



FIRE DEPARTMENT

MONTHLY INFORMATION REPORT

June 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 - June 2022 Overview

In June, the Department responded to **402** calls for service, averaged **13** calls per day and required **659 individual vehicle responses** to provide the necessary personnel for each incident.

Forty-eight (**48%**) percent of the service area responses occurred while another call was in progress. Twenty-six (**26%**) 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**

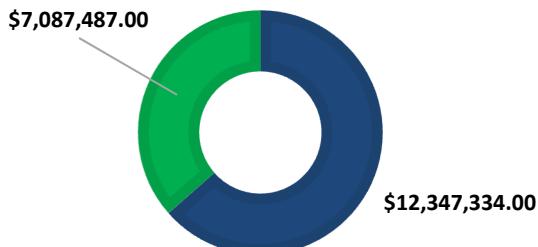


Administration Division

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.

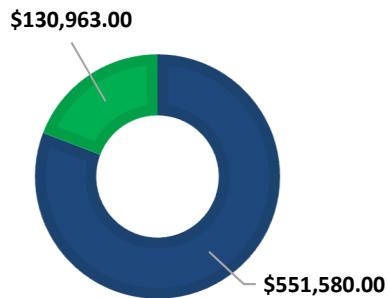
FIRE DEPARTMENT BUDGET

■ Overall Budget ■ YTD Budget Remaining



OVERTIME ACCOUNTS

■ Overtime Budget ■ YTD Dollars Remaining



Fire Engine
Ride to
School!
(pictured right)



Thank you for the Girl Scout Treats! (pictured above)

Joint Pub-Ed event with Long Grove Firefighters.
(pictured left)

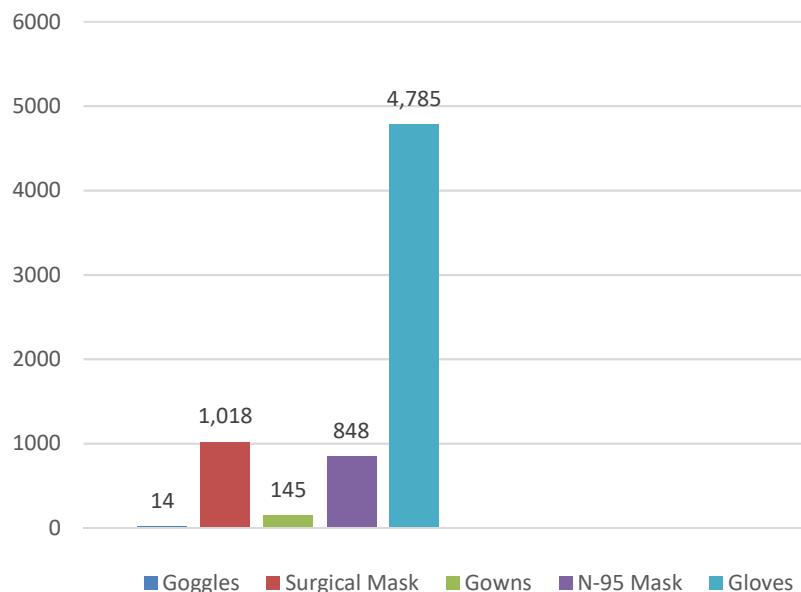
COVID-19 Updates

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

In June, we issued **6 pairs of safety goggles** and used **150 surgical masks** on patients, **197 - N95 respirators** for our personnel, **17 gowns**, and approximately **1011 surgical gloves**.

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

PPE Utilized & Disposed 2022



Our Personnel



We welcomed our newest Firefighter/Paramedic Joel Fishman to the Department on June 6, 2022.



Congratulations to
Firefighter/Paramedic Jeff Hall on
his Fire Investigator Certificate!

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 right is a CPR class with Lake Zurich Parks and Recreation staff.



Our three probationary members, FF/PMs Joel Fishman, Anthony Kinsley, and Dan Frano completed a live burn training this month. (Pictured left)

