



University Heights Fire Department

2021 Annual Report

Submitted by:

Fire Chief Robert D. Perko, III

Report Prepared by Kimberly Kirkhoff



2021 Annual Report

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FIRE DEPARTMENT MISSION STATEMENT

***THE
UNIVERSITY HEIGHTS
FIRE DEPARTMENT
MUST ALWAYS BE VIGILANT
AND ALERT TO ITS MISSION
TO FIGHT FIRES, SAVE LIVES
AND PROPERTY, AND BE
PREPARED TO RESPOND TO
ANY EMERGENCY.***



A MESSAGE FROM THE FIRE CHIEF



I am pleased to present the 2021 University Heights Fire Department Annual Report to Mayor and Director of Public Safety Michael Dylan Brennan, members of University Heights City Council, and the residents and visitors of University Heights.

It is my honor and privilege to serve the residents of the City of University Heights, as their Fire Chief. I work alongside 30 well-trained and highly skilled professional firefighters, fire officers, paramedics, fire inspectors, and administrative staff members. Together, we provide high-quality emergency services to more than 13,000 residents within our 1.82-square-mile first-due response area. University Heights, the second most densely populated city in the state of Ohio, has routinely experienced annual increases in calls for service.

Although the role of the fire service has significantly changed and increased in complexity over the years, our commitment to serving our community to the best of our ability remains constant. The University Heights Fire Department recognizes the importance of adaptability and continual flexibility to meet the needs of the community. The challenges of 2021 were quite similar and yet in some regard, more complex than in 2020. The Department continued to experience challenges associated with the ongoing COVID-19 pandemic, this included keeping our workforce healthy and safe while maintaining adequate staffing resources. In 2021, the pandemic further expanded our roles and responsibilities to public safety by partnering with the Cuyahoga County Board of Health in the administration of vaccinations. This partnership was further expanded in 2021 to work with the Western Reserve Area Agency on Aging to provide vaccinations to those that are homebound. Maintaining situational awareness as the region and the state began to “re-open” was critical as these impacted operations and presented additional challenges with an increase in calls for service.

The Department has many great accomplishments to report, and one of the primary reasons for our success is teamwork. Teamwork among firefighters, city staff, elected officials, and, most importantly, community members is what allows us to be a highly successful fire department.

Notable Accomplishments of 2021:

- Retirement of Firefighter/Paramedic James Faciana
- Hiring of Firefighter/Paramedic Connor Bachmann



2021 Annual Report

- The Fire Department took delivery of a new 100' tower ladder truck in 2020 and officially placed it into service in 2021
- FF's Nees, DesRochers, Mickovic, and Krieger completed their 18-month probationary training
- The Fire Department continued its efforts in Community Risk Reduction and community engagement by restoring in-person station tours, block parties, school education, car seat installations and home safety inspections
- The Fire Department restored its in-person open house during Fire Prevention Week
- Executive Captain Boylan was successful at receiving multiple grant awards

I am exceptionally proud of the men and women who serve in all areas of the department by their commitment to our mission and sworn oath to serve. This Annual Report highlights only some of the activities and achievements of this department, but clearly exemplifies the dedication and professionalism of all our members.

I look forward to an exciting and productive 2022, working with our City Administration, and most importantly serving as your Fire Chief.

Sincerely,

A handwritten signature in black ink that reads "R. D. Perko III".

Robert D. Perko III
Chief of Fire



Robert D. Perko, III Chief of Fire



Chief Robert Perko has 19 years of service combined in the fire services field following in his father's footsteps. He began his career at the University Heights Fire Department in 2007. In addition, Chief Perko has worked in Newburgh Heights as a Firefighter/Paramedic, MetroHealth Hospital Emergency Department as a Paramedic and currently is a Lieutenant with the Seven Hills Fire Department. Chief Perko also is a Fire Instructor at the Ohio Fire Academy. He holds an Associate of Applied Science in Fire Technology and a Bachelor of Arts in Public Safety Management and a Master of Public Administration with a concentration on Emergency Services Management.

Chief Perko has served many roles with the University Heights Fire Department. He was promoted to the rank of Lieutenant in 2013 and to the rank of Captain in 2016. Chief Perko served as the Department's Fire Training Officer for five years. Chief Perko has been affiliated with the Southwest Emergency Response Team (SERT), Ohio Region 2 Urban Search and Rescue Team (USAR), SERT Regional Fire Investigation Unit, and out-of-state promotional review board as an assessor. He has completed Fire Officer I, II, III, and IV, Maxwell Leadership, FEMA courses and Blue Card Instructor. In addition, Chief Perko served on the Labor Union Executive Board for nine years. Chief Perko is certified as a Fire Safety Inspector, Fire Arson Investigator, Rescue Technician, Hazmat Technician, Incident Safety Officer and Fire Instructor

Kimberly Kirkhoff, Administrative Assistant



Kimberly joined the Department in January 2019. Prior to joining, Kimberly worked with the Geauga County Court system for five years, serving as a judicial assistant to Judge David L. Fuhry and Judge Forrest W. Burt, and as the IT Administrator for Chardon Municipal Court. She holds an Associate's degree in Paralegal Studies, Bachelor's degree in Criminal Justice, and a Master's degree in Criminal Justice and Forensic Psychology. She also holds certificates in Human Resources Management through Cornell University, Diversity, Equity, and Inclusion in the Workplace and Inclusive and Ethical Leadership through the University of South Florida.

Kimberly's areas of responsibilities concentrate in the area of administrative functions. These functions include responding to and providing EMS reports, payroll, purchasing, analytical reports, research, providing IT support and other human resource related activities. In addition, Kimberly coordinates station tours and block parties, and community events. Kimberly assists the Chief and Executive Captain as needed.



Andrew Boylan, Executive Captain



Prior to joining the fire services field, Executive Captain Boylan served in the United States Army for 10 years as a Paratrooper. Executive Captain Boylan began his firefighting career with the University Heights Fire Department in 2001. He has 20 years in the fire service field with more than 5 years as a Lieutenant. In addition, Executive Captain Boylan serves as a Lieutenant with the Chagrin Falls Fire Department. He is certified as a Fire Inspector, Fire Investigator, and Fire Officer 1-4. He is currently enrolled in the Blue Card Program.

Captain Boylan was appointed as Executive Captain in November 2018, making him 2nd in command of the Department. As the Executive Captain responsible for the Fire Prevention Bureau, he manages all activities of the Bureau. Captain Boylan oversees all grant applications such as the Ohio Bureau of Workers' Compensation Safety Grants. Other areas of responsibility include the supervision and administration of fire suppression, emergency aid, hazardous materials, fire prevention, fire investigation, and educational programs. In addition, Executive Captain Boylan supervises personnel consisting of Fire Captains, Fire Lieutenants, Fire Prevention Officer, and subordinate staff in their assigned duties. He assists the Fire Chief as necessary.

Bill Phelan, Fire Prevention Officer



Fire Prevention Officer (FPO) Phelan began his firefighting career with the University Heights Fire Department in 1999. He has over 23 years in the fire services field, all serving with the University Heights Fire Department.

FPO Phelan's main focus is Prevention and Education with the Fire Prevention Bureau. To accomplish this, FPO Phelan concentrates in the areas of community risk reduction and education, enforcement of the fire code, fire investigation, hazardous materials inspections, issuance of permits, plan review and fire protection functions. In addition, he provides the community education and safety programs including residential lock boxes, smoke detector installation and testing, car seat installation, and CPR. FPO Phelan joined the Heights-Hillcrest Regional Fire Investigators Team in 2019 and is currently a Fire Investigator with the team.



Brian A. Phan, Captain



Captain Phan began his firefighting career with the University Heights Fire Department in 1989. Captain Phan has 39 years of service combined in the fire services field. He has served with the University Heights Fire Department for 33 years, 20 years as an Officer. Captain Phan also served 33 years with the Bainbridge Township Fire Department, 18 years as Chief. In addition, he has worked in law enforcement for 28 years.

Captain Phan's areas of responsibilities are Maintenance and Communications. He oversees all preventative maintenance on the Department's vehicles and small engines, as well as, ground and aerial ladders. This includes supervising the cleaning and maintenance of equipment and apparatus and reporting repairs required. Captain Phan also manages annual pump tests which is a vital part of apparatus safety and maintenance. In addition, Captain Phan maintains maintenance and supplies for the fire station building.

As part of his communication responsibilities, Captain Phan manages the radios and station alerting system. This area includes ordering of replacement parts and coordinating maintenance appointments as necessary.

Pete Pucella, Captain



Captain Pucella began his firefighting career with the University Heights fire Department in 1990. Captain Pucella has 41 years of service combined in the fire services field. He has served with the University Heights Fire Department for 31 years, 15 years and an Officer. Captain Pucella also served with the Richmond Heights Fire Department for 35 years. He holds a degree in Emergency Services from Kent State University and is a nationally registered Paramedic.

Captain Pucella's supervises Emergency Medical Services (EMS) of the Department. EMS seeks to minimize injuries in all fire and medical emergencies. In order to effectively provide this level of care, Captain Pucella focuses training efforts on efficient delivery of effective pre-hospital treatment and patient transport. He coordinates and tracks EMS Training for all Department members. In addition, his other responsibilities include maintaining EMS supplies and equipment, oxygen, AED's, and quality control. Captain Pucella also manages the Department's HealthEMS Record Management System and EMS billing assuring accuracy in reporting.



Douglas Robinson, Captain



Prior to joining the fire services field, Captain Robinson served in the United States Navy, obtaining the rank of Chief Petty Officer. Captain Robinson began his firefighting career with the University Heights Fire Department in 2000. He has 19 years in the fire services field, two years as a Lieutenant. He was promoted to the rank of Captain in November 2018. Captain Robinson is certified as a Fire Inspector, Fire Instructor, EMS Instructor-Assistant, Fire Officer 1 and 2, and Blue Card Incident Command Instructor.

Captain Robinson's areas of responsibilities include Department Training and Development. Captain Robinson oversees the Probationary Firefighter Training Program for new hires and the Probationary Officer Training Program for newly promoted officers. In addition, Captain Robinson prepares weekly company drills, identifies and coordinates outside training programs, and coordinates regional training drills.

John Novosielski, Lieutenant



Lieutenant Novosielski began his career at the University Fire Department in 2000. He has 26 years of service combined in the fire services field. Lieutenant Novosielski was promoted to the rank of Lieutenant in November 2018. He also has served with the Richfield, Bath, Copley Fire Departments and General Motors plant in Parma as a Fire Officer. In addition, he served with the Hinkley Fire Department as a Lieutenant. Lieutenant Novosielski is certified as a Fire Inspector, Fire Officer 1, and Critical Care Medic. He is currently enrolled in the Blue Card Program.

Lieutenant Novosielski's main areas of responsibilities include assignments relating to Water Supply. These assignments include monitoring damage and repairs for fire hydrants, water mains, fire hoses, appliances. Lieutenant Novosielski also maintains and purchases all small tools and equipment for the Department.



Christopher Calo, Lieutenant



Lieutenant Chris Calo joined the University Heights Fire Department in 1995. He has 28 years of combined fire service, beginning with the Bainbridge Twp. Fire Department in 1992 and achieving the ranks of Lieutenant and Captain. In addition, he worked with the Chagrin Falls Fire Department and currently works with the Aurora Fire Department. In November 2018, Chris was promoted to Lieutenant with the University Heights Fire Department. He is certified as a Fire Inspector, Fire Instructor and has recently completed the Blue Card Command Program.

Lieutenant Calo's area of responsibility focuses on Information Technology. He maintains and identifies new technologies and purchases software and hardware in accordance to the Department's needs. In addition, he provides support for the Mobile Computer Terminals (MCTs), iPads used for EMS and fire reporting, as well as in station equipment used for reporting, dispatch (CAD) and training.

Kevin Vonhaz, Lieutenant



Lieutenant Vonhaz has over 29 years combined in the fire services field. He began his career with the University Heights Fire Department in 1999. He has also worked with the Chagrin Falls Fire Department, achieving the rank of Lieutenant, and the Orange Village Fire Department. Lieutenant Vonhaz was promoted to Lieutenant with the University Heights Fire Department in November 2018. He is certified as a Fire Officer 1, Tech Rescue Technician and is Blue Card Command Certified. Lieutenant Vonhaz is also certified as a Fire Inspector.

Lieutenant Vonhaz's responsibilities concentrate in the areas of Health and Safety. In 2020, he completed his Dedicated Infection Control Officer certification. He inspects and maintains fitness equipment for the Department and coordinates fitness testing of Department members with John Carroll University. He also is the Department contact for any hazardous exposures and injuries. In addition, Lieutenant Vonhaz manages the maintenance, annual testing and repairs of Personal Protective Equipment (PPE) and the Self-Contained Breathing Apparatus (SCBA). He ensures that all PPE and SCBA's comply with Department policies and NFPA standards pertaining to selection, inspection, cleaning and decontamination, repair, storage, retirement, and record keeping.



FIRE DEPARTMENT HISTORY

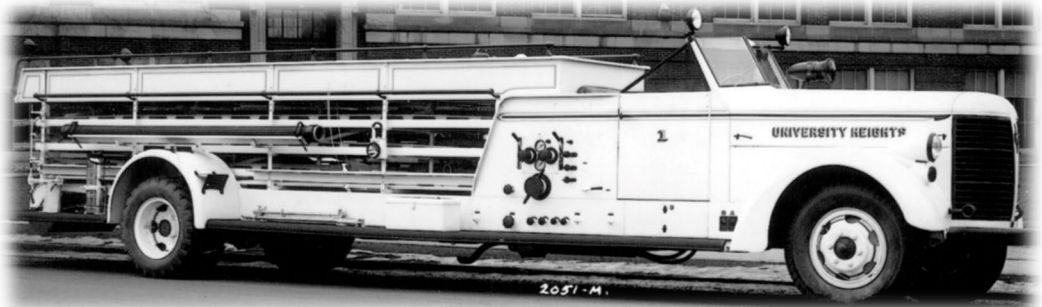


Prior to the University Heights Fire Department being established, fire suppression was contracted to Cleveland Heights Fire Department. The population of University Heights had reached 5,891 residents in the year 1941. On January 21, 1941 council announced that as of February 8, 1941 University Heights would officially become a city. On May 7, 1941 ordinance 4099 was passed which requested a 0.9 mill levy to form University Heights Fire Department. Throughout the year 1941, several events occurred for the fire department to be established. American La France was awarded the contract for \$10,000 for fire equipment.

The J.P. Snaveley Company had the lowest bid of \$11,129 to build the original addition to city hall for housing the fire department. In August of 1941, it was announced that due to the station not being completed, Cleveland Heights' contract would be increased to \$225 and would expire December 12, 1941. The first Chief of the University Heights Fire Department, Chief Richard Benjamin, was appointed on April 1, 1942. The Department has had 3 Interim and 7 permanent Fire Chiefs.

Ambulance service began in University Heights in 1967-1968, and a new rescue squad was delivered in 1968. At this time the fire department ran approximately 500 runs a year, a large increase from the one run a week in the 1940s. In 1977,

the fire department began moving towards providing ALS with the purchase of a Horton Co. ambulance that could be equipped with a cardiac care system. This ambulance also replaced an older ambulance that was



then placed as a reserve vehicle. While ambulance service started in the 1960s, and was moving forward in the 1970s, paramedic service did not start until 1990 under Chief Kosmerl.

Under Chief Albert McFarland there were some changes that were necessary to the fire station itself. In 1968, council began considering the purchase of a new 100-foot aerial truck that would require an 18-foot addition to the front of the building in order to house the truck. The addition was completed and added enough additional space for the new ladder truck in the 1960s.





DEPARTMENT DETAILS

The University Heights Fire Department operates from one Fire Station, located at 3980 Silsby Road. The Fire Department Administration staff consists of the Fire Chief, Executive Captain, Fire Administrative Assistant, and a Fire Prevention Officer. In addition, the Fire Department operates on a three-shift rotation. These three shifts are respectively referred to as A, B, and C Shifts. One Captain and one Lieutenant are assigned to each shift, as well as seven Firefighters/Paramedics. The 31-member Department did not have any retirements or new hires in 2021.

