



FIRE DEPARTMENT

MONTHLY INFORMATION REPORT

June 2021

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 2021 Overview

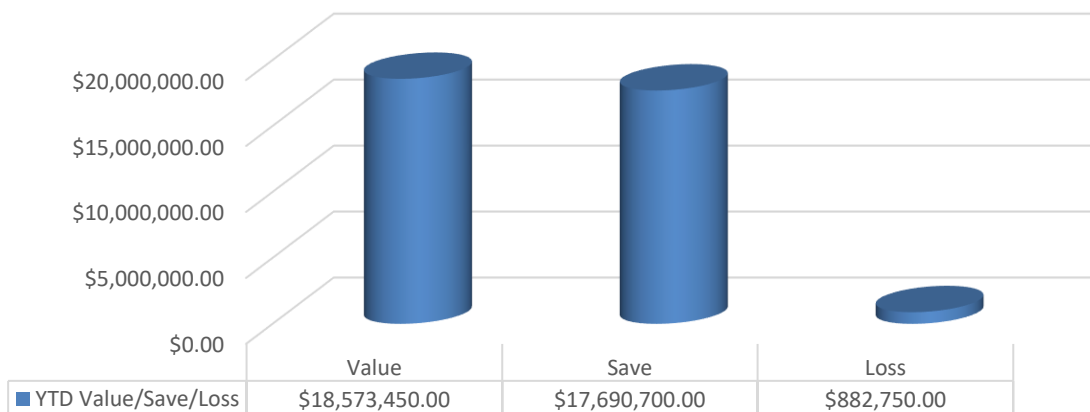
The Department responded to **359 calls** for service in June, which averaged **12 calls** per day and required **531 individual vehicle responses** to provide the necessary personnel for each incident.

Forty-two percent (**42%**) of the responses occurred while another call was in progress. Twenty-one percent (**21%**) 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.



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



Lake Zurich Significant Calls



Due to the heavy volume of fire, smoke, and sagging floor, the command decision was made to evacuate the building and extinguish the fire from an exterior position. The incident commander activated a Mutual Aid Box Alarm to bring additional resources to the scene. Extinguishment occurred using three hose lines and multiple support companies. The preliminary fire investigation determined the fire started in the exterior area of the home under the outside deck. The home sustained fire, smoke, and water damage estimated at \$400,000 to the house and \$200,000 in contents. There were no reports of any civilian injuries. Two firefighters were transported to Good Shepherd Hospital for medical evaluation.

Residential Structure Fire – 100 Block Miller Road

The Lake Zurich Fire Department responded to a residential structure fire in the block of 100 Miller Road on June 14, 2021. Fire department units responded and arrived on the scene and found heavy smoke coming from the eaves of the building and ensured all occupants were accounted for with the homeowner. During the initial 360° walk-around of the home, crews discovered heavy fire coming from the rear of the house at the main and basement levels. The forces deployed a hose line to the base of the fire and attempted to enter the structure.



Mutual/Auto Aid Significant Fire Calls



Chemical Explosion Fire - Rockton, Illinois -

Lake Zurich Fire Department sent an engine as a part of the Lake County MABAS Division 4 Strike Team that responded to the chemical explosion fire in Rockton, Illinois, on June 14, 2021.

Pictured right are the crew members that worked all through the night pumping water – FF/PMs Spencer Cornell, Kevin Michehl, and Chris Hedquist.



Member Spotlights



Congratulations to Lieutenant Brian Blaauw & FF/PM Jeremy Holden on 20 years of service with LZFD.

(Pictured left)

Congratulations to FF/PM Gilberto Villa on his Fire Service Operator certification. *(Pictured above)*

Congratulations to FF/PM Mike Griffiths on 20 years with LZFD, Lieutenant Dave Reid on 15 years with LZFD, and FF/PM Pete Penkava on 5 years with LZFD as well as obtaining his Fire Service Instructor I, Hazardous Materials Technician, and Hazardous Materials Incident Command certifications.

(Pictured right)



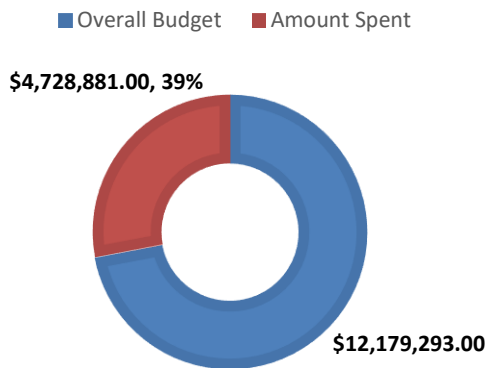
LZFD crews saved Mr. Jim Witt's life 25 years ago and he stopped by to say thank you. Mr. Witt is LZPD Sergeant Randy Witt's father.

(Pictured left)

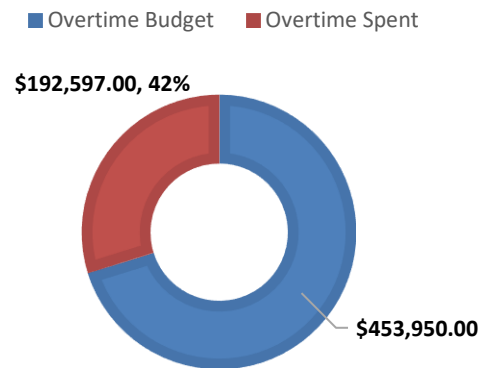
Administration Division

Budget Update

FIRE DEPARTMENT BUDGET



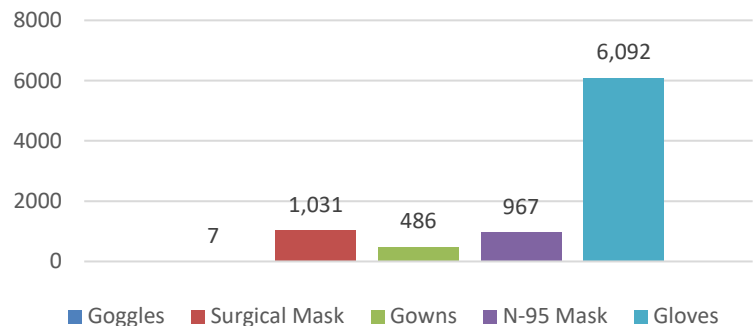
OVERTIME ACCOUNTS



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 June, we issued 5 pairs of safety goggles and used 198 surgical masks on patients, 167 - N95 respirators for our personnel, 3 gowns, and approximately 962 surgical gloves. The graph pictured right shows year-to-date.

