

**BEACHWOOD DEPARTMENT OF
FIRE – RESCUE**

MISSION STATEMENT:

It is the Mission of the Beachwood Department of Fire-Rescue to provide and deliver efficient, progressive, performance-based emergency services to preserve life and property for our community.

2016 Beachwood Department of Fire ~ Rescue Roster

Patrick J. Kearns, Chief

Assistant Chief

William C. Peskura

Fire Prevention

Officer Shaun Lutz
Inspector David Skrajner

Administration

Rebecca Globokar
Therese Ferritto

Full Time Members

A Shift

Capt. Scott Hank
Lt. Matthew Domonkos
Lt. Michael Iacobucci
Brett Anderson
Lincoln Coverdale
Don Coyne
Richard Gromek
Luke Ockenden
David Peterson
Adam Ripley
Chad Russell
Mark Russo
Scott Schmauder
Benjamin Welsh

B Shift

Capt. Steven Holtzman
Lt. Michael Bell
Lt. Anthony Strazzo
Donald Balog
Jason Brooks
Joseph DiAntonio
Scott Frey
Michael Lucas
Edward Mahoney
Nicholas Ricco
Robert Searles
Andrew Spisak
Wesley Unger
Vacancy

C Shift

Capt. Philip Corpora
Lt. Jim Leffler
Lt. Chadwick Thompson
Adam Dodson
Michael Holtzman
Anthony Kustra
Gregory Liggett
Thomas Luskin
Bradley Majetich
Michael McDermott
Seth Robinson
Benjamin Shellenbarger
Daniel Wochele
Vacancy

10

Retirement



Captain Michael Palumbo

After nearly 24 years of dedicated service to the Beachwood Department of Fire - Rescue, Captain Mike Palumbo retired on July 17, 2016.

Resignation



Dustin Lees
March 25th 2013 – July 17th 2016

Promotions



Scott Hank – Promoted to Captain September 6th



Chad Thompson – Promoted to Lieutenant September 6th

Fire Department Accreditation

The Beachwood Fire Department currently holds an accredited status with the Center for Public Safety Excellence. According to the Center for Public Safety Excellence web site (www.cpse.org) This is a not-for-profit 501(c)(3) corporation and is a primary resource for the fire and emergency profession to continuously improve services, resulting in a higher quality of life for communities.

The Center for Public Safety Excellence has successfully helped public safety agencies around the world streamline and improve the services they provide their communities through its numerous programs and services.

The Center for Public Safety Excellence provides the only accreditation program for fire service organizations in the world, and offers nationally-recognized designations for fire and emergency services officers. The Center for Public Safety Excellence has 234 accredited agencies and over 1800 designated officers throughout the world. There are 10 accredited agencies in Ohio with 1 of these 10 being a federal Department of Defense origination. Beachwood Fire Department is the only department in North East Ohio to have earned this designation.

Accreditation is a comprehensive self-assessment and evaluation model that enables organizations to examine past, current, and future service levels and internal performance and compare them to industry best practices. This process leads to improved service delivery.

The Center for Public Safety Excellence's Accreditation Program, administered by the Commission on Fire Accreditation International (CFAI) allows fire and emergency service agencies to compare their performance to industry best practices in order to:

- Determine community risk and safety needs and develop community-specific Standards of Cover.
- Evaluate the performance of the department.
- Establish a method for achieving continuous organizational improvement.

Beachwood Fire Department was originally accredited in 2007, was re-accredited in 2012, and will be reassessed in 2017 to maintain the accreditation. This accreditation provides validation and verification that the department is meeting or exceeding recognized industry standards and has embraced the concept of “continuous improvement.” In order to be considered for accreditation the department must complete the following:

- A detailed internal Self-Assessment that includes 10 categories of performance that incorporates 45 specific criteria and 252 performance indicators that must be specifically evaluated. 86 of these are core competencies and must be met in order for the agency to be deemed credible. Each of the 252 performance

indicators must be described where we are now, assessed for effectiveness and planned for future expansion or development.

- A comprehensive strategic plan that identifies short and long term goals and objectives,
- A Community Risk Assessment and Standards of Cover that identifies the current risks to the community and performance levels the department will meet in response to those risks.



All criteria within these documents is then validated and verified by the visiting peer review panel. This panel will then make a recommendation to the Commission on Fire Accreditation International board. This recommendation will be for Approval, Denial or Deferral of accreditation. These recommendations will also include both strategic and specific recommendations for improvement to be considered over the next review period/deferral period. The department will be required to make an appearance at the commission hearings this July to defend the position recommended by the peer review panel. The commission members will at that time

make a definitive decision on the status of the department accreditation.

In 2016 Beachwood Fire Department submitted the Annual compliance report which details the department's compliance with the core criteria that were present at the time of our last accreditation. This report also includes a status of the previous recommendations. This report was accepted with "no areas of concern." Presuming the agency is re-accredited in 2017 as expected. The department will be required to continue to complete these compliance reports annually over the next accreditation period stating our compliance with the core criteria and status of the recommendations.

Lt. Michael Bell
Accreditation Manager

For 2017, plans are to make pre-plans available to all Fire & Police Department personnel via mobile devices to include: cellular phones, computers, and iPads. It goes without saying, uniformity, thorough attention to detail, and new technologies are the emphasis of this new generation of pre-plan documents.

An important component of the process is the actual collection of the information. This is accomplished through building walkthroughs. There are a total of 261 buildings in the City of Beachwood. In 2016, 240 building walkthroughs were performed by line personnel; an unprecedented number. Besides collecting essential information for the pre-plan, the practice of visiting these buildings has additional benefits. Walkthroughs provide the department an opportunity to educate personnel about modern construction techniques and expose them to the cutting-edge materials and building systems commonly found in the community. In addition, walkthroughs are an excellent occasion to enhance a firefighter's knowledge of fire protection systems, increase awareness of potential hazards, and provide insight into fire attack strategies.

The annual performance of pre-fire planning will continue to be an essential resource to the department. The presence of a solid pre-planning program will remain an essential element in altering the degree of incident events and having a positive impact on the life safety of firefighters and the public we are sworn to protect.

Assistant Chief Bill Peskura

New Technology

In 2016, Beachwood Department of Fire-Rescue embarked on a project to propel us into the current performance technology era, further increasing secure, private, environmentally sound (paperless), leading-edge technology to our customers.

Beachwood Fire-Rescue researched, proposed and purchased iPads in 2016 for all front-line vehicles utilized by the department. The iPads will serve multiple purposes for the department, including EMS Patient Care Reporting (ePCR), GPS based City Mapping, and the ability to view department PrePlans in a real-time format.

Additionally, the department has purchased Active 911 for the iPads and each member's cellular device. This application keeps everyone securely connected to Beachwood Police Dispatch (enabling monitoring calls and responding through the app for larger incidents), uses GPS positioning to map out structures in the City, and at the touch of a finger-tip, view department PrePlans, access hydrant flow rates and pressures, etc.

Beachwood Fire-Rescue is excited to implement this newer, safer technology to further increase our abilities to serve the community in early to mid-2017.

Lieutenant Chad Thompson

Station 2 Replacement Project

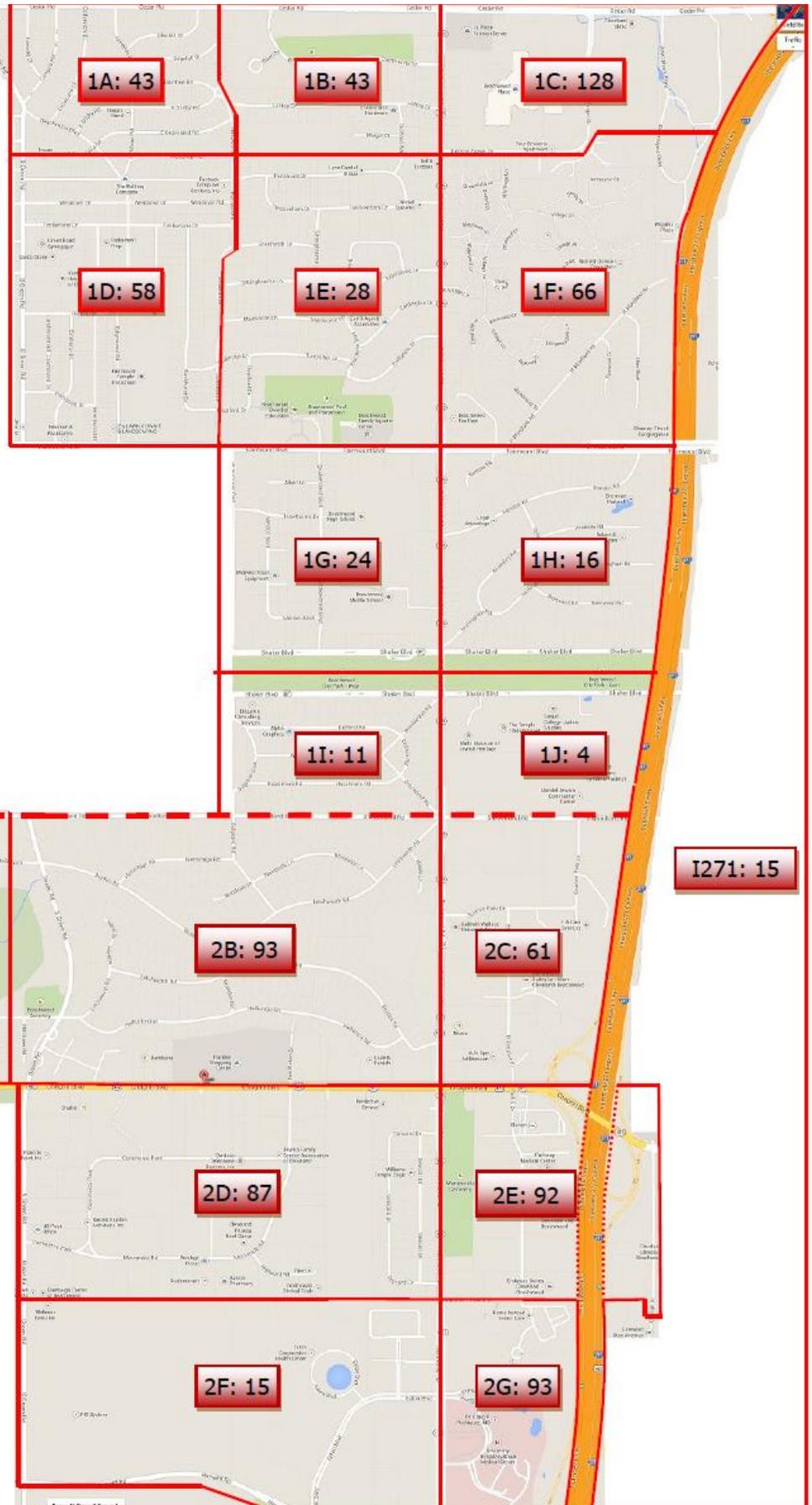
In 2016, the fire station 2 replacement project continued. The architects from Lemay Erickson Willcox worked diligently creating the construction documents. By late-summer, at the direction of Mayor Gorden and City Council, the idea of incorporating the City's dispatch center in the new station was investigated. Discussions with the Police Department regarding their needs with the architecture firm commenced. After the programming of the Dispatch Center was developed, cost estimates confirmed that this was more economical than other options. City Council along with the Mayor unanimously agreed to proceed with bidding the project. The updated construction documents were completed and presented to the City for review.