DEPARTMENT HIGHLIGHTS

- ❖ The Department restored community engagement efforts as the challenges of COVID-19 diminished and allowed for more flexibility.
- ❖ The Department obtained over \$100,000 in Federal and State Grant funding to purchase items to reduce risk and improve the health and safety of our firefighters.
- ❖ Administrative Assistant Kimberly Kirkhoff completed multiple certificate courses in the areas of Human Resources and Diversity, Equity and Inclusion
- ❖ Firefighters earned certificates for completion of Initial Company Operations, RIT/Mayday, & Fire Officer I
- ❖ Grant funding provided training for Rope Rescue Operations & Technician, Structural Collapse, Swift Water, and Vehicle Machinery Extrication
- ❖ Departmental instructors with the Heights BlueCard Command Training Center conducted 4 Incident Command certification courses in 2021
- ❖ The Department worked with the Cuyahoga Board of Health to effectively plan and mitigate the challenges presented by COVID-19, including testing and vaccinations
- ❖ The Department conducted a total of 12,102 hours of training consisting of hands-on, regional, and virtual in Firefighting, EMS, Fire Safety, Development, and Incident Management.
- ❖ The Department updated and released over 97 departmental procedures through Lexipol. Lexipol policies are based on nationwide standards and best practices while also incorporating state and federal laws and regulations where appropriate.
- ❖ The Fire Department restored its annual Fire Prevention Week Open House
- ❖ FF Nees, DesRochers, Mickovic and Krieger completed their 18-month probation period
- ❖ Hiring of FF Connor Bachmann
- ❖ Retirement of FF James Faciana



QUICK DEPARTMENT STATISTICS

- ❖ In 2021, the University Heights Fire Department responded to 2,399 calls for service.
 - 1381 Rescue/EMS related (57.57%)
 - 1018 Fire related (42.43%)
- ❖ Call volume increased 0.21% from 2020
- ❖ The average calls per day was 6.57 calls
- ❖ 478 calls were concurrent calls (19.92%)
- ❖ The busiest month was August
- ❖ The slowest month was January
- ❖ The busiest day of the week was Friday
- ❖ The slowest day of the week was Wednesday
- ❖ The busiest hour of the day was 2:00 PM
- ❖ The slowest hour of the day was between 5:00 AM – 6:00 AM
- ❖ Average response time from dispatch to arrival was 4 minutes 6 seconds
- ❖ Average time spent on the scene was 17 minutes 46 seconds
- ❖ A-shift responded to 773 incidents
- ❖ B-shift responded to 862 incidents
- ❖ C-shift responded to 764 incidents
- ❖ Total property and content loss were \$69,000.00
- ❖ No civilian fire casualties reported
- ❖ The average personnel responding to an incident is 4
- ❖ Training grand total man hours was 12,130

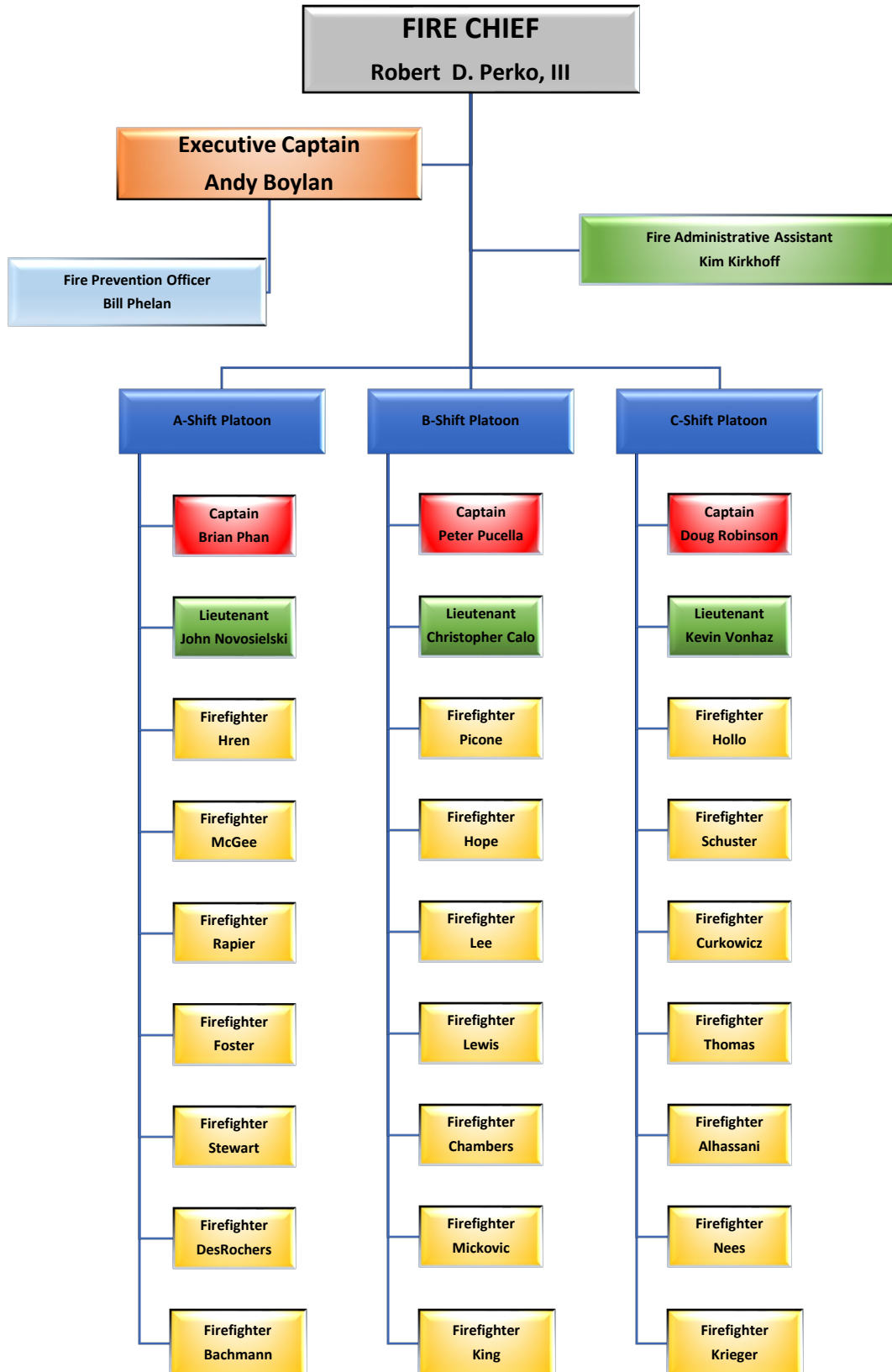


CURRENT ROSTER OF FIRE DEPARTMENT

<u>LAST NAME</u>	<u>FIRST NAME</u>	<u>RANK OR TITLE</u>	<u>SHIFT</u>	<u>YEAR STARTED</u>
PERKO	ROBERT	CHIEF	ADMINISTRATION	2007
BOYLAN	ANDREW	EXECUTIVE CAPTAIN	ADMINISTRATION	2001
PHELAN	BILL	FIRE PREVENTION OFFICER	ADMINISTRATION	1999
KIRKHOFF	KIMBERLY	ADMINISTRATIVE ASSISTANT	ADMINISTRATION	2019
PHAN	BRIAN	CAPTAIN	A-SHIFT	1989
NOVOSIELSKI	JOHN	LIEUTENANT	A-SHIFT	2000
HREN	THOMAS	FIREFIGHTER/PARAMEDIC	A-SHIFT	2000
MCGEE	JOSEPH	FIREFIGHTER/PARAMEDIC	A-SHIFT	2009
RAPIER	CHAD	FIREFIGHTER/PARAMEDIC	A-SHIFT	2016
FOSTER	JAKE	FIREFIGHTER/PARAMEDIC	A-SHIFT	2018
STEWART	ADAM	FIREFIGHTER/PARAMEDIC	A-SHIFT	2018
DESROCHERS	CORY	FIREFIGHTER/PARAMEDIC	A-SHIFT	2019
BACHMANN	CONNOE	FIREFIGHTER/PARAMEDIC	A-SHIFT	2021
PUCELLA	PETER	CAPTAIN	B-SHIFT	1990
CALO	CHRISTOPHER	LIEUNTENANT	B-SHIFT	1995
PICONE	DAMAN	FIREFIGHTER/PARAMEDIC	B-SHIFT	2000
HOPE	BRANDON	FIREFIGHTER/PARAMEDIC	B-SHIFT	2001
LEE	KEVIN	FIREFIGHTER/PARAMEDIC	B-SHIFT	2015
LEWIS	ERIC	FIREFIGHTER/PARAMEDIC	B-SHIFT	2016
CHAMBERS	KYLE	FIREFIGHTER/PARAMEDIC	B-SHIFT	2018
MICKOVIC	MICHAEL	FIREFIGHTER/PARAMEDIC	B-SHIFT	2019
KING	GERALD	FIREFIGHTER/PARAMEDIC	B-SHIFT	2022
ROBINSON	DOUGLAS	CAPTAIN	C-SHIFT	2000
VONHAZ	KEVIN	LIEUTENANT	C-SHIFT	1999
HOLLO	DAVID	FIREFIGHTER/PARAMEDIC	C-SHIFT	2000
SCHUSTER	CALAB	FIREFIGHTER/PARAMEDIC	C-SHIFT	2006
CURKOWICZ	LUKASZ	FIREFIGHTER/PARAMEDIC	C-SHIFT	2013
THOMAS	JONATHAN	FIREFIGHTER/PARAMEDIC	C-SHIFT	2016
ALHASSANI	NICHOLAS	FIREFIGHTER/PARAMEDIC	C-SHIFT	2018
NEES	DAVID	FIREFIGHTER/PARAMEDIC	C-SHIFT	2019
KRIEGER	TRAVIS	FIREFIGHTER/PARAMEDIC	C-SHIFT	2019



FIRE DEPARTMENT ORGANIZATIONAL STRUCTURE





FIRE PREVENTION BUREAU MISSION STATEMENT

THE FIRE PREVENTION BUREAU OF UNIVERSITY HEIGHTS FIRE DEPARTMENT IS DEDICATED TO PREVENTING FIRE THROUGH PUBLIC EDUCATION ACTIVITIES, THOROUGH FIRE INSPECTIONS, ACTIVE CODE ENFORCEMENT, COMPREHENSIVE FIRE INVESTIGATIONS, ENGINEERING AND PLAN REVIEWS.

THUS, IMPROVING THE QUALITY OF LIFE FOR THE COMMUNITIES THAT WE SERVE. WE PROFESSIONALLY STRIVE TO CREATE A PROGRESSIVE AND SAFE ENVIRONMENT THAT BENEFITS ALL. ACCOMPLISHED, BY UTILIZING HIGHLY MOTIVATED AND TRAINED PERSONNEL WHO UNDERSTAND THE IMPORTANCE OF CUSTOMER SERVICE AND FIRE SAFETY EDUCATION. THE BEST WAY TO PROTECT LIFE AND PROPERTY FROM FIRE IS TO PREVENT FIRES FROM OCCURRING IN THE FIRST PLACE.



A MESSAGE FROM THE EXECUTIVE CAPTAIN



I am proud to announce that the Fire Department was successful in securing \$108,641.60 in Federal and State Grant funding last year. The majority of the funding was secured from a FEMA training that helps train firefighters in advanced rescue disciplines.

- \$101,400.00 was provided from FEMA for Rope Rescue training grant;
- \$4,609.82 was secured through FEMA for COVID related PPE in a joint effort from the Cuyahoga County Fire Chiefs Association;
- \$2,632.78 was secured from the State of Ohio EMS Training & Equipment Grant.



As always, we will continue to seek any additional funding opportunities in 2022.





FIRE PREVENTION BUREAU

SUBMITTED BY FIRE INSPECTOR BILL PHELAN

The primary objective of Fire Prevention is to reduce preventable injuries, deaths, and property loss through extensive public education programs, fire inspections of commercial properties, and enforcement of the adopted fire codes. The Bureau educates building owners and tenants while conducting fire safety inspections. This promotes compliance and limits the number of repeat violations in the future. The fire inspector conducts fire safety inspections of new and existing commercial properties each year, a large number of them require follow-up inspections to ensure compliance.

Fire Inspector Phelan has a wide range of other responsibilities in addition to the annual fire safety inspections:

- Review and approve the construction plans for new buildings or buildings being renovated.
- Conduct inspections during construction.
- Conduct fire inspections for the approval of new occupancy permits.
- Ensure timely follow up of complaints/concerns of the community.
- Verify acceptance testing of all fire safety and suppression systems.
- Witness all fire protection system testing, maintenance and repairs.
- Oversees the residential Lock Box program
- Conducts special event inspections.
- Investigate Fires

Fire Inspector Phelan completed the following inspections during 2021:

ADOPTION/FOSTER HOME INSPECTIONS	5
ANNUAL INSPECTIONS	242
REINSPECTIONS	179
ANNUAL FIRE ALARM TESTING	56
FIRE ALARM/SPRINKLER SYSTEM ACCEPTANCE	12
PLAN REVIEW	12
HOOD SYSTEM TESTING	19
ANNUAL SPRINKLER SYSTEM TESTING	31
SITE INSPECTION/COMPLAINTS/REFERRALS	91
TOTAL	680



FIRE PREVENTION BUREAU PROGRAM UPDATES

RESIDENTIAL LOCK-BOX PROGRAM

The Residential Lock Box program has been taken advantage of by our residents. Residents can purchase a lock box from the city and have it installed by the Fire Prevention Bureau. This lock box is keyed solely for University Heights Fire Department to gain access to residences in the event of an emergency. This reduces the possibility of damage that may be caused by forcing entry in an emergency. All Fire Department vehicles have a key to gain access if needed. Once installed, the address and location are entered in the 911 dispatch center and responding units are notified of the location. This program is overseen by the Fire Prevention Bureau and publicized on the City's website.



COMMUNITY CPR PROGRAM

The Fire Prevention Bureau also coordinates the community CPR program with the help of University Hospitals. These classes are scheduled on a quarterly basis at the University Heights Public Library. This program is publicized on the City's website.

FIRE PREVENTION EDUCATION OPPORTUNITIES

Fire Prevention Education and related activities for 2021 continued to present a unique challenge for the Bureau with the COVID pandemic. The department typically reaches out to the community through educational opportunities that include station tours, block parties, in-school Fire Prevention training, the annual touch a truck event and the fire department open house. We were successful in holding our annual Open House during Fire Prevention Week, an outdoor event this year, which was heavily attended by the community.





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The University Heights Fire Prevention Bureau is a member of the Hillcrest-Heights Regional Fire Investigation Unit. This unit is comprised of 42 fire investigators from 13 communities that assist each other in determining the cause and origin of fires. Last year the team was activated and investigated 13 fires, 3 of which resulted in a fatality.





VEHICLE & BUILDING MAINTENANCE

SUBMITTED BY CAPTAIN BRIAN PHAN

VEHICLE MAINTENANCE

The University Heights Fire Department has a fleet of nine vehicles. Routine preventative maintenance is a necessity to ensure the dependability of each vehicle. The year 2021 was again a challenging year for maintenance issues. Some of the Fire Division's vehicles have aged considerably. The age of the vehicles contributed to the costs associated with the repairs and maintenance necessary. We have now established an aggressive preventative maintenance routine to help preserve our fleet. Below is an inventory of the current Fire Division's fleet:

1. 1151 STAFF VEHICLE
2021 FORD INTERCEPTOR SUV
CONDITION - GOOD

2. 1152 STAFF VEHICLE
2019 FORD INTERCEPTOR SUV
CONDITION - GOOD

3. 1157 STAFF VEHICLE
2007 JEEP CHEROKEE
CONDITION - POOR

4. 1171 UTILITY PICKUP TRUCK
2008 FORD F-250
CONDITION - FAIR

5. 1112 ENGINE
2010 ROSENBAUER ENGINE
CONDITION: GOOD

6. 1121 LADDER
2020 SUTPHEN
CONDITION: GOOD

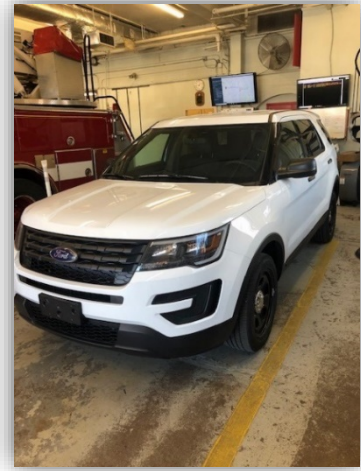
7. 1141 SQUAD
2017 FORD E-450/ROAD RESCUE
AMBULANCE
CONDITION - GOOD

8. 1142 SQUAD
2014 INTERNATIONAL TERRASTAR/HORTON
AMBULANCE
CONDITION - FAIR

9. 1153 COMMAND VEHICLE
2019 FORD INTERCEPTOR SUV
CONDITION: GOOD



1151
Staff Vehicle
2021 Ford Explorer Interceptor



1152
Staff Vehicle
2019 Ford Explorer Interceptor

1157
Staff Vehicle
2007 Jeep Cherokee





1171 Utility Pickup Truck 2008 Ford F-250



1112 Engine 2010 Rosenbauer Engine

- 2010 Rosenbauer Tilt Cab Pumper
- 750 Gallon Tank
- 1250 GPM Hale Pump
- Designated first due attack pumper for all Fire calls
- Reserve apparatus
- Responds to concurrent fire alarms



1121 Tower Ladder 2020 Sutphen Monarch

- 100 foot-Tower Ladder Aerial with 115 feet of portable ground ladders
- 2000 GPM Hale Q Max Pump
- with 500 Gallon Tank
- Outfitted to serve as a Truck and an Engine Company with an assortment of vehicle extrication tools
- Primary response vehicle





**Squad 1141
2017 Ford E-450
Ambulance**

- Equipped with advanced life support by Road Rescue



**1142 Squad
2014 International TerraStar
Ambulance**

- Equipped for advanced life support by Horton

1153 Command Vehicle

2019 Ford Explorer Interceptor

Shift commander vehicle used by the Officer-in-Charge (OIC) tasked with commanding emergency incidents.





LADDERS

In 2021, the Fire Department replaced all of its Portable Ladders. All Portable Ladders were tested and with the following results:

QUANTITY	DESCRIPTION	TEST RESULT
2	10' ATTIC LADDERS	PASS
1	14' ROOF LADDER	PASS
2	16' ROOF LADDER	PASS
3	24' EXTENSION LADDER	PASS
1	35' EXTENSION LADDER	PASS
1	LITTLE GIANT	NOT TESTED



BUILDING MAINTENANCE

In addition to our vehicles, our buildings continue to age. There currently are a variety of building deficiencies requiring significant attention. A needs assessment has been conducted recommending to start immediate planning for replacement.





EMERGENCY MEDICAL SERVICES (EMS)

SUBMITTED BY CAPTAIN PETER PUCELLA

University Heights Fire Department currently has 29 EMT-Paramedic members and one EMT-Advanced member. In addition, ten members are certified at the “National Registry Level” which is the highest level of certification in the country. The UHFD has two Advanced Cardiac Life Support rescue squads that enables us to provide the highest level of service to our community.

Emergency Medical Services accounted for 60% of all incidents for 2021. There was a total of 1302 EMS incidents; 584 were Basic Emergency (BLS) transports while 718 were Advanced (ALS) transports requiring advanced paramedic skills. The department has seen a steady increase in emergency call volume and The University Heights Fire Department transports to a wide variety of hospitals in order to deliver excellent customer service to accommodate our residents.

Under the new administration, we have returned to certifying all paramedics with Advanced Cardiac Life Support Certification (ACLS) and Pediatric Advanced Life Support (PALS). This effort is the main reason why we have successfully converted eight cases of Sudden Cardiac Arrest over the last three years and delivered a baby in the squad this summer!

The UHFD was awarded the prestigious “*2021 Lifeline EMS Gold+ Plus Recognition Award*”, which is presented to Emergency Medical Squads for Excellent Care of Cardiovascular Patients by the American Heart Association. The Gold Standard is awarded to Squads which:

- Aggregated annual compliance ($\geq 75\%$) on applicable Mission: Must have achieved Silver or Gold award in 2020. PLUS, award in an additional level of achievement. A base level bronze, silver or gold must be achieved to earn the PLUS achievement.

Mission: Lifeline EMS Recognition Achievement Measures

EMS MEASURE 1:

Percentage of patients with non-traumatic chest pain/ACS symptoms in patients ≥ 35 years of age, treated and transported by EMS who received a pre-hospital 12 Lead ECG.

