



# FIRE DEPARTMENT

---

## MONTHLY INFORMATION REPORT

**April 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 - April 2022 Overview

In April, the Department responded to **359** calls for service, averaged **12** calls per day and required **559 individual vehicle responses** to provide the necessary personnel for each incident.

Forty percent (**40%**) of the service area responses occurred while another call was in progress.

Twenty-two (**22%**) of needs required a response from the non-primary engine, ambulance, or a mutual aid department due to multiple calls in progress.

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.

Pictured right is multiple vehicle accident with entrapment on April 27 that Lake Zurich, Wauconda, Countryside, and Mundelein Fire Departments responded and assisted with.



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

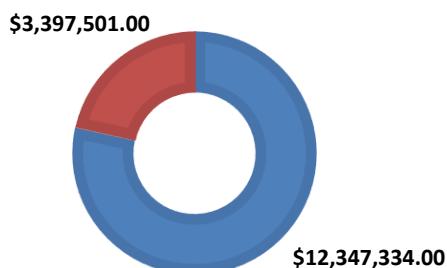


## Administration Division

The department continues to work with the Board of Fire and Police Commission (BOFPC) on screening new hire candidates for the 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 our overtime costs decreasing once we can bring the new hires on board and have them assigned to shift.

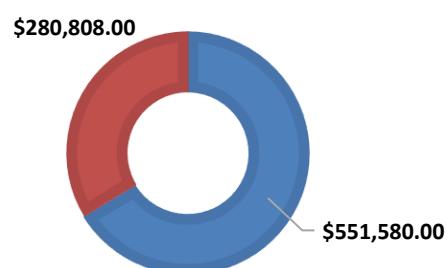
### FIRE DEPARTMENT BUDGET

■ Overall Budget ■ YTD Expenses



### OVERTIME ACCOUNTS

■ Overtime Budget ■ YTD Spent

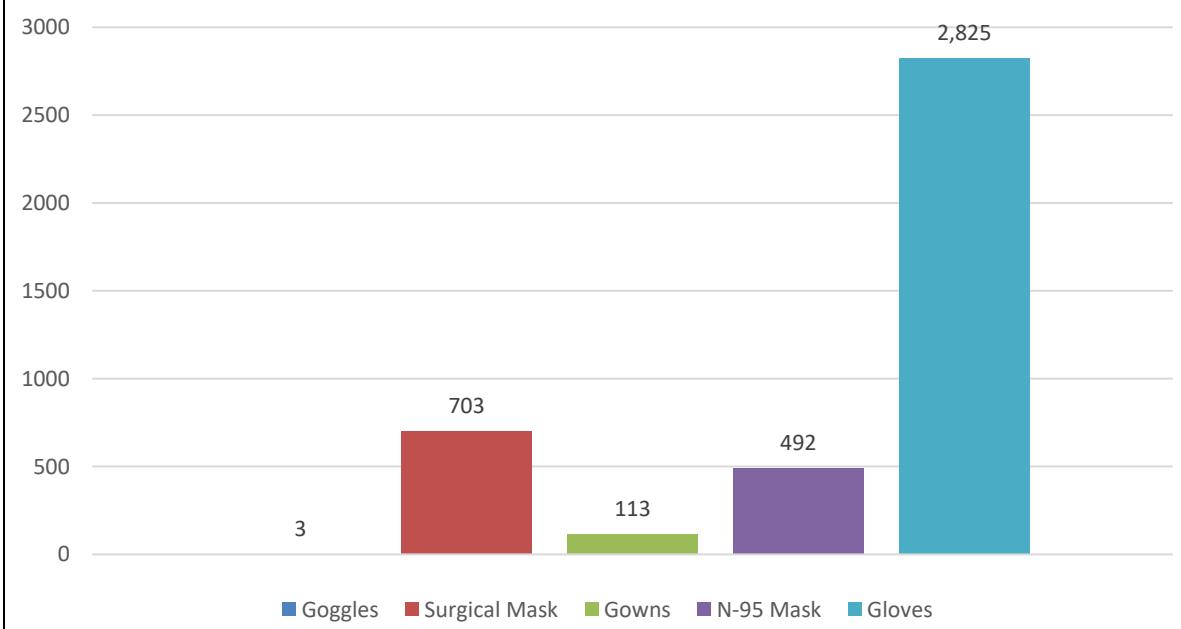


## COVID-19 Updates

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

In April, we issued **0 pairs of safety goggles** and used **92 surgical masks** on patients, **75 - N95 respirators** for our personnel, **5 gowns**, and approximately **434 surgical gloves**. The graph pictured below shows the year-to-date (2022).