Captain Phil Corpora

CALLS FOR SERVICE: FIRE RESPONSE

**Fire Response
by Zone
2016**



**Fire Response: District 1
421**

**Fire Response: District 2
463**

Fire Incidents for 2016 by Type of Incident

Type 1 - Fire

	#	% of incidents	Total estimated loss	% estimated loss
111 - Building Fire	5	0.33	\$25,400	29.22
113 – Cooking fires contained	10	0.67	\$4,000	4.60
116 – Fuel burner/boiler malfunction	1	0.06	\$2,000	2.30
118 – Trash or rubbish fire, contained	2	0.13	0	0
131 – Passenger vehicle fire	10	0.67	\$55,000	63.29
140 – Natural vegetation fire, other	18	1.20	0	0
151 – Outside rubbish, trash or waste fire	1	0.06	0	0
154 – Dumpster or other outside trash receptacle fire	2	0.13	0	0
Totals	49	3.28	\$86,400	99.42

Type 2 – Overpressure, Rupture, Explosion, Overheat (no fire)

	#	% of incidents	Total estimated loss	% estimated loss
210 – Overpressure rupture from steam, other	1	0.06	0	0
251 – Excessive heat, scorch burns with no ignition	2	0.13	0	0
Totals	3	0.20	0	0

Type 3 – Rescue and EMS

	#	% of incidents
311 – Medical assist, assist EMS crew	67	4.49
321 – EMS call, excluding MVA w/injuries	386	25.87
322 – Motor vehicle accident - injuries	84	5.63
323 – Motor vehicle/pedestrian accident	4	0.26
324 – Motor vehicle accident – no injuries	51	3.41
331 – Lock-in	1	0.06
353 – Removal of victim from elevator	38	2.54
Totals	631	42.29

Type 4 – Hazardous Condition

	#	% of incidents	Total estimated loss	% estimated loss
410 – Combustible/flammable gas, other	1	0.06	0	0
411 – Gasoline/flammable liquid spill	5	0.33	0	0
412 – Gas leak (natural or LPG)	18	1.20	0	0
413 – Oil or other combustible liquid spill	2	0.13	0	0
421 – Chemical hazard (no spill or leak)	1	0.06	0	0
422 – Chemical spill or leak	1	0.06	0	0
424 – Carbon monoxide incident	12	0.80	0	0
440 – Electrical wiring/equipment problem	32	2.14	0	0
441 – Heat from short circuit	2	0.13	0	0
442 – Overheated motor	15	1.00	0	0
443 – Breakdown of light ballast	1	0.06	0	0

444 – Power line down	10	0.67	0	0
445 – Arching, shorted electrical equipment	25	1.67	\$500	0.57
461 – Building or structure weakened	1	0.06	0	0
462 – Aircraft standby	73	4.89	0	0
463 – Vehicle accident, general cleanup	4	0.26	0	0
Totals	203	13.60	\$500	0.57

Type 5 – Service Call

	#	% of incidents	Total estimated loss	% estimated loss
500 – Service call, other	8	0.53	0	0
511 – Lock-out	1	0.06	0	0
512 – Ring or jewelry removal	1	0.06	0	0
520 – Water problem, other	1	0.06	0	0
521 – Water evacuation	1	0.06	0	0
522 – Water or steam leak	19	1.27	0	0
531 – Smoke or odor removal	1	0.06	0	0
542 – Animal rescue	1	0.06	0	0
550 – Public service assistance, other	7	0.46	0	0
551 – Assist police or other agency	2	0.13	0	0
553 – Public service	10	0.67	0	0
554 – Assist invalid	3	0.20	0	0
555 – Defective elevator, no occupants	16	1.07	0	0
561 – Unauthorized burning	5	0.33	0	0
Totals	76	5.09	0	0

Type 6 – Good Intent Call

	#	% of incidents	Total estimated loss	% estimated loss
600 – Good intent call, other	106	7.10	0	0
611 – Dispatched and cancelled en route	5	0.33	0	0
622 – No incident found on arrival	7	0.46	0	0
650 – Steam, other gas mistaken for smoke	2	0.13	0	0
651 – Smoke scare, odor of smoke	15	1.00	0	0
652 – Steam, vapor, fog or dust	6	0.40	0	0
671 – Hazmat release investigation w/no Hazmat	1	0.06	0	0
Totals	142	9.51	0	0

Type 7 – False Alarm and False Call

	#	% of incidents	Total estimated loss	% estimated loss
710 – Malicious, mischievous call, other	17	1.13	0	0
730 – System malfunction, other	4	0.26	0	0
731 – Sprinkler activation due to malfunction	2	0.13	0	0
733 – Smoke detector activation, malfunction	46	3.08	0	0

734 – Heat detector activation, malfunction	2	0.13	0	0
735 – Alarm sounded, malfunction	70	4.69	0	0
736 – CO detector activated, malfunction	4	0.26	0	0
740 – Unintentional transmission of alarm	27	1.80	0	0
741 – Sprinkler activated, no fire, unintentional	3	0.20	0	0
743 – Smoke detector activation, no fire	163	10.92	0	0
744 – Detector activation, no fire, unintentional	11	0.73	0	0
745 – Alarm system activation, no fire	36	2.41	0	0
746 – CO detector activation – no CO	3	0.20	0	0
Totals	388	26.00	0	0

Type 8 – Severe Weather & Natural Disaster

	#	% of incidents	Total estimated loss	% estimated loss
Totals	0	0	0	0

Type 9 – Special Incident

	#	% of incidents	Total estimated loss	% estimated loss
Totals	0	0	0	0

Ignition Factors for Fires (Type 1)

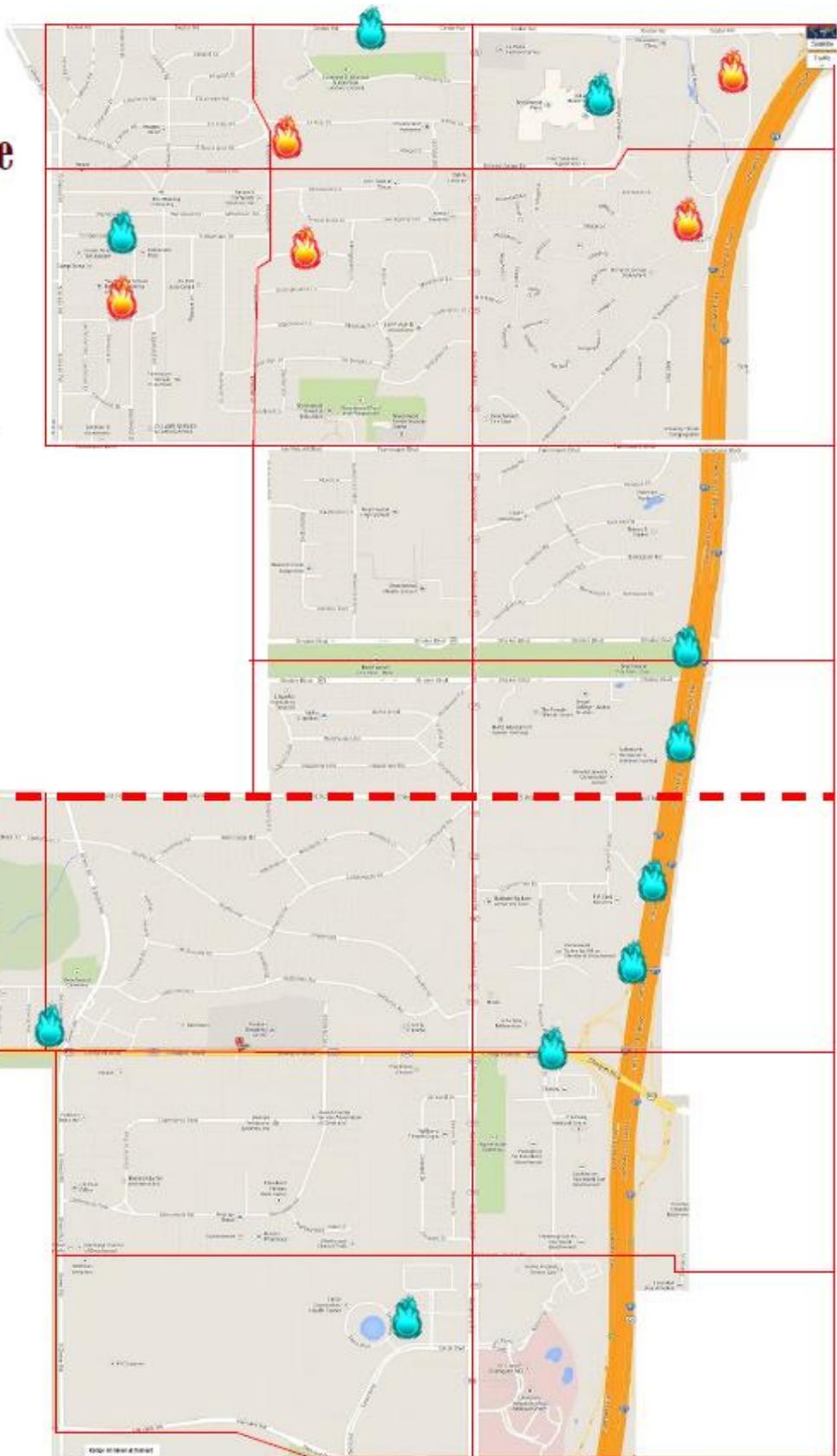
Cause	#	% of All	Total Est. Loss	% of All Loss
1 – Intentional	0	0	0	0
2 - Unintentional	7	20.58	\$7,900	9.83
3 – Failure of equipment or heat source	3	8.82	\$14,500	18.03
4 – Act of nature	0	0	0	0
5 – Under investigation	0	0	0	0
U – Cause undetermined after investigation	24	70.58	\$58,000	72.14
Totals	34		\$80,400	

Fire Loss Details

Incident Type	#	Total Value	Total Loss	Total Saved	% Lost	% Saved
111 – Building fire	5	\$27,387,400	\$25,400	\$27,362,000	0.089	99.91
113 – Cooking fire	4	\$35,015,500	\$4,000	\$35,011,500	0.01	99.99
116 – Fuel burner/boiler malfunction	1	\$237,900	\$2,000	\$235,900	0.84	99.16
131 – Passenger vehicle fire	8	\$61,900	\$55,000	\$6,900	88.85	11.15
445 – Arching, shorted electrical equipment	1	\$6,235,300	\$500	\$6,234,800	0.01	99.99
Totals	19	\$68,938,000	\$86,900	\$68,851,100	0.13	99.87

2016 Structure/Vehicle Fire Locations

- 2255 Halcyon
- 27100 Cedar
- 27070 Cedar
- 24560 Greenwich
- 23405 Ranch
- 2408 Brentwood
- 26500 Cedar
- 1010 Eaton
- I-271 X 4
- 26100 Chagrin
- 25010 Cedar
- 22801 Chagrin

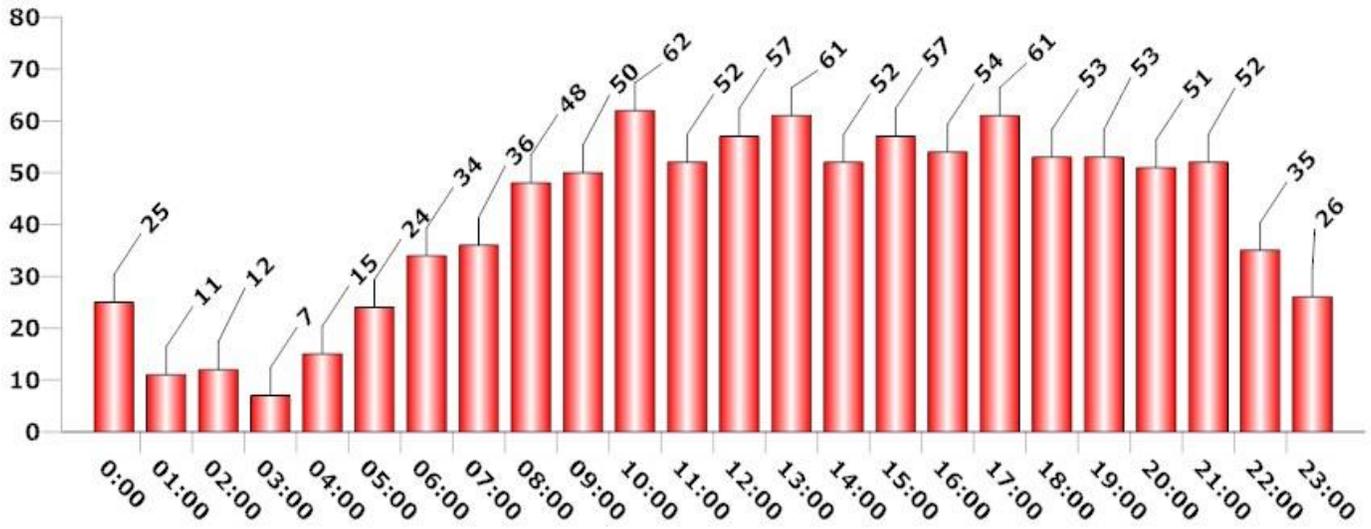


Key:

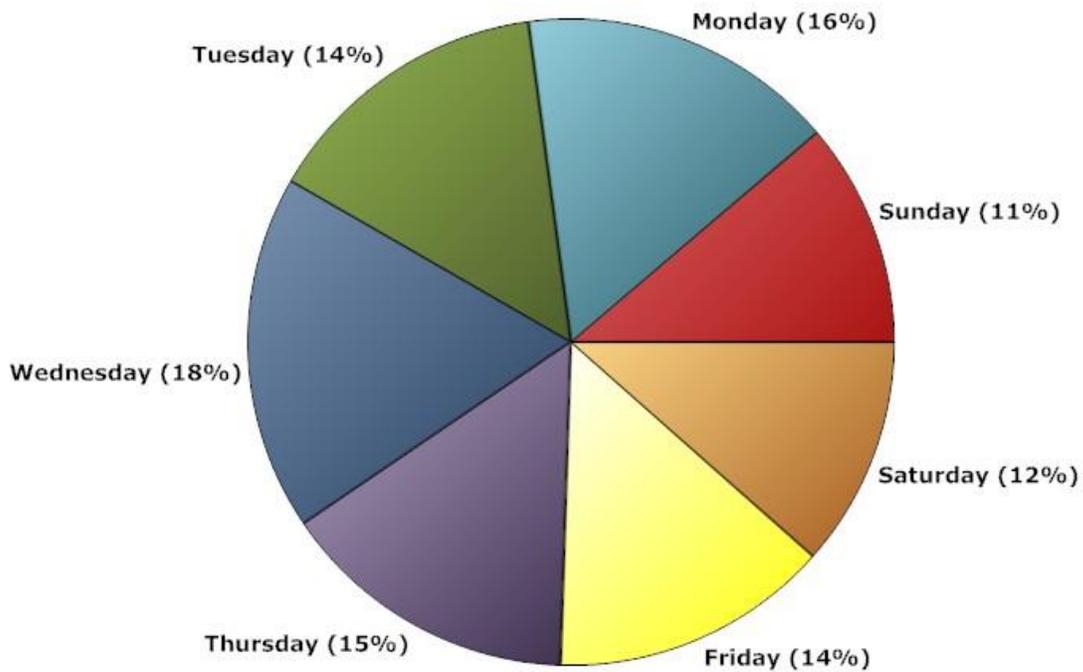
Structure Fire: 

Vehicle Fire: 

Fire Calls by Time of Day



Fire Calls by Day of Week



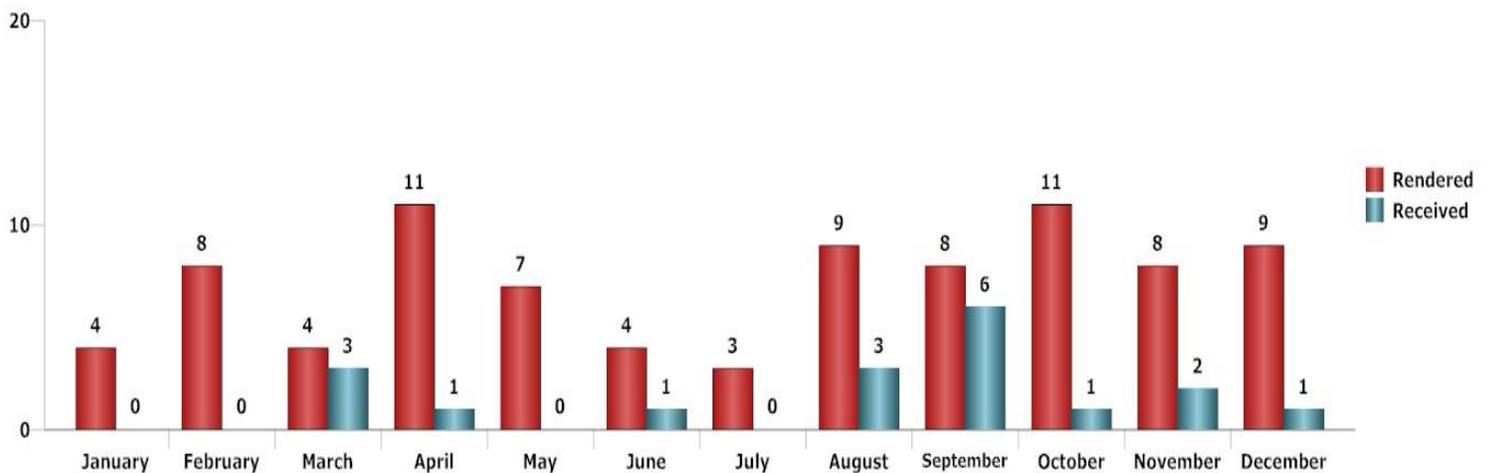
Carbon Monoxide (CO) Calls

There were 12 incidents where CO was found after a detector sounded in 2016. The causes of these include furnace or hot water heater malfunctions. In addition, there were four incidents where the detector malfunctioned and three where the detector alarmed and no CO was found.

Mutual Aid

The City of Beachwood and its surrounding communities have an agreement to assist each other in times of need, whether all vehicles are out handling other emergency calls when a new call comes in, or a fire or EMS incident requires additional manpower to safely and effectively handle the call. This agreement allows each community to keep costs at a reasonable level while still ensuring that its citizens are protected and provided for in times of extreme need

2016 Fire Mutual Aid



Total Fire Mutual Aid Calls Rendered: 86

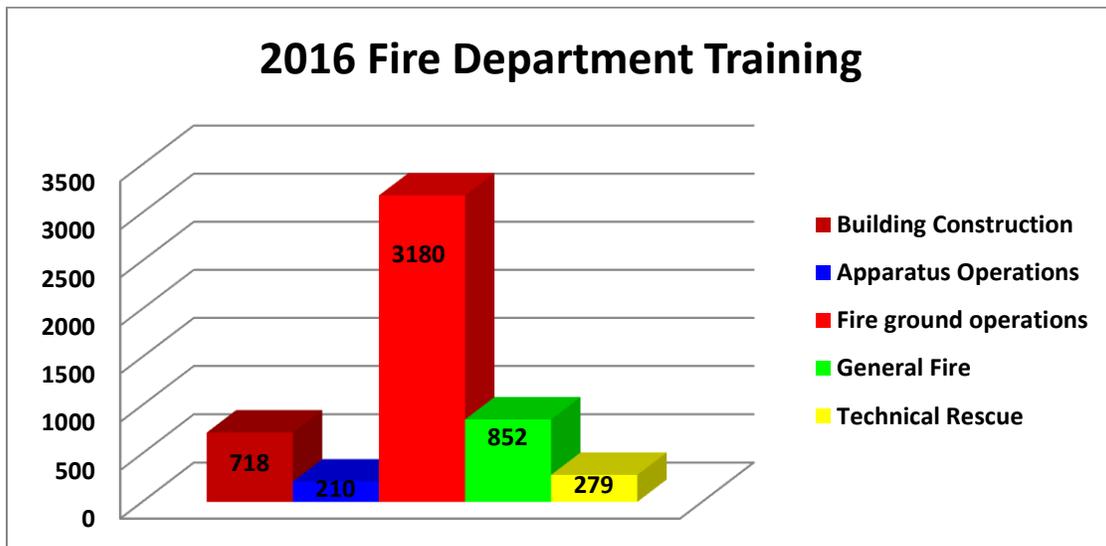
Total Fire Mutual Aid Calls Received: 18

Fire Training

The Beachwood Department of Fire ~Rescue strives to maintain the highest level of proficiency as firefighters by performing in house training classes, online training classes and attending training classes outside the department.

In 2016 The Beachwood Department of Fire~Rescue hosted a Cleveland State Hazmat Technician class, The State fire academies fire behavior lab and search and rescue trailer. Members from several Northeast Ohio Agencies attended. As buildings and building materials change, so does the training to battle fires in these structures. Our department is always working to make sure our firefighters have the training they need to safely and effectively do their job. Fire Fighters of today do more than just fight fires. Along with operating as paramedics, the fire department has become an **all hazards agency**. Some of the calls that we respond to include; Burning odor investigations, general odor investigations, gas leaks, carbon monoxide calls, hazardous chemical spills, motor vehicle accidents, wires down calls, people trapped in elevators, water hazards (inside and outside), response to terror attacks and what to do during pandemic. The Fire Department will continue to stay on the cutting edge to ensure the safety and security of the residence of Beachwood.

In 2016 the Beachwood Firefighters completed 5239 training hours. The category breakdown is listed below. The training hours listed does not include training hours for HAZMAT, SWAT, Technical Rescue teams or fire inspection training.

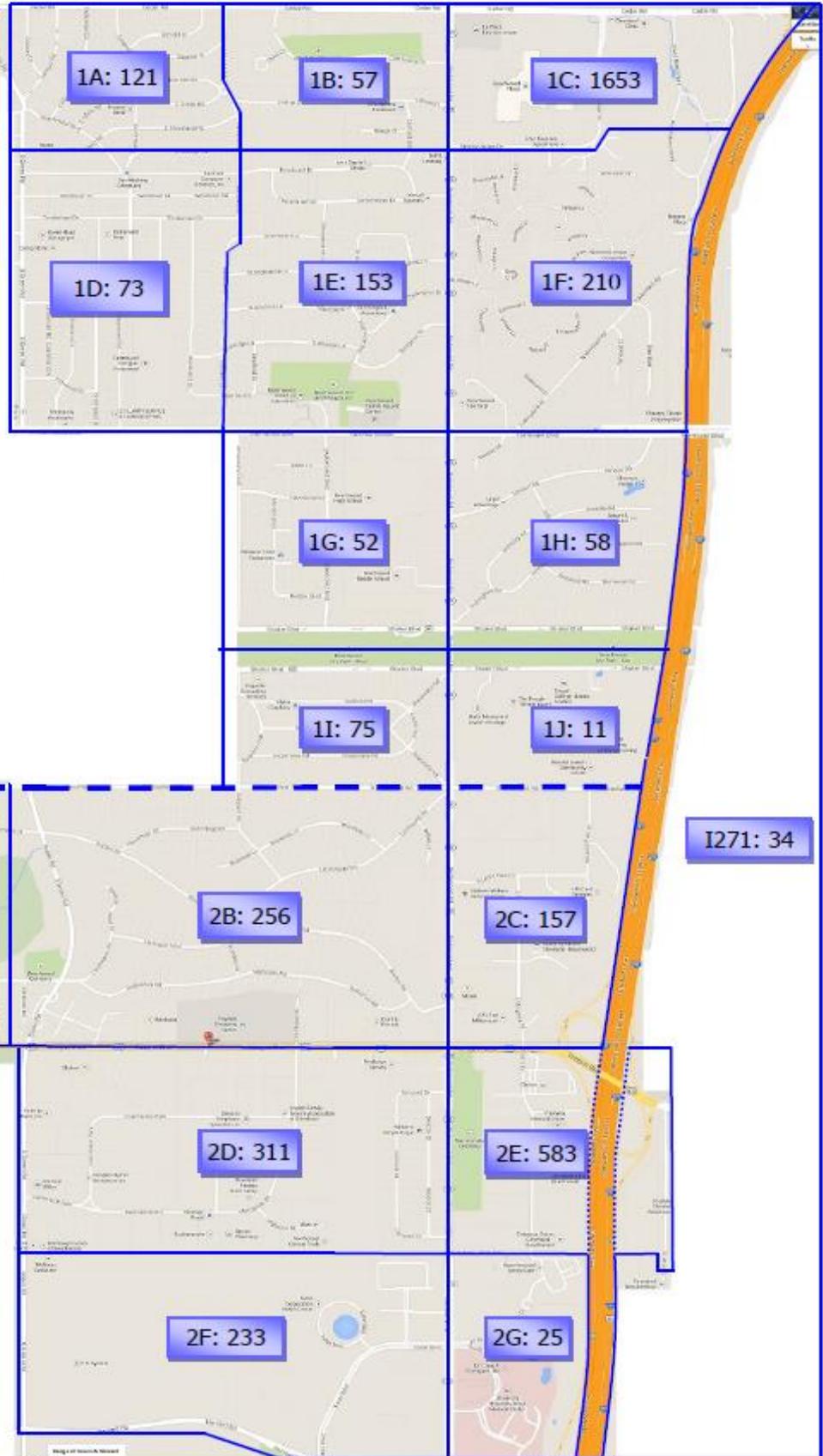


The Beachwood Department of Fire~Rescue will continue to strive to educate our members with the newest techniques, technologies and information as it becomes available.