EMS MEASURE 2:

The percentage of hospital notifications or 12 Lead ECG transmissions suggesting a STEMI alert (or Cardiac Cath Lab Activation) that are performed ≤ 10 minutes of the first STEMI positive 12 Lead ECG in the field.





EMS MEASURE 3:

Percentage of patients treated and transported directly to a STEMI Receiving Center, with EMS First Medical Contact to device time ≤ 90 minutes and/or EMS First Medical Contact to PCI ≤ 120 minutes when transporting time ≥ 45 minutes and Door to Balloon ≤ 30 minutes. (When destination facility = STEMI Receiving Center).

EMS MEASURE 4:

Percentage of STEMI patients treated and transported directly to a STEMI Referring Hospital, for reperfusion a) With Door-to-Needle time ≤ 30 minutes OR b) Initial EMS FMC to PCI of the transfer for PCI patients ≤ 120 minutes.

PLUS, MEASURE:

Of the patients who receive a 12 Lead ECG, the percentage of 12 Lead ECG's performed ≤ 10 minutes of EMS First Medical Contact on patients with an initial complaint of non-traumatic chest pain/ACS symptoms are ≥ 35 years of age.

In 2019, the department has returned to the bi-annual standard of certifying all paramedics with Pediatric Advanced Life Support Certification (PALS), Advance Cardiac Life Support (ACLS) and International Trauma Life Support (ITLS). The department continues to offer three paramedics for all EMS calls. This is the highest standard of EMS service available with our current EMS response model. This includes a driver and two paramedics in the rear of the ambulance for medical needs of our patients during transport to the hospital. The paramedics can also now communicate with our medical control hospital via radio, cellphone or computer.

In 2021, the administration recognized the growing trend toward active shooter events and implemented an aggressive training program on how to handle these situations. In 2021, the UHFD certified three members of the department as "Active Shooter Response – Tactical Emergency Casualty Care" (TECC) trainers. UHFD along with University Hospital lead a three-day, multi-jurisdiction, realistic training scenarios to raise the readiness standard and joint response plans of UHFD, UHPD and JCUPD. In addition, the department purchased ballistic gear for our first responding paramedics and streamlined our "major trauma" bag for quick triage tagging and medical care.

The department has been fortunate to have the support and collaboration with University Hospital. The Pediatric Advanced Life Support (PALS) Refresher Class and the International Trauma Life Support (ITLS) was at no cost to the city but provided by University Hospital, our medical control. Also, University Hospitals provided our EMS staff with weekly training programs and drills. Again, this was provided at no cost to our city. In 2021, this translates to 766 man-hours of training. In addition to University Hospital, Cleveland Metro-Health presented an excellent National Registry Recertification Class and skills lab.



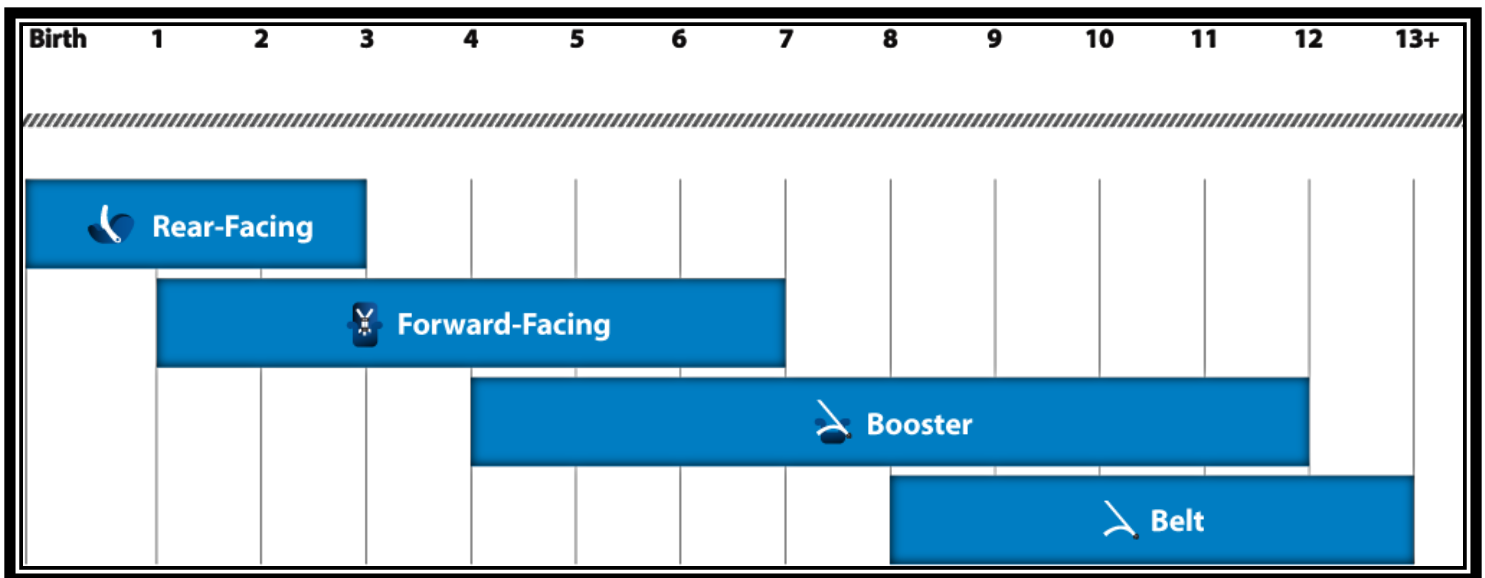
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UHF and University Hospital teamed-up to bring back CPR classes to our citizens. In 2021, we sent three paramedics to become CPR Training instructors. We hope to restart this popular program in 2022 once the COVID pandemic subsides.

An extremely popular service offered by the UHF is the Baby Car Seat Program. The UHF trained 4 members as “Car Seat Technicians” to perform safety check and install infant car seats. This has been an extremely successful program; in 2021 we installed over 17 infant car seats in only 9 months.

For the upcoming year, the department looks forward to continuing to build positive relations with the community and its residence. We look to expand the “Active Shooter Drills” into a regional approach scenario, continue to offer our Car Seat Program and restart our Community Outreach CPR Training Program.

Unfortunately, our biggest challenge for 2022 is the local, regional and global COVID-19 EMS response. In 2021, the UHF transported 101 Covid positive/or suspected positive cases. We are stretched thin with proper PPE equipment and manpower for the ever-increasing response and demand on our medical service team due to this pandemic. I am confident with the cooperation from our established partners, mutual aid agreements and professional UHF staff, we will continue to provide the highest level of EMS care available.





DEPARTMENT TRAINING

SUBMITTED BY CAPTAIN DOUG ROBINSON

Departmental training is at the forefront of what your Firefighters and Fire Officers do each and every day. The career fire service in general, and the University Heights Fire Department specifically, are expected to be proficient in the knowledge, skills, and abilities that may be encountered in any emergency situation. A commitment to training is the only way to ensure that each and every member of your department meet those standards and expectations.

2021, despite the continued challenges presented by the ongoing pandemic, conducted an unprecedented number of fire training drills and evolutions. We took one of our training mottos – “Committed to Excellence” and pressed forward, training multiple disciplines at several sites in and around the city. Highlights from 2021 include:

- **FF Safety and Survival Training** – Wiley Middle School (former) has been a “training ground” thanks to the ongoing relationship between the Fire Department and the Cleveland Heights/University Heights School Board. This training is historically a regional training, with all surrounding cities invited to participate in 3 weeks’ worth of training that focuses on saving our own. Because of the COVID safety protocols in place at the time, the surrounding cities opted out of the training. Nevertheless, all members of the fire department conducted the training on our own.
- **Fireground Operations** – Our ability to train in one of our primary work environments, a residential structure, is extremely limited due. Lacking a dedicated training facility, we are always seeking opportunities to use acquired structures or houses slated for demolition. Through the use of a smoke generator, we were able to create a smoke-filled environment that reduces visibility. This year, we were able to take advantage of 2 different sites to conduct this training.
 - Thanks to John Carrol University, and the re-development of their tennis facility, we were able to conduct multiple fireground drills. Some of the skills we worked on were:
 - Search and Rescue - interior





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- Tactical hose line advancement
 - Vent, Enter, Isolate, Search (VEIS)
 - Ground Ladder selection and placement
 - Forcible entry
 - Incident command
- Several houses in the S. Green/Summerfield area were part of a project that will result in the addition of a new Synagogue in the city. Prior to the demolition phase of the project, thanks to Rabbi _____? _____ and _____? _____ Synagogue, we were able to conduct several training evolutions over a 3 day period including:
- Forcible entry
 - Fire Attack and hose line advancement
 - Aerial Operations
 - Primary Search
 - Vent, Enter, Isolate, Search (VEIS)
 - Ground ladder selection and placement



- **Aerial Training** – Tower Ladder 1121, purchased and placed in service early in 2020, is a centerpiece of the department, both operationally and for training. This aerial apparatus affords us the opportunity to perform critical functions on the fireground in our city, as well as mutual aid to our neighbors. Virtually all training hours completed this year were connected to the use of the aerial or the equipment carried in the compartments. Topics covered this year include:
- Driver/Operator
 - Aerial Operations
 - Ground Ladders
 - Fire Attack and hose line advancement
 - Vehicle extrication and stabilization
 - High Rise operations
 - Elevated master streams





- **Incident Command Training**

– University Heights is part of a consortium known as “Heights Command Training Center”, which exists to train and equip participants in Incident Command. UH instructors participated in 2 classes in 2021, training 24 members of UH and surrounding communities. Each class consisted of 24 hours of simulation-based instruction, resulting in our members being certified as Incident Commanders under the Blue Card Incident Command Curriculum.

- **Forcible Entry** – Another joint effort between University Heights, Shaker Heights, and Cleveland Heights allowed us to purchase a forcible entry

training prop that is now shared by all 3 cities. UH members completed numerous training evolutions, growing in our ability to use the tools at our disposal to gain access to locked doors.



All training listed to this point is “in-house”, planned, developed, and implemented by our fire instructors, fire officers, and training officer. Without the support of the fire department administration, city administration, and members of the community, this training would not have been possible.

In addition to the in-house training, members of the department also participated in numerous offerings from outside sources including Tri-C, Ohio Fire Academy, Bowling Green University, National Fire Academy, and various on-line courses. Consistent with the struggles all of us have encountered during the COVID-19



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pandemic, these courses shifted their class venue to a virtual one. Our members, committed to bettering themselves, sought out these opportunities. Courses that our members participated in this year include:

- Maxwell's 21 Laws of Leadership
- Fire Officer 1
- Fire Officer 2
- ICS 300 and ICS 400
- Preparations for Initial Company Operations (PICO)
- Decision Making for Initial Company Operations (DMICO)
- Strategies and Tactics for Initial Company Operations (STICO)
- Rapid Intervention Team Tactics (RIT)

Despite all of the challenges presented this year, our members completed **12,034 hours of training**, the highest documented total number of training hours to date. Included in this total are the following training categories:

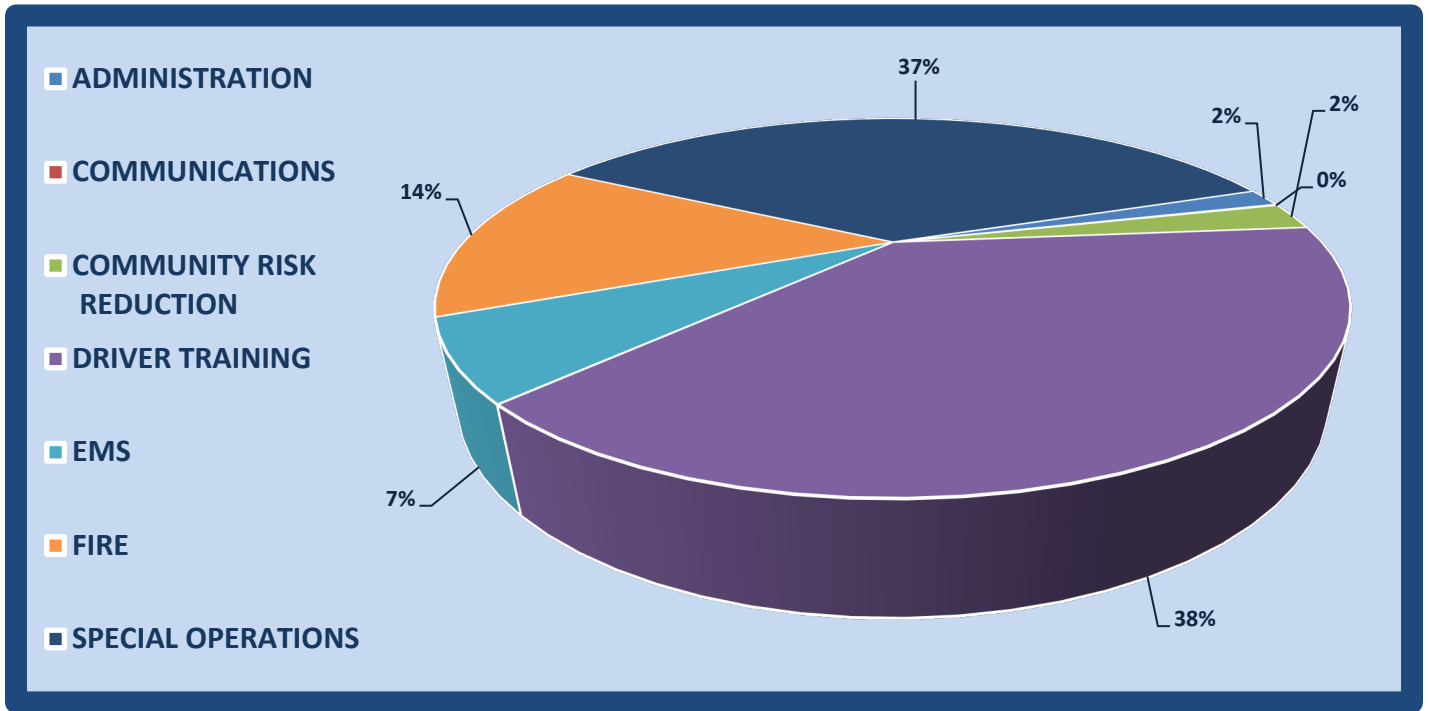
- Administration
- Community Risk Reduction/Fire Prevention
- Driver training
- EMS
- Fire
- Special Operations

What is abundantly clear, reflecting back through 2021, is that the Firefighter/Paramedics, Fire Officers, and Administrators are committed to providing the highest quality service, and the most proficient, professional fire service in the area. The 2021 University Heights Fire Department, through training and education of all its members, continues to be **“Committed to Excellence.”**





TOTAL TRAINING CLASSES FOR 2021



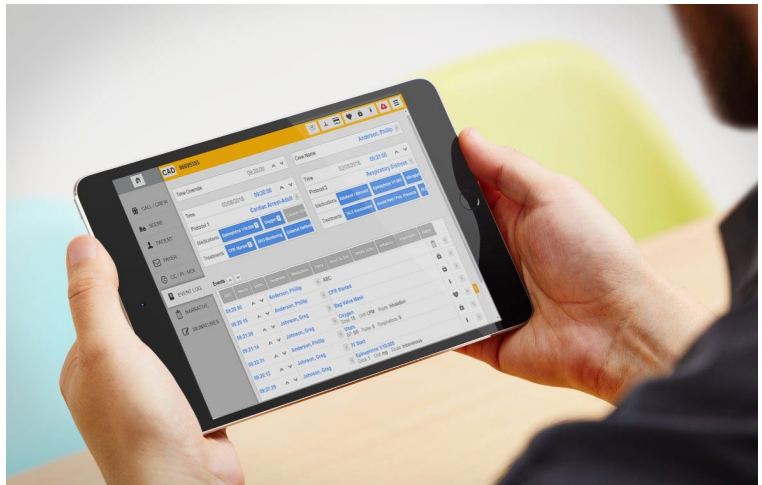


INFORMATION TECHNOLOGY (IT)

SUBMITTED BY LIEUTENANT CHRIS CALO

In the area of information technology, the challenges we faced in 2020 continued into 2021 and the cloud-based Fire and EMS reporting solutions we have relied on for the past three years continue to serve us well. The increase in data to input and process has been handled efficiently by the Windows and iOS applications we are using. Retaining all department documents in electronic form has provided the added benefit of enhanced security and protection for a variety of sensitive and important information.

Electronic reporting is accomplished using two cloud-based products. First, Emergency Reporting is meeting our needs for fire incident reporting and overall fire station record management. This includes inspection reports generated by the Fire Prevention Bureau, Fire and EMS training records, vehicle and equipment maintenance records, and asset tracking of all other tools and equipment used



by the Fire Department. Second is HealthEMS, a cloud-based product specifically designed for EMS reporting. This platform ensures secure retention of medical records and HIPPA compliance while providing the proper information for accurate billing of EMS transports. Support for this product is provided by University Hospitals as part of their ongoing training and medical direction for our EMS crews.

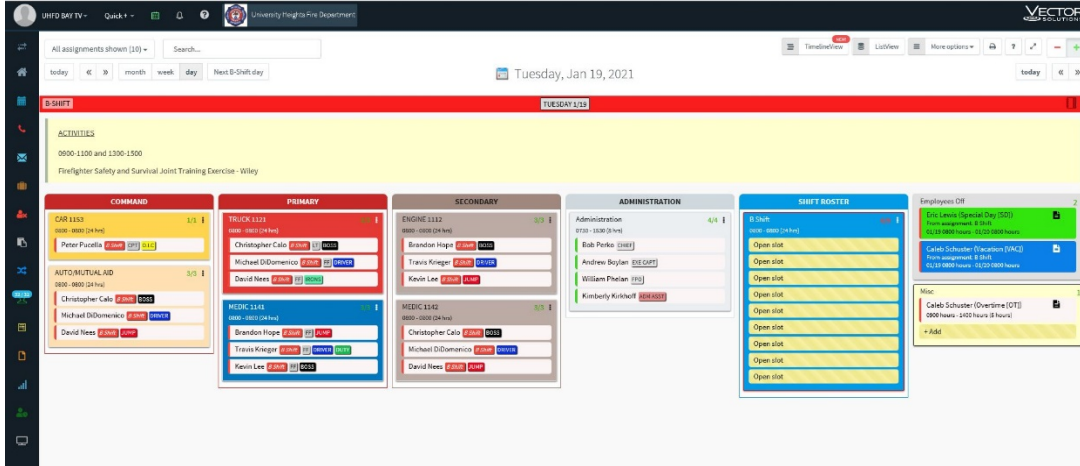
These two are enhanced by the use of the following additional specialty cloud based solutions; Active911, StreetWise, CrewSense, Halligan, and Lexipol. Active911 along with the iOS based Streetwise has been valuable for providing crews quick access to accurate call locations and mapping. This is accessible to responding crews in all of the department vehicles.