PPE Utilized & Disposed 2022



## Our Personnel



Congratulations to Firefighter/Paramedic Brian Stodola on his Structural Collapse Technician and Rope Technician certifications. (Pictured left)

Congratulations to Firefighter/Paramedic Jeremiah Johnson on his Structural Collapse Tech certification. (Pictured right)



## 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.

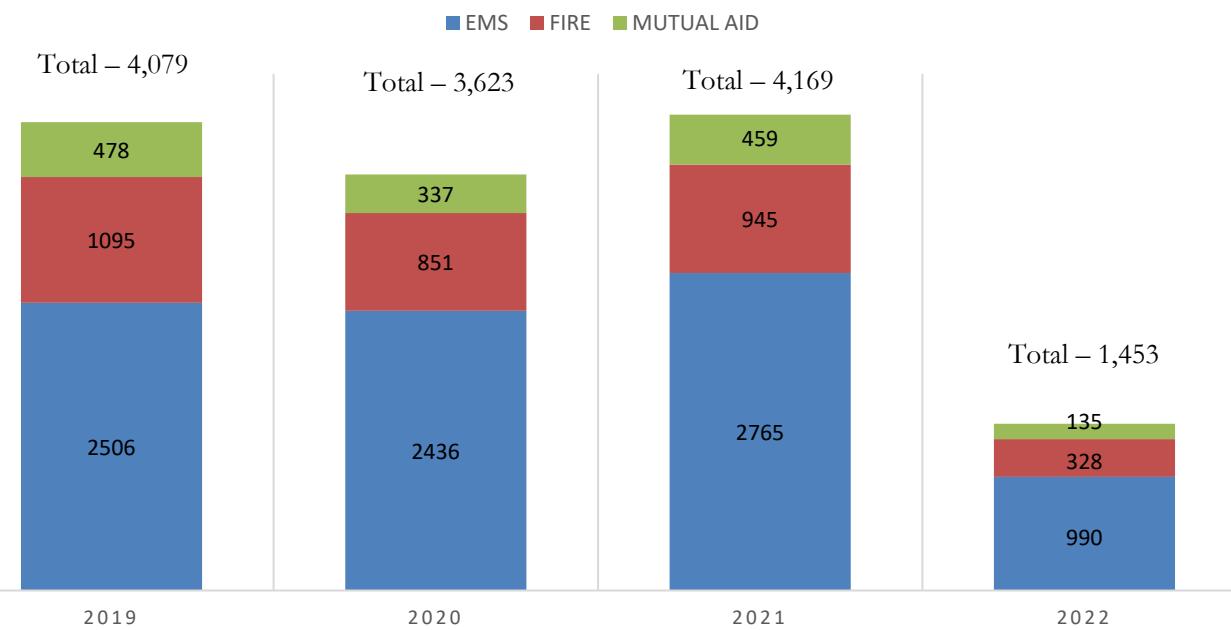
# Operations Division

## Vehicles Out of Service

- During April, the following vehicles were out of service due to maintenance, repairs, or breakdowns:
  - Ambulances – 15 hours
  - Engines – 432.25 hours
  - Year-To-Date Hours:

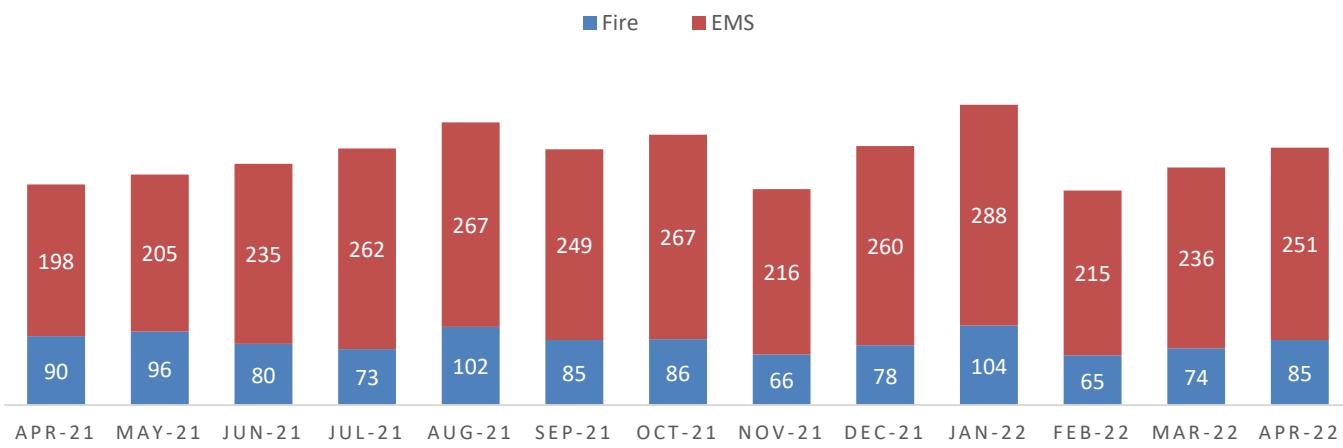
Ambulances: **88.25 hours** | Engines: **996.08 hours**

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



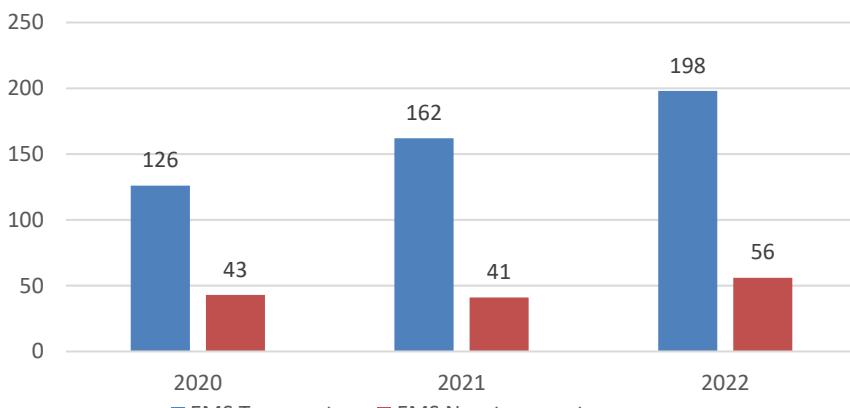
Below is the breakdown of Fire versus EMS incidents in Lake Zurich – minus aid given. Our fire calls include structure fires, car fires, grass fires, dumpster fires, wires down, and other types of service calls.