Captain Steve Holtzman

CALLS FOR SERVICE: EMS RESPONSES

**EMS Response
by Zone
2016**



EMS Response: District 1
2,463

EMS Response: District 2
1,648

EMS Call Details: Nature of Call

Provider Impression	Number
Abdominal Pain / problems	119
Airway obstruction	10
Allergic Reaction	24
Altered Level of consciousness	153
Behavioral / psychiatric disorder	187
Cardiac arrest	50
Cardiac rhythm disturbance	63
Chest pain / discomfort	188
Diabetic symptoms (hypoglycemia)	35
Hyperthermia	3
Hypothermia	1
Hypovolemia (shock)	5
Obvious death	7
General medical, not otherwise listed	1996
Poisoning / drug ingestion	22
Pregnancy / OB delivery	6
Respiratory distress	267
Respiratory arrest	2
Seizure	50
Sexual assault / rape	1
Stroke / CVA	53
Syncope / fainting	109
Traumatic injury	740
Non-traumatic bleeding	51
Vaginal hemorrhage	1

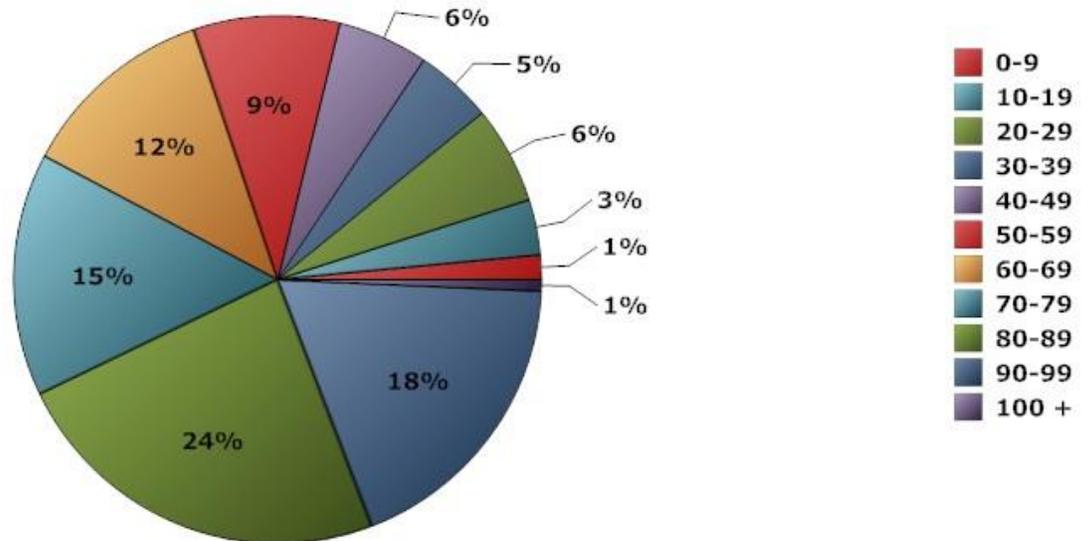
Total Patients: 4143

EMS Response Information by Patient Age

A total of 4,143 patients were responded to in 2016:

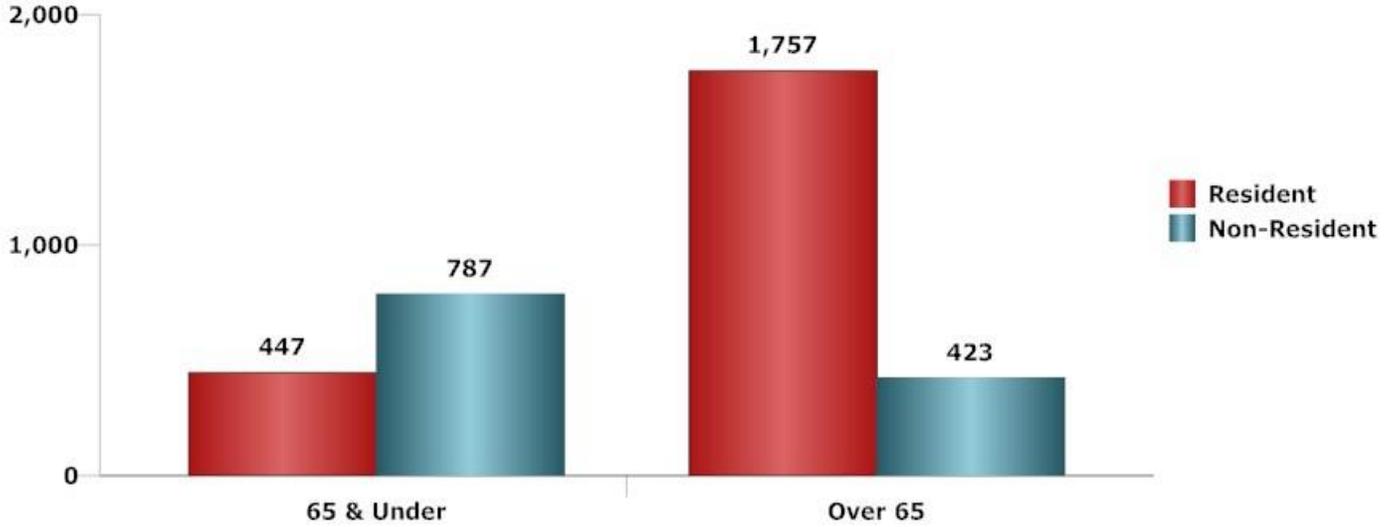
- 3,775 patients were assisted, treated and or transported by our EMS crews.
- 368 patients refused treatment /transport or did not require treatment.
- 2,609 people were residents of Beachwood (2,204 transported)
- 1,210 non-residents were transported
- 1,234 patients transported were 65 or under
- 2,180 patients transported were over 65 years old
- Average age of patients transported was 68

Percentage of EMS Calls by Age Range

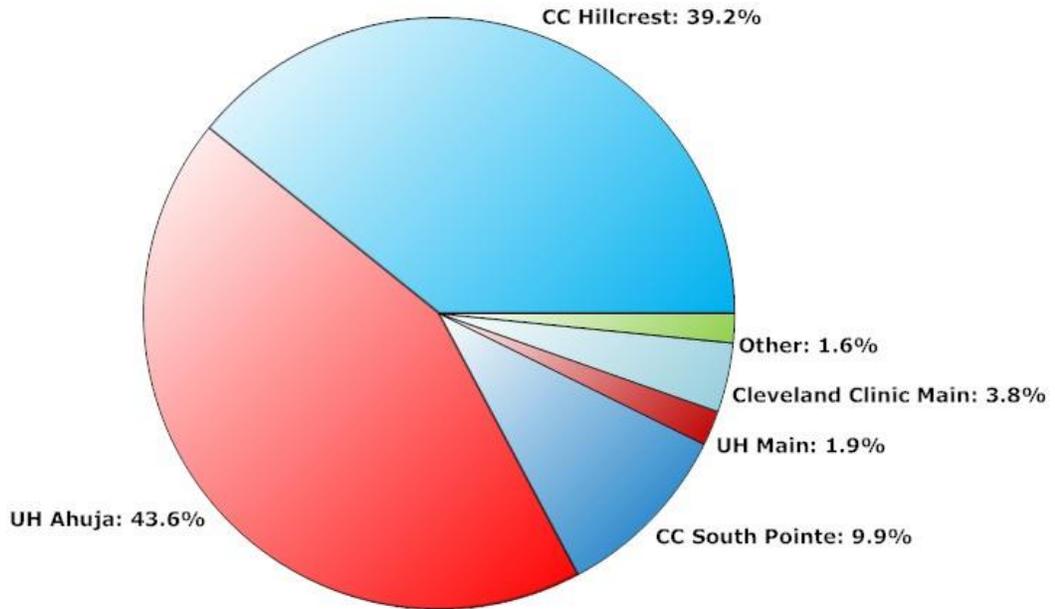


EMS Transport Data

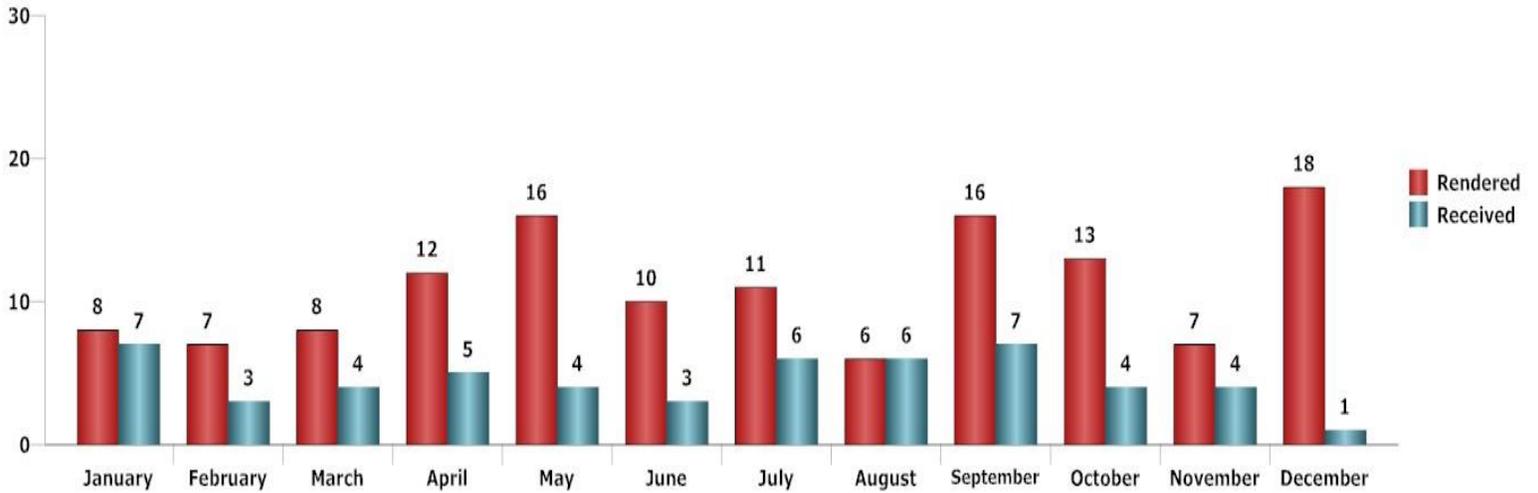
2016 Patient Transports



2016 Hospital Transports



2016 EMS Mutual Aid



Total EMS Mutual Aid Calls Rendered: 132

Total Mutual Aid Calls Received: 54



EMS Training

Beachwood Fire Department has always strived to be on the cutting edge of new ideas and concepts in the delivery of Emergency Medical Services (EMS). In the late 1970's, the Beachwood Fire Department started ambulance service with a group of Paramedics that graduated from Brentwood Hospital Paramedic program. Today we have 39 full time Paramedics, and 1 Emergency Medical Technician (EMT). The Department transports sick and injured patients to area hospitals for advanced treatment, and medical observation.

In 2016, BFD received several new pieces of equipment to aid in our delivery of life saving techniques. We received a grant from The Ohio Department of Public Safety in the amount of \$2,750.00. With that grant money, we purchased 3 King Vision video laryngoscopes. These devices allow Paramedics to perform difficult endotracheal intubations with a video screen to visualize upper airway anatomy. The Department also purchased a new LIFEPAK 15 monitor/defibrillator to replace an older unit that is carried on the Rescue Squad. A LUCAS chest compression system was purchased to deliver high quality mechanical CPR to patients in cardiac arrest.

In November, the department sent 6 members to the Northern Ohio Trauma Symposium (NOTS) at the Huntington Convention Center of Cleveland. During this two day conference, speakers from area Hospitals lectured on the latest updates in trauma that applies to pre hospital personnel. Members earned a total of 12 hours of continuing education to be applied for recertification.

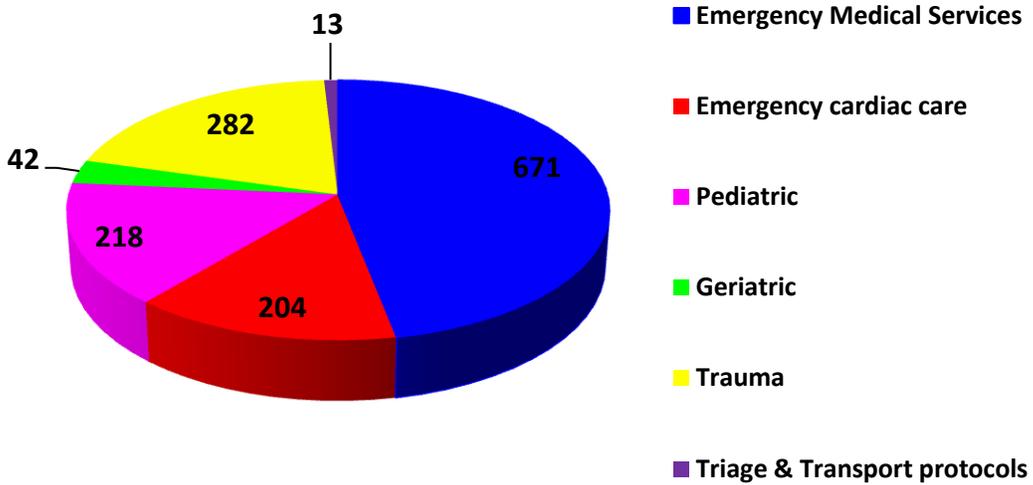
Below is a basic break down of total EMS training hours required by the State of Ohio for recertification for EMT- Basic and EMT- Paramedics earned by Department members.