The StreetWise application has allowed us to replace costly Mobile Data Terminals (MDTs) with less expensive but more responsive and efficient iPads that interface directly with our dispatch system at the Heights Hillcrest Communications Center.

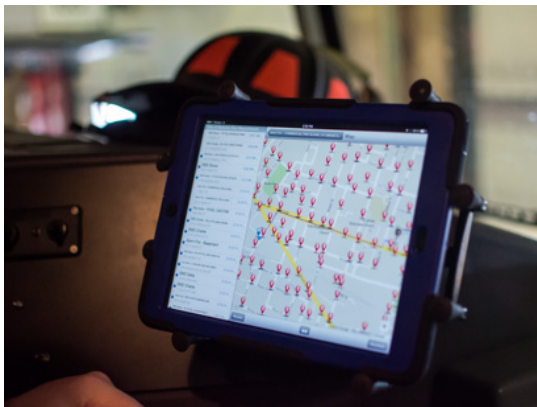


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CrewSense is another cloud-based solution that has allowed us to handle staff scheduling, payroll, and daily planning with one product. Also used on the iOS devices, Halligan is used to complete daily vehicle checks, which

makes equipment tracking and repair even more efficient. It also integrates directly with Emergency Reporting that we use for fire record management.



We have continued to expand the use of these applications with the use of StreetWise for pre-fire planning, and the use of Emergency reporting for completing home fire safety inspections.

Lexipol is a policy management program that allows us to ensure our policies are uniform and consistent with Ohio law and all current statutes and contracts. Lexipol is also web-based and allows access anytime from home, the station, or in the field.

Within the Fire Station / City Hall building, we have continued to work with city IT vendors to maintain the citywide email system and make greater use of the city server for storage and sharing of department documents. With the network now connecting all of the departments, we have been able to work with the technicians from Starfish Computer to upgrade and secure our part of the network without compromising usability. To keep running at peak efficiency, we continue to follow a hardware replacement plan based on best industry practices. This has all but eliminated hardware failures, emergency repairs, and down time inherent with reliance on outdated and obsolete equipment.

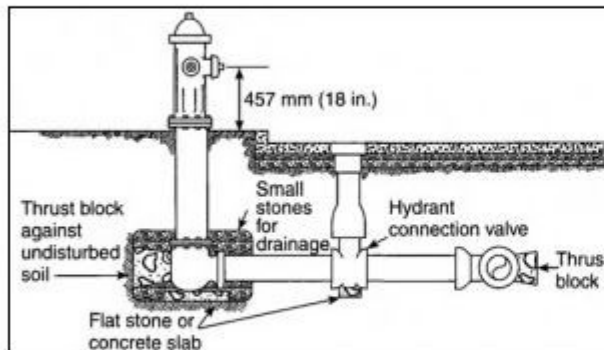


WATER SUPPLY

SUBMITTED BY LIEUTENANT JOHN NOVOSIELSKI

University Heights has 541 fire hydrants within the city. It is the fire departments responsibility to maintain them. Every hydrant is flushed twice a year to ensure its readiness. All hydrants are inspected, operated, and maintained by flushing, lubricating, and checking each one for proper operation. All fire hydrants are also visibly inspected for damage and proper drainage. If any deficiencies are found, they are noted and reported. Cleveland Water, or their contractor, handles the repair or replacement work. Hydrants that are not operational are followed up with to make sure they are returned to service as soon as possible. Upon completion of the fire departments maintenance, the results are recorded in Emergency Reporting software. Our flushing and flow testing procedure complies with NFPA 291 standards.

What our Maintenance, Testing & Certification Provides



ANNUAL FIRE HYDRANT OPERATION TEST

Test whether the hydrant(s):

1. stems and valves fully operate, open and close freely, and have the proper lubrication.
2. caps, seals and threads are undamaged.
3. which are subject to vehicular damage, are provided physical protection.
4. has a minimum of 36 inches of clear space around all hydrants.
5. outlets are between 14 & 24 inches above grade. Standpipe

outlets need not be a specific height, but must be readily accessible.

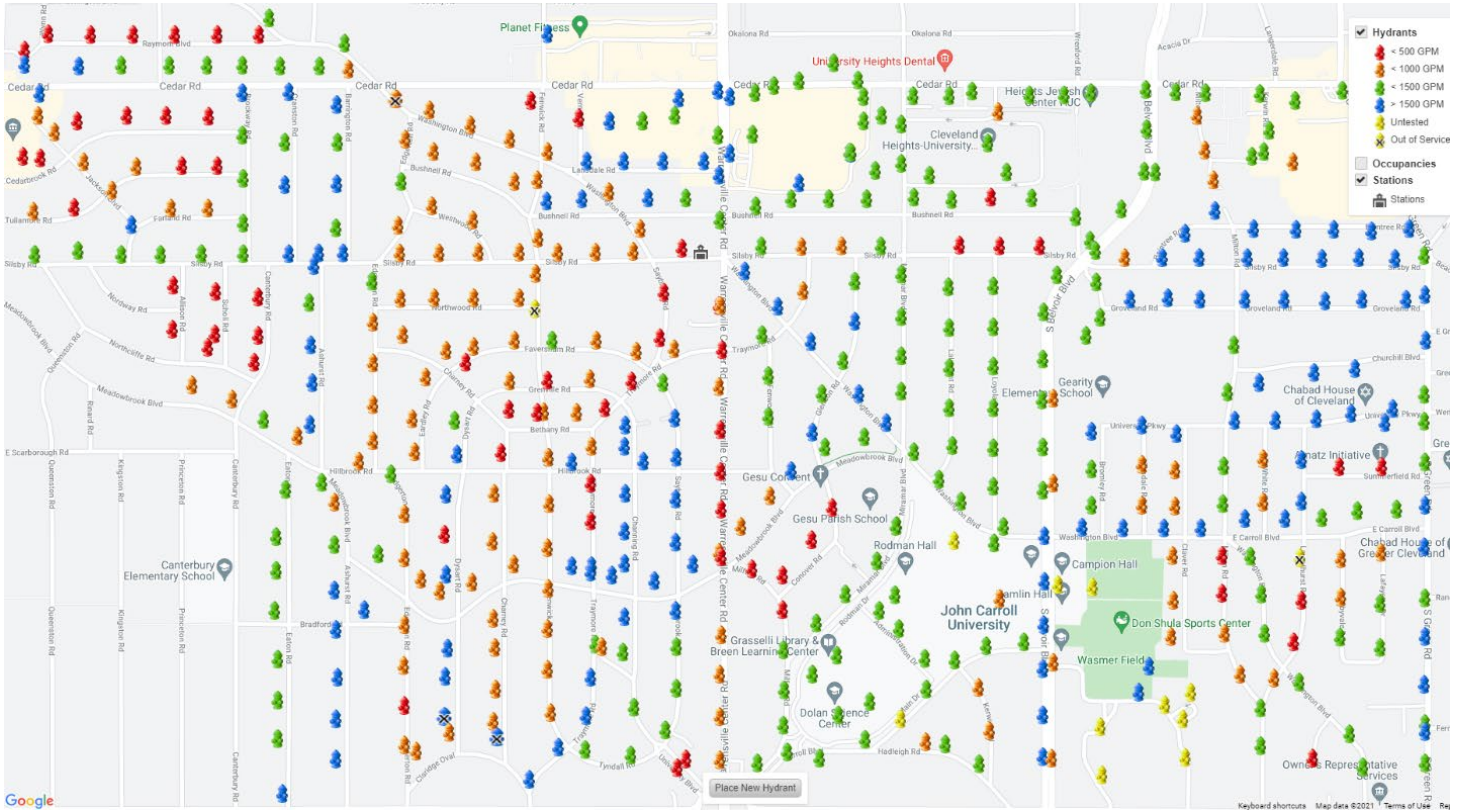
6. is clearly identified or marked for easy location in an emergency.

In 2021, the department performed a city-wide flow test of the fire hydrants. Flow testing is a procedure where the fire department uses specialized equipment to calculate the flow, pressure, and volume of water available at each hydrant. The information obtained from a flow test is used to help determine areas where there is a low flow of water available. This could be caused by deteriorating water mains, closed valves, or faulty hydrants. Having this information readily available to the fire department can prove valuable. For example, at a large-scale incident where a lot of water is needed, knowledge of the location of the high flow hydrants can make a difference in the outcome of the incident. This knowledge is at the fingertips of the OIC

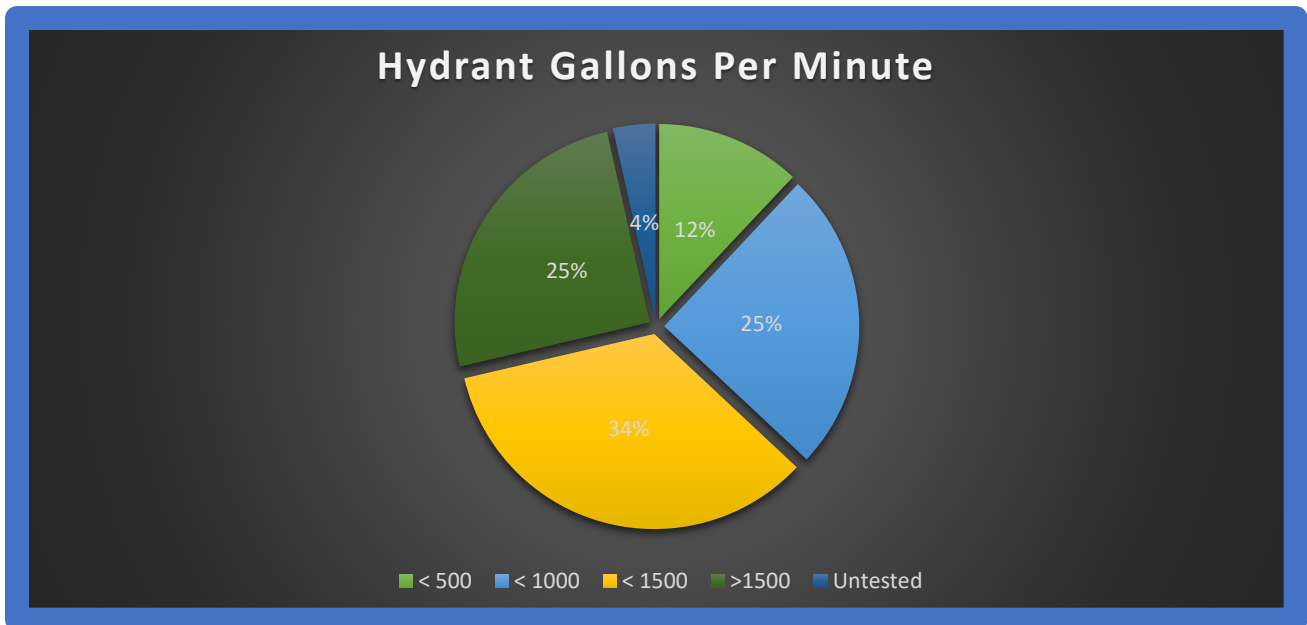


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and officers in the fire trucks. Each truck has an iPad that runs a program called StreetWise. This program gives the address of the emergency along with other valuable information. Some of this information includes a map of the city with all the hydrants. The hydrants are color coated as to their rated flow capacity. This makes it easy to be referenced in the event of an emergency. Below is an example of this map:



Percentage of hydrant flows are:





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Some of the hydrants were not able to be tested due to the fact that they are on private property or they were found to be inoperable. In 2021, 5 hydrants were found to be inoperable and 3 have been repaired to this point.

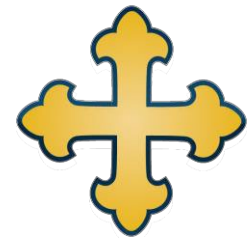




HEALTH & SAFETY

SUBMITTED BY LIEUTENANT KEVIN VONHAZ

A wellness program was initiated in 2016 as a collaborative effort with John Carroll University (JCU). The goal was to support firefighters in pursuing a healthier lifestyle and reduce injuries and illness. This program was continued in 2021 and all members participated, including Chief Perko, Executive Captain Boylan, FPO Phelan, and Administrative Assistant Kim Kirkhoff. Members were tested on physical strength, flexibility, cardiovascular endurance and the ascertainment of each member’s VO2 Max - the maximum volume of oxygen consumed under increasingly intense exercise. Each member’s results are recorded and used as research for JCU. Recommendations were then given to each participant based on their needed areas of improvement. The results for the 2021 Fitness Program are as follows:



2021 University Heights Fire Department Fitness Data Report

Basic Demographics

The following report is based on data from assessments performed in May 2021. All eligible and medically cleared individuals performed all of the appropriate assessments, and the data presented include averages for the entire population. This data will be accompanied with comparison to available normative data, as well as my own interpretations and general recommendations. As always, this report will also include an analysis of trends and significant changes from 2016 to 2021, with the caveat that some testing in 2020 was altered due to COVID-19 related restrictions, and will be noted in the narrative of this report when necessary.

Average resting heart rate was within the normal range (60-80 bpm), consistent with 2020. Average resting blood pressure (both systolic and diastolic) significantly decreased from 2020 to 2021, returning within pre-pandemic levels. While this is a good trend, and one we hope to see continue, the average resting blood pressure is still above the optimal range (less than 120/80 mmHg) as recommended by the American Heart



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Association (see figure below). As always, we encourage all members of the department with elevated resting blood pressure measurements to monitor throughout the year and discuss with their primary care physician.

Basic Demographics	
Age (years)	41
Resting Heart Rate (bpm)	74
Resting Blood Pressure (mm/Hg)	126/79

Body Composition

In 2021, we observed an overall increase in Body Weight (lbs), Body Mass Index (BMI), Percent Body Fat (%), Waist Circumference, and Waist-to-Hip Ratio, which continues the trend that we have been observing for body composition since 2016.

The average Body Mass Index (BMI) increased again in 2021 to 30.0 kg/m², officially crossing over into the “Obese Class I” category (BMI ≥ 30.0 kg/m²), solidifying the trend we have been observing over the last 5 years. Additionally, we continue to see that this is an issue that effects the vast majority of membership with over 90% of individuals falling into the “Overweight” and “Obese” categories (BMI ≥ 25.0 kg/m²). Even more concerning, is the nearly half (48.4%) of the members that falls into the “Obese” category (BMI ≥ 30.0 kg/m²), which has continued to rise each year and is up from 36% in 2018.

Body Composition	
Weight (lbs)	205.1
Body Mass Index (kg/m ²)	30.0
Body Fat %	23.0
Waist Circumference (cm)	99.1
Waist-to-Hip Ratio	0.91

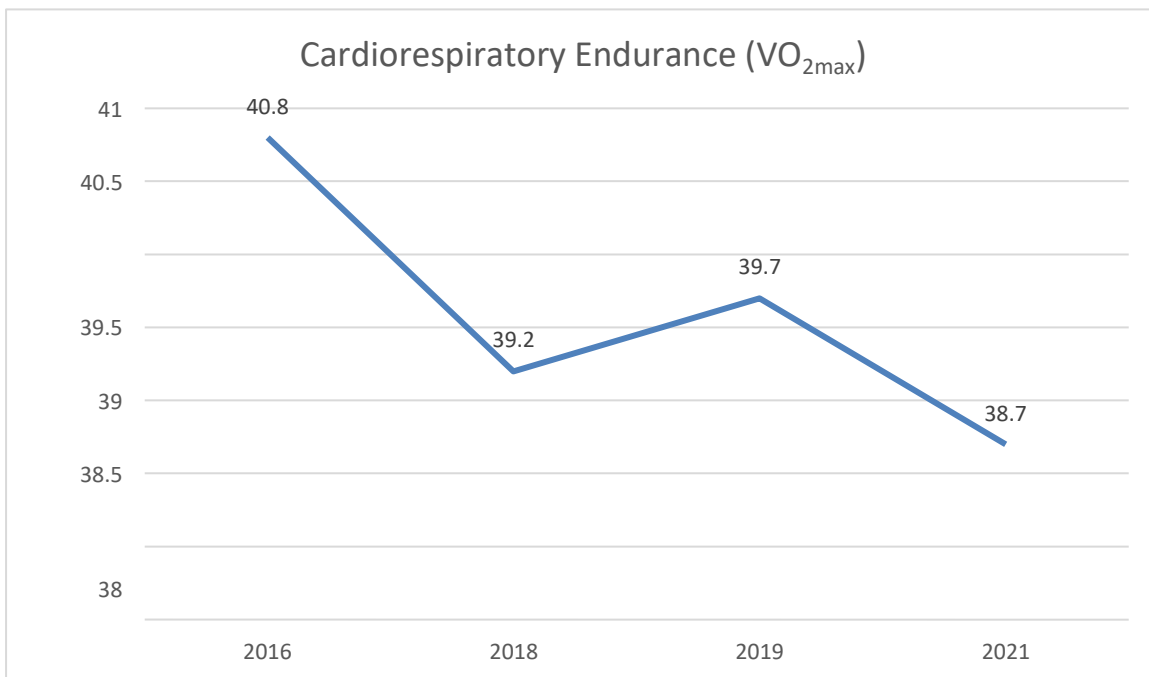
In summary, weight management is an area that we have been monitoring over the past four years. However, it has become very apparent that “potential trends” have persisted and weight management is an area of concern moving forward, with the data presented here largely approaching or exceeding values associated with higher risk for chronic disease development (*BMI > 30.0 kg/m²; Body Fat % > 20%; Waist Circumference > 100cm; Waist-to-Hip Ratio > 0.90*).



Cardiorespiratory Endurance

As previously mentioned, 2021 allowed testing to return to normal with the lifting of COVID- 19 related restrictions, allowing us to resume highly accurate assessment of cardiorespiratory endurance. The average VO_{2max} in 2021 was **38.7 mL/kg/min**, which is slightly lower than in previous years, as evidenced in the table below. As we expect that the step test protocol used to assess cardiorespiratory endurance in 2020 overestimates VO_{2max} , we did not include it in the presentation of data this year. Further, research has indicated that a VO_{2max} of 41.0 mL/kg/min is needed to perform the job of being a firefighter safely

In summary, cardiorespiratory endurance appears to be on the decline. Aerobic training may be of continued importance moving forward to maintain the health and safety of the firefighters, as well as a tool for weight management that may be of concern as addressed in the previous section.