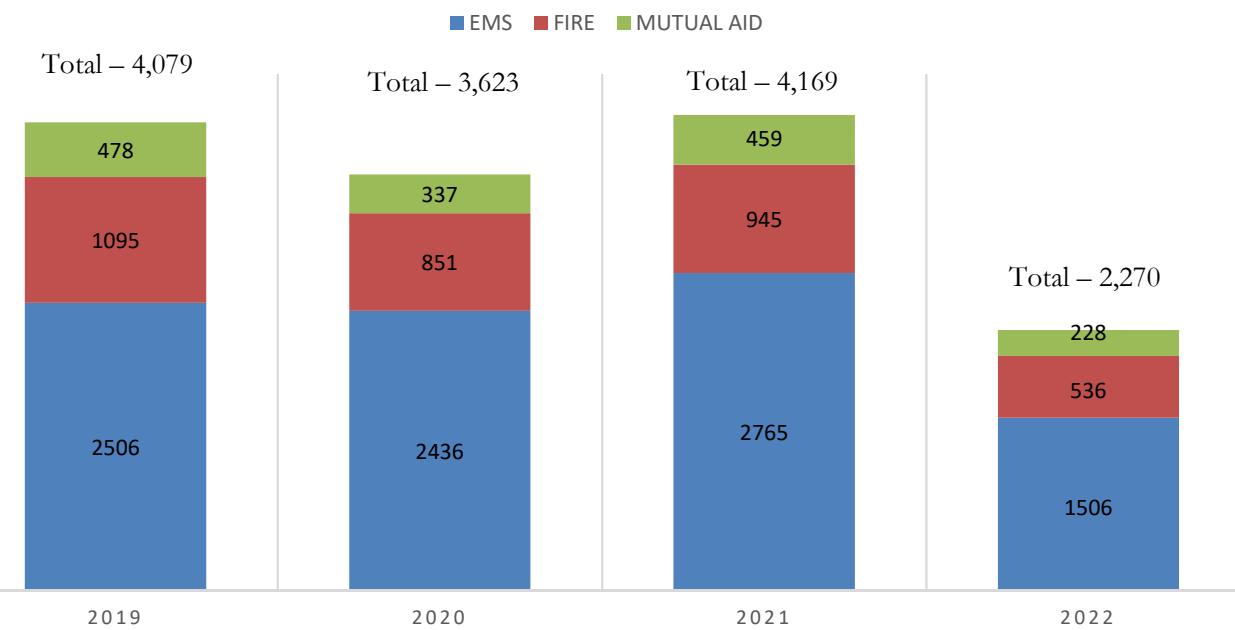
Operations Division

Vehicles Out of Service

- During June, the following vehicles were out of service due to maintenance, repairs, or breakdowns:
 - Ambulances – 524 hours
 - Engines – 3.50 hours
 - Year-To-Date Hours:

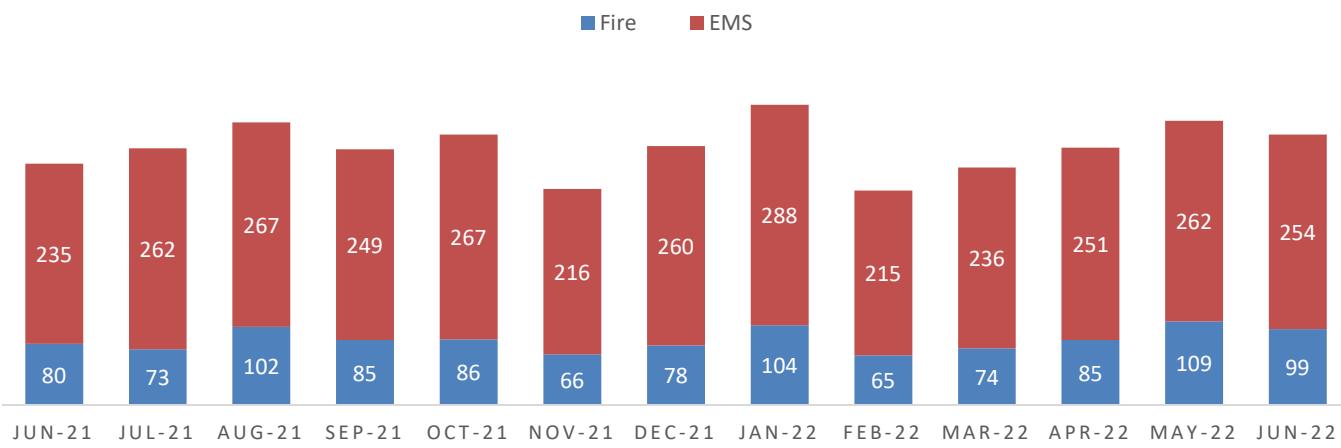
Ambulances: **683.18 hours** | Engines: **1,020.08 hours**

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



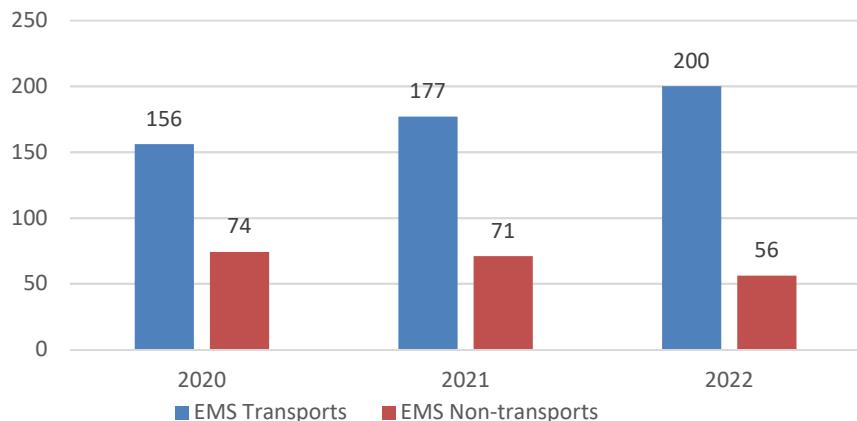
Below is the breakdown of Fire versus EMS incidents in Lake Zurich – minus aid given. Our fire calls include structure fires, car fires, grass fires, dumpster fires, wires down, and other types of service calls.