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



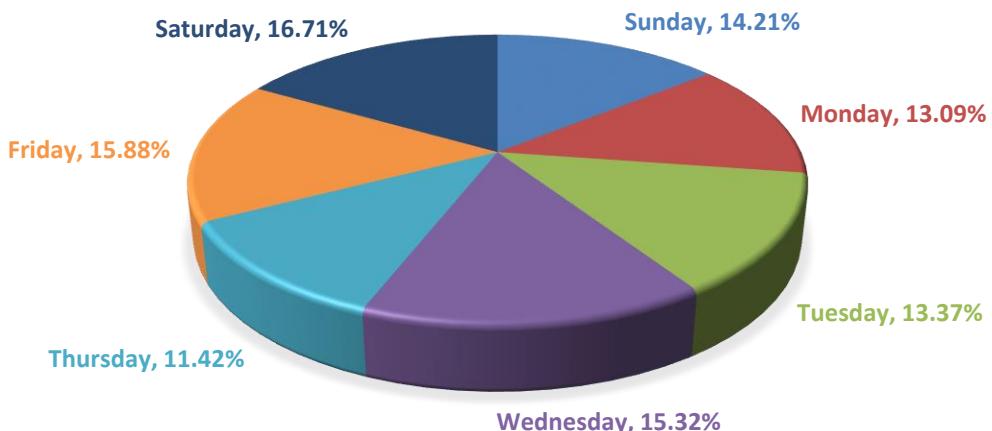
The following chart reflects activity related to emergency medical services, a core function of the fire department — not every EMS call results in transport. A prime example of this is an automobile accident where several victims refuse transport. EMS transports always outpace refusals. This chart compares the month of April 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**

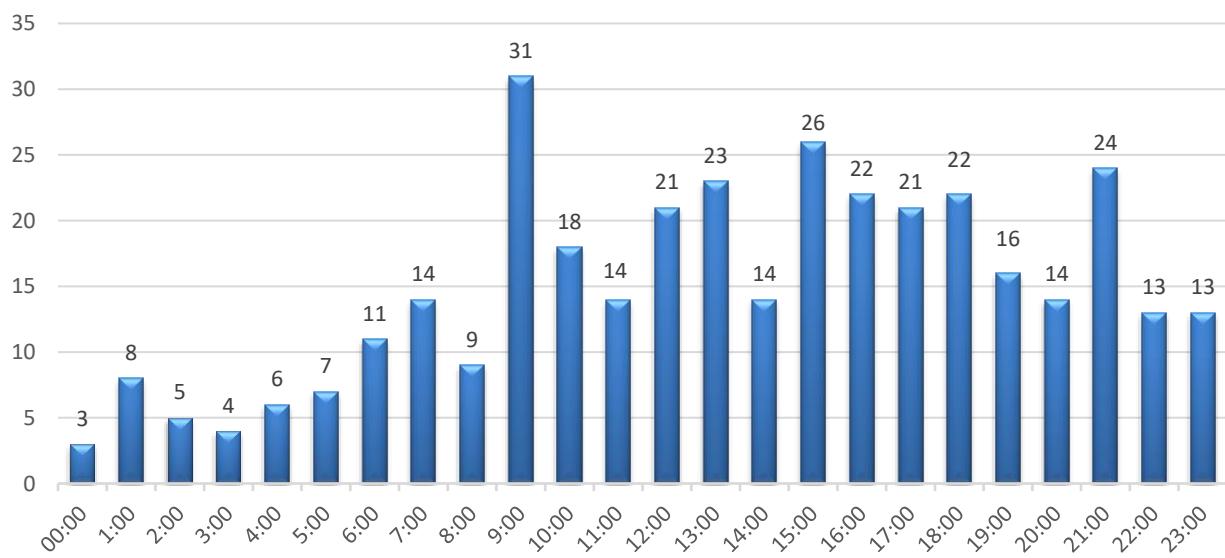


The following two charts break down calls by the day-of-week and hour-of-day.