Muscular Strength and Endurance

As in previous years, the fitness category in which the department excels is muscular fitness! The average number of push-ups completed during the push-up test was 34, which for any age places the group average in the “very good” or “excellent” for upper body muscular endurance, and is consistent with past years. The Curl Up test also showed favorable results with an average of 55, placing the group “above average” category for most age groups. Total Hand Grip Strength, representative of total body strength,



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yielded similar results placing the group average into the very good and excellent categories for all age groups. Finally, the vertical jump test was used to assess lower body strength and power production, necessary to complete quick and explosive activity safely, yielding an overall “above average” result of 22.2 inches, which is also consistent with peer data. For all muscular fitness assessment, there were not statistically significant changes from 2020 to 2021.

Muscular Strength and Endurance	
Push Ups	34
Curl Ups	55
Total Hand Grip Strength (kg)	107.1
Vertical Jump (inches)	22.2

Flexibility

The average for the sit and reach test of lower back and hamstring flexibility was 16.0 inches, which for most ages is considered average, and is continuing a positive trend for increasing low back and hamstring flexibility. Continued improvement in this area can reduce the risk of lower body and low back injury in the future. On the other hand, the average for the back-scratch test of shoulder flexibility was part of a continued downward trend for shoulder flexibility. It is still important to note that while shoulder flexibility continues to be on a downward trend, these values are already in the “Poor” fitness category and is a potential area for focus and improvement for the future. Further, if upper body strength continues to increase, but flexibility continues to decrease, members are potentially at an increased risk for shoulder injuries.

Flexibility	
Sit and Reach (in)	16.0
Back Scratch L/R (in)	-3.5/-5.0



Candidate Physical Abilities Test (CPAT)

In 2021, 2 UH firefighters completed a voluntary run through of the CPAT, 12 additional SH firefighters completed the CPAT as part of their fitness incentive program. Of the combined 14 members, the average time was 9:33, which was well below the passing time of 10:20.

2 UHFD Firefighters

Average time = 9:33

12 SHFD Firefighters

Average time = 9:32

Passing time is 10:20



GYM & FITNESS EQUIPMENT

Firefighter Jonny Thomas continued to oversee the condition and maintenance of the gym facility and submitted this report on behalf of Lieutenant Kevin Vonhaz. The condition and quality of the gym remains of significant importance for allowing our department to maintain the needed physical fitness to complete the demanding tasks of our job. Scheduled preventative maintenance for our cardio and cable equipment was performed by DealTech per the normal bi-annual schedule. No major repairs were necessary for 2021, and no major purchases of equipment were made.



SELF-CONTAINED BREATHING APPARATUS

Firefighter Joe McGee oversaw the management of the Department's SCBAs (Self-Contained Breathing Apparatus) and submitted this report on behalf of Lieutenant Kevin Vonhaz. One of the most important pieces of equipment a firefighter has is their SCBA. The SCBA is made up of 3 main parts; the bottle, the harness and the face piece. The SCBA is used to enter harmful environments and allow the firefighter to breath clean air for up to 45 minutes. The University Heights Fire Department uses the Scott X-3 SCBA packs. The department currently has 17 harnesses and 27 cylinders. Each member is issued his own face piece assigned to him and is fitted for it annually.



In 2021, no new major purchases were made. Yearly, each SBCA is flow tested by a professional at Warren Fire to make sure that each is working properly. All 17 packs passed their yearly check and only a few minor repairs were needed.

PERSONAL PROTECTIVE EQUIPMENT

During 2021, Lieutenant Kevin Vonhaz and Firefighter Nicholas Alhassani oversaw the management of the Firefighter PPE (Personal Protective Equipment) and submitted this report on behalf of Lieutenant Kevin Vonhaz. Firefighter PPE (Personal Protective Equipment) is the gear that is worn by a firefighter on all emergencies and can weight in excess of 45 lbs. Firefighter PPE includes helmets, Nomex hood, turnout coat, turnout pants, firefighting boots, and firefighting gloves. Under the NFPA (National Fire Protection Association) 1851, fire departments must develop written standard operation procedures that describe the components of the program and define the roles and responsibilities of the organization and its members. Specifically, NFPA 1851 establishes the criteria you need to follow when setting up a program to reduce potential safety and health risks related to poorly maintained, contaminated or damaged protective ensembles and ensemble elements.





Program components covered by the standard are:

- **Selection**
- **Inspection**
- **Cleaning and decontamination**
- **Repair**
- **Storage**
- **Retirement**
- **Record Keeping**

Over the summer of 2021 Lieutenant Vonhaz and Firefighter Alhassani explored options of purchasing new turnout gear. Our previous supplier was through Morning Pride, over the past 10 years Morning Pride PPE has been an excellent and reliable choice for our department. We spent time at the Fire Dex manufacturing plant in Medina Ohio, reviewing the entire process from the initial order to the completed product. Impressed by this process and the increased protection available through Fire Dex turnouts we chose to trial two new sets. Spending time with Fire Safety Services representative Julie Thomas and department personnel we were able to culminate a new spec of gear that was suited best for our specific tactics.

There are two main data points looked at when reviewing turnout gear. THL (Total Heat Loss) is the breathability of the garment, how light and thin is it. TPP (Thermal Protective Performance) how thick the garment is and how much protection does it offer. The inverse relationship between these two numbers effect performance. The increase of TPP causes the THL to decrease and vice versa. Reducing the protection means the fire fighter is able to move more freely and able to work with less resistance, but increasing the protection means the firefighter is more restricted and uses more energy to complete a task.

Our current Morning Pride specs were a THL of 300.2 and a TPP of 38.9, NFPA 1971 requires a minimum TPP of 35 and a minimum THL of 205. Our current spec far exceeded those minimum requirements but there was room for improvement. With the Fire Dex spec we were able to increase THL (347.7) and only slightly decrease TPP (37.5) with a cost savings and a local company producing the garments.

A gear replacement program was implemented with the intent to allow each member a second set of turnout gear their entire career. Providing two sets of gear allows the members to be able to respond with fresh clean gear on every response. The program will consist of replacing 6 complete sets of gear, including hoods, fire gloves and extrication gloves. In 2021, 6 complete sets of Fire Dex gear to replace current members expiring or soon to be expiring gear, as well as a new probationary firefighter and the two sets of wear trial gear.



HEIGHTS-HILLCREST TECHNICAL RESCUE TEAM

2021 YEARLY REPORT

BY: TEAM LEADER, BC PATRICK KEHN (CHFD)

Established 2017

Serving the Communities of Beachwood, Cleveland Heights, Euclid, Gates Mills, Highland Heights, Lyndhurst, Mayfield Heights, Mayfield Village, Pepper Pike, Richmond Heights, Shaker Heights, South Euclid, University Heights, Willoughby Hills and all Chagrin Southeast Communities

2021 was another successful year for our team. Our team provides special rescue services to all of eastern Cuyahoga County, as well as, the city of Willoughby Hills. The Heights-Hillcrest Technical Rescue Team provides special rescue services in the following disciplines; Rope Rescue, Confined Space, Trench Rescue, Structural Collapse, and Water Rescue. The rescue team is comprised of, 83 specially trained firefighters from each of our member communities. By utilizing this regional approach, the team is able to provide specialized services that no one city could provide by themselves. Our team's specialized equipment is housed on five, Rescue Trucks, which are placed in fire stations throughout our service area. The team provides reciprocal rescue services to the Chagrin/Southeast communities in exchange for their Hazardous Material response capabilities. In addition to local training and emergency responses, the Heights – Hillcrest Rescue Team works closely with the Ohio Region 2, USAR Team, the Ohio Region 2, Water Rescue Team, Southwest Emergency Response Team, and the Westshore Technical Rescue Team, which serve the west side of Cleveland. Our teams' annual budget is \$84,000, which is funded by contributions from our member communities. This funding is used to maintain and improve our specialized equipment, as well as provide training for our team members.

There was a total of 16 team call outs in 2021. These callouts involved six structural collapse calls, five water rescue calls, and five rope rescue calls. All of our calls are rewarding, but our most successful call this year occurred in Richmond Heights, where we rescued two elderly residents from a ravine.

The team holds monthly training sessions for our team members, which help maintain our technical proficiency. These trainings provide invaluable experience to our members, and assures





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that our team is always ready to respond to any situation we are called for. In 2021, we held all of our 12 regular training sessions. In addition to these scheduled drills, team members participated in numerous outside training opportunities. Some of these outside opportunities included swift water classes sponsored by the Region 2 Water Team, Advanced rope classes in Cleveland, dive rescue classes taught by Dive Rescue International. We also were able to send 10 of our team members to Virginia Beach for the Structural Collapse Technician class.



The Heights - Hillcrest Technical Rescue Team requires that all of our members are certified as Rescue technician's, in all rescue discipline's, with the exception of Rescue Diver. We continue in our efforts to achieve this goal. The team currently has 11 Rescue Divers, and we are working on expanding this pool. The teams' commitment to training, allows our members to operate safely, effectively, and efficiently in extremely hazardous situations.

We appreciate the continued support of the Heights – Hillcrest Fire Chiefs', and will strive to provide exceptional services to the communities that we serve. Without the full support of these Chiefs', none of this would be possible.

2021 Callouts

DATE	CITY	TYPE OF CALL
5/27/2021	Euclid	Structural Collapse
6/5/2021	Independence	Water Rescue & body Recovery
6/8/2021	Euclid	Rope Rescue – Slope Evacuation
7/8/2021	Willoughby Hills	Rope Rescue & Body Removal
7/16/2021	Maple Heights	Structural Collapse
7/18/2021	Bedford	Water Rescue & Body Recovery
7/18/2021	Bedford	Water Rescue & Body Recovery (cancelled)
9/27/2021	Willoughby	Structural Collapse
10/24/2021	Cleveland Heights	Structural Collapse
11/16/2021	Solon	Body Recovery/Water Rescue/Dive
11/16/2021	Cleveland Heights	Bariatric Rope Rescue
11/20/2021	South Euclid	Structural Collapse
11/22/2021	Richmond Heights	Rope Rescue – Ravine
12/8/2021	Willoughby	Structural Collapse
12/10/2021	Mill Creek–Cleveland Metroparks	Dive/Rope/Wide Area Search
12/23/2021	Lakewood	Structural Collapse



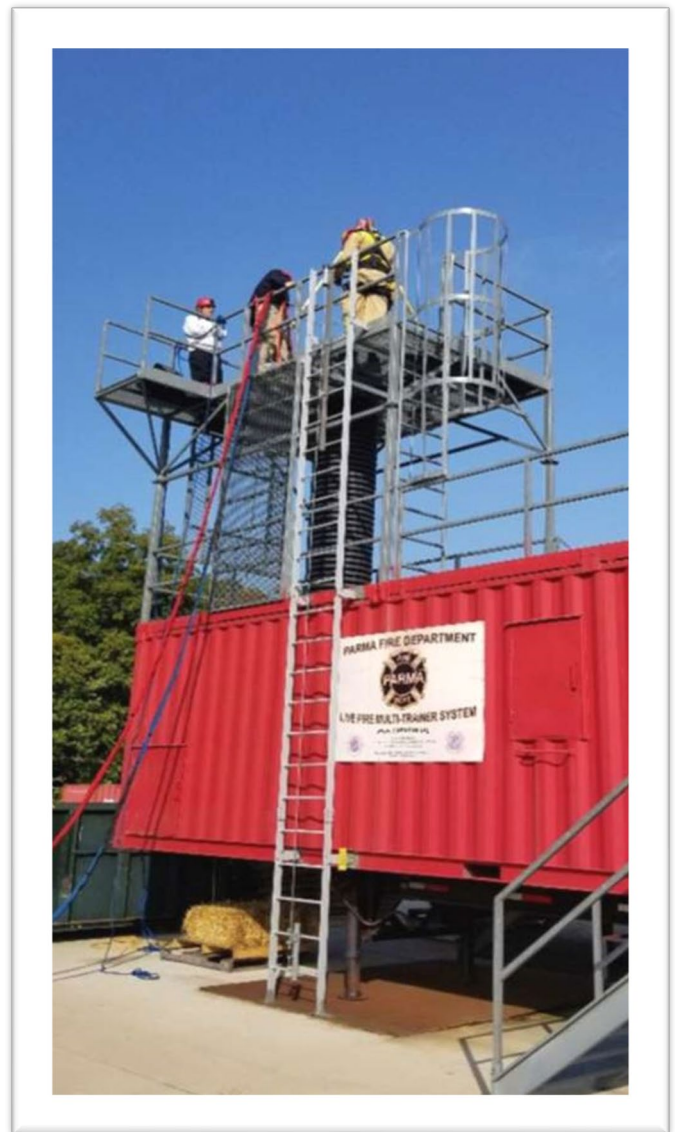
HAZMAT TEAM



We continue to exchange services and train with the Hillcrest Technical Rescue Team and the Heights Area Special Rescue Team. We provide their communities with hazmat emergency response and they provide our communities with technical rescue response.

Proudly Serving the Communities of:

<i>Bainbridge Twp</i>	<i>Highland Hills</i>	<i>Pepper Pike</i>
<i>Beachwood</i>	<i>Hunting Valley</i>	<i>Richmond Hts</i>
<i>Bedford</i>	<i>Lyndhurst</i>	<i>Russell Twp</i>
<i>Bedford Heights</i>	<i>Maple Heights</i>	<i>Shaker Heights</i>
<i>Chagrin Falls</i>	<i>Mayfield Hts</i>	<i>Solon</i>
<i>Cleveland Hts</i>	<i>Mayfield Village</i>	<i>South Euclid</i>
<i>Euclid</i>	<i>Moreland Hills</i>	<i>South Russell</i>
<i>Garfield Heights</i>	<i>NEORS D</i>	<i>University Hts</i>
<i>Gates Mills</i>	<i>North Randall</i>	<i>Walton Hills</i>
<i>Glenwillow</i>	<i>Oakwood</i>	<i>Warrensville Hts</i>
<i>Highland Hts</i>	<i>Orange</i>	<i>Woodmere</i>





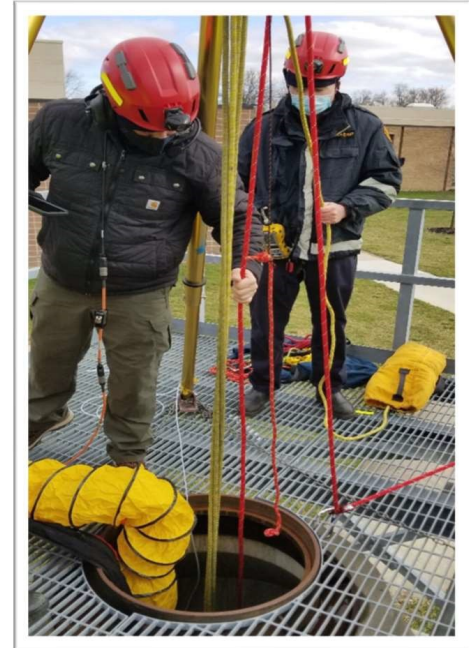
Hazmat Team Organization and History

The Chagrin / Southeast Hazmat Response Team was formed in 1990 by the Chagrin/Southeast Council of Governments to assist local fire departments in responding to incidents involving industrial chemicals.

The team has since evolved into a regional asset which responds 24/7 to incidents involving hazardous materials in transportation, storage and industrial facilities.

In addition, the team is responsible for responding with law enforcement and bomb teams to incidents involving drug synthesis labs, explosives labs and potential terrorism incidents.

The team consists of 28 specially trained firefighters certified as Hazmat/WMD Technicians. In addition, 5 of our members are trained as Hazmat Specialists with intensive training in Rail Tank Cars, and/or Highway Cargo Tanks. Every hazmat team member has completed hundreds of hours of training in chemical identification, instrumentation, packaging, chemical and physical properties of materials, chemical protective clothing, spill control and fire control.



In 1995, the team also began responding to Confined Space Rescues. The team purchased extensive technical rescue equipment and conducted training of all its members to the Confined Space Rescue Technician level to meet the challenge.

In 1999, prior to the events of Sept 11, 2001, the Chagrin/Southeast Hazmat Team began special Domestic Preparedness training for response to terrorist incidents. All of our team members are currently trained as WMD Technicians, and all of our team members have attended specialized federal training centers to learn about response to terrorist bombings, chemical weapon attacks, biological weapons and radiological attacks.



Since the terrorist attack of 2001, the focus of the team has changed. More than half of our training and much of our equipment is specific to terrorism response. Our team members have adapted well to this challenge and we along with the other hazmat teams in our county, are prepared to defend our communities against the unthinkable.

Our team maintains close relationships with the other hazmat teams of Northeast Ohio. We have mutual aid agreements with Lake County, Portage County, Summit County, Westshore Hazmat, and Southwest Emergency Response Team and have close working relationships with the City of Cleveland and the Geauga County Hazmat Team.

We continue to work jointly with the East Tech Technical Rescue Team. We provide their communities with hazmat emergency response and they provide our communities with technical rescue response. This regional approach to hazmat and WMD response, as well as technical rescue, is cost-effective, maintains a high skill level and insures our communities are ready to respond.

In 2010, our team joined with the Cleveland Fire Hazmat Team, Southwest Emergency Response Team and the Westshore Hazmat and Technical Rescue Team to form a new Cuyahoga County Type 1 Hazmat/WMD Response Team. This team is made up of select members of each of the four teams who will respond to terrorism and large-scale incidents throughout the state of Ohio.



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In August 2010, the Ohio Hazmat Technical Advisory Committee conducted a Team Typing verification visit to inspect the four county hazmat teams and the newly formed Cuyahoga Type 1 Team. At that time, we were jointly verified as a Type 1 Hazmat/CBRNE Response team and serve as one of the specialized terrorism response teams in the Ohio Fire Emergency Response Plan.

The Chagrin/Southeast Hazmat Team was verified independently as an Ohio Type 2 Hazardous Materials Response Team by the Ohio Hazardous Materials and Decontamination Technical Advisory Committee. We are a regional response team for the Ohio Fire Emergency Response Plan.