PPE Utilized & Disposed 2021



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. *Pictured right is a presentation during "Safety Town" at Buffalo Creek Preschool.* 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, such as the *class for the Park and Recreation summer camp counselors pictured left.* So far in 2021, we have attended about **23 events** and interacted with approximately **6,712 people** in public education.

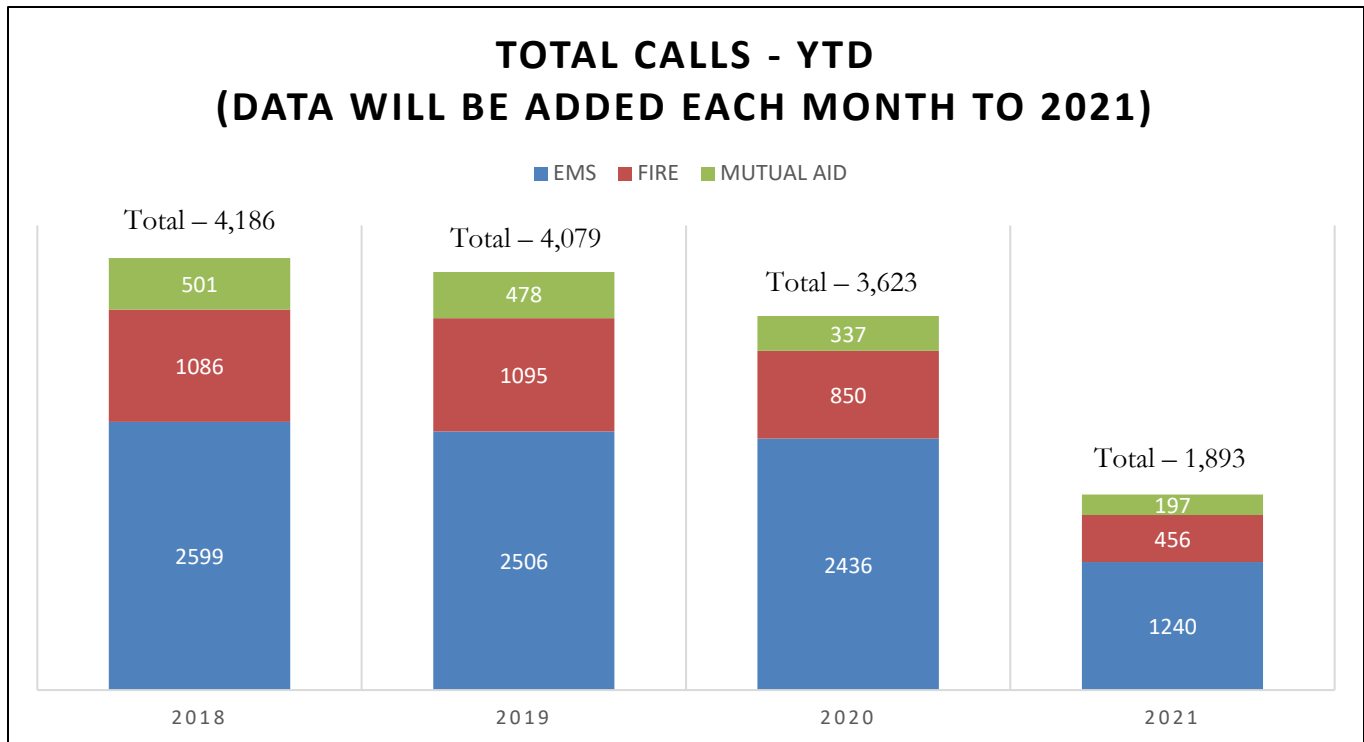


Operations Division

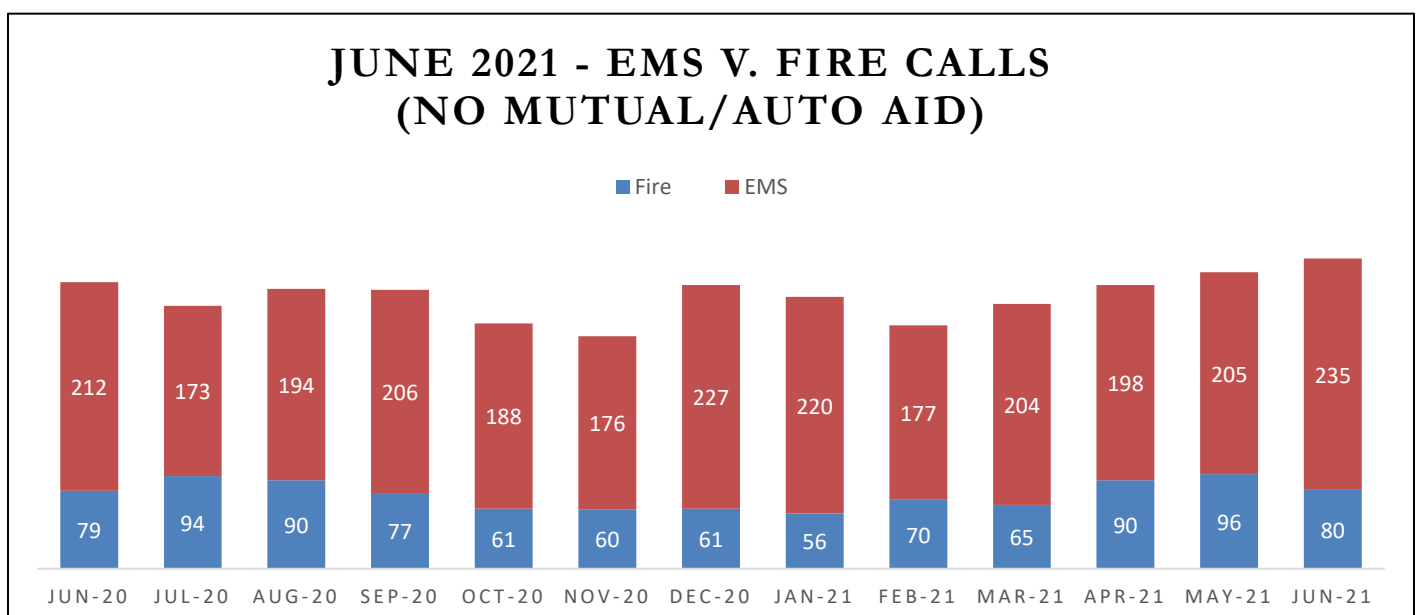
Vehicles Out of Service

- During June, the following vehicles were out of service due to maintenance, repairs, or breakdowns:
 - Ambulances – 105.50 hours
 - Engines – 254.50 hours
