



PARK FOREST FIRE DEPARTMENT

ANNUAL REPORT

2018

COMPASSION

COURAGE

COMMITMENT



MESSAGE FROM THE CHIEF

On behalf of the members of the Park Forest Fire Department, I am honored to present our Annual Report for 2018.

This report illustrates our commitment to the residents, businesses, and visitors of our community and highlights the exceptional work accomplished by our Fire/EMS operations, special teams, fire prevention, and administrative staff.

As the Fire Chief, I am extremely proud of our Fire Department, and the high-level of quality services our members provide on a daily basis. I can attest to the fact our members routinely go “above and beyond” in caring for our customers, while displaying and promoting the mission and values of the PFFD.

Chief Tracy Natyshok





Core
VALUES

Our Six Values sit at the heart of everything we do to benefit our customers, our people and our citizens.

Teamwork

Honesty

Integrity

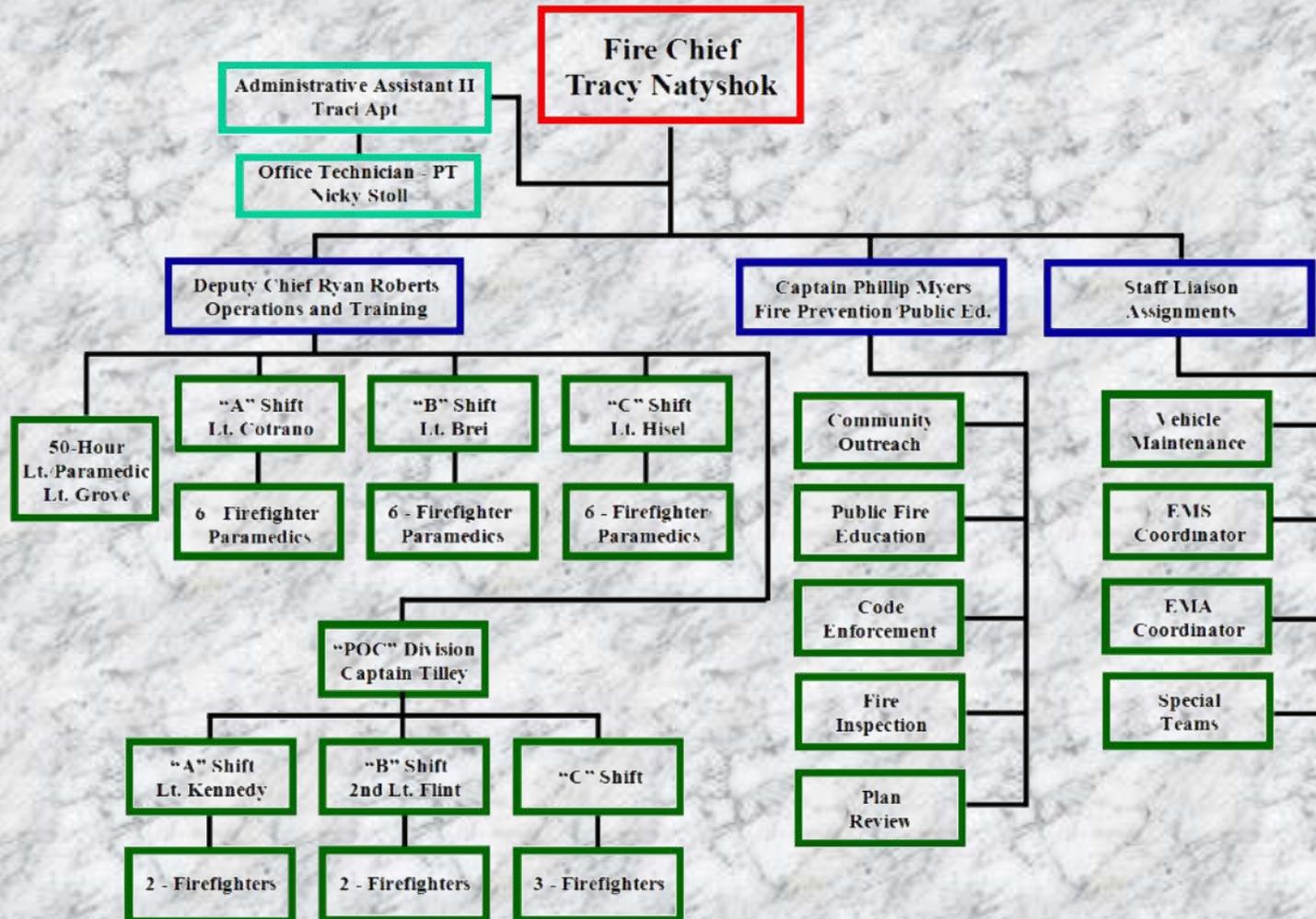
Loyalty

Trust

Respect



DEPARTMENT OVERVIEW





Administration

Department Highlights

- ISO audit: the Insurance Services Office came out to complete an evaluation of the department. ISO periodically evaluates a community's fire protection and assigns an insurance classification number. This classification number is one of several elements used in developing property insurance premium calculations.
- Updated and revised departmental standard operating guidelines and policy/procedure manuals. For this project, the department partnered with Lexipol. Lexipol is a risk management company that helps develop policy management solutions by identifying best practices and federal/state legal considerations.
- Instituted a new paid on premise program that transformed the current paid on call model into a more beneficial, sustainable program. The new POP program will also allow the department to work towards the goal of starting an internship program in 2019.