Current Operations

Although the team is governed by the Chagrin/Southeast Council of Governments, the day-to-day operations are run by the Hazmat Committee. It is comprised of the fourteen fire chiefs who serve the region, as well as the team coordinator and representatives from hospitals, police departments and service departments.

The team is staffed with cross-trained firefighter/paramedics with an interest in hazardous materials and weapons of mass destruction emergency response. We also partner with Northeast Ohio Regional Sewer District who provides investigators with technical expertise for our responses.

When a fire department needs the special skills and equipment of the Haz-Mat Team, they contact our dispatch center and the team is paged out.



Various levels of response are available based upon the product and the nature of the incident. Team members use specialized detection and identification tools, including high tech meters and instruments. They wear chemical protective clothing and "suits" to allow the option of offensive tactics. They can utilize specially designed equipment for plugging, patching, neutralizing, collecting, stopping, reducing or mitigating the hazards of the incident.



Hazmat Incident Log - 2021

<u>SUMMARY</u>	<u>Incident Communities</u>	<u>Incident Types</u>
HCO Phone Consultations 6	South Euclid - 1	• Chlorine Gas Reaction
Limited Team Responses 9	Euclid - 2	• Methamphetamine Lab
Full Team Callouts 3	Warrensville Hts. - 1	• Unknown liquid in creek
TOTAL INCIDENTS 18	Russell Twp. - 1	• Radiological source found
	Garfield Hts. - 1	• Unknown white powder
	Moreland Hills - 1	• Clandestine drug lab
	Lyndhurst - 1	• Zinc Sulfur Fire in school lab
	Mayfield - 1	• Diesel Fuel - Overturned truck
	Maple Hts. - 3	• Explosive Precursors
	Oakwood - 2	• Electrical Substation fire
	Orange Village - 1	• Aziridine Polymer spill
	Pepper Pike - 1	• Diesel Fuel - fire
	Solon - 2	• Unknown liquid
		• Mercury spill





HIGHLAND HEIGHTS FIRE DEPARTMENT

HILLCREST-HEIGHTS REGIONAL FIRE INVESTIGATION UNIT

2021

The Hillcrest Regional Fire Investigation Strike Force was created in 1997 to assist our membership with the determination of fire origin / cause within each respective community. The team later expanded in 2018 / 2019 to include the cities of Cleveland Heights, Euclid, Shaker Heights, and University Heights. The fire investigation unit has been renamed Hillcrest-Heights Regional Fire Investigation Unit (HHRFIU) to better-reflect all communities our membership.

The HHRFIU functions with a roster of (42) fire investigators proudly serving the following (13) communities:

- Beachwood
- Cleveland Heights
- Euclid
- Gates Mills
- Highland Heights
- Lyndhurst
- Mayfield Heights
- Mayfield Village
- Pepper Pike
- Richmond Heights
- South Euclid
- Shaker Heights
- University Heights

There were (13) requests for the Hillcrest-Heights Fire Investigation Unit in 2021:

- | | | | |
|---------------|---------------------|----------------|----------------------|
| 1. 02/17/2021 | Lyndhurst FD | 8. 11/12/2021 | Euclid FD |
| 2. 03/27/2021 | Shaker Heights FD | 9. 11/23/2021 | Richmond Heights FD |
| 3. 04/19/2021 | Shaker Heights FD | 10. 12/11/2021 | Cleveland Heights FD |
| 4. 05/14/2021 | Shaker Heights FD | 11. 12/16/2021 | Cleveland Heights FD |
| 5. 08/03/2021 | South Euclid FD | 12. 12/19/2021 | South Euclid FD |
| 6. 10/16/2021 | Richmond Heights FD | 13. 12/24/2021 | Lyndhurst FD |
| 7. 10/18/2021 | Euclid FD | | |

Of the (13) fire investigation requests listed above - (3) fires involved a fatality. The State Fire Marshal’s office (SFM) takes over all fatal fire investigations, but our HHRFIU investigators remain on the scene to assist SFM investigator(s) while they perform their investigation.

The team normally meets bi-monthly for 2-3 hours of case review and continuing education. As a team, we continuously strive to utilize best-practices and embrace new technologies. This year the team committed to provide our membership with in-house training provided by Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF) agents to utilize the national Bomb Arson Tracking System (BATS) reporting software system. The BATS system was originally developed / used by the ATF, but is now used by Ohio SFM investigators. Utilizing the no-cost BATS software gives HHRFIU investigators the ability to work seamlessly



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with ATF and/or SFM investigators. We now have the ability to combine our investigation data into one unified fire investigation report as well as track arson investigations / trends in our region.

Lastly, HHRFIU would like to thank local Home Depot Store #3842 (manager Scott Sypniewski) for their generous donation of \$1000.00 used towards the purchase of new DeWalt cordless tools, LED lighting, and a portable storage case. Their donation kept HHRFIU under budget for the year despite the rising cost of Personal Protective Equipment (PPE) and re-lettering our truck (Unit 677) to reflect the team's new name.

Respectfully submitted by,

Lt. Timothy J. Nelson

Fire Investigator / HHRFIU Director



2021 INCIDENT TYPE SUMMARY

FIRE

	# OF INCIDENTS	TOTAL PERCENT
Building fire	44	1.83%
Chimney or flue fire, confined to chimney or flue	2	0.08%
Cooking fire, confined to container	43	1.79%
Commercial Compactor fire, confined to rubbish	1	0.04%
Trash or rubbish fire, contained	4	0.17%
Passenger vehicle fire	1	0.04%
Brush or brush-and-grass mixture fire	2	0.08%
Grass fire	1	0.04%
Outside equipment fire	4	0.17%
Overpressure rupture of steam boiler	1	0.04%
Fireworks explosion (no fire)	1	0.04%
Excessive heat, scorch burns with no ignition	18	0.75%
TOTAL	122	5.08%

RESCUE & EMERGENCY MEDICAL SERVICE INCIDENT

	# OF INCIDENTS	TOTAL PERCENT
Medical assist, assist EMS crew	2	0.08%
EMS call, excluding vehicle accident with injury	1291	53.81%
Motor vehicle accident with injuries	49	2.04%
Motor vehicle/pedestrian accident (MV Ped)	2	0.08%
Motor vehicle accident with no injuries.	25	1.04%
Lock-in (if lock out, use 511)	1	0.04%
Search for person in water	1	0.04%
Removal of victim(s) from stalled elevator	4	0.17%
Extrication of victim(s) from building/structure	2	0.08%
Extrication of victim(s) from machinery	1	0.04%
High-angle rescue	3	0.13%
TOTAL	1381	57.57%



2021 INCIDENT TYPE SUMMARY

HAZARDOUS CONDITION (NO FIRE)

	# OF INCIDENTS	TOTAL PERCENT
Hazardous condition, other	1	0.04%
Combustible/flammable gas/liquid condition, other	1	0.04%
Gasoline or other flammable liquid spill	3	0.13%
Gas leak (natural gas or LPG)	25	1.04%
Oil or other combustible liquid spill	1	0.04%
Refrigeration leak	1	0.04%
Carbon monoxide incident	10	0.42%
Electrical wiring/equipment problem, other	7	0.29%
Heat from short circuit (wiring), defective/worn	2	0.08%
Overheated motor	5	0.21%
Power line down	40	1.67%
Arcing, shorted electrical equipment	13	0.54%
Building or structure weakened or collapsed	2	0.08%
TOTAL	111	4.63%

SERVICE CALL

	# OF INCIDENTS	TOTAL PERCENT
Service Call, other	1	0.04%
Lock-out	32	1.33%
Ring or jewelry removal	1	0.04%
Water problem, other	3	0.13%
Water evacuation	1	0.04%
Water or steam leak	15	0.63%
Smoke or odor removal	22	0.92%
Animal rescue	3	0.13%
Public service assistance, other	9	0.38%
Assist police or other governmental agency	8	0.33%
Police matter	1	0.04%
Public service	136	5.67%
Assist invalid	6	0.25%
Unauthorized burning	2	0.08%
TOTAL	240	10%



2021 INCIDENT TYPE SUMMARY

GOOD INTENT CALL

	# OF INCIDENTS	TOTAL PERCENT
Good intent call, other	2	0.08%
Dispatched & cancelled en route	155	6.46%
Wrong location	2	0.08%
No incident found on arrival at dispatch address	10	0.42%
Authorized controlled burning	3	0.13%
Smoke scare, odor of smoke	11	0.46%
Steam, vapor, fog or dust thought to be smoke	10	0.42%
Smoke from barbecue, tar kettle	4	0.17%
TOTAL	197	8.21%

FALSE ALARM & FALSE CALL

	# OF INCIDENTS	TOTAL PERCENT
False alarm or false call, other	1	0.04%
Malicious, mischievous false call, other	4	0.17%
Municipal alarm system, malicious false alarm	2	0.08%
Local alarm system, malicious false alarm	4	0.17%
System malfunction, other	1	0.04%
Sprinkler activation due to malfunction	1	0.04%
Smoke detector activation due to malfunction	65	2.71%
Alarm system sounded due to malfunction	38	1.58%
CO detector activation due to malfunction	26	1.08%
Unintentional transmission of alarm, other	2	0.08%
Sprinkler activation, no fire – unintentional	1	0.04%
Smoke detector activation, no fire - unintentional	80	3.33%
Detector activation, no fire - unintentional	28	1.17%
Alarm system activation, no fire - unintentional	75	3.13%
Carbon monoxide detector activation, no CO	5	0.21%
TOTAL	333	13.88%

SEVERE WEATHER & NATURAL DISASTER

	# OF INCIDENTS	TOTAL PERCENT
Wind storm, tornado/hurricane assessment	8	0.33%
TOTAL	8	0.33%



2021 INCIDENT TYPE SUMMARY

SPECIAL INCIDENT TYPE

	# OF INCIDENTS	TOTAL PERCENT
Special type of incident, other	3	0.13%
Citizen complaint	4	0.17%
TOTAL	7	0.30%

INCIDENT SUMMARY

MAJOR INCIDENT TYPE SUMMARY	# OF INCIDENTS	TOTAL PERCENT
Fires	122	5.08%
Rescue & Emergency Medical Service	1381	57.57%
Hazardous Condition (No Fire)	111	4.63%
Service Call	240	10%
Good Intent Call	197	8.21%
False Alarm & False Call	333	13.88%
Severe Weather & Natural Disaster	8	0.33%
Special Incident Type	7	0.30%
TOTAL	2399	100.00%





GENERAL STATISTICS

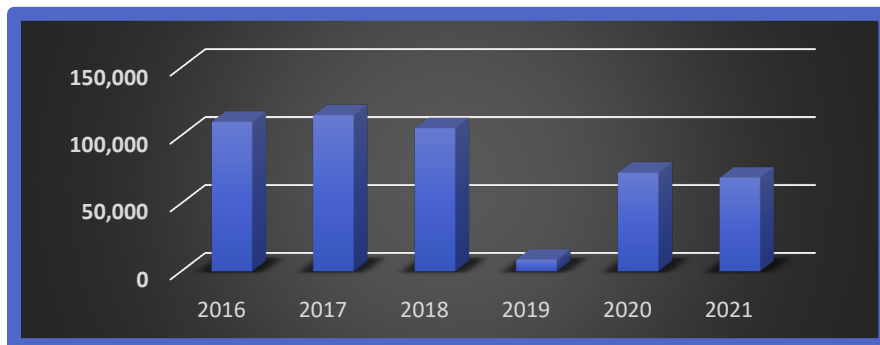
2021 FIRE LOSS DATA

TOTAL INCIDENTS	TOTAL PROPERTY LOSS	TOTAL CONTENT LOSS	TOTAL LOSSES	AVERAGE LOSS
8	\$60,500.00	\$8,500.00	\$69,000.00	\$8,625.00

INCIDENT #	DATE	INCIDENT TYPE	PROPERTY LOSS	CONTENT LOSS	TOTAL	% OF TOTAL
2021-00304	2/23/2021	522 – Water or steam leak	\$20,000.00	\$5,000.00	\$25,000.00	36.23%
2021-00478	3/21/2021	118 – Trash or rubbish fire, contained	\$0.00	\$200.00	\$200.00	0.29%
2021-00484	3/21/2021	162 – Outside equipment fire	\$1,000.00	\$300.00	\$1,300.00	1.88%
2021-00851	5/21/2021	911 – Citizen complaint	\$2,000.00	\$0.00	\$2,000.00	2.90%
2021-00934	6/2/2021	522 – Water or steam leak	\$2,000.00	\$2,000.00	\$4,000.00	5.80%
2021-01360	8/11/2021	162 – Outside equipment fire	\$500.00	\$0.00	\$500.00	0.72%
2021-01888	10/22/2021	444 – Power line down	\$25,000.00	\$0.00	\$25,000.00	36.23%
2021-02183	11/30/2021	111 – Building fire	\$10,000.00	\$1,000.00	\$11,000.00	15.94%

ANNUAL FIRE LOSS COMPARISON

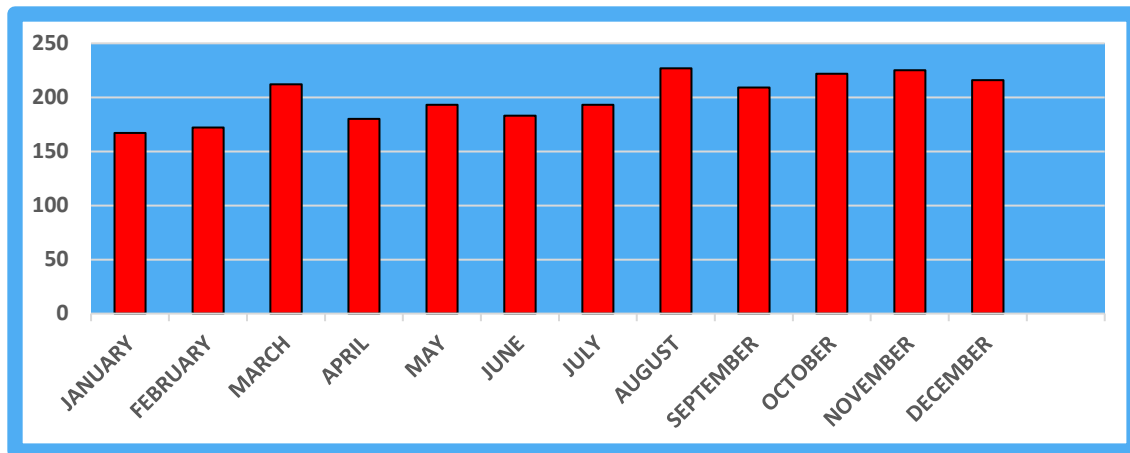
YEAR	TOTAL LOSSES
2021	\$69,000.00
2020	\$72,700.00
2019	\$8,700.00
2018	\$105,425.00
2017	\$115,052.00
2016	\$110,110.00





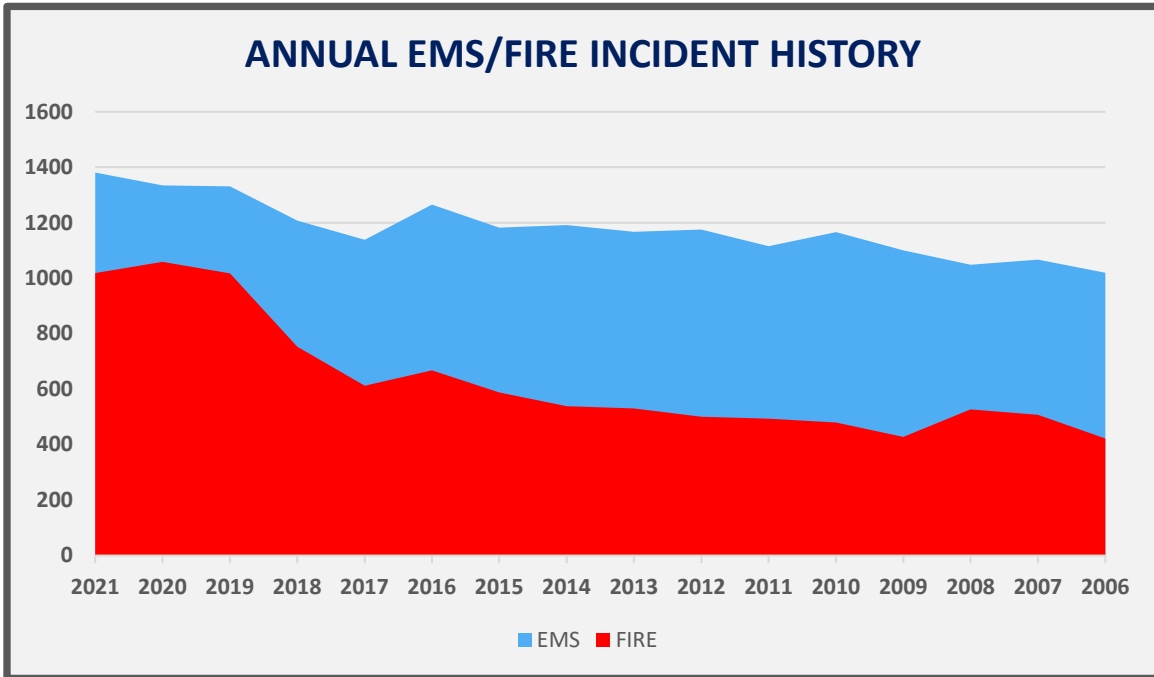
INCIDENTS BY MONTH 2021

MONTH	INCIDENTS
JANUARY	167
FEBRUARY	172
MARCH	212
APRIL	180
MAY	193
JUNE	183
JULY	193
AUGUST	227
SEPTEMBER	209
OCTOBER	222
NOVEMBER	225
DECEMBER	216