**RESPONSE BY DAY OF WEEK - APRIL**



**RESPONSE BY HOUR OF DAY - APRIL**



**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**

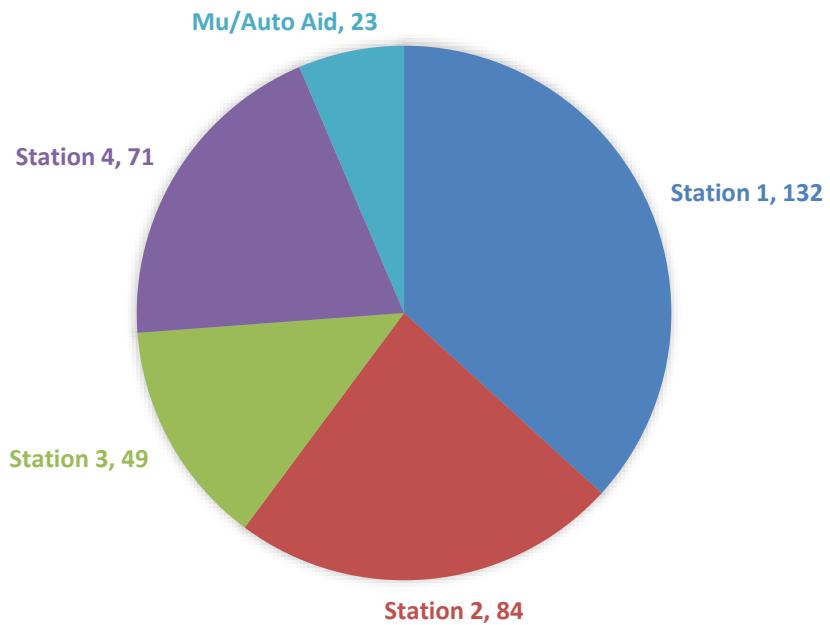
ENGINE 324

AMBULANCE 324



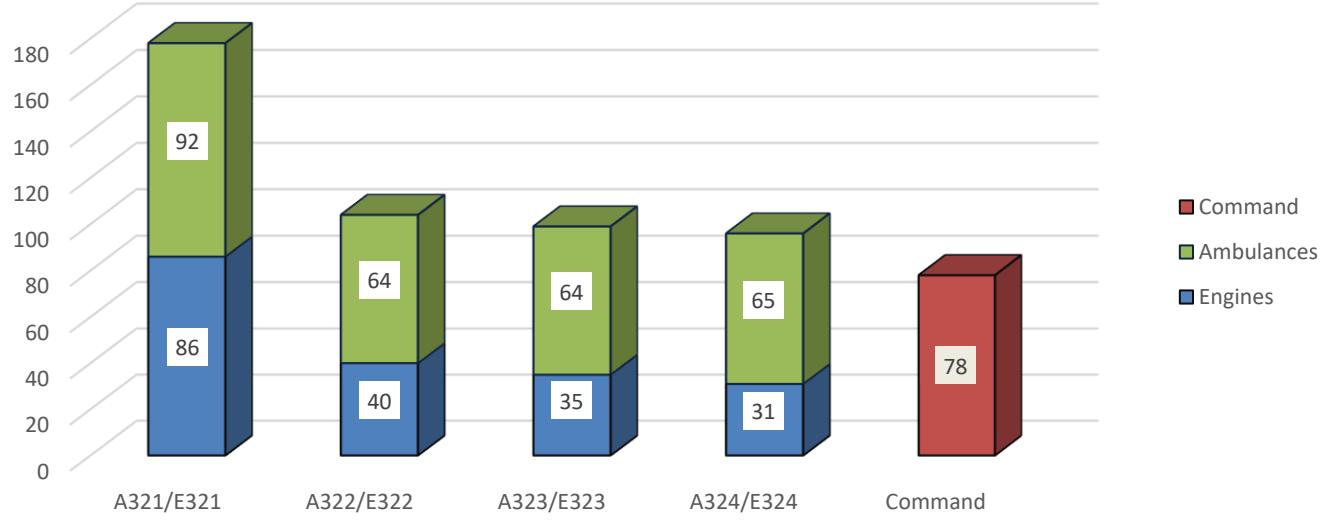
The graph below represents the percentage of calls by each station and mutual/auto aid for April 2022. The chart does **not** represent the station that responded as the primary resource to the area – it means where the call originated. Station 1 is historically the busiest district.

### ORIGIN OF CALLS - APRIL, 2022

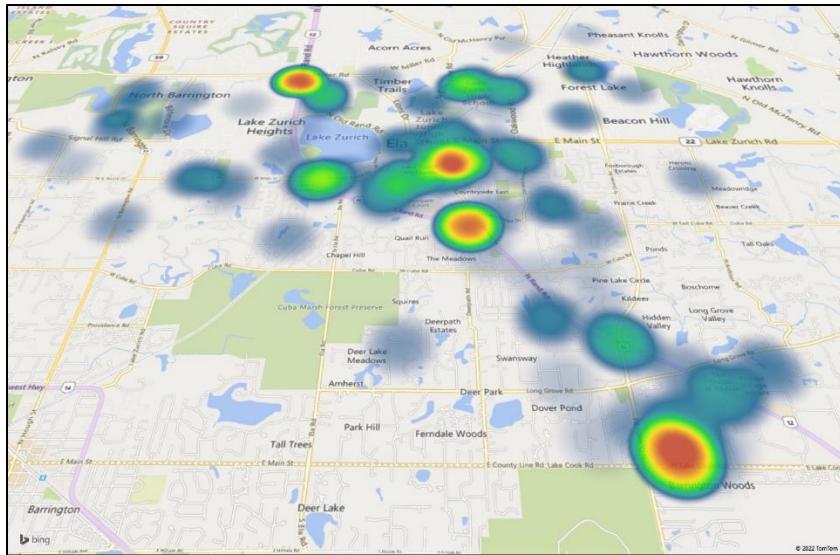


The graph below shows the responses by each unit – Ambulances, Engines, and Command Officer – in April

### Total Unit Responses - Ambulances, Engines, & Command Officer



The following graphic is a visual representation of call distribution for April. 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.