 - Year-To-Date Hours:

Ambulances: **346.08 hours** | Engines: **913.28 hours**

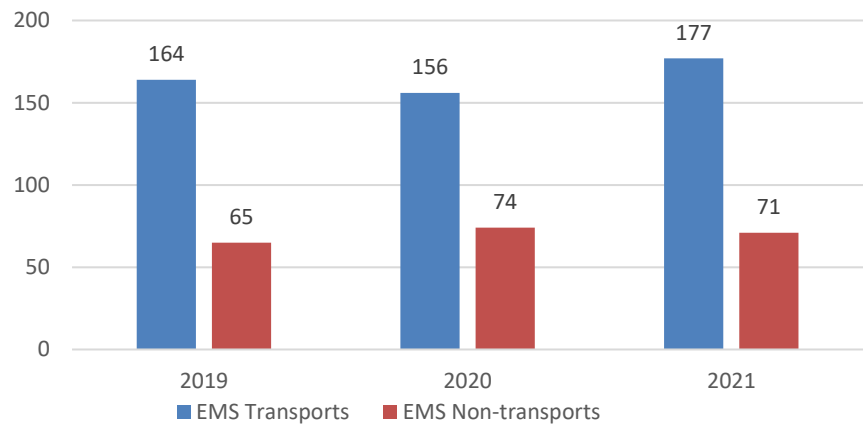


Below is the breakdown of Fire versus EMS incidents in Lake Zurich – minus aid given. Our fire calls include structure fires, car fires, grass fires, dumpster fires, wires down, and other types of service calls.



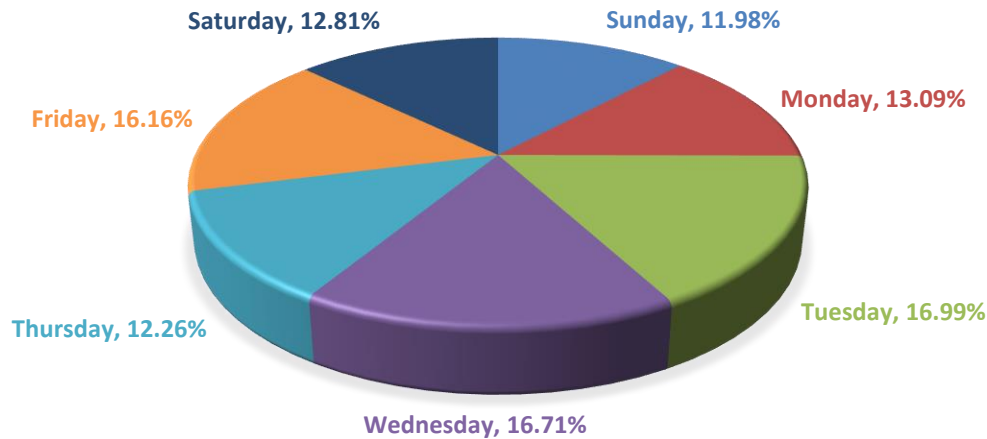
This next chart reflects activity related to emergency medical services, a core function of the fire department — not every EMS call results in transport. A prime example of this is an automobile accident where several victims refuse transport. EMS transports always outpace refusals. This chart compares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