INCIDENTS BY SHIFT

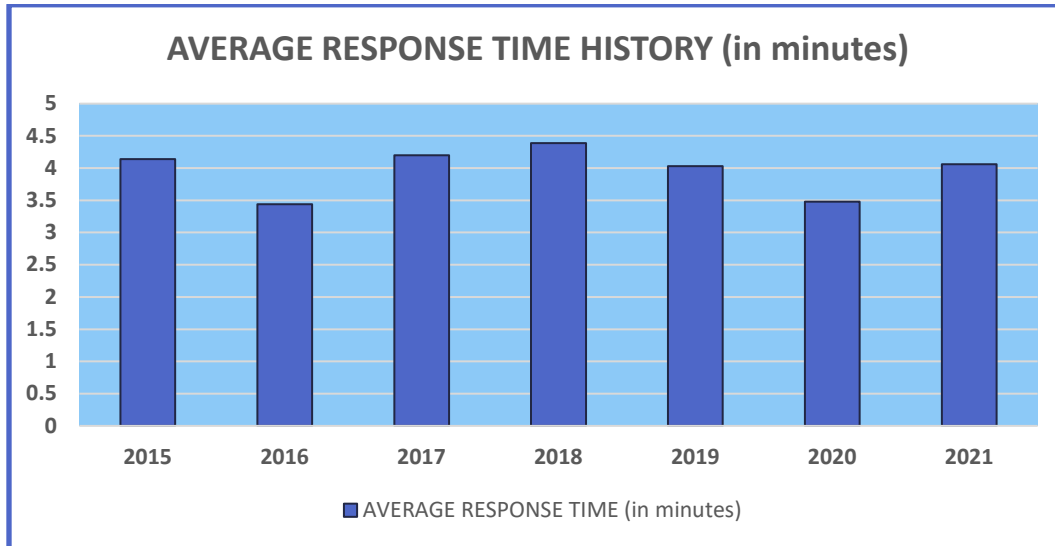
SHIFT	# INCIDENTS
A SHIFT	773
B SHIFT	862
C SHIFT	764
TOTAL	2,399



YEAR	EMS	FIRE
2021	1381	1018
2020	1335	1059
2019	1331	1017
2018	1208	753
2017	1139	612
2016	1266	668
2015	1182	588
2014	1192	538
2013	1167	530
2012	1176	501
2011	1116	493
2010	1166	480
2009	1100	428
2008	1049	527
2007	1067	507
2006	1020	422



AVERAGE RESPONSE TIME FOR NON-AID INCIDENTS



YEAR	RESPONSE TIME (minutes)
2021	4:06
2020	3:48
2019	4:02
2018	4:23
2017	4:12
2016	3:26
2015	4:08

CANCELLED INCIDENTS SUMMARY

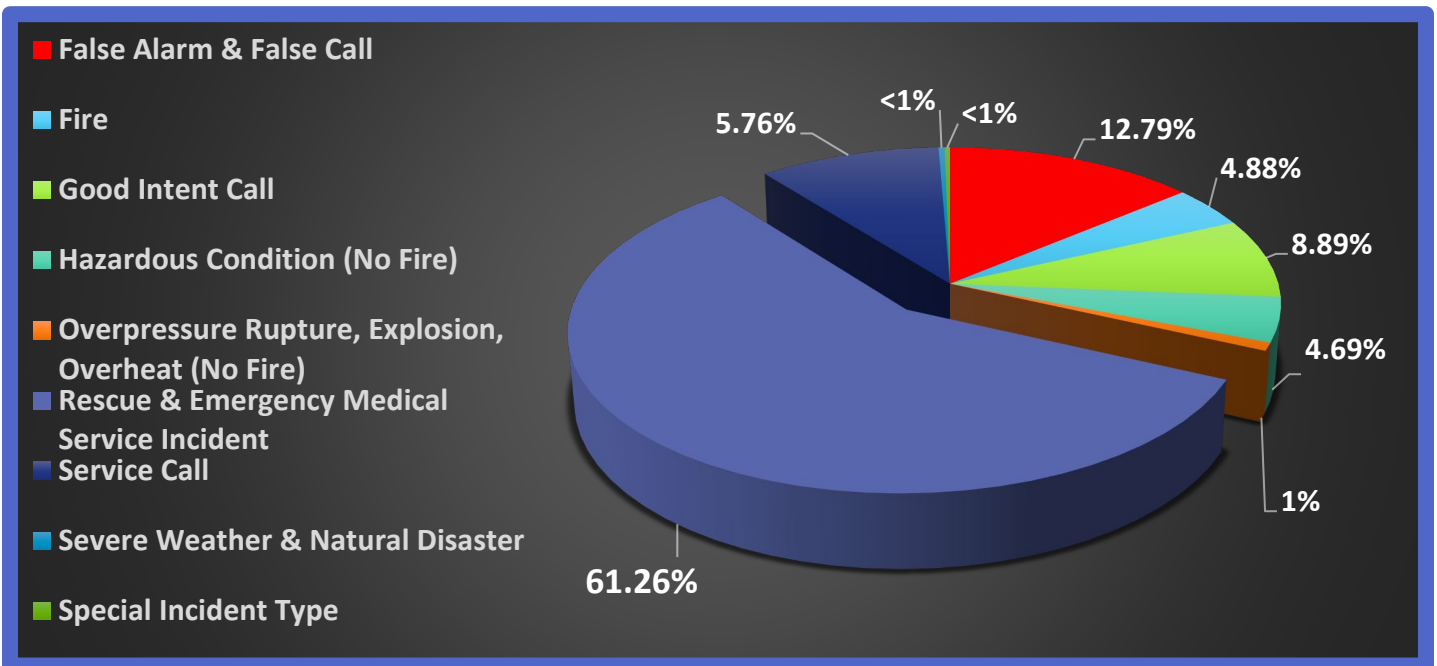
MAJOR INCIDENT TYPE	TOTAL # INCIDENTS	# INCIDENTS CANCELLED	% of TOTAL
Fires	102	2	2.0%
Overpressure rupture, explosion, overheating - no fire	20	0	0.0%
Rescue & Emergency Medical Service	1381	2	0.1%
Hazardous Condition (No Fire)	111	0	0.0%
Service Call	240	2	0.8%
Good Intent Call	197	152	77.2%
False Alarm & False Call	333	4	1.2%
Severe Weather & Natural Disaster	8	0	0.0%
Special Incident Type	7	0	0.0%



BREAKDOWN OF INCIDENTS BY MONTH

MAJOR INCIDENT TYPE

INCIDENT TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTALS
False Alarm & False Call	25	31	26	25	19	24	32	33	24	36	18	40	333
Fire	9	6	20	10	9	7	5	7	3	6	12	8	102
Good Intent Call	17	11	15	8	12	12	19	14	19	22	31	17	197
Hazardous Condition (No Fire)	1	10	8	9	11	9	10	21	7	10	10	5	111
Overpressure Rupture, Explosion, Overheat (no fire)	0	1	1	0	1	5	0	1	1	3	4	3	20
Rescue & Emergency Medical Service Incident	99	101	127	113	124	99	98	112	123	130	123	132	1381
Service Call	16	12	15	15	16	27	29	30	30	15	27	8	240
Severe Weather & Natural Disaster	0	0	0	0	0	0	0	8	0	0	0	0	8
Special Incident Type	0	0	0	0	1	0	0	1	2	0	0	3	7
Total	167	172	212	180	193	183	193	227	209	222	225	216	2399

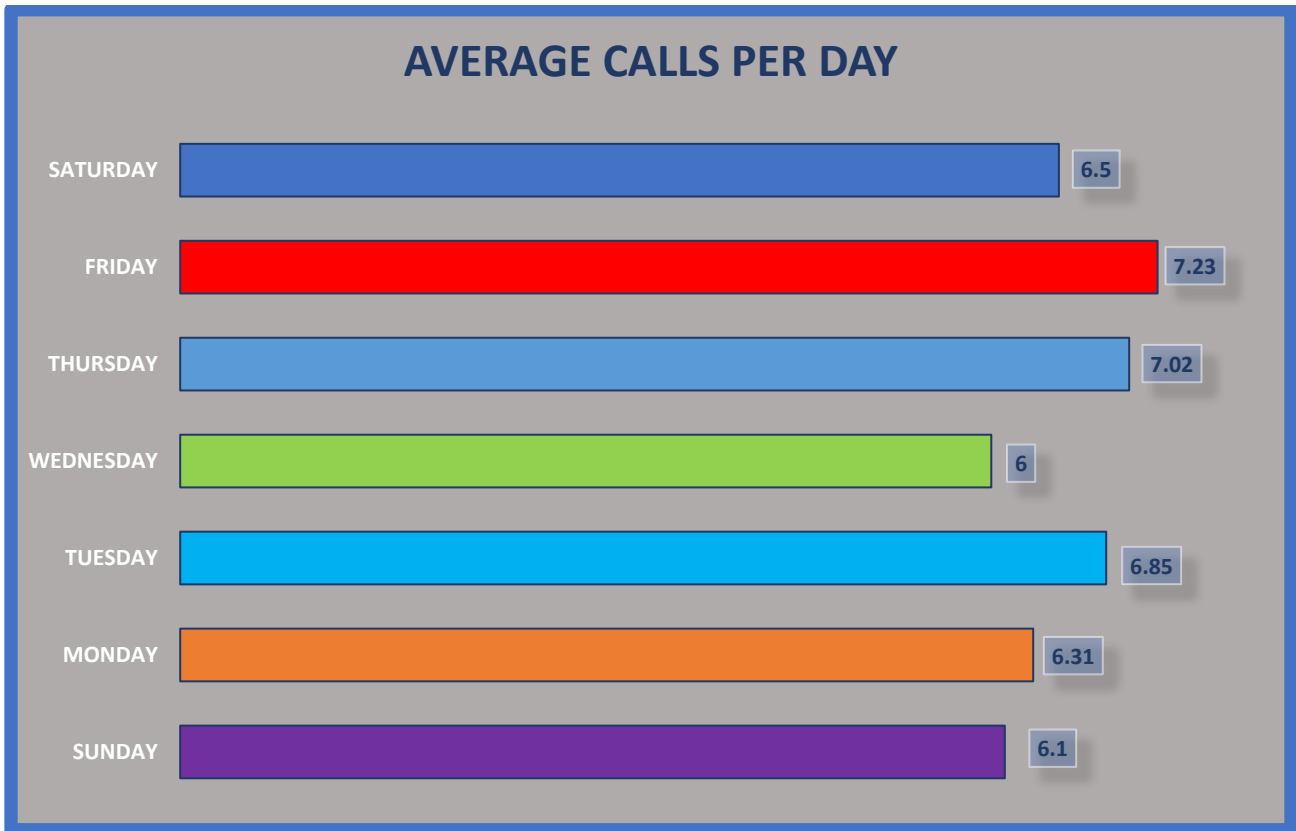




BREAKDOWN OF INCIDENTS IN 2021

BY DAY OF WEEK

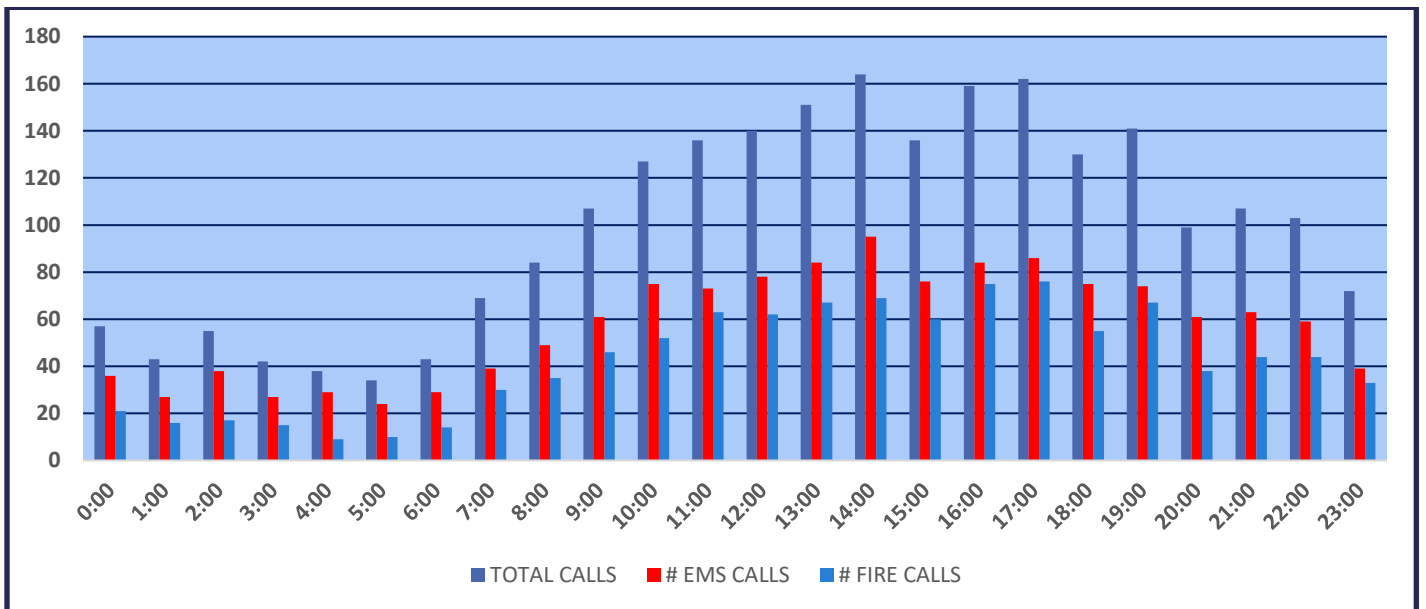
DAY OF THE WEEK	# INCIDENTS
SUNDAY	317
MONDAY	328
TUESDAY	356
WEDNESDAY	312
THURSDAY	365
FRIDAY	383
SATURDAY	338
TOTAL	2,399





BREAKDOWN OF INCIDENTS BY HOUR

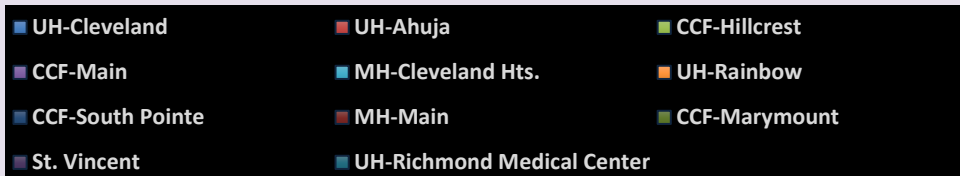
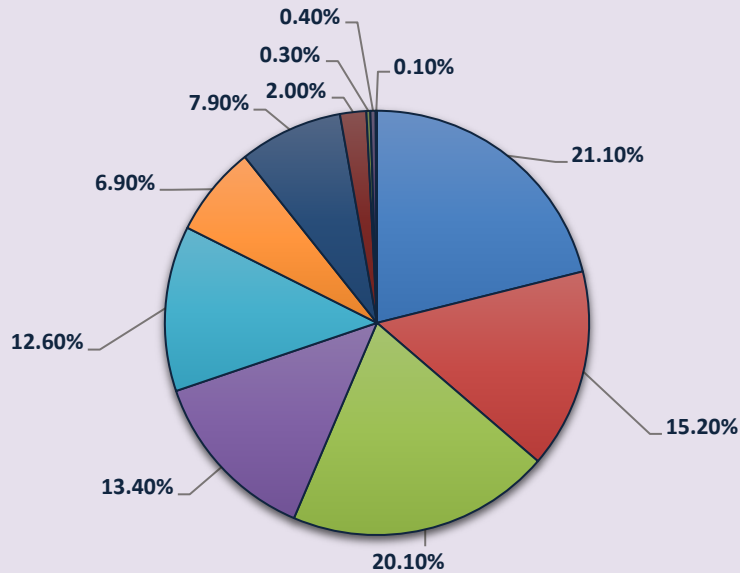
HOUR	# of CALLS	# EMS CALLS	# FIRE CALLS
00:00 - 00:59	57	36	21
01:00 - 01:59	43	27	16
02:00 - 02:59	55	38	17
03:00 - 03:59	42	27	15
04:00 - 04:59	38	29	9
05:00 - 05:59	34	24	10
06:00 - 06:59	43	29	14
07:00 - 07:59	69	39	30
08:00 - 08:59	84	49	35
09:00 - 09:59	107	61	46
10:00 - 10:59	127	75	52
11:00 - 11:59	136	73	63
12:00 - 12:59	140	78	62
13:00 - 13:59	151	84	67
14:00 - 14:59	164	95	69
15:00 - 15:59	136	76	60
16:00 - 16:59	159	84	75
17:00 - 17:59	162	86	76
18:00 - 18:59	130	75	55
19:00 - 19:59	141	74	67
20:00 - 20:59	99	61	38
21:00 - 21:59	107	63	44
22:00 - 22:59	103	59	44
23:00 - 23:59	72	39	33
TOTAL	2399	1381	1018





HOSPITAL TRANSPORTS

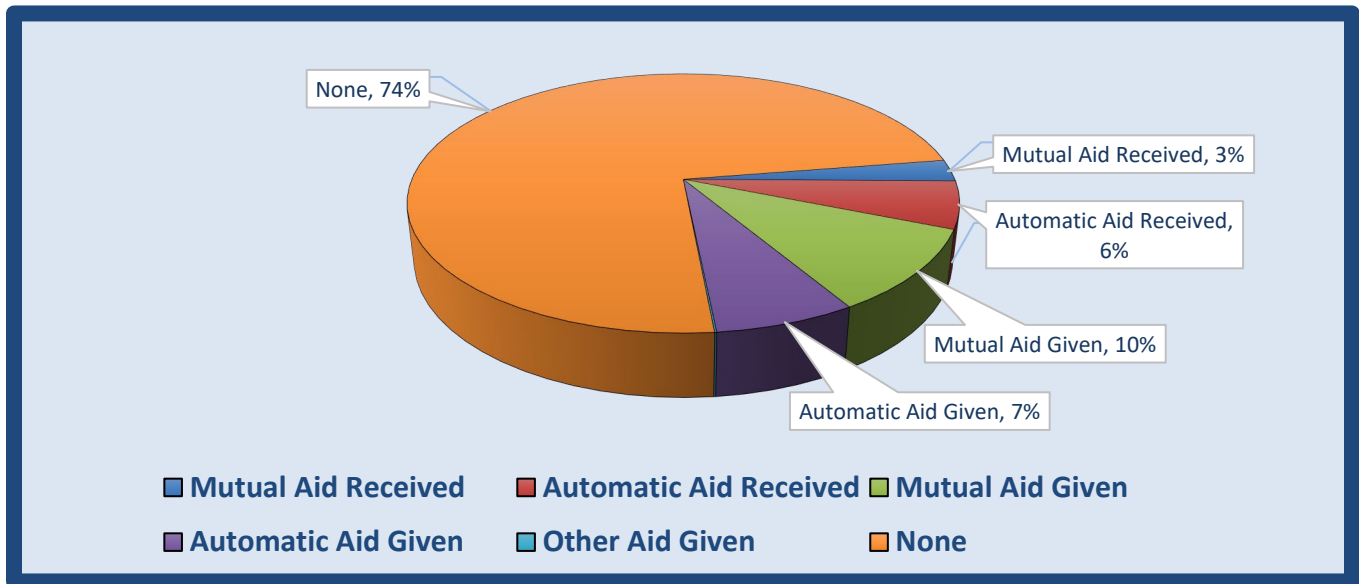
HOSPITAL DESTINATION	# TRANSPORTS	PERCENT
UH – CLEVELAND MEDICAL CENTER	206	21.1%
UH – AHUJA MEDICAL CENTER	148	15.2%
CLEVELAND CLINIC – HILLCREST HOSPITAL	196	20.1%
CLEVELAND CLINIC MAIN CAMPUS	131	13.4%
METROHEALTH CLEVELAND HEIGHTS	123	12.6%
UH-RAINBOW BABIES & CHILDRENS	67	6.9%
CLEVELAND CLINIC-SOUTH POINTE HOSPITAL	77	7.9%
CLEVELAND METRO HOSPITAL-METROHEALTH	20	2.0%
CLEVELAND CLINIC-MARYMOUNT HOSPITAL	3	0.3%
ST. VINCENT CHARITY HOSPITAL	4	0.4%
UH-RICHMOND MEDICAL CENTER	1	0.1%
TOTAL	976	100%