- Completed an ambulance fee study and updated the Village Code Of Ordinances for ambulance billing.
- Reclassified the day-time firefighter position to Lieutenant.



Honor



Retired Chief Robert Wilcox/Chief Emeritus

Promotion



Neil Grove Promoted to Lt.

Retirement



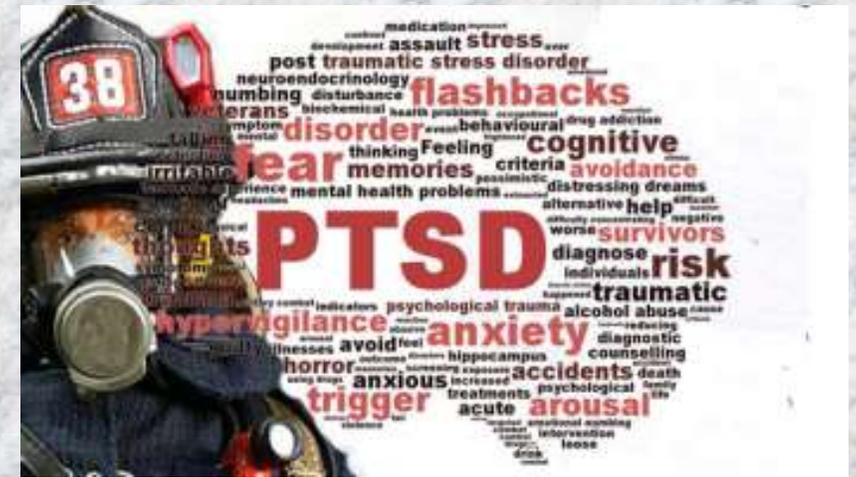
Joe Gray 29 years of service



Safety

Safety Goals

- Cardiac Health
 - Peer Fitness Coordinator on each shift
 - Making workout a daily priority
- Cancer Prevention
 - Providing 2 hoods to each firefighter
 - Provide wipes to remove carcinogens during rehab
 - Making a 2nd set of gear accessible to all members
- Mental Wellness
 - Working with EAP program specializing in first responders



FIREFIGHTING AND CANCER

- In 2006 the University of Cincinnati did a study of 110,000 firefighters and found that we are 2 times more likely of dying from cancer than none firefighters
- 20 cancers were analyzed and 10 developed more frequently in firefighters
 - Testicular Cancer 102%
 - Thyroid Cancer 98%
 - Bladder 89%
 - Multiple Myeloma 53%
 - Non-Hodgkin Lymphoma 51%
 - Skin Cancer 39%
 - Brain Cancer 33%
 - Prostate Cancer 29%
 - Colon Cancer 21%



Budgeting 2018/2019



Personnel Services	• \$2,695,807
Insurance	• \$385,427
Employee Support (including pensions)	• \$1,457,267
Professional Services (SouthCom Dispatch)	• \$105,135
Operating Supplies	• \$58,600
Maintenance	• \$24,346
Capital Outlays	• \$75,000
Miscellaneous Expenditures	• \$2,000
Leases/Rentals (Vehicle Services)	• \$287,258
Utilities	• \$5,000



Grant Funding



OFFICE OF THE ILLINOIS STATE FIRE MARSHAL

The Office of the State Fire Marshall (OSFM) - Small Equipment Grant. The Park Forest Fire Department received \$26,000 for the purchase and installation of a gear washer/extractor and dryer.



The Park Forest Fire Department was awarded \$1,000 courtesy of the Enbridge Safe Community Grant. The money is being used towards training site upgrades.



