurich Fire Department also provided our public education Fire Pole, which was busy all day.



MAY 2022 ACTIVITIES

- Mutual Aid Fire Investigation to Mundelein Fire Department
- Dry Hydrant work for Chief Pilgard
- Monthly Fire Inspector meeting & training
- 4 School Fire Drills
- Construction Meetings
 - Deer Park Licia
 - The Reserve 6th floor build-out
 - Higher Ground School
 - 35 West Main
 - Lake Zurich School District projects
 - Lifetime

Year-To-Date - 2022 (Data will be added each month)





MABAS Divisions 4 & 5 SPECIALIZED RESPONSE TEAMS

Coordinating Fire Department Specialized
Response Services Across Northeastern
Illinois and Southeastern Wisconsin



ANNUAL REPORT
2021

The MABAS Divisions 4 & 5 Specialized Response Teams (SRT) is an intergovernmental cooperative organization responsible for the coordination of specialized response services for the fire departments and districts that belong to Divisions 4 and 5 of the Mutual Aid Box Alarm System (MABAS). SRT coordinates training, qualifications, equipment and resources for its teams, which include the following:

Hazardous Materials Team
Mechanics Team
Technical Rescue Team
Water Rescue & Recovery Team
(Dive, Sonar & Swiftwater)
Wildland Task Force

Organizational Leadership

JOINT ADMINISTRATIVE COUNCIL

The Joint Administrative Council (JAC) is the governing body responsible for the oversight and management of the MABAS Divisions 4 & 5 SRT. It is comprised of three chiefs from each of the member MABAS Divisions.

2021 JAC members were:

Rich Carani, Chairman
(Libertyville Fire Department)

Steve Spraker, Vice-Chairman
(McHenry Township Fire Protection District)

Greg Formica, Secretary/Treasurer
(Greater Round Lake Fire Protection District)

Mike Hill
(Woodstock Fire/Rescue District)

Bob Kreher
(Fox River Grove Fire Protection District)

Jeff Steingart
(Wauconda Fire Protection District)

ADMINISTRATIVE COORDINATOR

Christina Loomis

OPERATIONS CHIEFS

Kevin Cronin, Division 4
(Lake Forest Fire Department)

Chris Williams, Division 5
(Crystal Lake Fire Rescue Department)

A Message from Administrative Coordinator Christina Loomis

After the challenging year we faced in 2020, 2021 gave SRT an opportunity to refocus on the goals and objectives outlined in our Strategic Plan. First and foremost, at the beginning of the year, we restructured our Joint Administrative Council meetings to incorporate our team leaders/coordinators into every meeting. We also created an internal Training Committee to discuss ways to improve training for all our special teams – including looking for possibilities for cross-discipline training. SRT also continued our succession planning efforts, adding seven new team leaders/coordinators across four of our special teams.

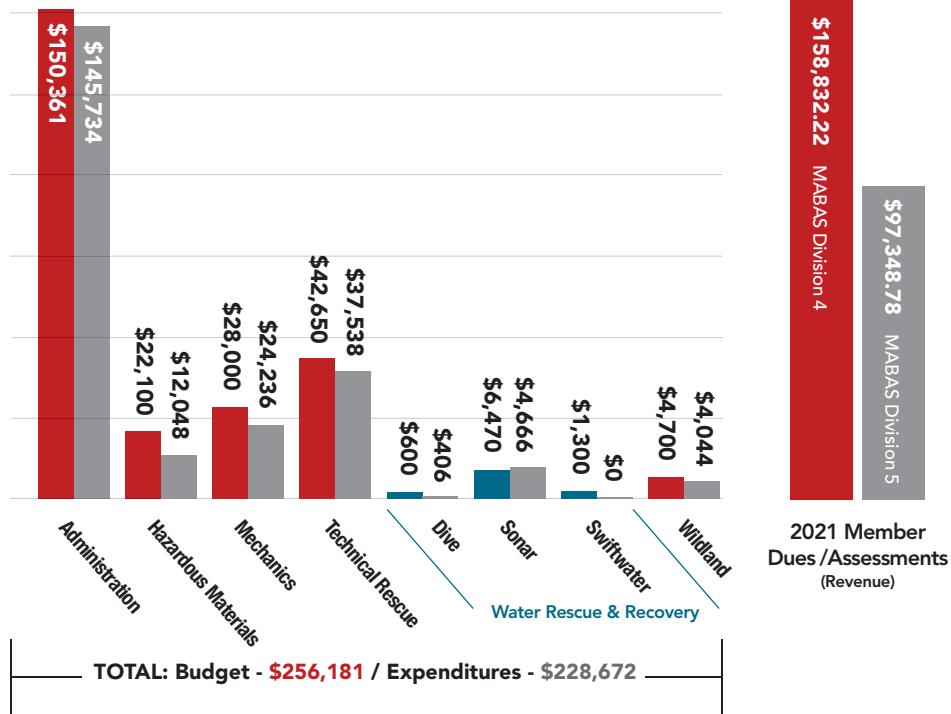
One of SRT's most significant accomplishments in 2021 was the creation and production of two videos to promote SRT – one to market the organization and one to recruit new team members. The need for these videos was outlined in our Strategic Plan as the ideal way to educate the public, elected officials and individuals within our member fire departments about the purpose and cooperative structure of SRT. We are confident it will be a great tool for all our member agencies to use in the future.