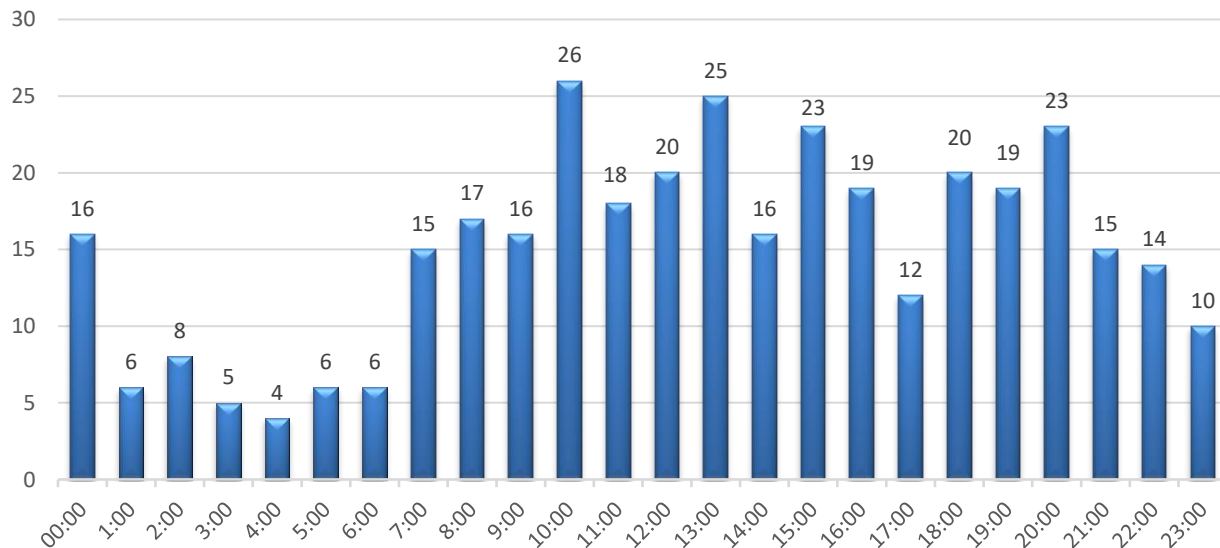


The following two charts break down calls by the day-of-week and hour-of-day.

RESPONSE BY DAY OF WEEK - JUNE 2021



RESPONSE BY HOUR OF DAY - JUNE 2021



**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

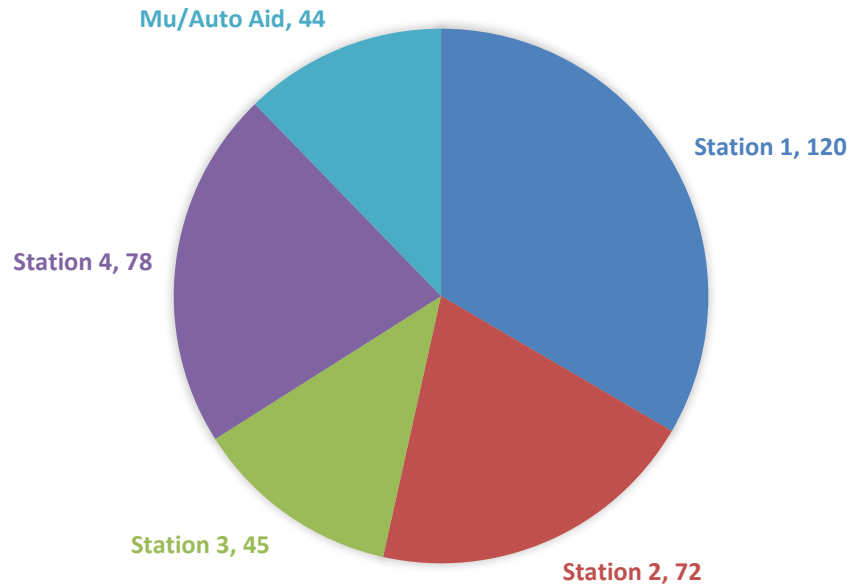
APPARATUS & STAFFING

ENGINE 324
AMBULANCE 324



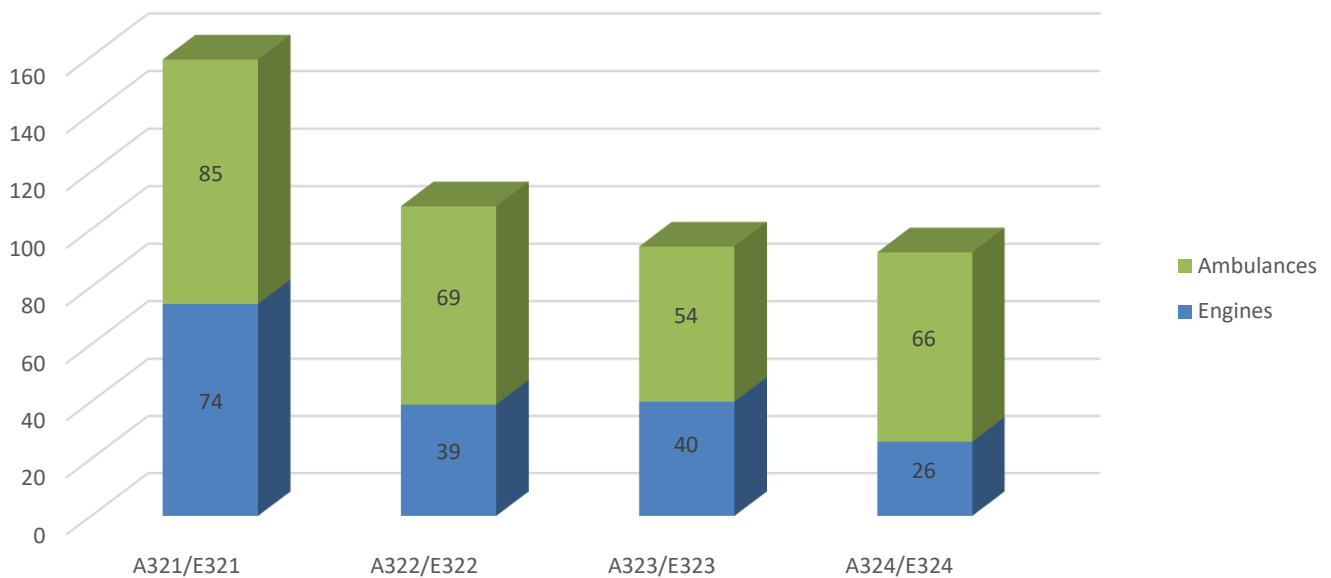
The graph below represents the percentage of calls by each station and mutual/auto aid for June 2021. The chart does **not** represent the station that responded as the primary resource to the area – it means where the call originated. Station 1 is historically the busiest district.