<u>Category</u>	<u>Total Hours</u>
General EMS training	671
Emergency Cardiac Care	204
Pediatric	218
Geriatric	42
Trauma	282
Trauma/Triage protocols	13

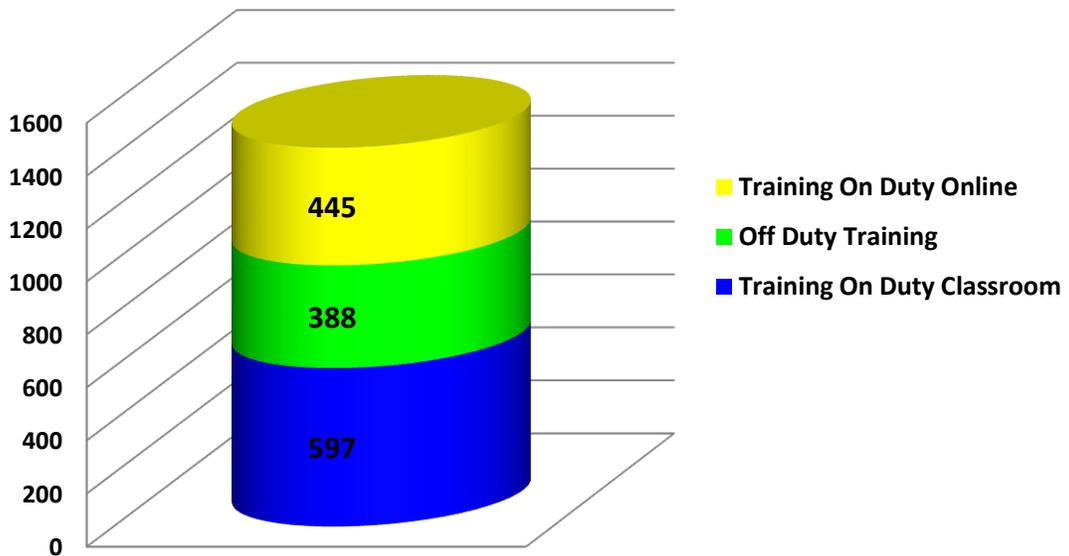
Totals:

Training on Duty Classroom	597
Off Duty Training	388
Training On Duty Online	445

2016 EMS Training Hours



2016 EMS Training Hours



Lieutenant Mike Iacobucci

EMS Partial Cost Recovery Program

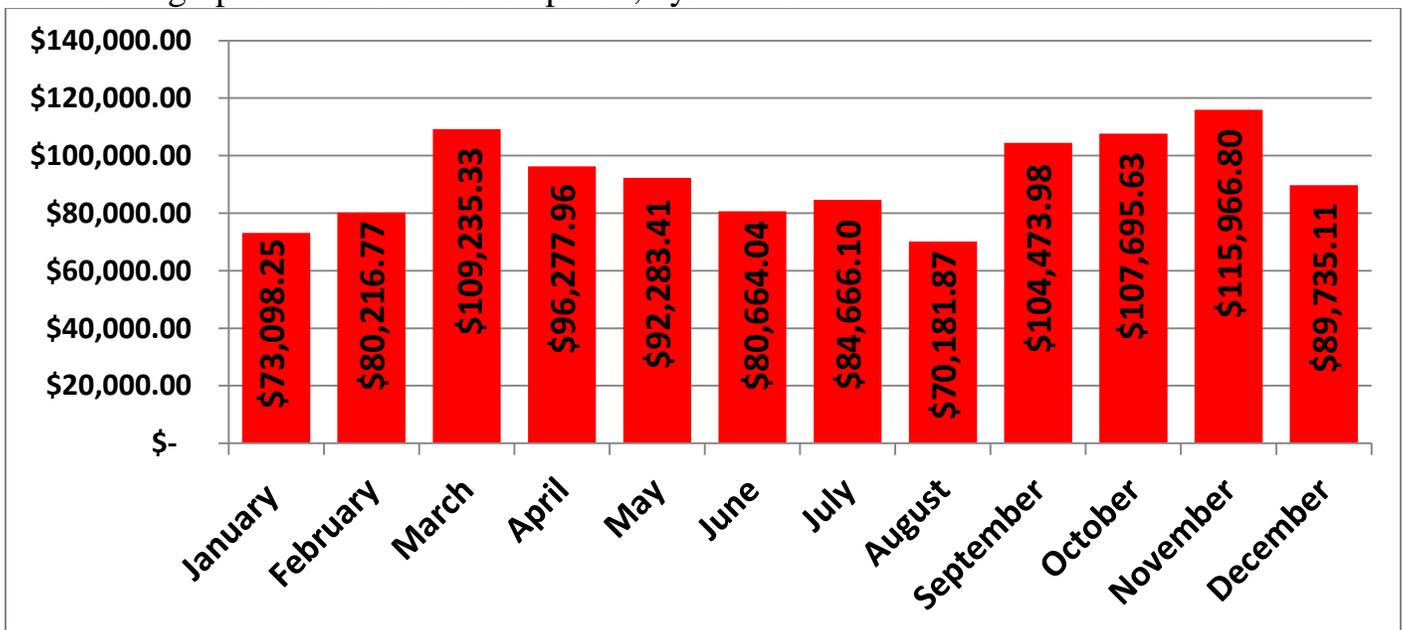
As our call volume continues to rapidly increase, so do the funds generated through our partial cost recovery program. 2016 brought an increase of nearly \$35,000 over 2015, the highest amount to date. Below is a breakdown of all money charged, deposited and adjusted in 2016.

2016

	Charges	Deposits	Adjustments
January	\$ 121,045.00	\$ 73,098.25	\$ 59,451.28
February	\$ 128,005.50	\$ 80,216.77	\$ 67,053.75
March	\$ 75,140.10	\$ 109,235.33	\$ 114,583.20
April	\$ 98,210.00	\$ 96,277.96	\$ 82,363.56
May	\$ 107,485.00	\$ 92,283.41	\$ 82,786.79
June	\$ 113,901.00	\$ 80,664.04	\$ 76,736.07
July	\$ 73,537.30	\$ 84,666.10	\$ 74,115.03
August	\$ 129,296.00	\$ 70,181.87	\$ 68,293.39
September	\$ 122,955.35	\$ 104,473.98	\$ 88,795.39
October	\$ 122,658.50	\$ 107,695.63	\$ 99,917.69
November	\$ 114,252.00	\$ 115,966.80	\$ 98,115.52
December	\$ 101,833.50	\$ 89,735.11	\$ 77,050.79
Totals	\$ 1,308,319.25	\$ 1,104,495.25	\$ 989,262.46

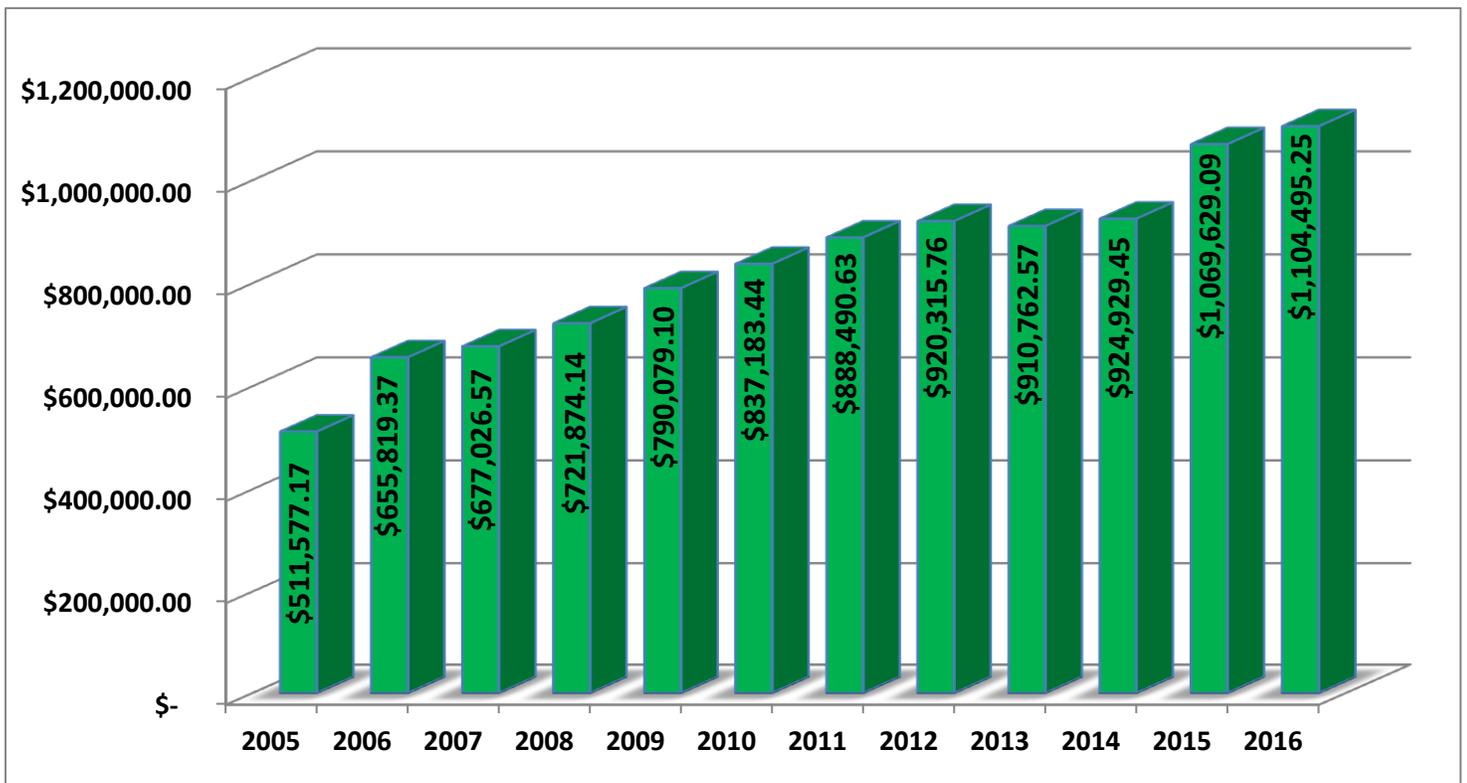
The total amount of money received in 2016: **\$1,104,495.25**

The graph below shows all deposits, by month:



The City of Beachwood has continued to maintain the practice of billing Beachwood residents as well as individuals employed within the City through their insurance only; they are never responsible for any out of pocket costs. The money that is written off as a result of this practice is outlined in the adjustments column of the table on the previous page. It should be noted that the adjustments that are represented in this table can date back as long as a year prior to January of 2016, so these are not solely adjustments made for 2016 EMS calls, it is a sliding time frame.

The below graph outlines the total deposits, by year, since the beginning of the program in 2005:



Total revenue generated for the City of Beachwood since the beginning of the program in 2005: \$10,012,182.54