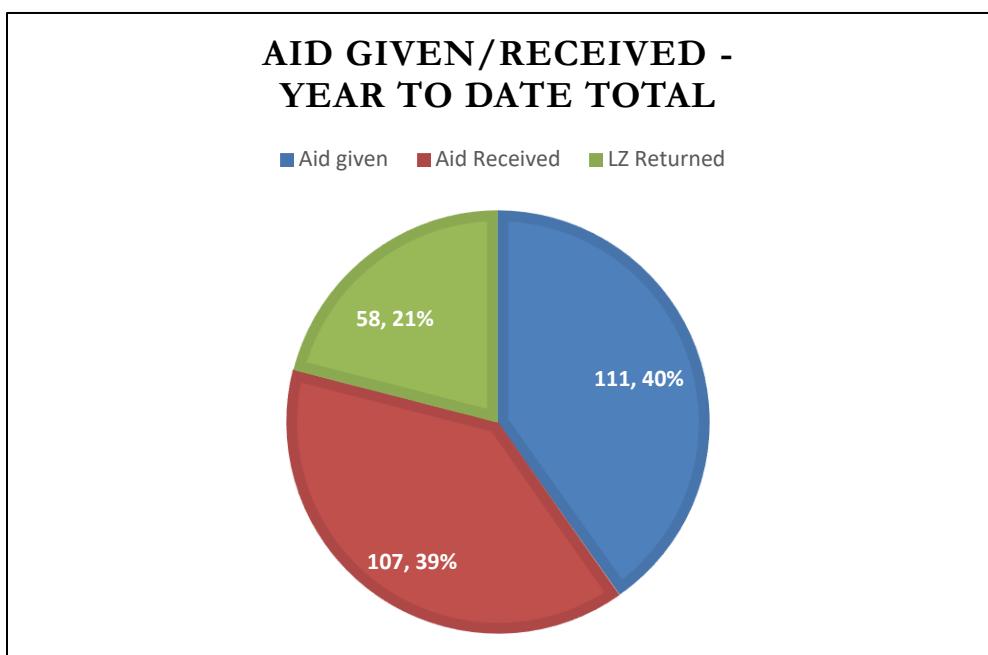
#### Frequent Call Locations:

- 21840 Lake Cook Road – Deer Park Village Senior Living – 26 responses
- 795 N. Rand Road – Azpira Place of Lake Zurich – 22 responses
- 900 S. Rand Road – Avantara Health Care Center of Lake Zurich – 19 responses
- 777 Church Street - Cedar Lake Assistant Living - 9 Responses

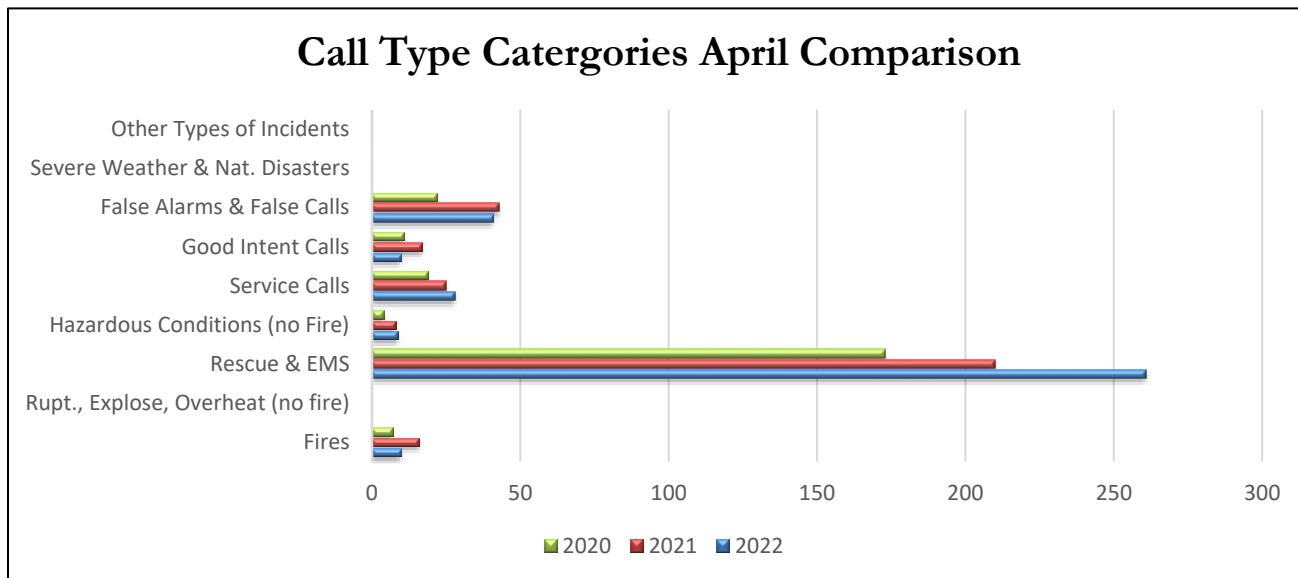
#### Mutual/Auto Aid Response Year to Date –

The mutual aid agreements are designed not to overburden any one agency and are looked at carefully for any necessary adjustments. Run cards for the Department have changed, and our partners respond to assist us more often. In April, we responded to **23 mutual aid calls and returned 7 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