ORIGIN OF CALLS - JUNE 2021

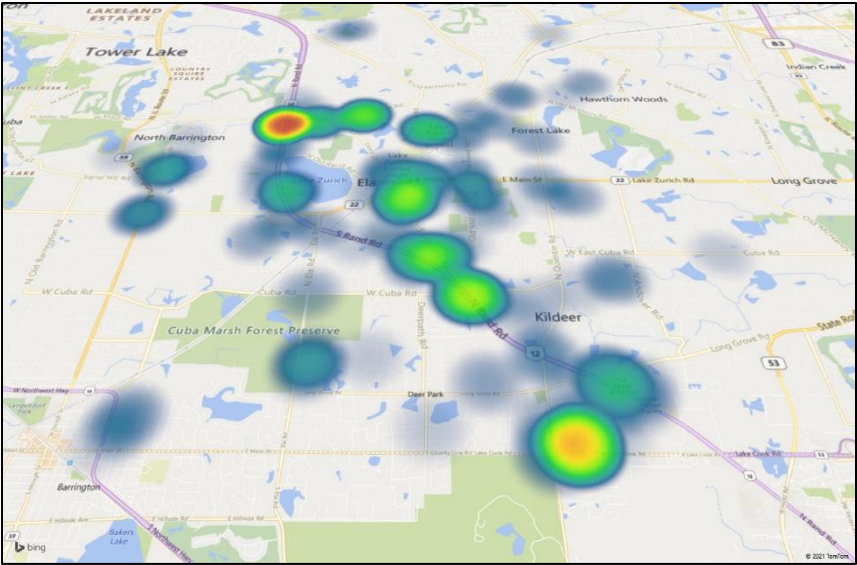


The graph below shows the responses by each unit – Ambulances & Engines – in June 2021.

Total Unit Responses - Ambulances & Engines



The next 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 and health clinics, along with automobile accidents near the Route 12 corridor.

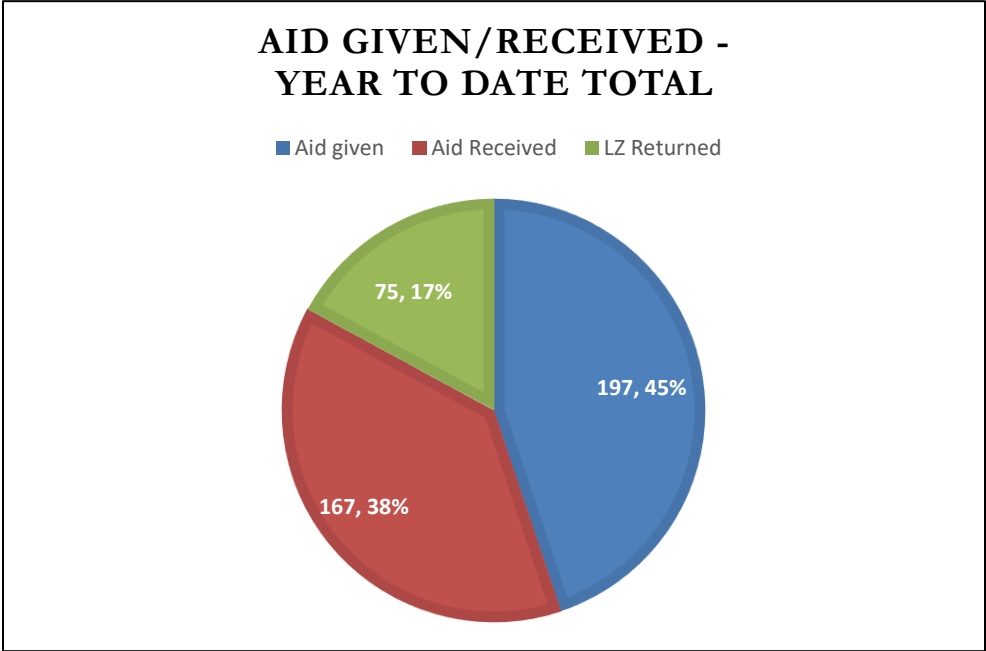


Frequent Call Locations:

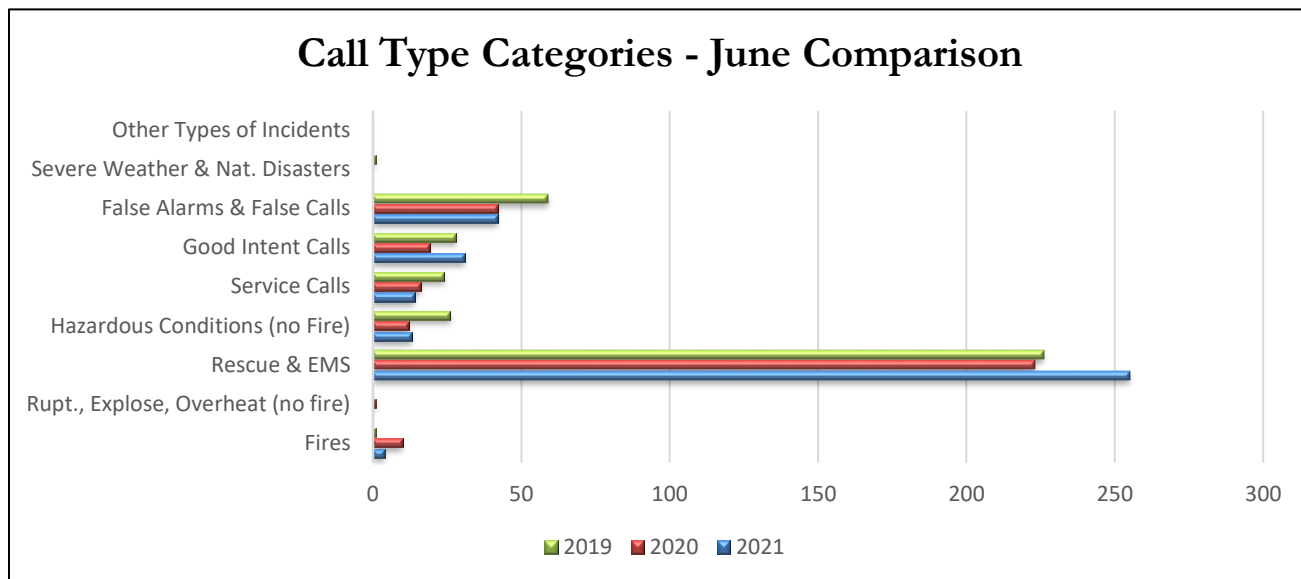
- 795 N. Rand Road – Azpira Place of Lake Zurich – 32 responses
- 21840 Lake Cook Road – Deer Park Village Senior Living – 19 responses
- 900 S. Rand Road – Lexington Health Care Center of Lake Zurich – 7 responses
- 21481 N. Rand Road – Northwest Community Healthcare – 7 responses
- 777 Church Street – Cedar Lake Assisted Living & Memory Care – 6 responses
- 555 America Court – The Auberge at Lake Zurich – 4 responses