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



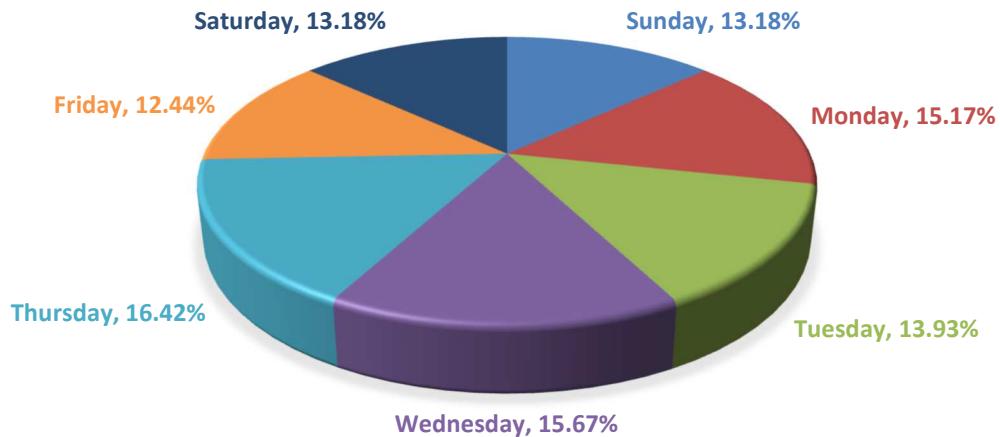
The following chart reflects activity related to emergency medical services, a core function of the fire department — not every EMS call results in transport. A prime example of this is an automobile accident where several victims refuse transport. EMS transports always outpace refusals. This chart compares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

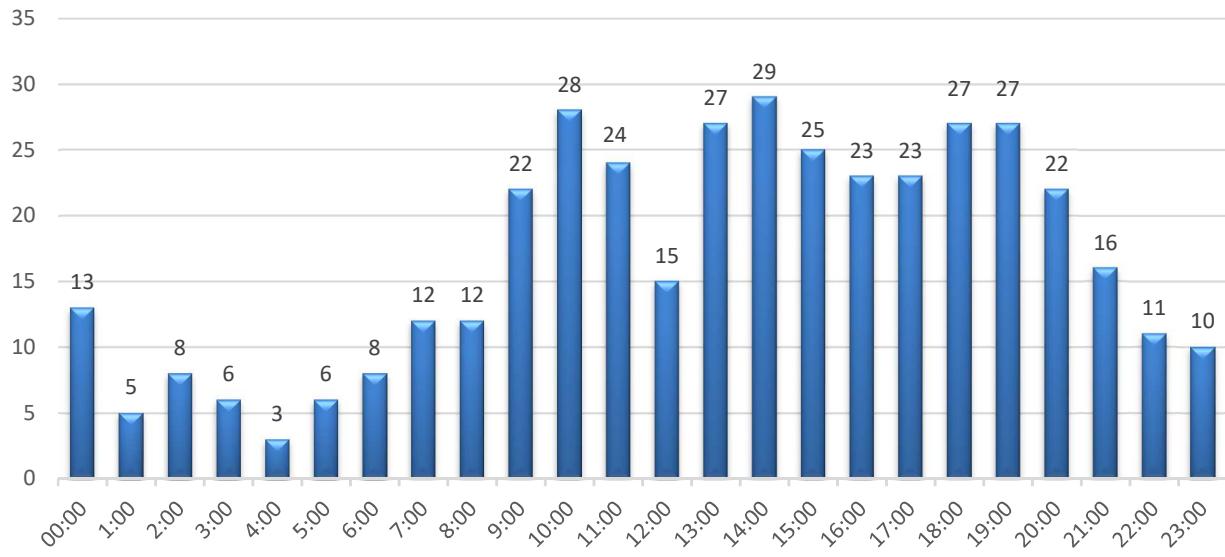


The following two charts break down calls by the day of the week and hour of the day.