Rebecca Globokar

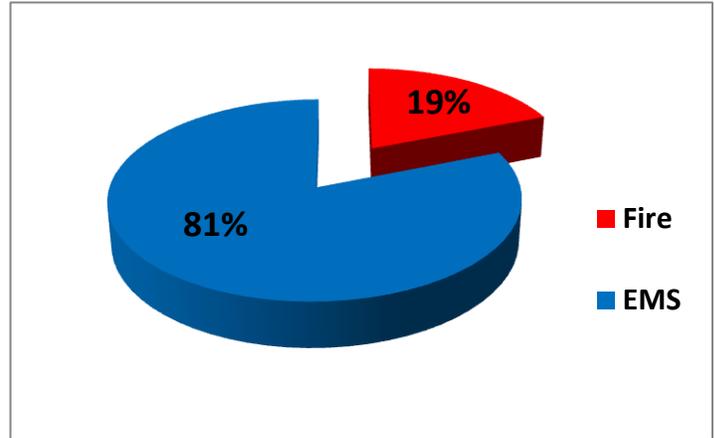
EMS & FIRE

COMBINED

STATISTICS

EMS and Fire: Statistics

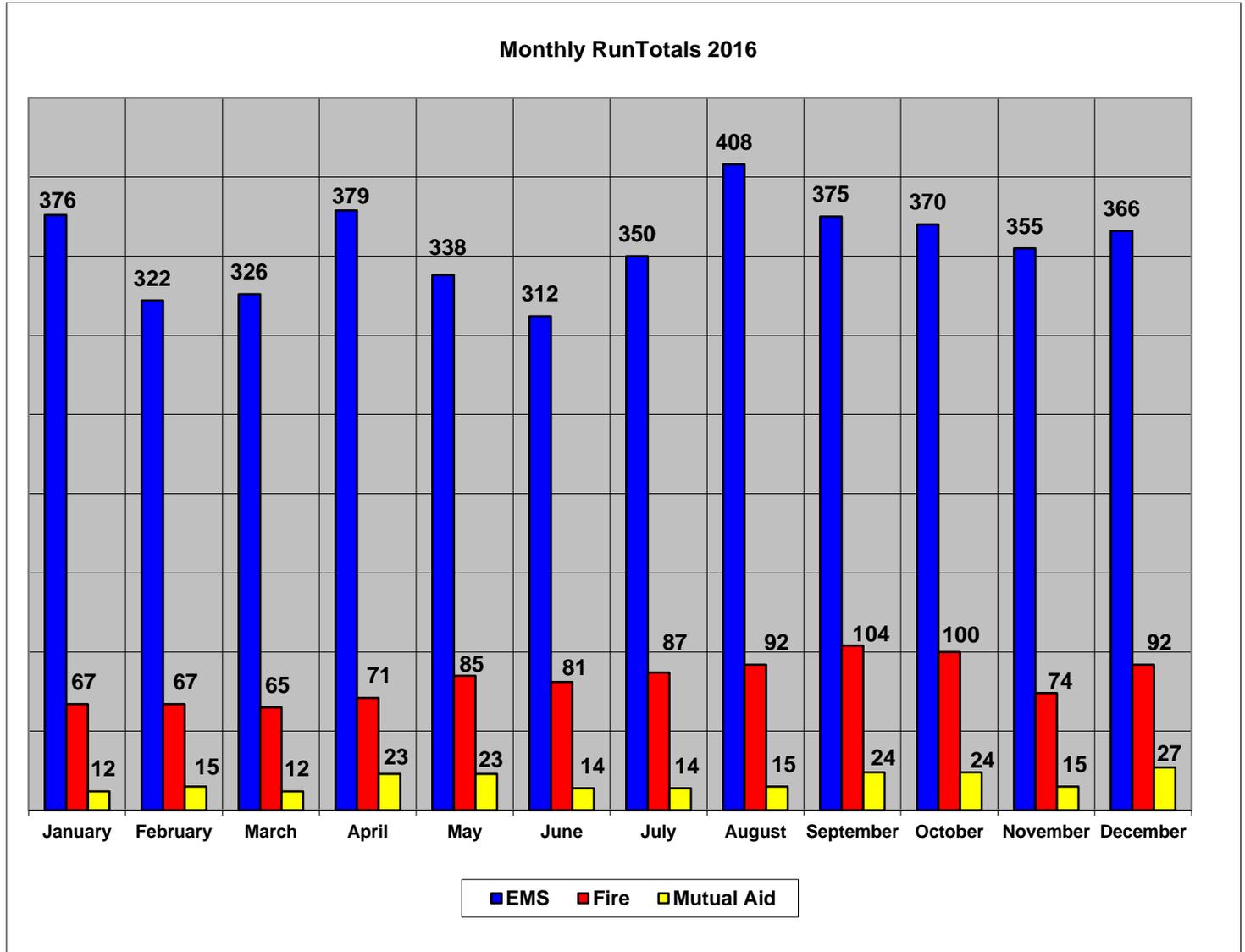
The Beachwood Department of Fire-Rescue responded to 5,262 calls for service in 2016; another *record setting number*. Of the 5,262 calls that we responded to, 5,044 were calls located in Beachwood. 218 calls were mutual aid calls to surrounding cities. The table below outlines all calls responded to for the year by station.



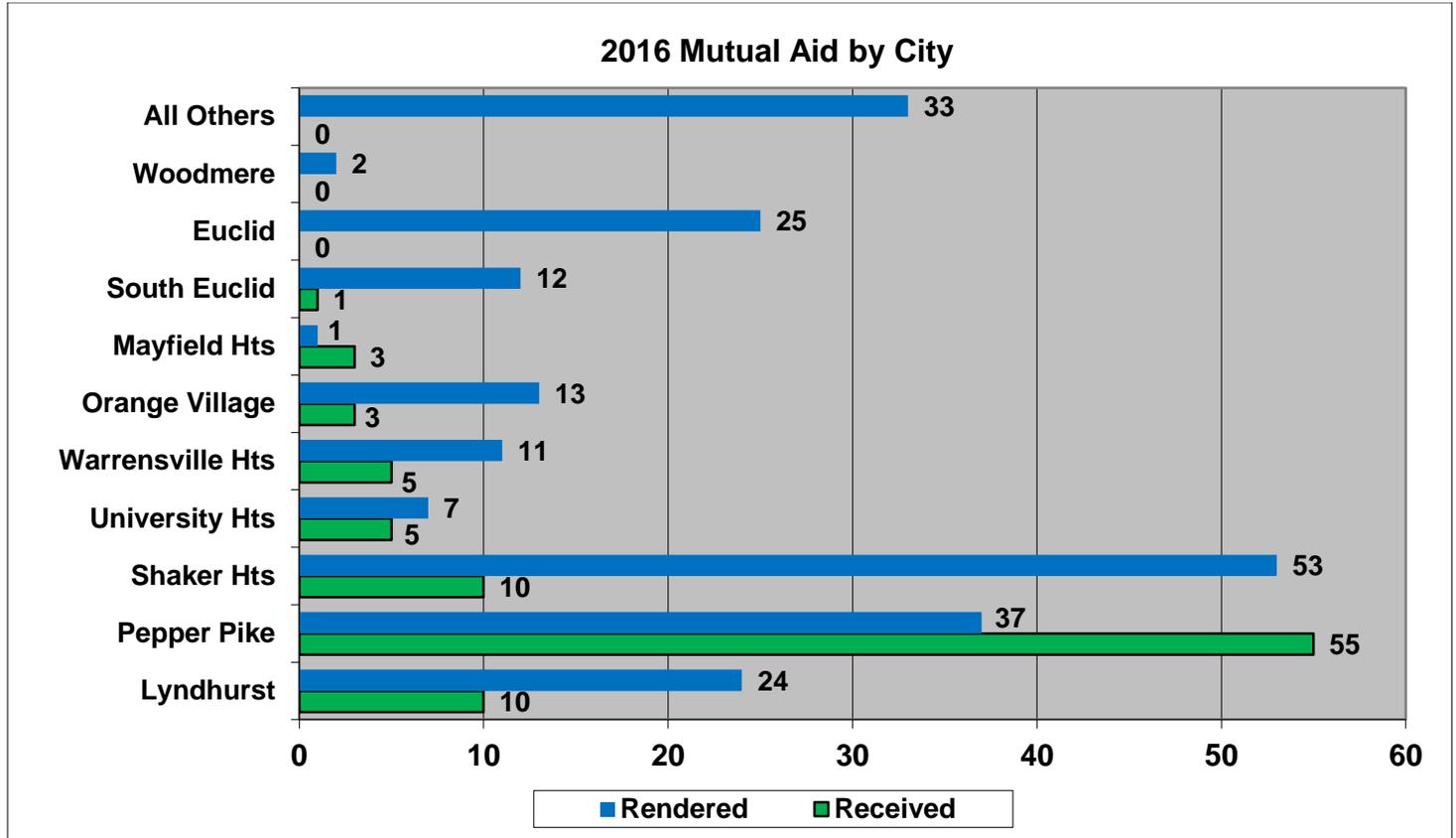
	Runs by District		Monthly Totals		Mutual Aid			
					Rendered		Received	
	St 1	St 2	EMS	Fire	Fire	EMS	Fire	EMS
January	252	179	376	67	4	8	0	7
February	207	167	322	67	8	7	0	3
March	207	172	326	65	4	8	3	4
April	238	189	379	71	11	12	1	5
May	243	157	338	85	7	16	0	4
June	203	176	312	81	4	10	1	3
July	243	180	350	87	3	11	0	6
August	283	202	408	92	9	6	3	6
September	271	184	375	104	8	16	6	7
October	256	190	370	100	11	13	1	4
November	245	169	355	74	8	7	2	4
December	258	173	366	92	9	18	1	1
Totals	2906	2138	4277	985	86	132	18	54

Beachwood calls: 5,044
 Mutual aid calls: 218
 Total calls: 5,262
 % EMS: 81.3%
 % Fire: 18.7%
 % Mutual Aid: 4.1%

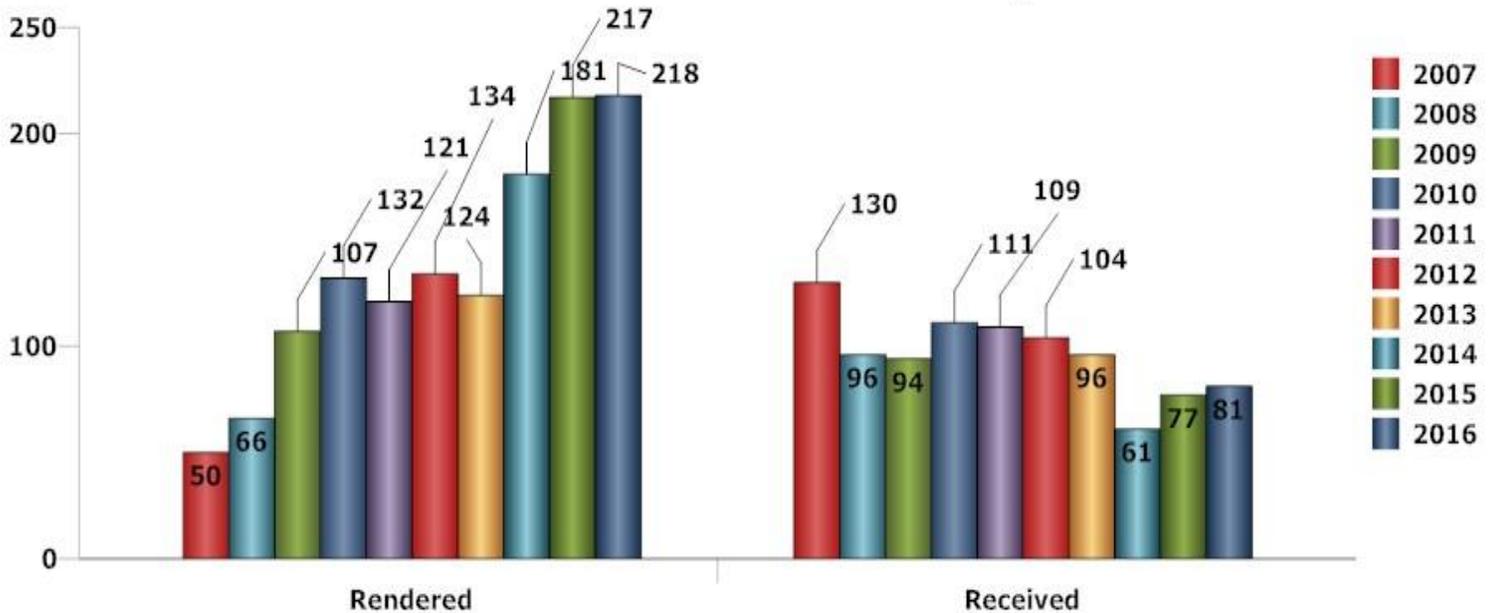
The graph below outlines all run totals by month for 2016:



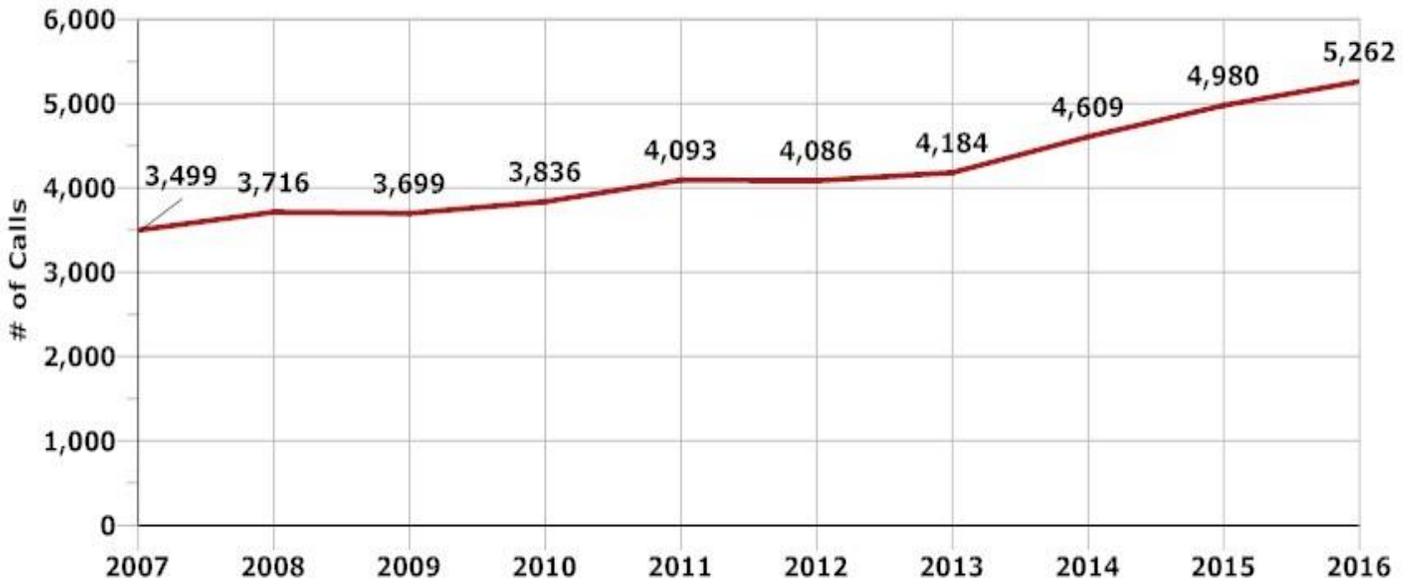
2016 Mutual Aid Information



10-Year Mutual Aid Comparison



10-Year Response Comparison



FIRE PREVENTION REPORT

Fire Prevention

The Beachwood Bureau of Fire Prevention supports the mission of the Fire Department through fire inspections and code enforcement. Emphasis is given to education during the code enforcement process to ensure managers and owners are aware of the necessity for the required fire prevention measures. Fire Prevention inspections for enforcement of the fire code allow for:

- Identification of unsafe property and conditions, such as improper storage and inadequate suppression.
- Identification and remediation of impaired fire protection systems and alarm systems.
- Ensure that code requirements for functional testing are adhered to in a timely manner.