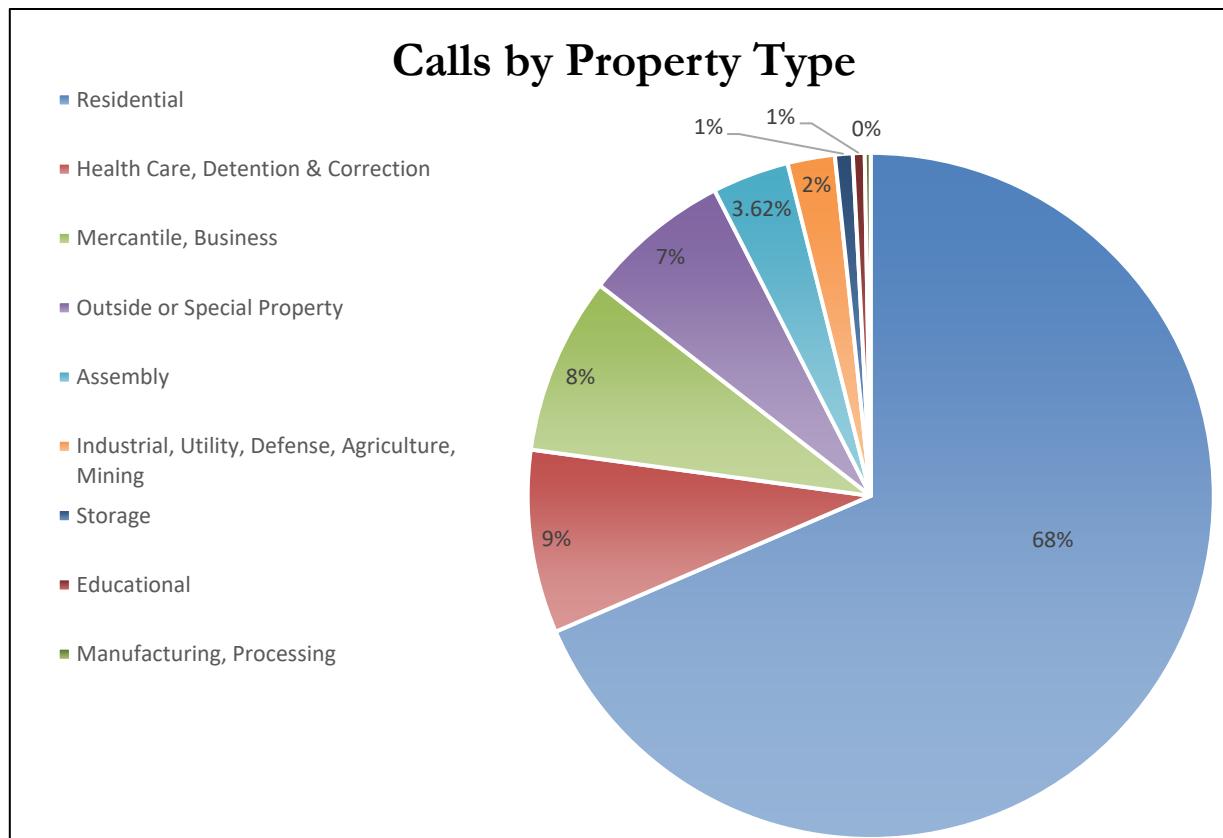
intervention from the LZPD 911 center through automated dispatching and resource sharing. They are entirely handled by the agency requesting our response — direct cost savings to our budget and an added benefit of the automated dispatch system.



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. Rescue and EMS incidents account for most calls we respond to and continue to increase, as indicated below.