RESPONSE BY DAY OF WEEK - JUNE



RESPONSE BY HOUR OF DAY - JUNE



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

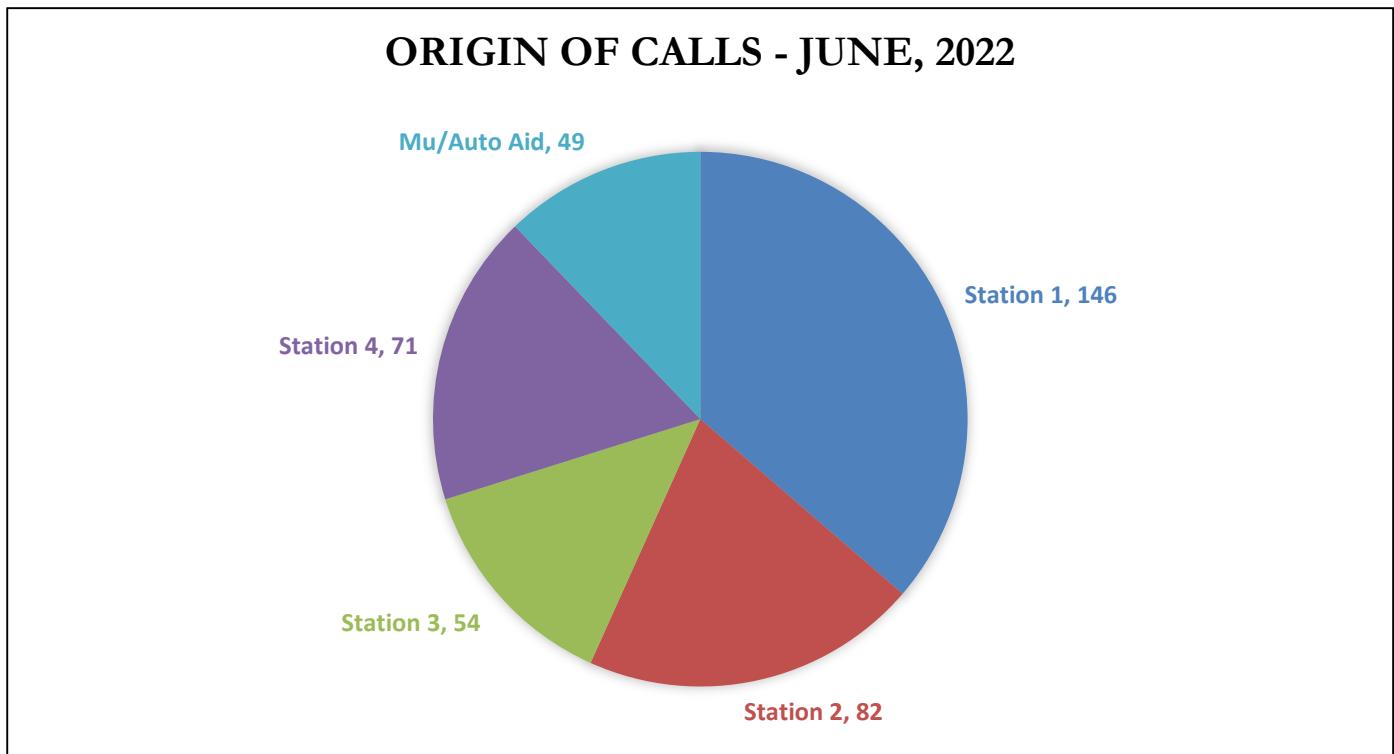
21970 Field Pkwy
Deer Park, IL 60010

APPARATUS & STAFFING

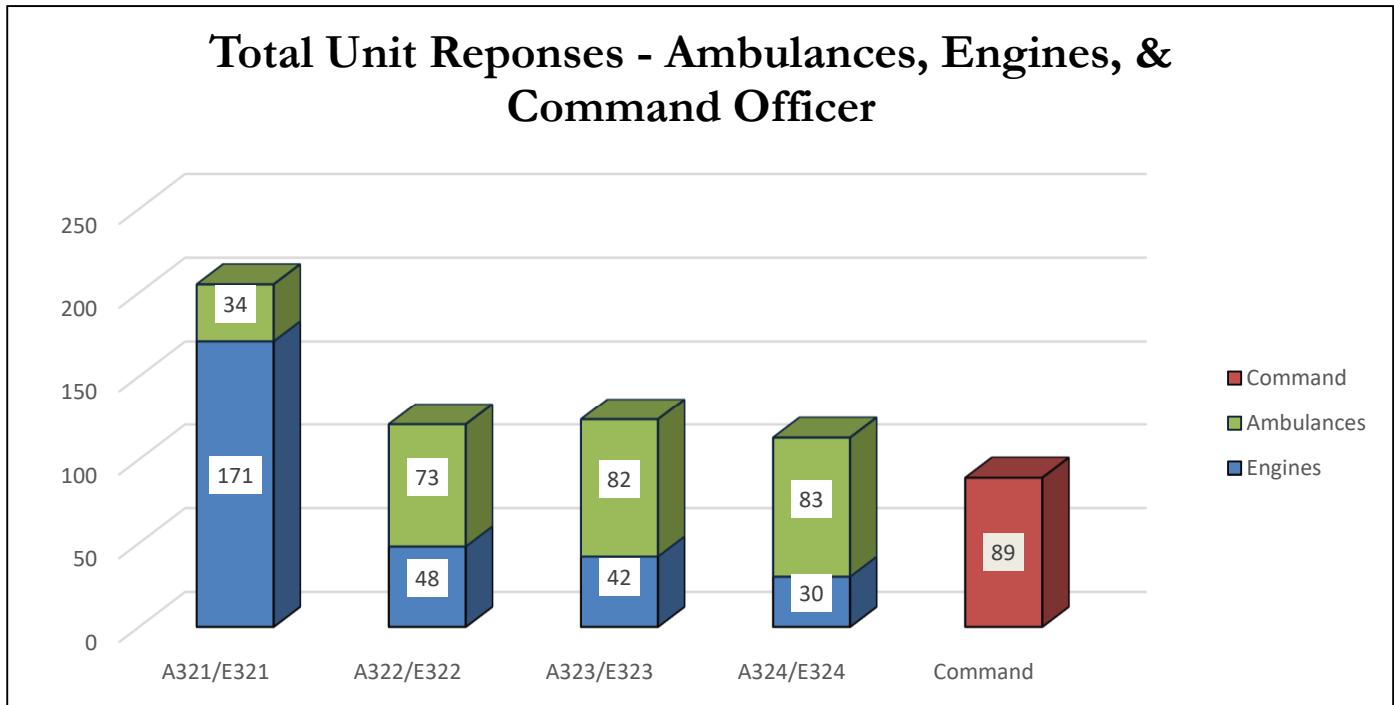
ENGINE 324
AMBULANCE 324



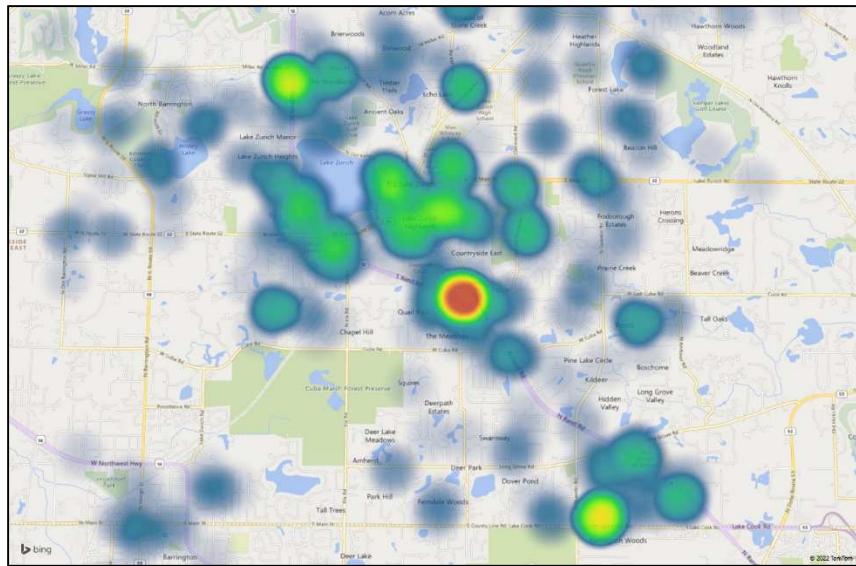
The graph below represents the percentage of calls by each station and mutual/auto aid for June 2022. The chart does **not** represent the station that responded as the primary resource to the area – it means where the call originated. Station 1 is historically the busiest district.