The Bureau of Fire Prevention also assists in building familiarizations, where department members conduct a walk-through “pre-plan” of various occupancies and buildings in the City. This is to ensure familiarity with floor plans, hazards, occupancy loads and distributions, and approaches.

The Bureau of Fire Prevention is a member of the Hillcrest Regional Fire Investigation Strike Force and the Northeast Ohio Fire Prevention Association (NEOFPA) which allows the surrounding communities to pool resources and talent in the investigation of fires and provides valuable networking in areas of continuing education. Fire Prevention Officer Shaun Lutz is currently serving his fourth term in the position of Vice President of the NEOFPA. His position on the Executive Board provides invaluable insights into state and regional code changes and educational opportunities.

Other duties of the Bureau of Fire Prevention are:



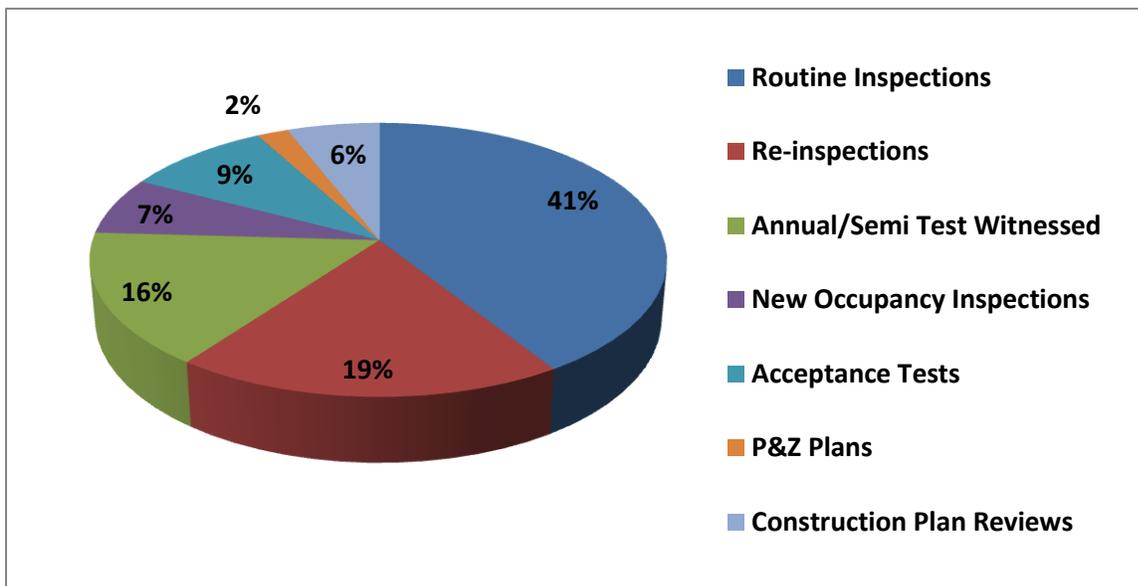
- Conducting pre-inspection and acceptance testing on all new or modified fire lines and standpipes, and sprinkler, kitchen hood suppression and fire alarm systems.
 - Witnessing annual and semi-annual testing on existing systems.
 - Fire and arson investigation to determine origin, cause, and circumstances of fires.
 - Coordination of investigations and/or filing criminal charges with appropriate authorities.
- Reviewing architectural plans on all new construction, building renovations, and new or upgraded fire protection systems to ensure compliance with applicable fire safety codes and standards.

- Reviewing plans and reporting on findings as part of the Planning and Zoning process to ensure fire prevention related items are in place and adequate before final plans are submitted for approval.
- On site observation and inspection during the construction process to ensure all underground and above ground fire protection piping is installed to NFPA standards.

Inspections Conducted

295 hours were dedicated to new construction and over 1,475 inspections, systems tests, and other Fire Prevention procedures were performed by the Fire Prevention Bureau in 2016. The Fire Inspectors also assisted in the resolution of various alarm, sprinkler, and safety concerns brought to their attention by firefighters, the Police Department, and the general public.

The chart below indicates the percentage of inspections/activities performed in 2016:



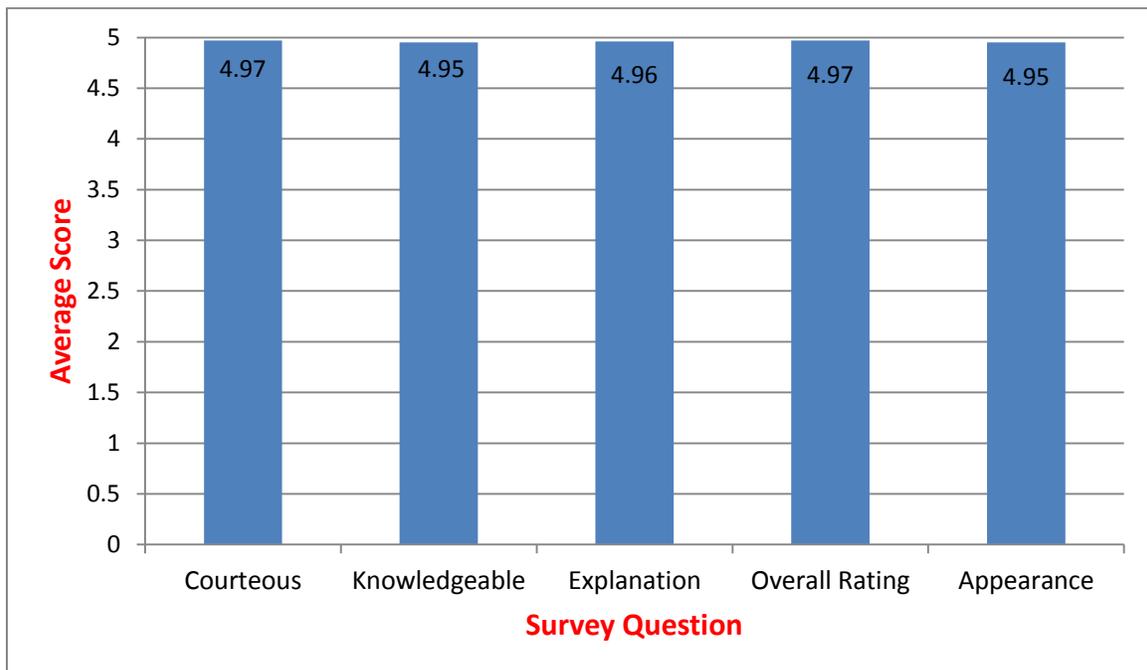
Through building working relationships and educating business owners, managers, and facilities workers, the Fire Prevention Bureau takes great pride in the consistently decreasing number of violations discovered each year. Educating our businesses in Fire Prevention greatly reduces major hazards. The steady decrease in violations and commercial fire alarm response is a proven track record that Fire Prevention continues the objectives of education and prevention in the City of Beachwood.

Total Violations Discovered in 2016

Ohio Fire Code		# of violations
105.2.3	Occupancy permit	010
304.2	Storage	004
315	Miscellaneous combustibile material storage	039
315.2.1	Clearance from ceiling	006
315.2.3	Combustible materials storage in equipment room	002
503.4	Obstruction of fire apparatus access	002
604.3	Generator records and maintenance	007
605.3	Electrical equipment clearance	024
605.5.3	Maintenance electrical	028
605.6	Unapproved electrical conditions	019
607.3	Elevator keys	004
703.1	Fire-resistance-rated construction/maintenance	050
703.2.3	Door operation	005
901.6.1	Fire protection system maintenance	025
904.5.1	Kitchen hood fire system test semi-annual	008
904.11.6.3	Cleaning of hood required	004
905	General sprinkler system deficiencies	009
906.2	Fire extinguishers	111
906.5	Fire extinguisher proper installation	036
906.6	Fire extinguisher ease of access	004
907	General fire alarm deficiencies	003
907.20	Alarm testing and maintenance	034
1003.6	Egress continuity	036
1011.5.3	Power source	152
1025.9.1	Minimum aisle width	011
1027.5	Illumination emergency power	254
1303.2	Dust accumulation	003
3003.5.3	Securing compressed gas containers/cylinders/tanks	008
NFPA		
13.6.2.6.4	Protective covering	022
13.6.8.2	FDC caps	002
72.10.16.3.1	Fire alarm annunciator access	002
Other	Additional Violations and Notes	008

Fire Prevention Customer Satisfaction Survey

Our success depends upon meeting the needs of our customers. The Commission on Fire Accreditation International considers customer surveys to be an essential component of all Accredited Agencies. Our customer's feedback helps us to improve our service and ensures that we continue to meet our customer's needs and maintain our Accredited Status. The chart below gives you the average scores that the inspectors received on a 0-5 scale in 2016.



2016 Fire Investigations Conducted

<u>Date</u>	<u>Address</u>	<u>Cause</u>
March 8 th	23900 Chagrin Blvd.	Undetermined
March 9 th	25446 Bryden Road	Accidental
August 31 st	24560 Greenwich Ln.	Undetermined

Fire Prevention Permits

Annual permits are issued to City businesses in order to track the use of hazardous and flammable materials that are stored in reportable quantities or any manufacturing process that may be deemed hazardous by the Ohio Fire Code. Annual permits are also issued for places of assembly such as temples, schools, and restaurants. Occupancies that have the ability to have large gatherings must be monitored for issues of general safety and egress.

Special permits are issued to companies and persons doing limited-time work or holding special events in Beachwood. These permits alert the Department of Fire-Rescue to the temporary gathering of large numbers of people and or use of chemicals, materials and hazardous or flammable procedures, such as welding and storage of propane or other fuels for heat or construction use. Fire Prevention Bureau personnel inspect each site requiring special permits to ensure that all required safety devices and precautions are present and observed.



In 2016, the Beachwood Department of Fire-Rescue collected \$3,825.00 in both annual and special permit fees. Numerous additional fees for Fire Prevention are collected through the Building Department.

Fire Prevention Training

The State of Ohio mandates that Fire Inspectors must attend 30 hours of continuing education over a 3 year period. Inspectors are also required to maintain firefighter II certification which requires an additional 54 hours of continuing education. This comes to a total of 84 hours over a three year period. As stated earlier, our participation in the Northeast Ohio Fire Prevention Association provides our inspectors with monthly opportunities to obtain this valuable training. Examples of training acquired in 2016 are listed below:

Fire Pattern Certification Training	March 9 th -11 th	24 hours
Continuing Education collectively accumulated	2016	60 hours

We will continue to keep current with new methodologies and technologies in the fire investigative and inspection fields to provide the best service possible to the residents of Beachwood.

Fire Prevention Officer Shaun Lutz

SPECIAL OPERATIONS REPORTS

Technical Rescue

The annual report for 2016 is combined between the two rescue teams the department uses for specialized emergencies. The two teams, **Hillcrest Technical Rescue (HTRT)** and **Heights Area Special Rescue (HASRT)** are into the process of combining into one entity. This merger has been a work in progress throughout the year. The process, as of submitting this report, is in the final stages of 15 cities accepting the final version of the proposed merger. Once approved on team will form which will combine manpower, equipment, vehicles and training. Not only will this be a substantial cost saving for the area departments, but especially for Beachwood because they will no longer be contracted with two entities.

Training

The HASRT and HTRT have trained together for the last two years. This practice continued for 2016. Training topics covered in 2016 were: rope rescue, dive/boat operations, trench rescue, confined space rescue, collapse rescue, and ice rescue. This combine effort has assured all members receive the same training and procedures. This will assist in the transition from two teams to one when combined. Team members also continued to active participants in the County Urban Search and Rescue Team (USAR). This team had technical rescue specialist from Cuyahoga, Summit, Lake, Lorain and Geauga counties. USAR training was combined into the monthly drills the teams currently conduct.