Another important accomplishment was the creation of SRT's first, comprehensive 5-Year Capital Improvement Plan (CIP). Using the information from the team inventories completed in 2020, SRT drafted a CIP document covering all its special teams and the administration and presented it to both member MABAS divisions. The plan was approved unanimously by both MABAS Division 4 and MABAS Division 5. Moving forward, this document will be updated on an annual basis and incorporated into SRT's annual budget development process.

As a result of the ongoing COVID-19 pandemic, providing special team training did continue to be a challenge in 2021. When COVID-19 case numbers rose throughout the year, SRT leveraged Zoom to provide targeted on-line/classroom training or team updates for many of our special teams. As part of our annual review of SRT's Standard Operating Guidelines (SOGs), we also incorporated greater flexibility into the annual training requirements to ensure our team members can stay current on all their essential knowledge and skills. We remain hopeful that 2022 will be another productive year – and that we will continue to improve as an organization as we take on new goals and objectives from our Strategic Plan.

2021 Operating Budget and Expenditures



**Scan QR Code
to Watch the
SRT Story Video**



Team Responses

There were 18 SRT incidents in 2021 and a total of 30 team responses (some incidents required a response by multiple teams). Out of those 18 incidents, teams were cancelled enroute for five of them.

Hazardous Materials	3
Mechanics	6
Technical Rescue	0
Water Rescue & Recovery	
Dive	6
Sonar	10
Swiftwater	0
Wildland	5
TOTAL 30	

Team Membership 12/31/21

Hazardous Materials	78
Mechanics	20
Technical Rescue	75
Water Rescue & Recovery	
Dive	102
Sonar	37
Swiftwater	45
Wildland	22
TOTAL 379	

SRT Coordinated Trainings

Hazardous Materials	47
Mechanics	22
Technical Rescue	78
Water Rescue & Recovery	
Dive	36
Sonar	16
Swiftwater	22
Wildland	16
TOTAL 237	

Team Member Training Hours (SRT)**

Hazardous Materials	2,119
Mechanics	270
Technical Rescue	1,764
Water Rescue & Recovery	
Dive	831
Sonar	436
Swiftwater	258
Wildland	363
TOTAL 6,041	

** Please note that these figures only include SRT coordinated training. Team members also complete elective/department training throughout the year within their specialty, which is not reflected here.

HAZARDOUS MATERIALS



Hazardous Materials Team

Responsible for controlling and mitigating hazardous materials incidents, including identification, assessment, containment/confinement and decontamination.

2021 Statistics

Team Members	78
SRT Coordinated Trainings	47
SRT Training Hours.....	2,119

2021 Highlights

Appointed four team members to leadership positions across both MABAS divisions.

Created new, easier to use inventory sheets for HazMat 4 and HazMat 5.

Inventoried and streamlined Decon 4 to make it easier to deploy for training and incidents.



Mechanics Team

Responsible for supporting all other teams during both training and incidents, by ensuring all assets (vehicles and equipment) are operating properly and reliably on a day to day basis.

2021 Statistics

Team Members	20
SRT Coordinated Trainings	22
SRT Training Hours.....	270

2021 Highlights

Modified the exterior of HazMat 4 with new lettering/striping/logos to match the rest of SRT's assets.