2018 Call Volume

4,204

CALLS FOR SERVICE



RECORD SETTING YEAR

1,043

TOTAL
FIRE RESPONSES



3,161

TOTAL
EMS RESPONSES



BUSIEST DAY OF THE WEEK

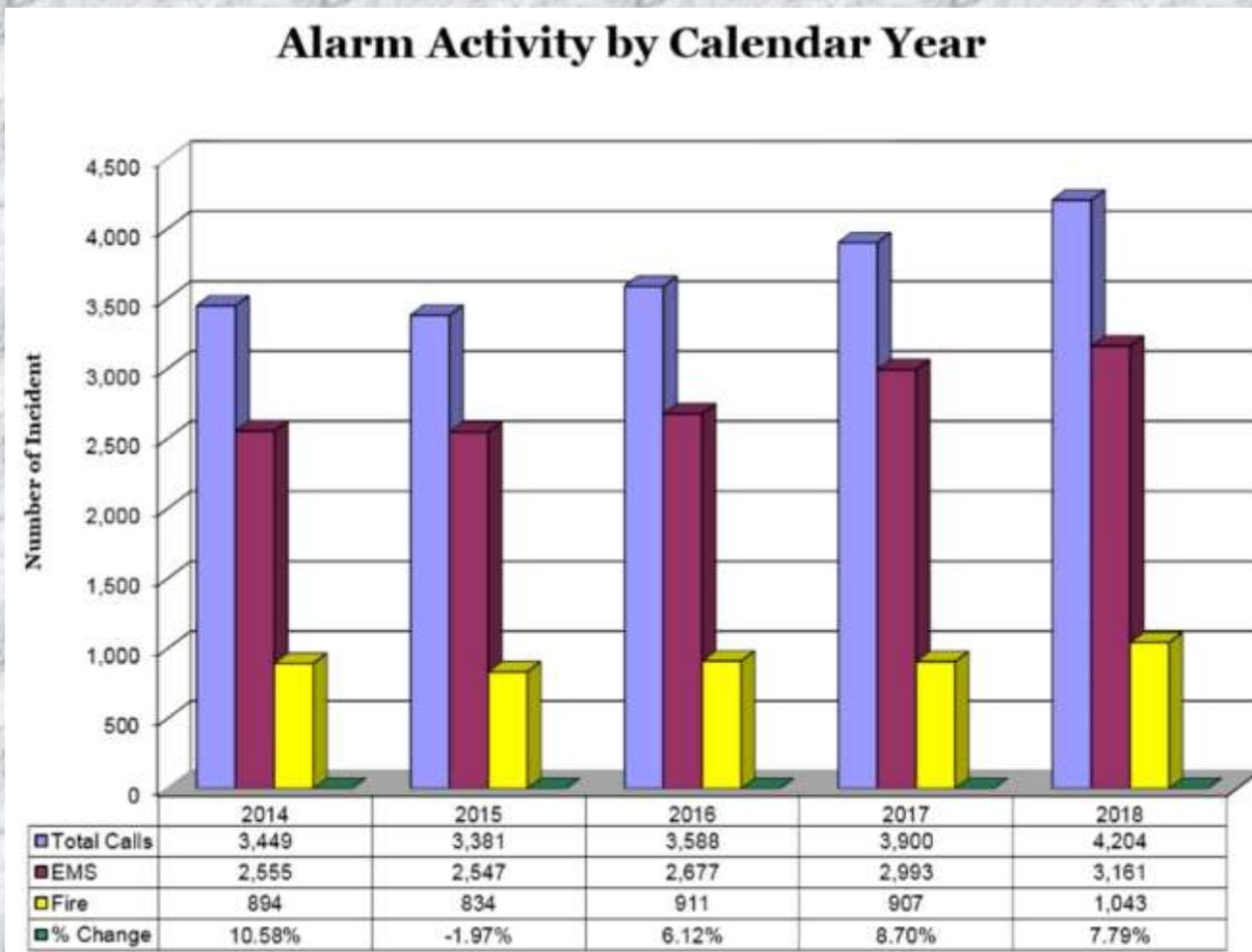
WEDNESDAY - 639 CALLS

BUSIEST MONTH OF THE YEAR

JANUARY - 388 CALLS



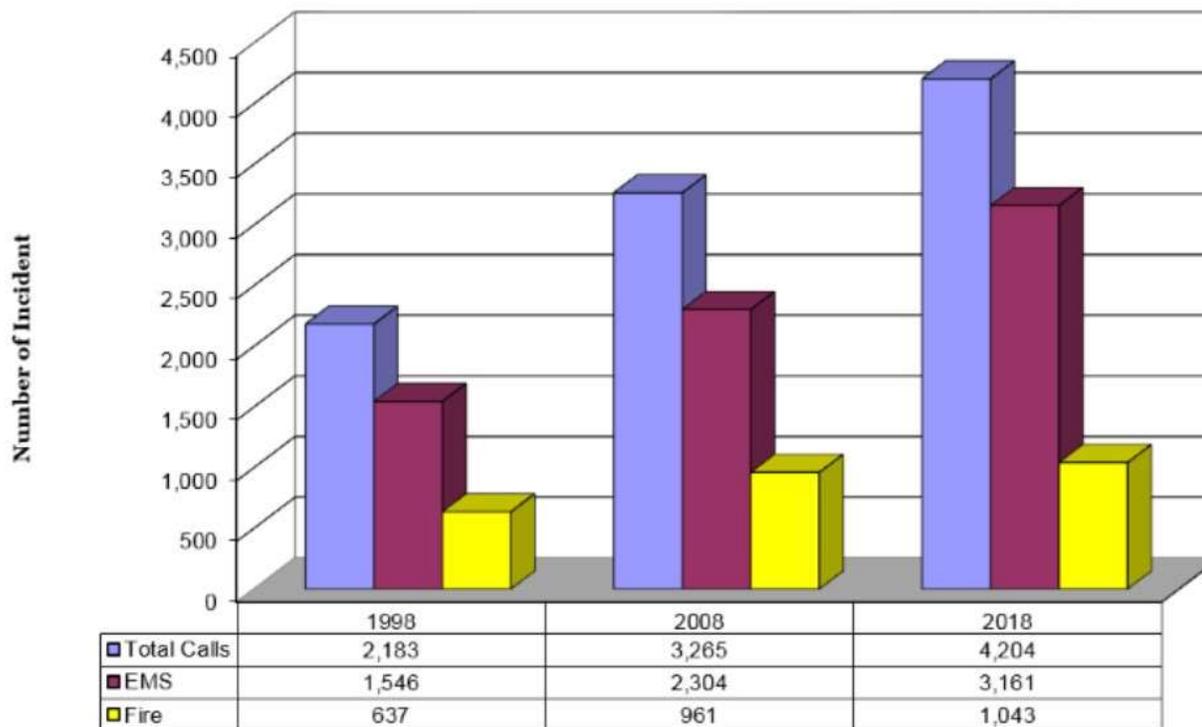
Call Volume Comparison





Call Volume Comparison

Alarm Activity by Calendar Year



Note: Fire Department Staffing was the same in 1998, 2008, and still in 2018; 7 members per shift with 5 person minimum staffing daily. Call volume has almost doubled while staffing has remained the same.



Fire Growth Benchmarks



Time Temperature Standard

The “time-temperature curve” standard is based on data from the National Fire Protection Association (NFPA) and the Insurance Services Office (ISO), which have established a typical point source of ignition in a residential house will “flash over” at some point between 5 and 10 minutes after ignition, turning a typical “room and contents” fire into a structural fire of some magnitude.

Fire Severity in Modern Buildings

Fire severity is a measure of the destructive impact of a fire in relation to temperature or time, which could cause failure.

In modern commercial and residential buildings, the increasing use of thermoplastic materials melt and burn faster with higher heat release rates resulting in more severe fires.