DISCIPLINE	HOURS
Rope Rescue	63
Confined Space	49
Trench Rescue	31
Structural Collapse	128
Dive/Boat Ops	14
Ice rescue	6

An additional 128 hours of Field Force Training was also attended. This training was in preparation for the RNC and potential protester events.

The total training hours obtained by the department members was: 419

Request for Service

In addition to joint training, the teams would combine on call outs for the utilization of manpower. On the majority of the callouts both teams were activated. Each team has their own process for notifying personnel and this would be requested by the team leader in his or her jurisdiction.

In 2016 there were 8 requests for service.

Nature of Call	Location
Victim in a Ravine (Rope Rescue)	Cleveland Heights
Vehicle in a house (Structural Collapse)	Highland Heights
Vehicle in a house (Structural Collapse)	Mayfield Village
Body search (Dive)	Conneaut
Victim in a ravine (Rope Rescue)	Richmond Heights
Vehicle into a house (Structural Collapse)	University Heights
Vehicle into a house (Structural Collapse)	Maple Heights
Vehicle into a garage (Structural Collapse)	Mayfield Heights

Captain Scott Hank

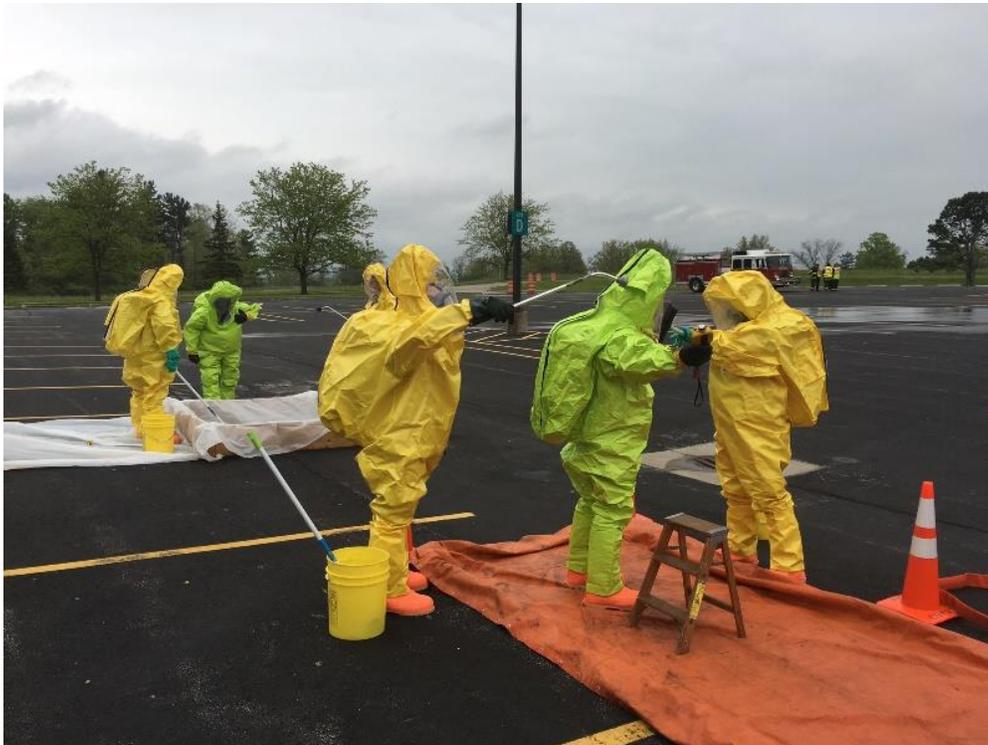


Hazmat

Hazardous materials, more commonly referred to as chemicals, are basic elements found and used in our daily lives. Whether it is natural gas to heat and cool our homes and businesses or chemicals used in everyday processes, the benefits of their existence and use far outweigh the inherent risks that hazardous materials might pose to the public and environment. Used and stored properly, chemicals generally do not present a risk to humans or other living organisms. Incidents, however, occur and necessitate immediate action.

The Beachwood Department of Fire-Rescue is an **all-hazards response organization** that is committed to mitigating incidents within our borders and immediate surrounding areas. Hazardous Material incidents can occur during the production, storage, transportation, use or disposal of chemicals. Hazardous materials can be found in solid, liquid, or gaseous forms.

The Department is trained to address response challenges that occur under natural, technological, human error, or purposeful circumstances. Line personnel are certified as Hazmat Technicians; 100% of the line personnel possess the certification. Hazmat Technicians have specialized training to perform entry into hazardous atmospheres, mitigate emergencies, and execute decontamination operations. Incident events that exceed the resources and/or scope of the department are supplemented and/or resigned to a regional mutual aid resource, the Chagrin/South East HAZMAT Response Team.



The Chagrin/South East HAZMAT Response Team provides highly trained personnel and specialized equipment to support and mitigate the consequences of an incident involving hazardous materials. The team provides services to 30 communities in Cuyahoga and Geauga counties, as well as, the region. The Department has committed three members to this team. The members include:

- Lieutenant Chad Thompson
- Firefighter Jason Brooks
- Firefighter Luke Ockenden

Accomplishments in 2016:

- Firefighter Luke Ockenden named to the team.
- Firefighter Jason Brooks promoted to the position of Hazmat Control Officer (HCO) within the Chagrin/South East Hazmat Response Team.
- Department members assigned to the Chagrin/South East Hazmat Response Team completed a combined 63 hours of continuing education.
- Department acquired a portable Hydrogen Cyanide Meter, the ToxiRae Pro, and placed the unit in service.
- Department participated in a large scale exercise conducted by the Local Emergency Planning Committee (LEPC) on May 21, 2016.
- Department hosted a Hazmat Technician level course February 29, 2016 through March 4, 2016.

Assistant Chief Bill Peskura and Lieutenant Chad Thompson

Public Relations

Throughout the year the Beachwood Department of Fire-Rescue engages the community to provide fire and emergency safety information. Programs which the department delivers are designed to meet the needs of the specific organization, demographic and or event. Presentations include: fire safety and awareness, fire extinguisher use, station tours, CPR instruction, first aid training and general public relations. While attending events or making presentations, personnel distribute educational materials to serve as reminders of the safety message which was presented. Children are often given sticker, plastic helmets, and refrigerator magnets, while adults are provided with educational brochures.



In 2016, the department participated in 31 events. Some of the main events were as follows:

- | | |
|---|---|
| <ul style="list-style-type: none">• Honk n Hauling• Beachwood Police CPR Training• Beachwood Library Babysitting Class• Race for the Place• Ahuja Safety Fair• Glenhill Block Party• Sulgrave Oval Block Party• Hilltop Elementary Last Day Picnic | <ul style="list-style-type: none">• Family Fun Day• Beachwood Safety Town• Senior Police Academy• Camp Israel Day Camp• Beachwood Day Camp• Hilltop School Safety Assembly• Stratton House Fire Safety Talk• RH Myers Fire Safety Talk |
|---|---|



In addition to the events that department operations personnel attend, during 2016, Fire Prevention Officer Shaun Lutz, started to provide education to 109 - 3rd grade students at Hilltop Elementary Schools. Education provided is the State of Ohio “Sparky the Fire Dog” educational program. Classroom materials are published by the National Safety Council and distributed to children as they complete each course component.

Course components include:

Calling 911

Crawl Low in Smoke

Get Out Stay Out

Look, Listen and Feel the Door

Have a Meeting Place

This program is a great avenue to introduce fire safety to children and enable them to interact with fire department personnel.

Lieutenant Anthony Strazzo



Tactical Paramedics - SWAT

The Beachwood Department of Fire-Rescue provides tactical paramedics to support the E.D.G.E. (Eastern Department Group Enforcement) Regional SWAT Team. The tactical paramedic program is coordinated by Lieutenant Anthony Strazzo. Lt. Strazzo is responsible for ensuring training requirements are adhered to, coordinating the response of tactical paramedics to incidents, and acting as the liaison between the police and fire department during SWAT situations. The overall mission of a tactical paramedic is to provide emergency and preventive care to SWAT officers during deployments and trainings. In addition, tactical medics will provide care to suspects and civilians who may become injured during incidents.

Personnel:

Current members of the team include:

Lt. Anthony Strazzo

Lt. Matt Domonkos

FF Anthony Kustra

Lt Mike Iacobucci

FF Drew Spisak

FF Scott Frey

FF Dave Peterson

Activations: During 2016 there were 72 activations of the Tactical Medics and EDGE SWAT Team. Missions were broken down into the following categories:

Narcotics Warrants: 44

Arrest Warrants: 18

Barricaded Persons: 4

Republican National Convention: 6

Total: 72



Training:

Team members attend specialty trainings throughout the year to gain knowledge and skills to perform in the austere environment of a tactical situation. Members attended monthly drills which focused on topics such as; officer down response, team movements, weapons safety and capabilities, distraction devices, gas deployment, building searches, defensive tactics and hostage rescue situations.

The team completed a total of 295 hours of training in 2016.

Lieutenant Anthony Strazzo

Honor Guard

The Beachwood Honor Guard was formed in early 1999 to Honor Beachwood's 50th anniversary. Over those 17 years the Honor Guard has attended fallen Firefighter funerals, attended the national ceremony for the fallen Firefighters at the national academy, presenting the colors at local ceremonies and sporting events and many other events. It is our way to pay our respects to those that serve the public and in some cases give their life serving others.

Honor Guard Members

Captain Steven Holtzman
Lieutenant Michael Bell
Lieutenant James Leffler
FF Donald Balog
FF Jason Brooks
FF Greg Liggett
FF Michael Lucas
FF Dave Peterson



2016 Events

September 11, 2016
November 6, 2016

Dapp Golf Championship-Canterbury Golf Club
Veteran's Day Memorial-Green Rd Cemetery

In 2016 there were 87 line of duty deaths nationwide. Our Department continues to learn from those that have died in the Line Of Duty. Line of duty deaths are reviewed during training to teach our department members to operate safely in an attempt to prevent a tragedy from occurring here. All of these men and women paid the ultimate sacrifice with the hope that they could make a difference in the life of someone who needed their help. The Beachwood Fire Department Honor Guard would like to honor our fellow firefighters that have paid the ultimate sacrifice.

Captain Steve Holtzman

Vehicle Maintenance and Repair

The Fire Department vehicles are maintained through three levels of expertise. The first level is in house by fire fighters completing daily checks and inspections, washing, waxing and minor repairs. The second level is the Beachwood Service Department mechanics for routine repairs and preventive maintenance. The third level is outside certified contractors: they complete all the testing and certifications of the fire pumps, the Aerials and ground ladders for operation and safety.

We are continuing to treat 1022 and 1025 with rust preventative in an attempt to reduce maintenance costs. Early results look promising in prevention of corrosion. We will continue to monitor the effectiveness of this program over the years.

Additionally, a new squad has been designed and a purchase agreement signed with Horton ambulance. Expected delivery will be February of 2017. This ambulance will be equipped with similar safety features on our newest ambulance (1048). This includes airbags and a harness restraint system for the Paramedics performing patient care. This vehicle will replace our oldest ambulance 1045. 1045 is a 2000 Horton ambulance with over 111,000 miles on it. This unit will be repurposed within the department.

A Committee has been formed to investigate and design a new fire truck. The committee is looking at latest trends and equipment in fire truck design. The committee hopes to order a vehicle in 2017.

Below is a list of our emergency vehicle response vehicles current mileage and assignments:

<u>Vehicle</u>	<u>Unit #</u>	<u>Miles</u>	<u>Assignment</u>	<u>2016 Cost</u>
1998 Pierce Quantum	1012	67,775	Station #1	\$2,137.42
2011 E-One HP 78	1022	30,889	Station #1	\$6,383.83
2012 E-One CR-137	1025	22,180	Station #2	\$5,795.38
2014 Horton Rescue Squad	1048	56,590	Station#1	\$1,081.34
2010 Braun Rescue Squad	1047	97,700	Station #2	\$2,663.83
2008 Braun Rescue Squad	1046	98,541	Station #2	\$9,747.22
1999 Horton Rescue Squad	1045	111,439	Station #1	\$58.01
2007 Chevy Tahoe	1052	99,661	Command Vehicle	\$105.95
2002 GMC 2500	1071	38,194	Station #1	\$3,004.45
2012 Ford Escape	1055	19,698	Fire Prevention	\$156.23
2012 Ford Escape	1053	25,232	Fire Prevention	\$695.58
2008 Ford Ranger	1054	33,722	Fire Prevention	\$401.66
Park Rescue	PR 1	N/A	Shaker Park	\$0.00

Lieutenant Matt Domonkos

This concludes the City of Beachwood Department of Fire-Rescue 2016 Annual Report. Please do not hesitate to contact my office if you should have any questions.

Patrick J. Kearns, Chief

Beachwood Department of Fire- Rescue