Repainted and modified the Division 5 TRT container.



Completed the set-up, take down and cleaning of the Division 4 deployment tent for use at a COVID-19 vaccination clinic in Gurnee.



MECHANICS



Technical Rescue Team

Responsible for managing special rescue situations in the areas of rope rescue, confined space, structural collapse and trench rescue.

2021 Statistics

Team Members	75
SRT Coordinated Trainings	78
SRT Training Hours.....	1,764

2021 Highlights

Replaced the team's rope rescue equipment in both MABAS divisions.

Replaced most of the team's trench shoring equipment to improve safety (single manufacturer).

Appointed a new Trench Discipline Support Leader.



Water Rescue and Recovery Team

Responsible for all incidents involving bodies of water and includes three disciplines: dive, sonar and swiftwater.

Dive

Responsible for the rescue and/or recovery of drowning victims (often also assists with evidence recovery).

2021 Statistics

Team Members	102
SRT Coordinated Trainings	36
SRT Training Hours.....	831

2021 Highlights

Appointed a new Dive Coordinator for MABAS Division 5.

Participated in a large-scale terrorism exercise in Chicago with teams from other MABAS divisions.

Sonar

Responsible for searching bodies of water for victims and/or evidence using both side and sector scan equipment.

2021 Statistics

Team Members	37
SRT Coordinated Trainings	16
SRT Training Hours.....	436

2021 Highlights

Appointed a new Assistant Sonar Coordinator for MABAS Division 5.

Trained 14 new team members in the spring.

Purchased a new computer and two new monitors for the sonar boat.

DIVE



SONAR



Swiftwater

Responsible for incidents involving swift moving or flood water.

2021 Statistics

Team Members	45
SRT Coordinated Trainings	22
SRT Training Hours.....	258

2021 Highlights

Utilized on-line Zoom training to present a review of swiftwater basic skills.

Participated in a large-scale terrorism exercise in Chicago with teams from other MABAS divisions.



WILDLAND



Wildland Task Force

Responsible for mitigating fires in the wildland urban interface, especially forest preserves, heavily wooded areas and/or open spaces.

2021 Statistics

Team Members	22
SRT Coordinated Trainings	16
SRT Training Hours.....	363

2021 Highlights

Responded to the Rockton chemical plant fire to assist in mitigating brush fires.

Placed new equipment into service including two portable pumps and forestry hose packs.



SWIFTWATER



MEMBER AGENCIES

MABAS Division 4

- Abbott Fire Department
- AbbVie Industrial Fire Department
- Antioch Fire Department
- Barrington Fire Department
- Barrington Countryside Fire Protection District
- Beach Park Fire Protection District
- Buffalo Grove Fire Department
- Countryside Fire Protection District
- Deerfield-Bannockburn Fire Protection District
- Fox Lake Fire Protection District
- Grayslake Fire Protection District
- Great Lakes Naval Fire Department
- Greater Round Lake Fire Protection District
- Gurnee Fire Department
- Lake Bluff Fire Department
- Lake Forest Fire Department
- Lake Villa Fire Protection District
- Lake Zurich Fire/Rescue Department
- Libertyville Fire Department
- Lincolnshire-Riverwoods Fire Protection District
- Long Grove Fire Protection District
- Mundelein Fire Department
- Newport Township Fire Protection District
- North Chicago Fire Department
- Pleasant Prairie Fire & Rescue Department (WI)
- Wauconda Fire Protection District
- Waukegan Fire Department
- Wheeling Fire Department
- Winthrop Harbor Fire Department
- Zion Fire & Rescue Department

MABAS Division 5

- Algonquin-Lake in the Hills Fire Protection District
- Cary Fire Protection District
- Crystal Lake Fire Rescue Department
- Fox River Grove Fire Protection District
- Harvard Fire Protection District
- Hebron-Alden-Greenwood Fire Protection District
- Huntley Fire Protection District
- Marengo Fire Protection District
- McHenry Township Fire Protection District
- Nunda Rural Fire Protection District
- Richmond Township Fire Protection District
- Spring Grove Fire Protection District
- Union Fire Protection District
- Wonder Lake Fire Protection District
- Woodstock Fire/Rescue District



MABAS Divisions 4 & 5 SRT

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