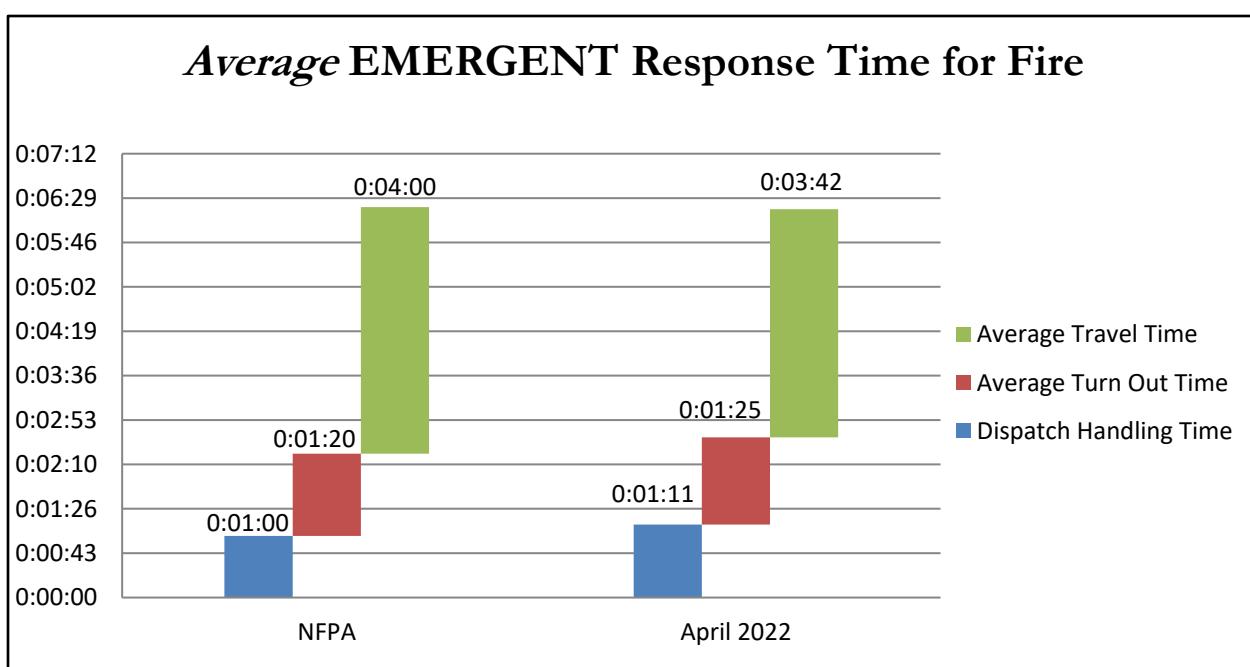
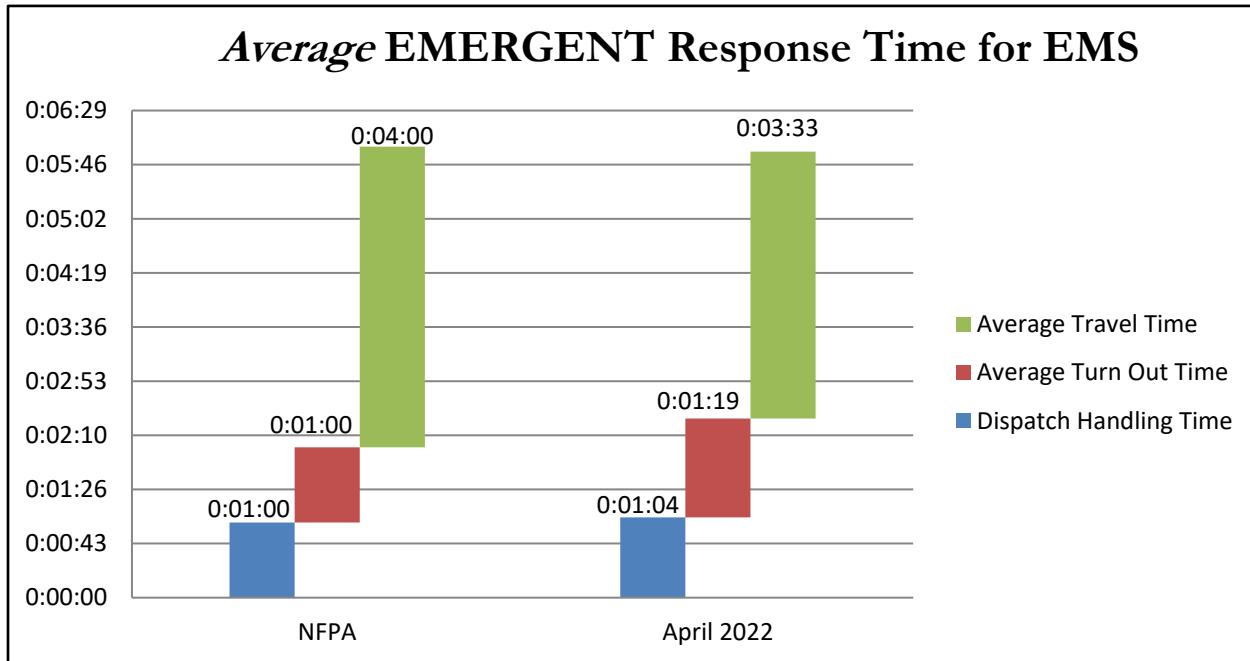


As previously mentioned, there is a national standard for coding the type of property use. How is this relevant? We see trends in various occupancies and use them to determine our service demand. For example, the healthcare category would increase if additional assisted living or nursing homes were open. As shown below, we continue to respond to Residential Properties more than any other (68%) and Health Care/Detention was 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 both Fire and EMS calls within our first arriving unit's primary response area. These times will vary based in part 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 April, we completed the following shift training:

**Officer Training** – Members completed officer training using simulation to reinforce tactics, strategies and terminology.

**SCBA/RIT** – Members completed a downed firefighter rescue using different technics to overcome obstacles and avoid hazards.

**Quarterly Intubations** – Paramedics completed the NCH required quarterly intubation skills lab.

**EMS Continued Education** – Paramedics completed EMS training on Legal & Ethical Challenges.

**Lockout/Tagout** – Crews completed required training on lockout/tagout equipment and procedures.

**Dry Hydrant Testing** – Crews flow tested dry hydrants and preplanned the hydrants for setting up an effective water supply.

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

**Weekly Equipment Review** – On a weekly bases crews review department equipment and ensure they can operate it properly and effectively.

**Probationary Program** - Probationary members worked on completing Probationary Program.

Members that participated in the promotional exam were given an opportunity to review with Chief Falese what they did well on during the assessment center and how they could improve in the future.

The following members attended outside training.