1,043 Fire Calls



FIRES
85



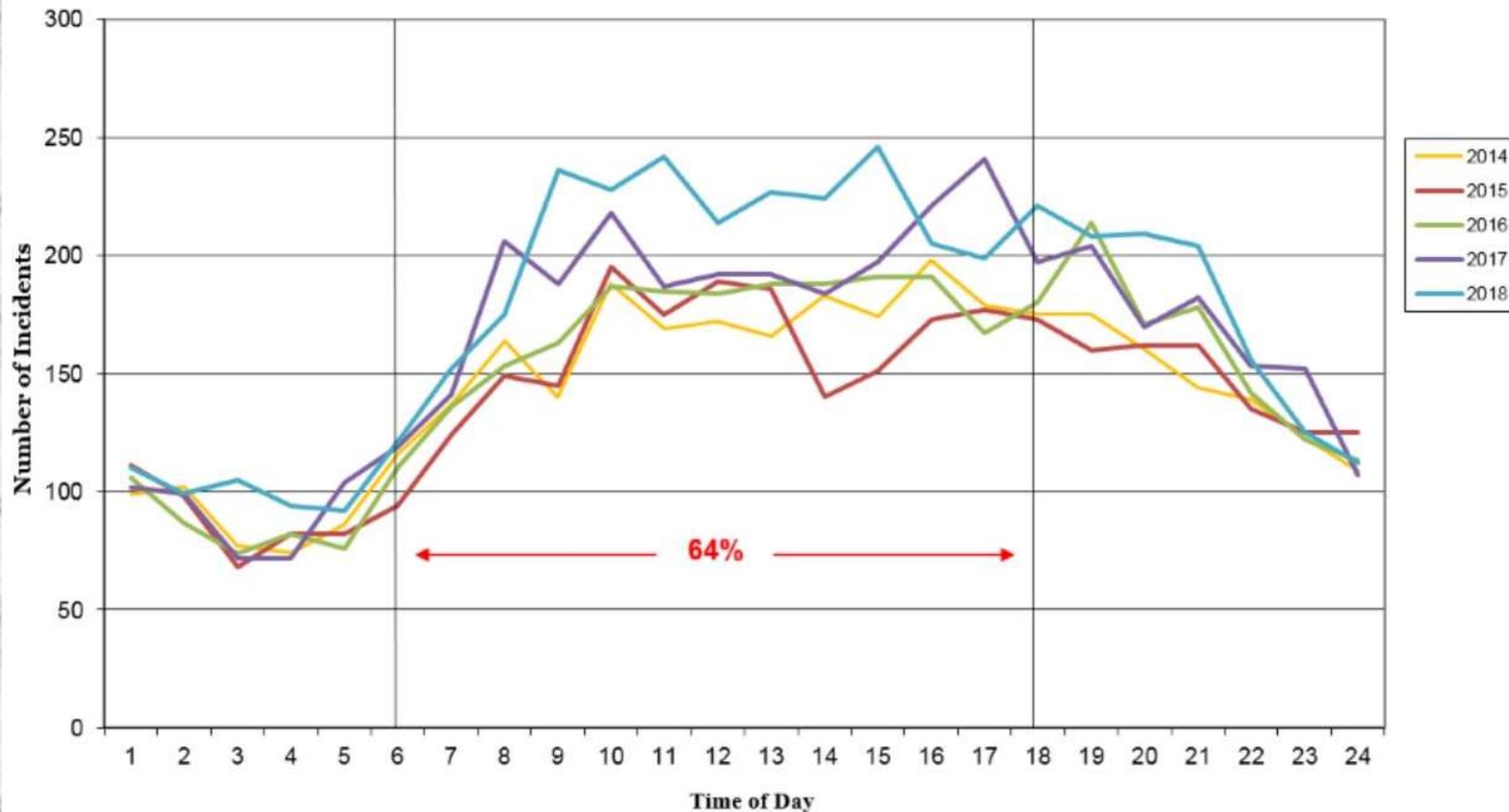


Fire Call Breakdown





Alarm Activity By Time Of Day

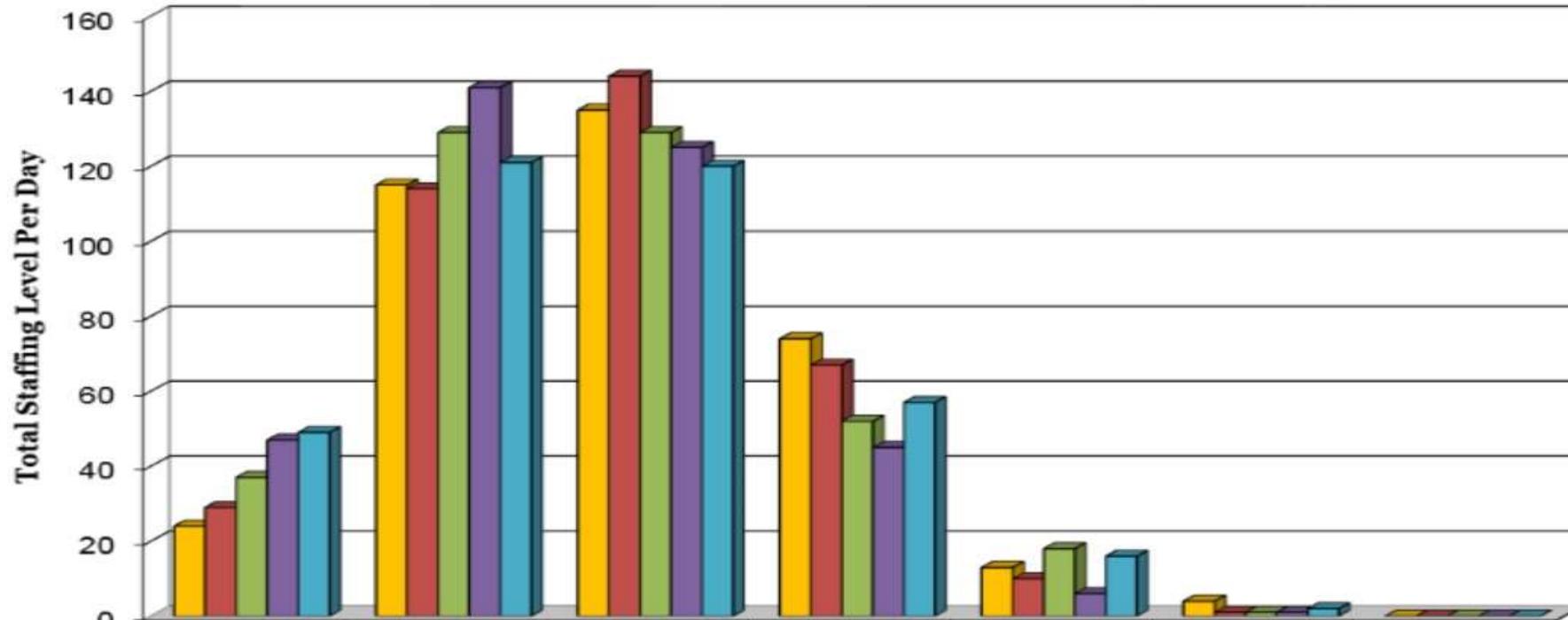


64% of our call volume occurs during the time period of 6 a.m. - 6 p.m. This is the time frame where our Paid On Call Division has limited or no availability due to their full-time job commitments.