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



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

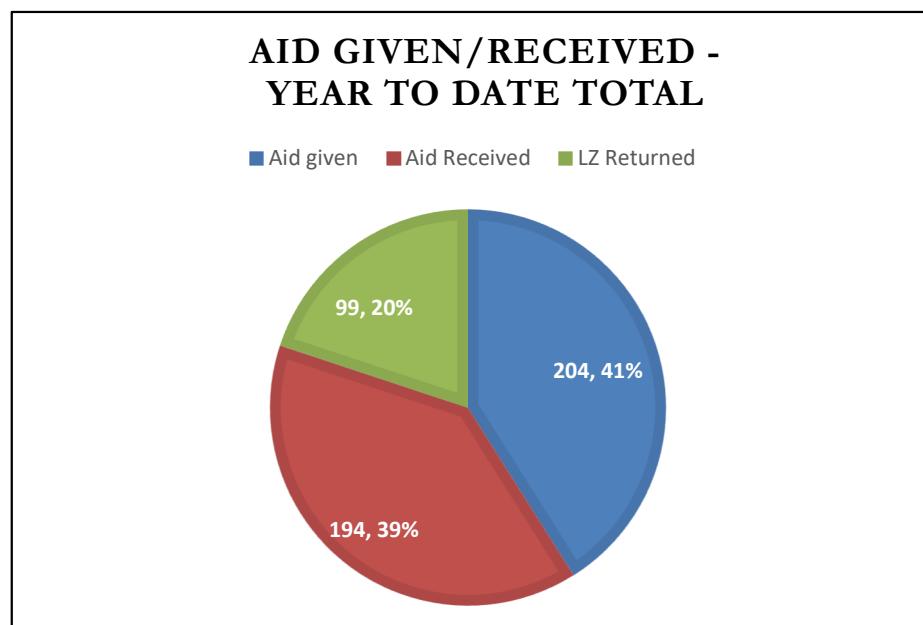


Frequent Call Locations:

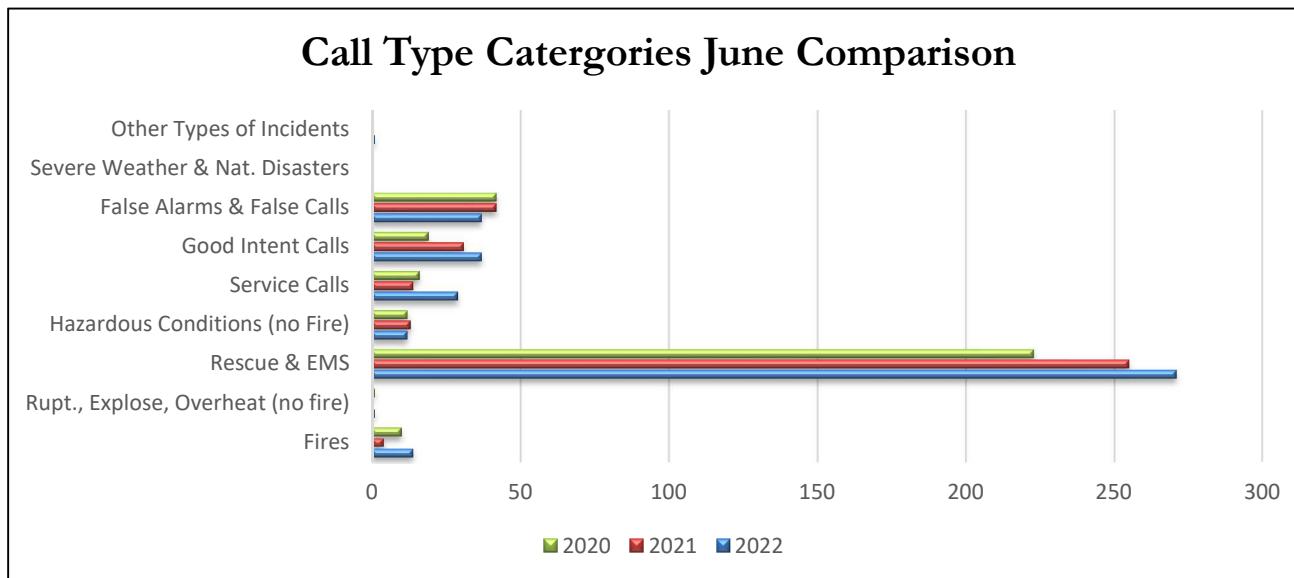
- 900 S. Rand Road – Avantara Health Care Center of Lake Zurich – 24 responses
- 21840 Lake Cook Road – Deer Park Village Senior Living – 19 responses
- 795 N. Rand Road – Azpira Place of Lake Zurich – 16 responses
- 777 Church Street - Cedar Lake Assistant Living - 9 Responses
- 21481 Rand Road – Northwest Community Healthcare – 4 responses