Mutual/Auto Aid Response Year to Date –

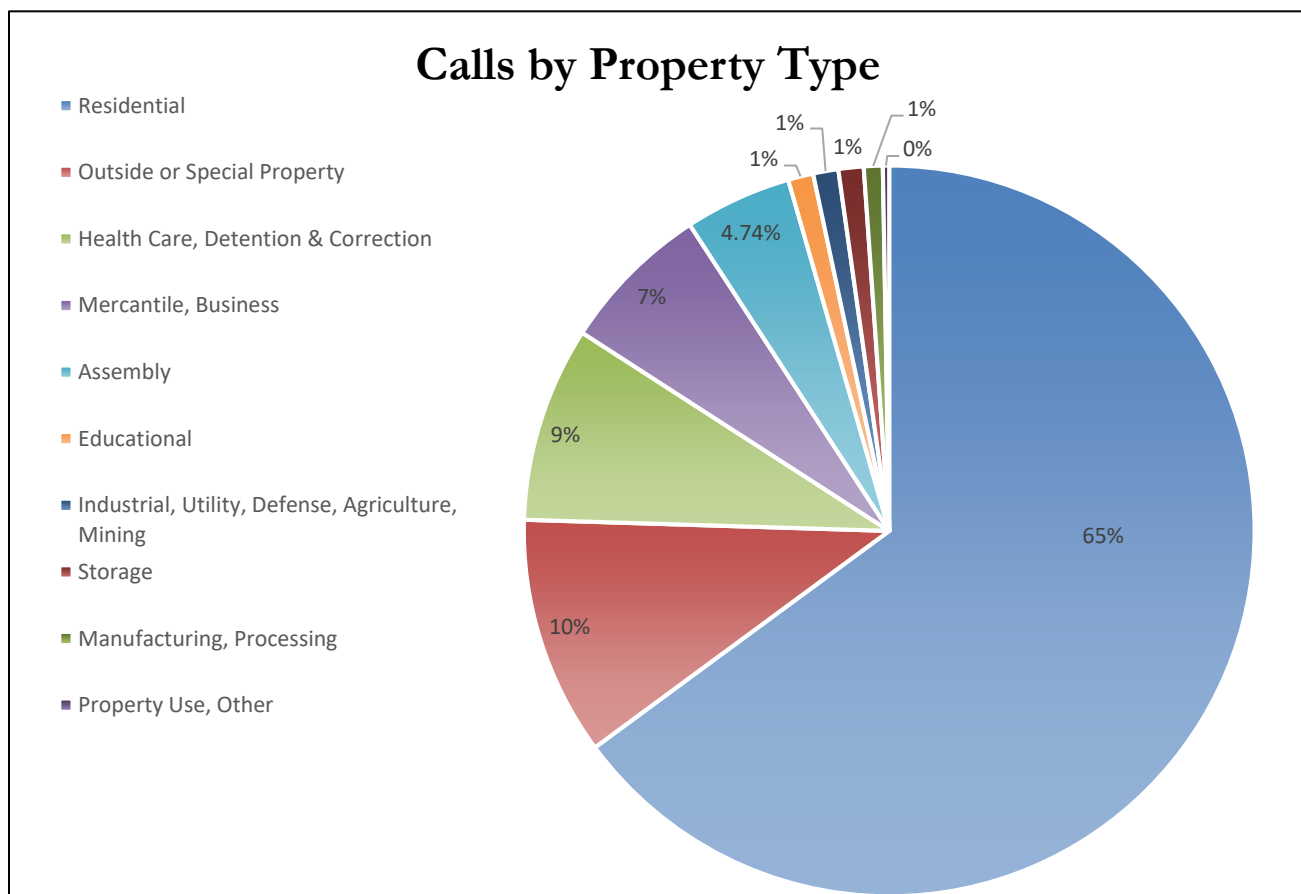
The mutual aid agreements are designed not to overburden any one agency and are looked at carefully for any necessary adjustments. Run cards for the Department have changed, and our partners are responding to assist us more often. In June, we responded to **43 calls** for mutual aid and were **returned 15 times** before our 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 across the three years that the trends remain mostly the same. Rescue and EMS incidents account for the majority of calls we respond to and continue to increase, as indicated below.