It should also be noted the most deadly and damaging fires occur between the hours of 10 p.m. and 5 a.m.



Daily Staffing Levels



	7	6	5	4	3	2	1
2014	24	115	135	74	13	4	0
2015	29	114	144	67	10	1	0
2016	37	129	129	52	18	1	0
2017	47	141	125	45	6	1	0
2018	49	121	120	57	16	2	0

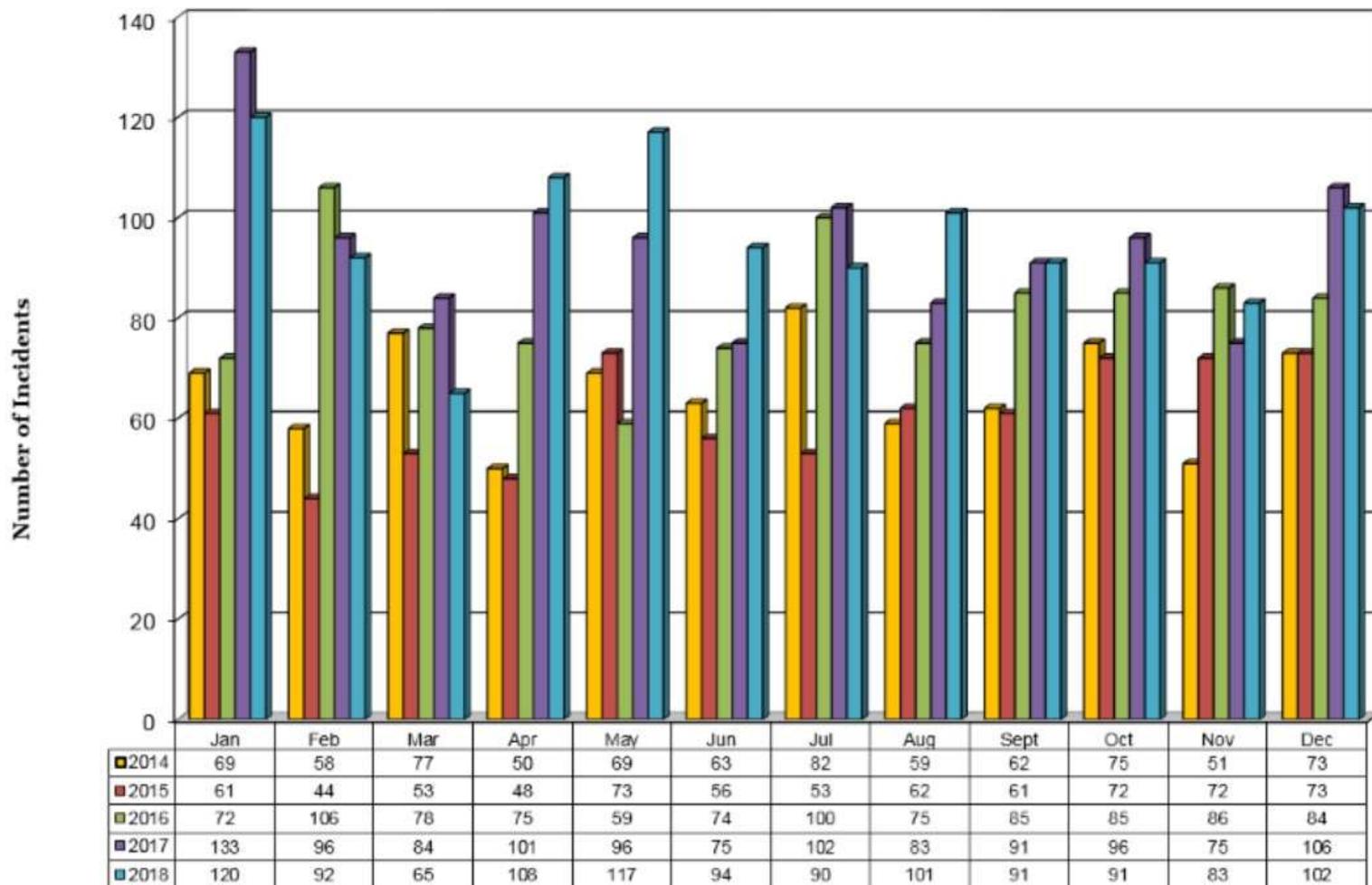
Shift Personnel on Duty Per Day



Of the 4204 incidents the department responded to in 2018, 1154 of them (or 27.5%) were concurrent/overlapping calls.