MUTUAL AID GIVEN AND RECEIVED IN 2021

AID TYPE	TOTAL	% of TOTAL
Mutual aid received	64	2.7%
Automatic aid received	141	5.9%
Mutual aid given	248	10.3%
Automatic aid given	168	7.0%
Other aid given	3	0.1%
None	1775	74.0%



MUTUAL AID & AUTOMATIC AID GIVEN & RECEIVED

MUNICIPALITY	# OF INCIDENTS GIVEN
BEACHWOOD	10
CLEVELAND HEIGHTS	91
EAST CLEVELAND	17
WARRENSVILLE HEIGHTS	1
SHAKER HEIGHTS	104
BEDFORD	2
SOUTH EUCLID	187
OLON	1
EUCLID	1
LYNDHURST	1
RICHMOND HEIGHTS	1
TOTAL	416

MUNICIPALITY	# OF INCIDENTS RECEIVED
BEACHWOOD	16
CLEVELAND HEIGHTS	12
SHAKER HEIGHTS	73
SOUTH EUCLID	103
LYNDHURST	2
OTHER AID GIVEN	15
TOTAL	221

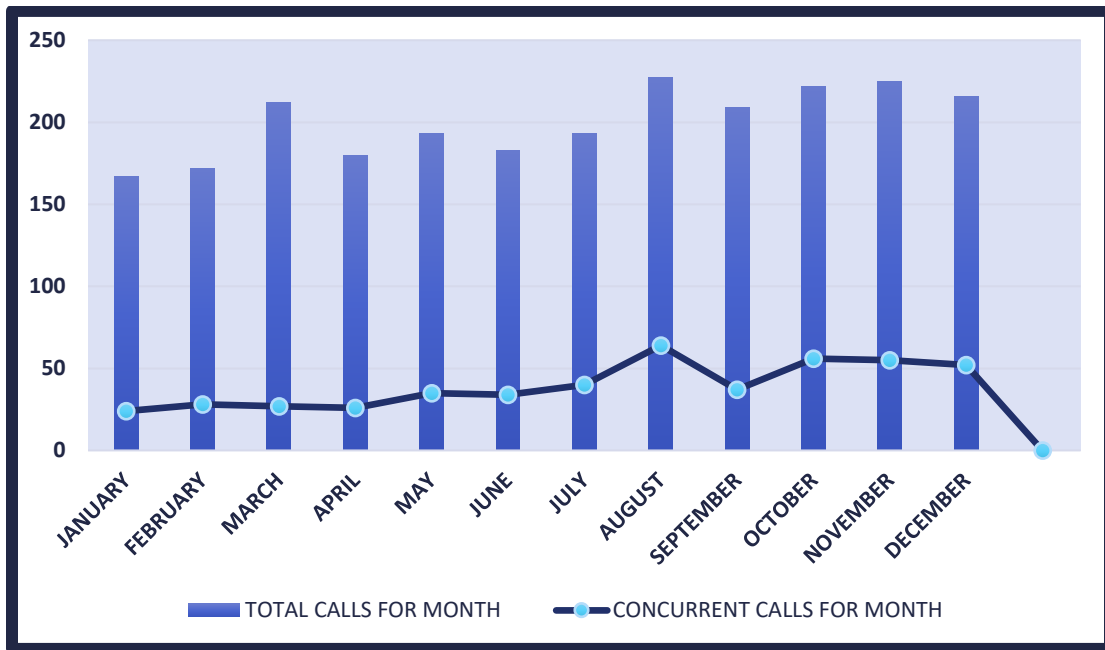


CONCURRENT CALLS

To be considered a “Concurrent Call” an incident must meet all of the following criteria:

- An incident dispatched as an emergency
- An incident dispatched during a period when at least one other preceding call is still in progress
- At least one UHFD apparatus and crew are out of service on another call

2021 SUMMARY		
OVERLAPPING COUNT	PERCENTAGE	TOTAL CALLS
478	19.92%	2399



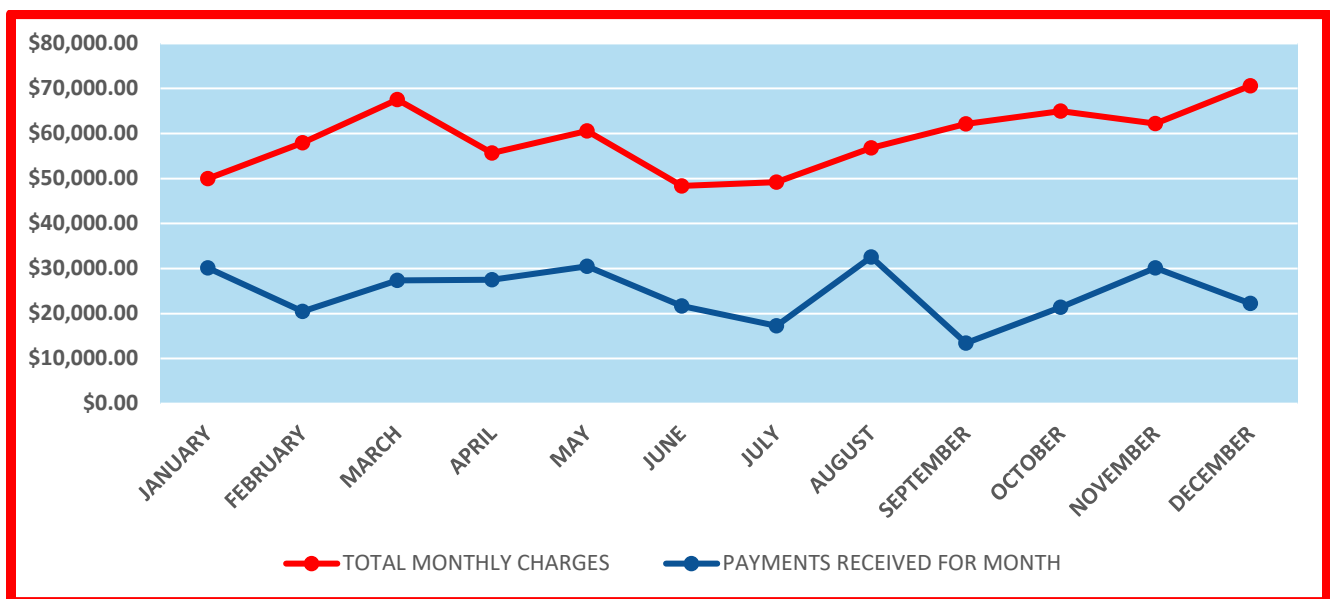
MONTHLY SUMMARY			
MONTH	TOTAL CONCURRENT CALLS	TOTAL CALLS FOR MONTH	PERCENT
JANUARY	24	167	14.37%
FEBRUARY	28	172	16.28%
MARCH	27	212	12.74%
APRIL	26	180	14.44%
MAY	35	193	18.13%
JUNE	34	183	18.58%
JULY	40	193	20.73%
AUGUST	64	227	28.19%
SEPTEMBER	37	209	17.7%
OCTOBER	56	222	25.23%
NOVEMBER	55	225	24.44%
DECEMBER	52	216	24.07%



2021 EMS CHARGES & PAYMENTS RECEIVED SUMMARY

MONTH	TOTAL CHARGES	PAYMENTS RECEIVED
JANUARY	\$49,973.80	\$30,141.70
FEBRUARY	\$57,916.40	\$20,481.32
MARCH	\$67,523.36	\$27,352.89
APRIL	\$55,681.24	\$27,488.12
MAY	\$60,593.72	\$30,523.90
JUNE	\$48,357.84	\$21,702.52
JULY	\$49,223.32	\$17,248.09
AUGUST	\$56,824.48	\$32,575.45
SEPTEMBER	\$62,100.84	\$13,447.68
OCTOBER	\$64,956.44	\$21,386.43
NOVEMBER	\$62,202.60	\$30,143.36
DECEMBER	\$70,598.68	\$22,240.11
ANNUAL TOTAL	\$705,952.72	\$294,731.57

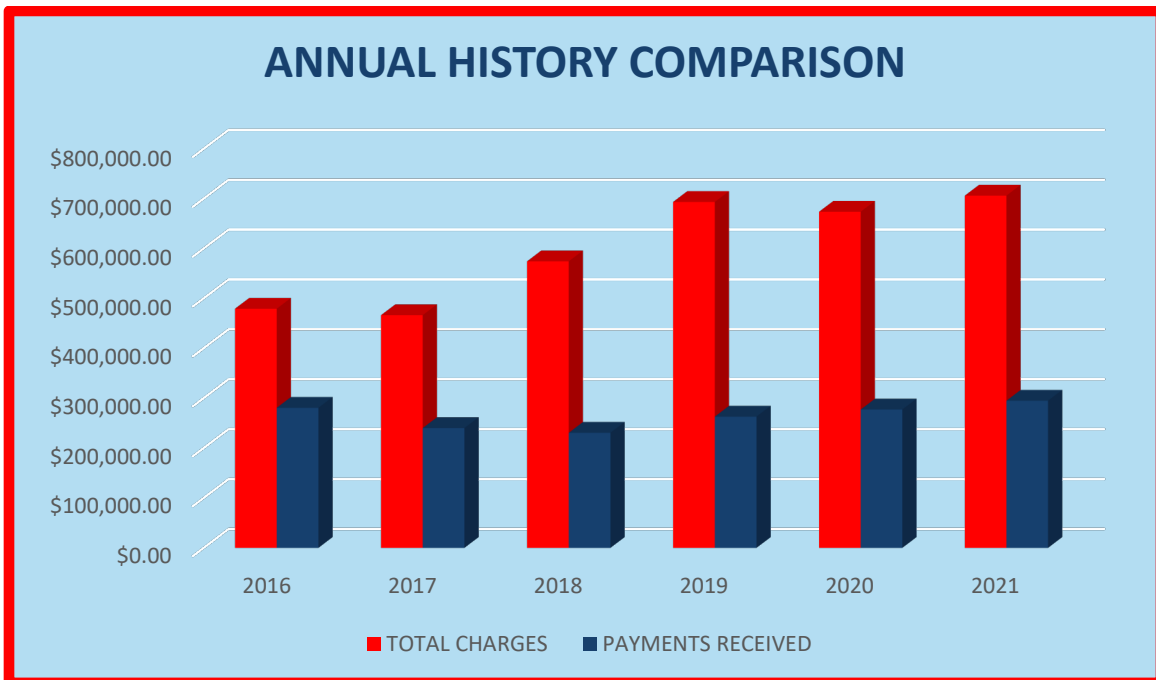
MONTHLY AVERAGES	\$58,829.39	\$24,560.96
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ANNUAL EMS CHARGES & PAYMENTS RECEIVED HISTORY

SERVICE YEAR	TOTAL CHARGES	PAYMENTS RECEIVED
2016	\$479,147.00	\$280,531.05
2017	\$466,249.00	\$239,982.68
2018	\$574,230.22	\$230,538.17
2019	\$693,325.64	\$262,889.21
2020	\$673,653.56	\$277,076.83
2021	\$705,952.72	\$294,731.57
TOTAL	\$3,592,558.14	\$1,305,218.46





RETIREMENT

FIREFIGHTER/PARAMEDIC JAMES FACIANA

Hire Date:

- March 4, 1990

Retirement Date:

- July 4, 2021

Departmental Duties:

- Maintenance
- Driver/Operator
- Acting Officer
- Senior “Man”/Mentor

Accomplishments:

- BlueCard
- STICO, DMICO, SAM, Risk Management, FF Survival
- Fire Safety Inspector
- TL 1121



Highlights:

- Other Firefighter Experience (Northfield & Bainbridge)
- Heights Area Technical Rescue Team – first group of members to start the team (1996)
- Paramedic Program – First group of members to attend Paramedic school after Paramedic services levy was passed (1990)
- Driver/Operator of 1121 - residential structure fires in Cleveland Hts. – first due
- Driver/Operator of 1112 – Milton Road Fire July 9, 2011 (10)
- Driver/Operator of 1121 – Fernway School Fire in Shaker Hts. – 5+ hours
- Paramedic that received new born baby – March 3, 2018



NEW HIRE TO FIREFIGHTER/PARAMEDIC

FIREFIGHTER/PARAMEDIC CONNOR BACHMANN

- Sworn into his appointment of Firefighter/Paramedic on October 11, 2021
- Previous full-time experience in South Euclid and Chester Township starting in 2020
- Previous part-time experience in Concord, East Cleveland and Willoughby starting in 2018
- Madison High School graduate, National Honor Society; Elected Treasurer





2021 YEAR IN REVIEW





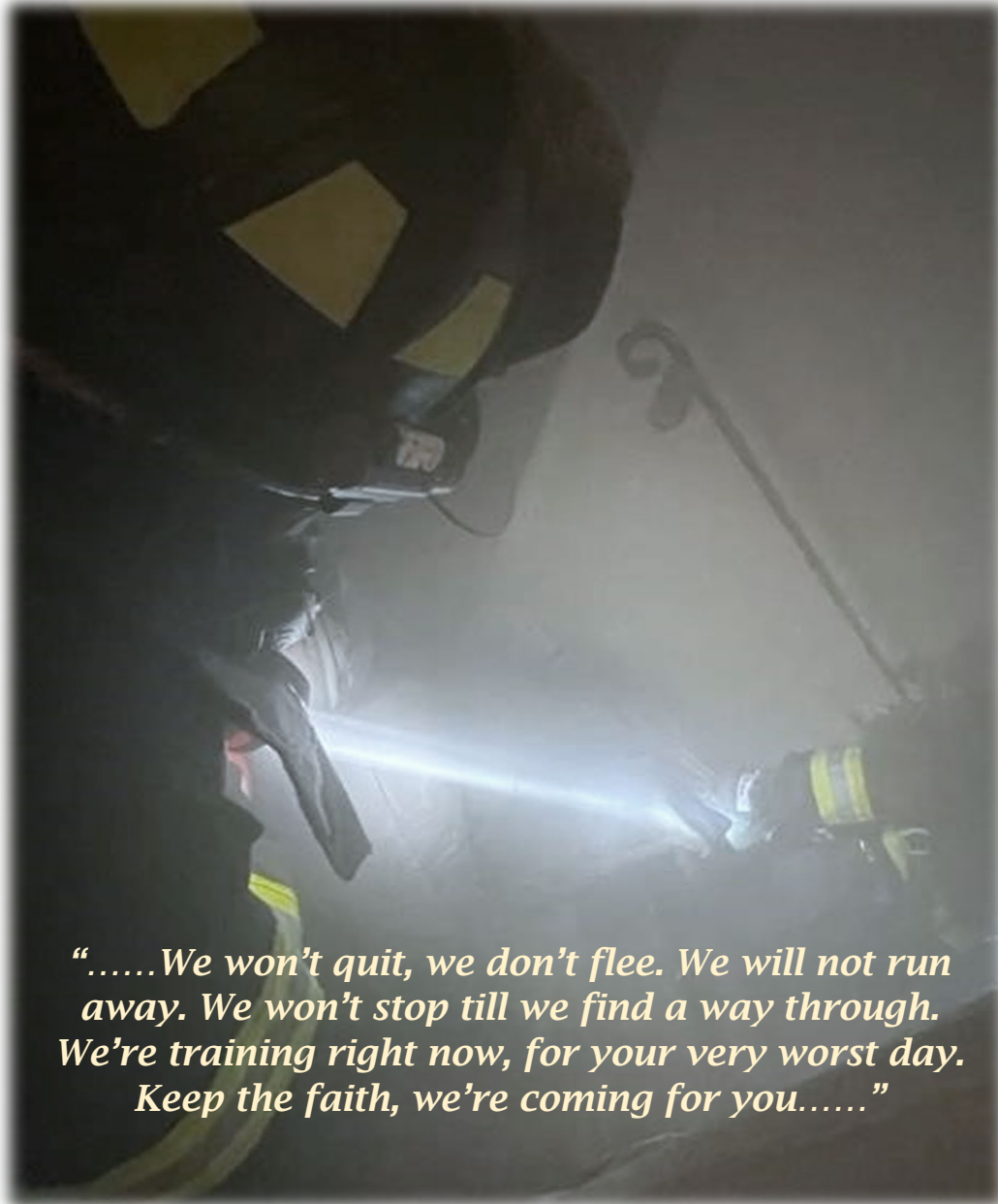
2021 YEAR IN REVIEW





2021 Annual Report

The University Heights Fire Department appreciates you for taking the time to review our annual report. The lives and well-being of our citizens and department members are our highest priority. We strive to provide the highest level of care and safety through Fire Prevention, Emergency Medical Services, and Public Education and Community Events. The purpose of this report is to provide significant statistics and information on current operations of the Department and overall status. We thank the community for their continued support. We look forward to another safe and productive year.



“.....We won’t quit, we don’t flee. We will not run away. We won’t stop till we find a way through. We’re training right now, for your very worst day. Keep the faith, we’re coming for you.....”

This is an excerpt from the poem “We’re Coming for You” written by Capt. Gagliano (retired). Chief Perko attended a seminar in 2016 and met Capt. Gagliano. This poem resonated with Chief Perko and speaks of his experience and outlook in the fire service field.