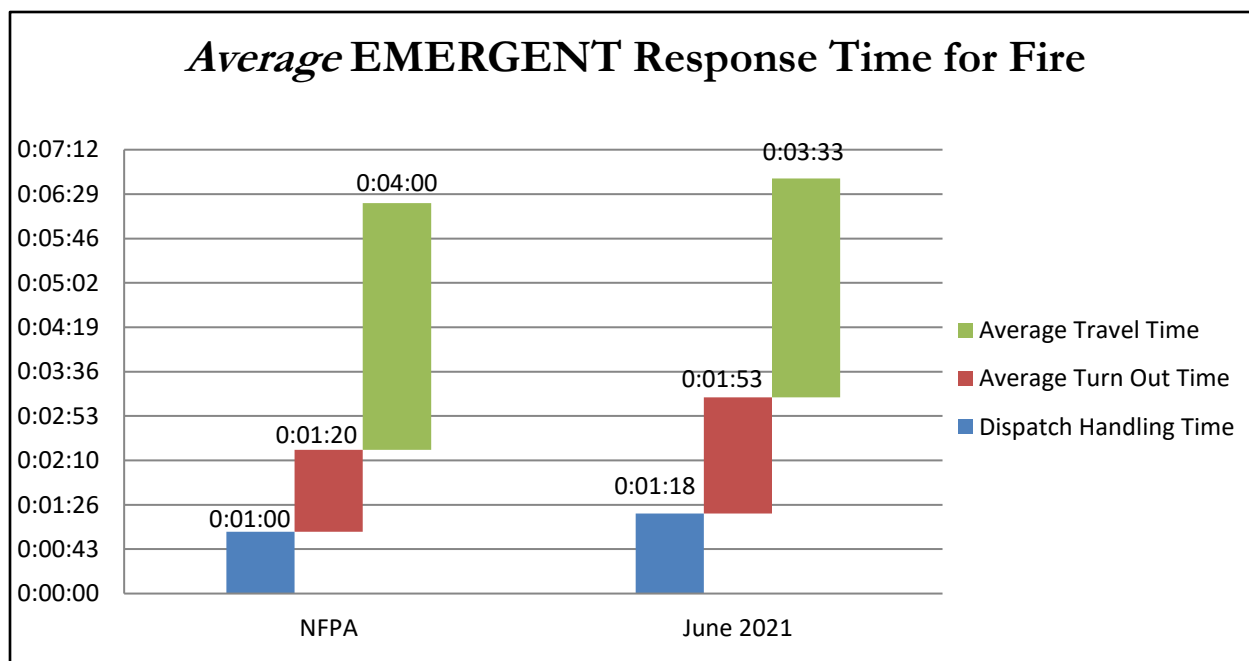
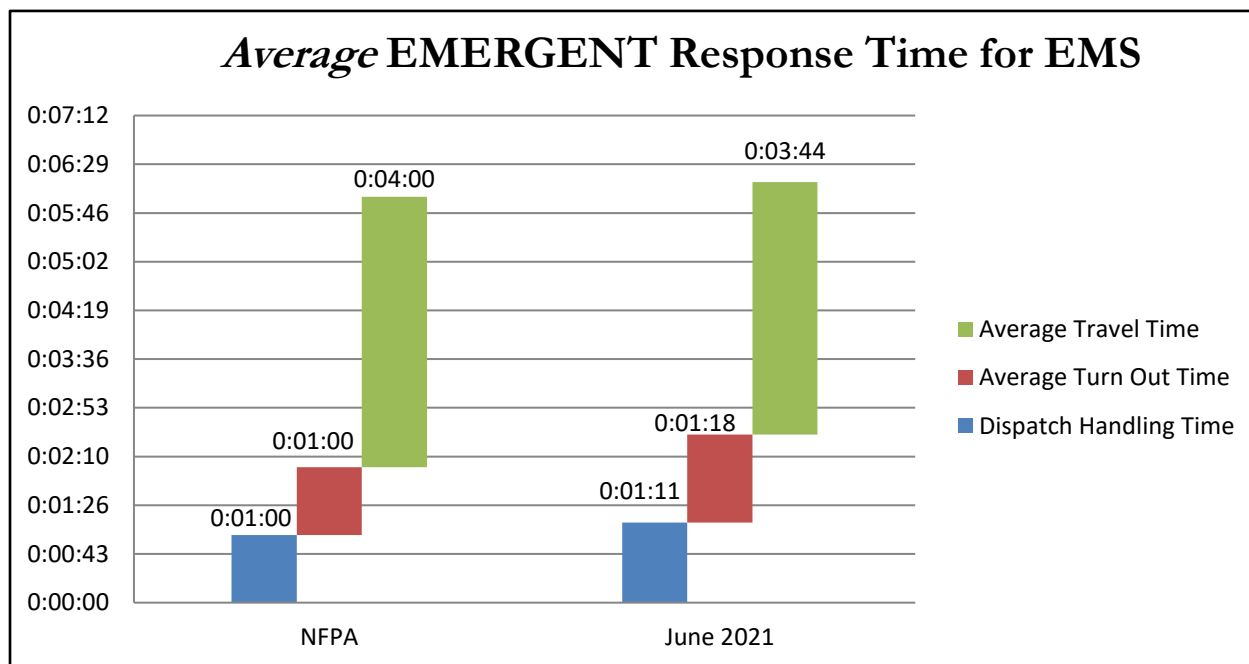


As previously mentioned, there is a national standard for coding the type of property use. How is this relevant? We see trends in various types of occupancies and use them to determine our service demand. For example, the healthcare category would increase if additional assisted living or nursing homes open. As shown below, we continue to respond to Residential Properties more than any other (65%), and Outside/Special Property was second with (10%) of all calls.



Response time includes three key factors: dispatch handling time, turnout time, and travel time. Dispatch handling time is the time for dispatch to take 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 en-route button. Travel time reflects the time from en route to the time 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 a total of 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 June, we completed the following shift training:

EMS Controlled Substances Accountability – A mandatory review of the Northwest Community Hospital policy on the handling and documentation on controlled substances.