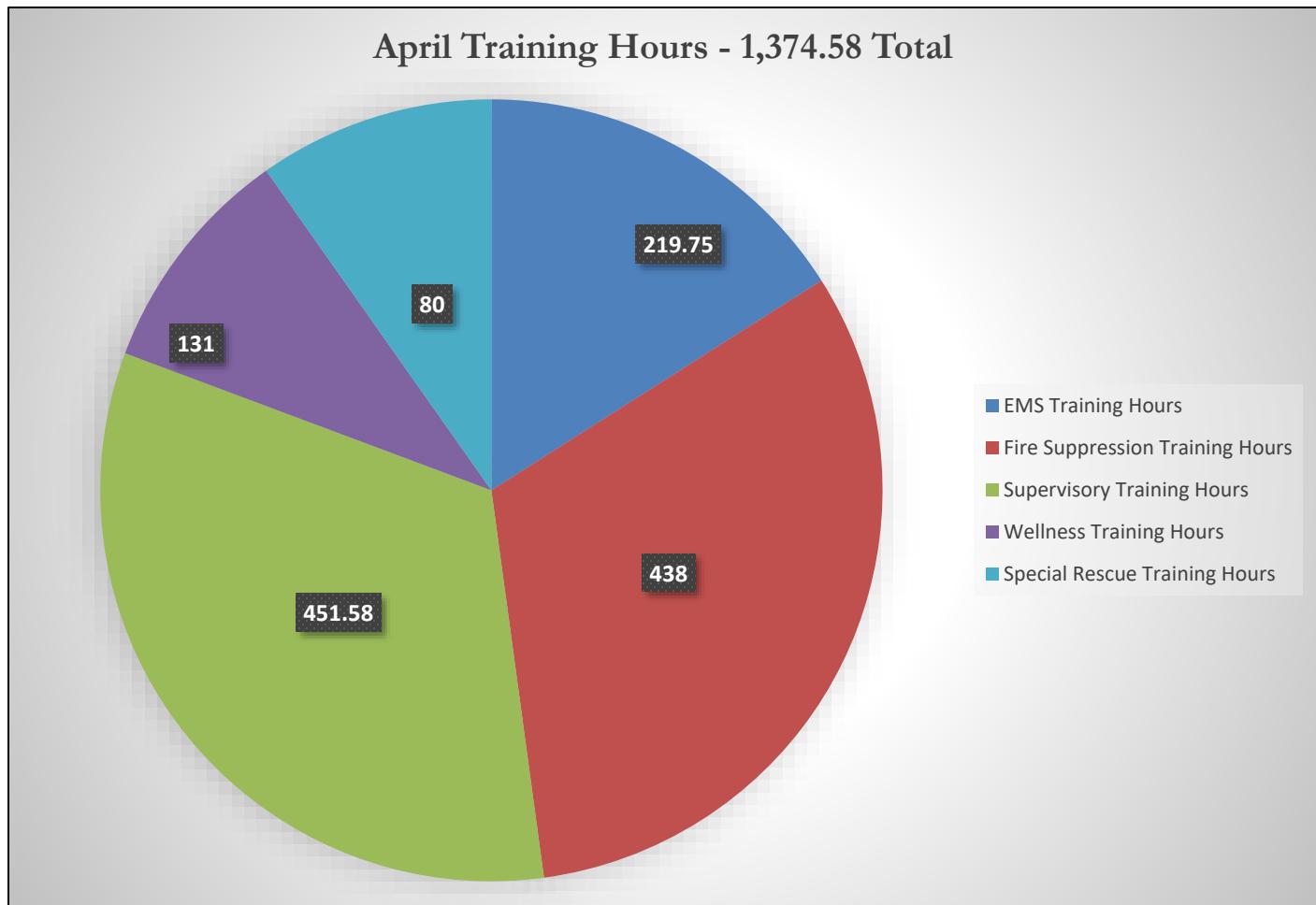
**Captain Kammin** – Completed the 16.5 hour Managing Disciplinary Challenges in the Fire Service course.

**Deputy Chief Christopherson** – Completed the 40 hour NIMS G-2300 course.

**Lieutenant Wascow** – Attended the 4 day ESO Conference.

**Captain Yee, Lieutenant Booth & Firefighter/Paramedic Tanner** – Attended the 5 day Fire Department Instructors Conference

**Firefighter/Paramedic Hall** – Completed 40 hours of the 120 hour OSFM Fire Investigation course



## Fire Prevention Bureau Division

In this month's Fire Prevention report, two pictures from recent events are shown.



The first picture (left) is from a new home in Avery Ridge. A basement fire was contained because the residential sprinkler system activated. As you can see, because of this this, the damage was slight and our final inspections were on time.

The next picture (right) is from the new Higher Ground Preschool in Kildeer. This shot shows why fire protection is so important to not only the occupants, but also to the responding crews. The buildings of today are large lumber yards. You only need a small fire to damage one truss plate and this entire attic can collapse into the occupied space.



## APRIL 2022 ACTIVITIES

- NIFIA board and general meeting
- 2018 Code Update meeting with Lake County Building
- 1 Day Sprinkler Review class – 8 Hours
- Construction Meetings
  - Lifetime
  - Cooper's Hawk
  - Vault 232
  - Casey's
  - Honey Lake Road Townhomes
  - Ace Hardware
  - 444 S. Rand Pre-Lim
  - American Legion

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