Mutual/Auto Aid Response Year to Date –

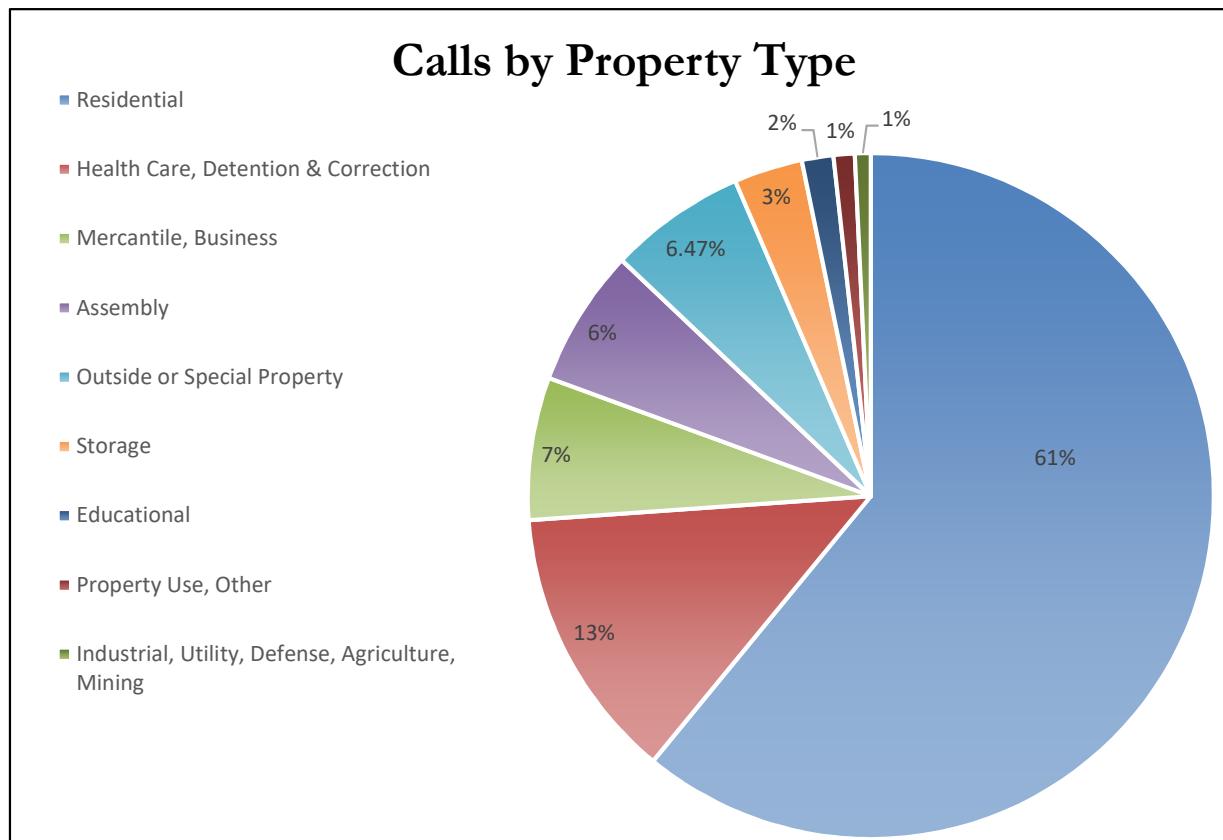
The mutual aid agreements are designed not to overburden any agency and are looked at carefully for necessary adjustments. Run cards for the Department have changed, and our partners respond to assist us more often. In June, we responded to **49 mutual aid calls and returned 25 times** before arrival. 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.