With minimum staffing at 5 more than 50% of the time (195 days in 2018 = 53%), a double call leaves only 1 person in the station to respond to the next emergency.

Concurrent Calls by Month 1154 Incidents





EMS Time Benchmarks

The Golden Hour

In trauma events, the golden hour is the historic benchmark applied to victims with significant critical traumatic injuries. The golden hour reflects the concept that survivability decreases significantly if the patient isn't in the operating room within one hour of receiving a critical traumatic injury.

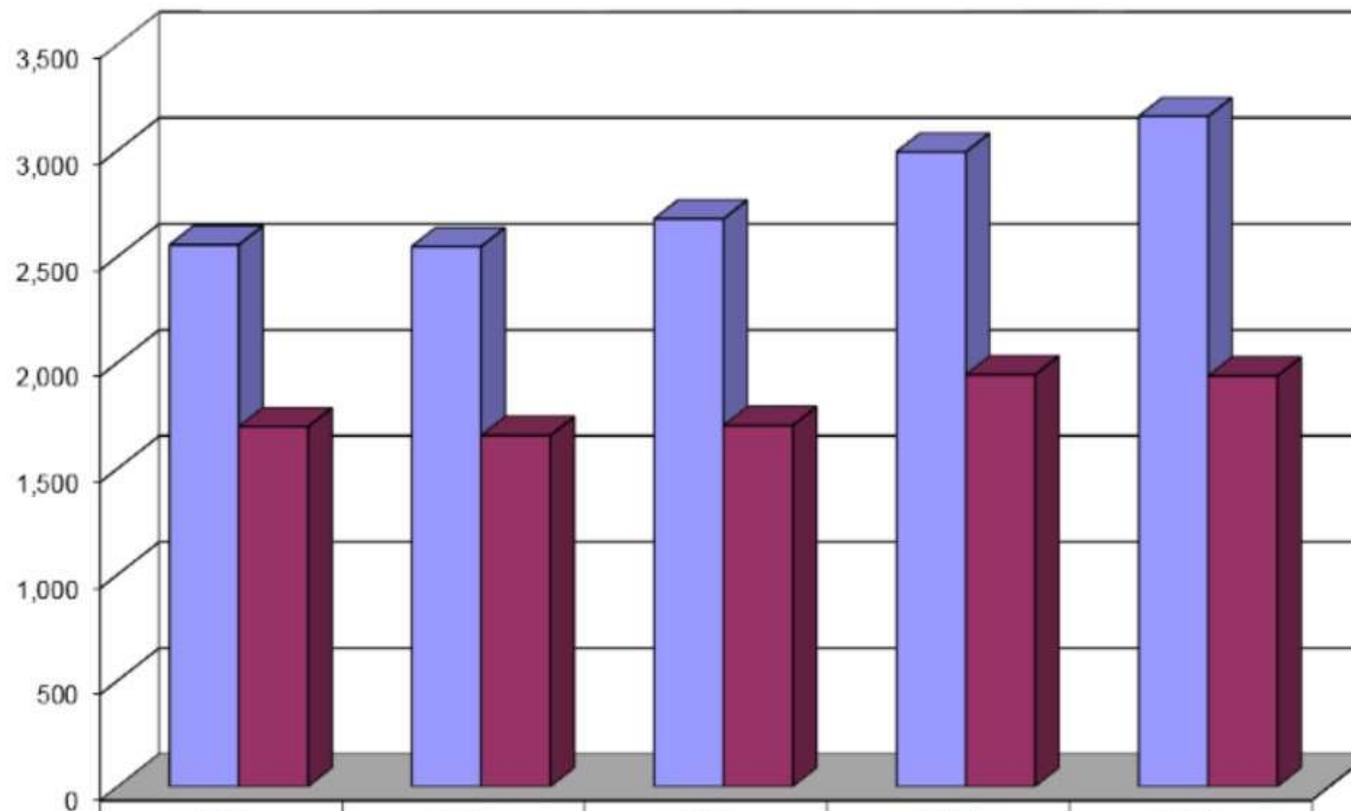
Cardiac Arrest Survival Rate

In communities where the fire service is the principal provider of emergency medical services (EMS) first response, the goal is for basic life support (CPR and defibrillation) to be available to the victim of cardiac arrest within four minutes of the event, and advanced life support (paramedic service) should be available within eight minutes or less of the event. Early notification, distribution, and concentration of emergency response services are paramount to successful resuscitation efforts.