First Due Engine on a Hydrant – NFPA 1410 drill during which 2 lines are deployed, and the engine obtains a positive water supply

First Due Engine Rural Water Supply – Practiced rural water supply operations

Multi-Company Rural Water Supply and Coordinated Fire Attack –
(Pictured right)

All company drill involving rural water supply, command operations, forcible entry, roof ventilation, coordinated fire attack, and rescue

Stop the Bleed Refresher – A review of the equipment and procedures used for uncontrolled bleeding

Dive Support – Crews assisted the Dive Team with instruction of the Fire Explorers on dive support and participated in a diving drill at Paulus Park Beach

EMS Refusals, Invalid Assists, and Standard of Care – This was a mandatory review of the Northwest Community Hospital Policies on these subjects

Each June, we have the National Stand Down for Safety week. This training is about making sure firefighters keep safety in mind while working on the fire scene. This year we conducted training on the following subjects:

Rebuilding Rehab – Firefighters face an increased risk of having a medical emergency while working at fires or an extended emergency scene. A review for all firefighters to complete rehab on these scenes with proper hydration and nutrition

PPE Inspections and Cleaning – A review on completing an inspection of our PPE (Turnout Gear) and properly cleaning it safely to remove the carcinogens from the PPE following a fire.

Company Fitness – One factor in being able to perform on the emergency scene is the fitness level of the firefighters.





Additional Training Classes attended during June:

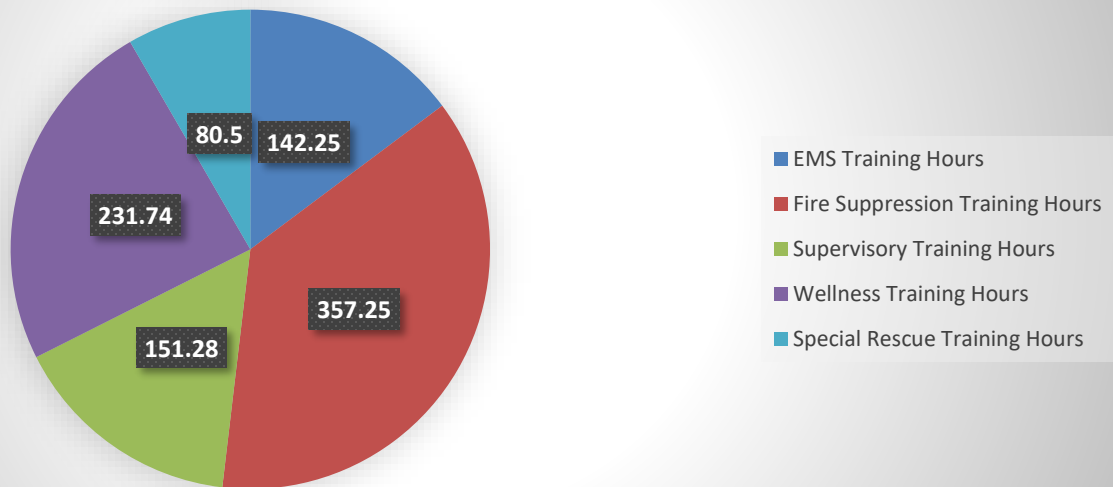
FF/PM Phil Rotstein attended the 2-day IFSI Fire College and completed the First in Officer Class

FF/PM Ryan Bene attended the 8-hour OSFM Watercraft Technician class

FF/PM Ryan Bene (*pictured left*) was selected to participate in Operation Great Lakes, a Dive Team Task Force Deployment drill held in Chicago on Lake Michigan and involving multiple departments.

FF/PM Gilberto Villa and FF/PM Chandler Boyd completed NCH System Entry and have received full EMS ALS privileges from Dr. Jordon, the NCH EMS Medical System Director

June Training Hours - 963.02 Total



Fire Prevention Bureau Division

The month of June traditionally begins our summer activities. In 2020, events were on hold, but not 2021!

The Lake Zurich Fire Department permits and provides a safety detail for four fireworks shows within our protection area.

Each show requires a complete plan review submittal and permit, plus a site inspection before the event. Once the fireworks are on-site, the Fire Prevention Bureau is on-site, providing a fire safety watch. (*Pictured right*)





AND THE BARN RE-OPENS! After suffering a severe fire (*pictured left*), the Paulus Park Barn was rebuilt out of the ashes. The repaired facility required the addition of fire sprinklers, a fire alarm system, and a new water main. Along with numerous final inspections, each new safety feature required a plan review and separate inspections. The Village can be proud of this fire-safe building for the staff and children.

The Fire Prevention Bureau also assisted with investigating a structure fire at 189 Miller Road in Lake Zurich. The fire began on the exterior under the deck and quickly spread throughout the home, causing extensive damage.

Lake Zurich received from the Village of Woodridge a request for assistance with damage assessments from the F-3 tornado. (*Pictured right*). The tornado had struck the Village the week prior, and IEMA was requesting all damage be assessed.

The Lake Zurich Fire Prevention Bureau and the Wauconda Fire Prevention Bureau responded and worked a large damaged area. Together, we assessed over 50 homes ranging in damage from very little to complete loss. This effort shows how fire crews handle mutual aid, but building and inspectional services also need help when a Village suffers a significant loss.



JUNE FIRE PREVENTION ACTIVITIES

- Final inspections on the new First Watch restaurant in Kildeer
- Fireworks show at Biltmore Country Club
- Meeting with the new Life Time Fitness construction crew to restart construction
- Attend weekly fireworks meetings with the Village of Hawthorn Woods.
- Fireworks planning meetings for Village of Lake Zurich event
- Fire Department staff meetings
- NIFIA Board and General meetings
- Construction meetings:
 - G2 Revolution
 - Kraft Chemical
 - Life Time Fitness
 - 35 W. Main
- Pontoon placement for fireworks at Paulus Park
- Chamber Expo meeting
- IEMA mutual aid tornado assessments in Woodridge
- Weekly Food Truck inspections at the Promenade

Year-To-Date - June 2021