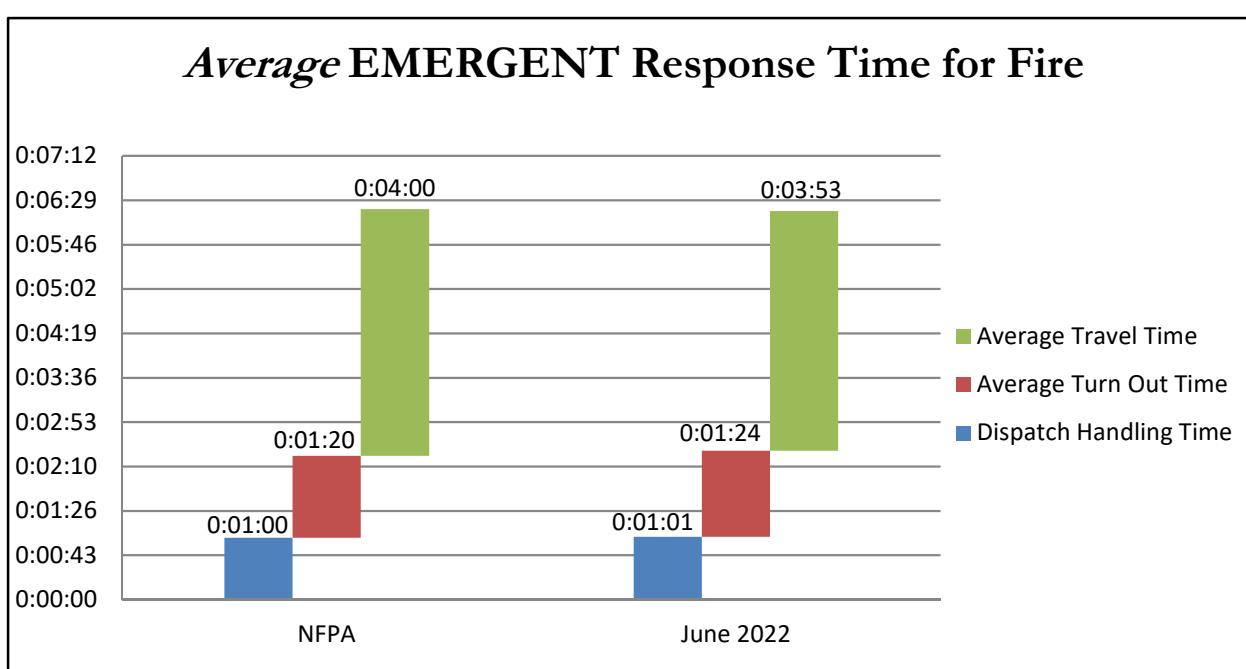
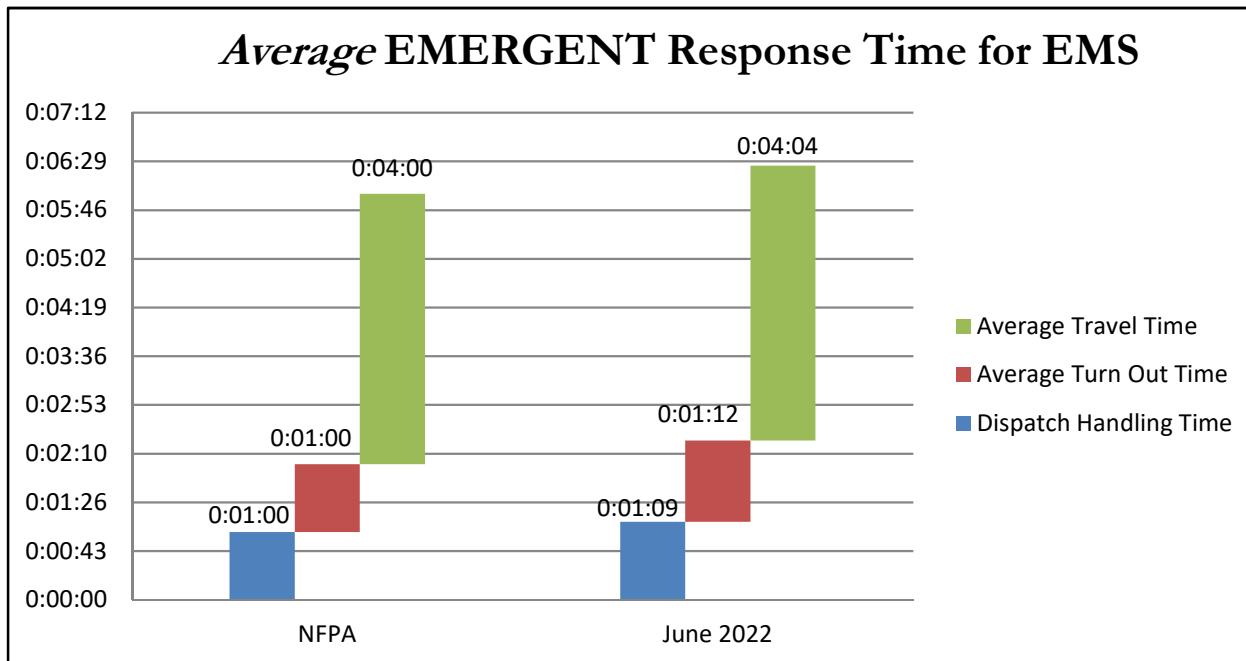


As previously mentioned, there is a national standard for coding the type of property use. How is this relevant? We see trends in various occupancies and use them to determine our service demand. For example, the healthcare category would increase if additional assisted living or nursing homes were open. As shown below, we continue to respond to Residential Properties more than any other (61%), and Health Care were second with (13%) 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 June, we completed the following shift training:

New Hire Orientation – Joel Fishman successfully completed the 2 week Orientation which concluded with a live fire training day at Wauconda's training facility and was assigned to Black Shift.

Hose Advancement – Firefighters practiced advancing a hose line through a course while flowing water.

Genesis Extrication Tool Overview – Crews reviewed the operation of our new Genesis Extrication tools.

Water Supply – Crews trained on obtaining a water supply to the engine while flowing large volumes of water, before the engine ran out of tank water.



Echo Solar Panels – Crews reviewed the new solar panels at Echo and reviewed safe shut down procedures during an emergency.

Hazmat Operations – Crews reviewed hazmat science and completed a practical drill with the Lake County Haz-Mat team involving a tanker truck leaking an unknown chemical.

Dive Support – Crews completed training on supporting dive operations followed by a practical session on Lake Zurich.

Mandated Reporter – Paramedics completed the mandatory Department of Children and Family Services (DCFS) mandated reporter training. This training outlines the types of situations that paramedics are required to report to DCFS.

Fire Scene Search – Crews reviewed the proper search procedures and which locations are probable areas expected to find victims.

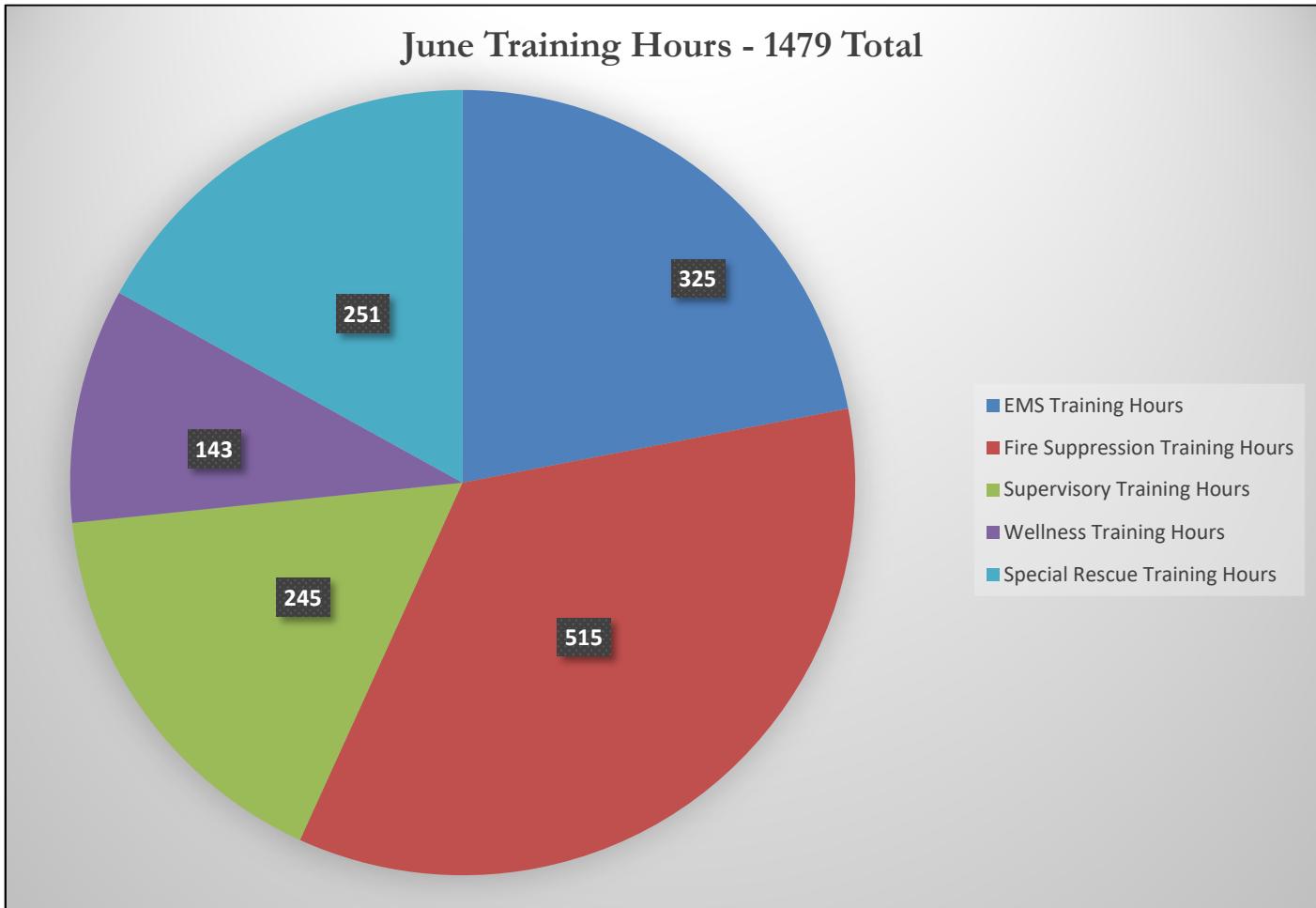
The following members attended Outside Training:

FF. Spata - Completed the 24 hour Engine Company Operations class.

D/C Christopherson - Completed the 24 hour FSLA class.

FF. Frano and FF. Kinsley - Completed the 4 hour Traffic Incident Management – Blocking class.

Lt. Stapleton - Completed the 40 hour Company Officer Academy.



Fire Prevention Bureau Division

The month of June was extremely busy for the Fire Prevention Bureau. Specialist Kleinheinz attended a 3-Day Fire Investigation Conference in Stevens Point, WI.

The month was one of our highest months for Plan Reviews. We received 37 Reviews and spent over 50 hours on the Review process.

The Fire Prevention Bureau was notified by Public Works of a water main break under Jewel Foods on West Route 22. Nearly 2 days was spent working with property managers and village staff to insure a safe site and to return water service as quickly as possible to the occupants.

June is also our preparation month for numerous fireworks shows. The Fire Department and the Fire Prevention Bureau provide permits and site safety for 4 shows during June and July. The shows take long hours of meetings, permits and set up before ever being shot.

JUNE 2022 ACTIVITIES

- Construction Meetings
 - Lifetime
 - Sanctuary
 - Village of Deer Park/Deer Park Mall

- Dunkin Donuts of Deer Park
- Fireworks site meetings
- Weekly food truck inspections
- Casey's
- Gere Marie on new buildings
- Higher Ground Kildeer