Total Ambulance Calls vs. Ambulance Transports

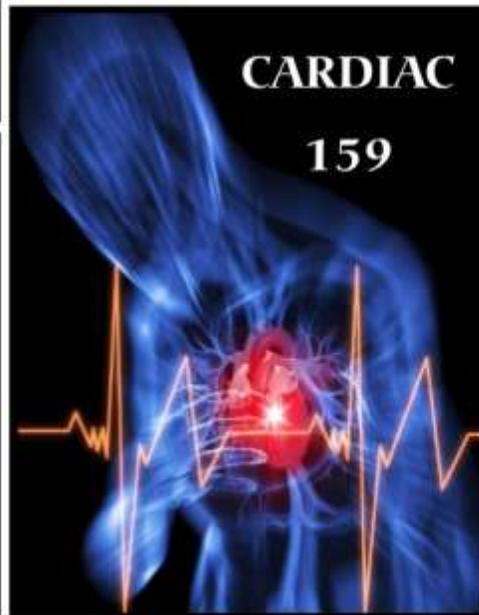


	2014	2015	2016	2017	2018
Total Ambulance Calls	2,555	2,547	2,677	2,993	3,161
Total Ambulance Transports	1,698	1,656	1,703	1,942	1,936

Note: 61.2% of the total ambulance calls resulted in the transportation of a patient to the emergency room.



1,936 Ambulance Transports





New Ambulance

AMBULANCE 61: A new and improved emergency medical unit was implemented in 2018.

Features of the new unit design include:

- Compliance with new industry & OSHA standards.
- Patient compartment side entry door.
- CPR attendant seat in the patient compartment.
- Power operated stretcher and loading system.
- New safety standard compliant equipment mounting.
- Revised equipment storage.
- Crash tested body design.
- 4x4 capability for snow storms.





EMS Request Trends



In 2018, there were 3,161 requests for medical treatment.

For comparison, twenty years prior in 1998 there were 1,546 requests for medical treatment, representing an increase of 1,615 requests for EMS over 20 years.

If this EMS request trend continues, we could be looking at responding to over 4,800 requests for EMS service by 2038.



2018 EMS News



In 2018, the area used strategic planning, partnerships and new methods to overcome the closing of St. James Hospital in Chicago Heights. St. James had been an institution of the area since 1911, 107 years.

Impacts of this closing on service for our citizens includes prolonged transport times to areas East of Western Avenue and longer Emergency Room wait times for treatment.



2018 EMS News

Beginning in Fall of 2018, the education staff from Franciscan St. James Hospital in Olympia Fields began using the training room at PFFD to conduct training classes including ALCS, CPR, and PALS among others for their nursing staff.

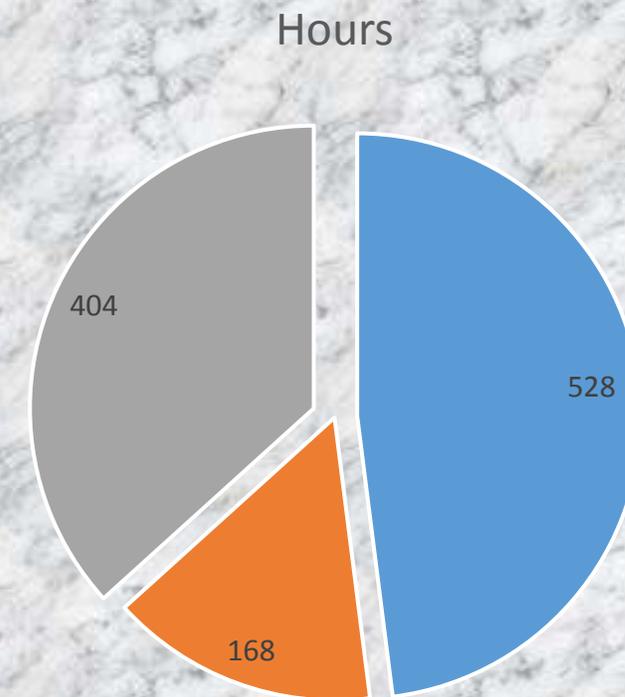
The partnership was so successful, it has continued into 2019 and creates a stronger bond between pre-hospital care providers and hospital staff.





2018 EMS Training

“Preparing and training daily to serve our citizens...”



■ Blood Borne Pathogen ■ EMS Continuing Education ■ Safety Training



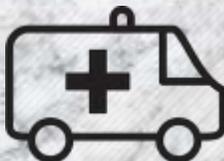
1961 EMS Delivery



Emergency
Recognized



911
Dispatch
Called



Ambulance
Responds



2 First Responders
begin basic care and
transport to hospital



Transfer of care
to hospital



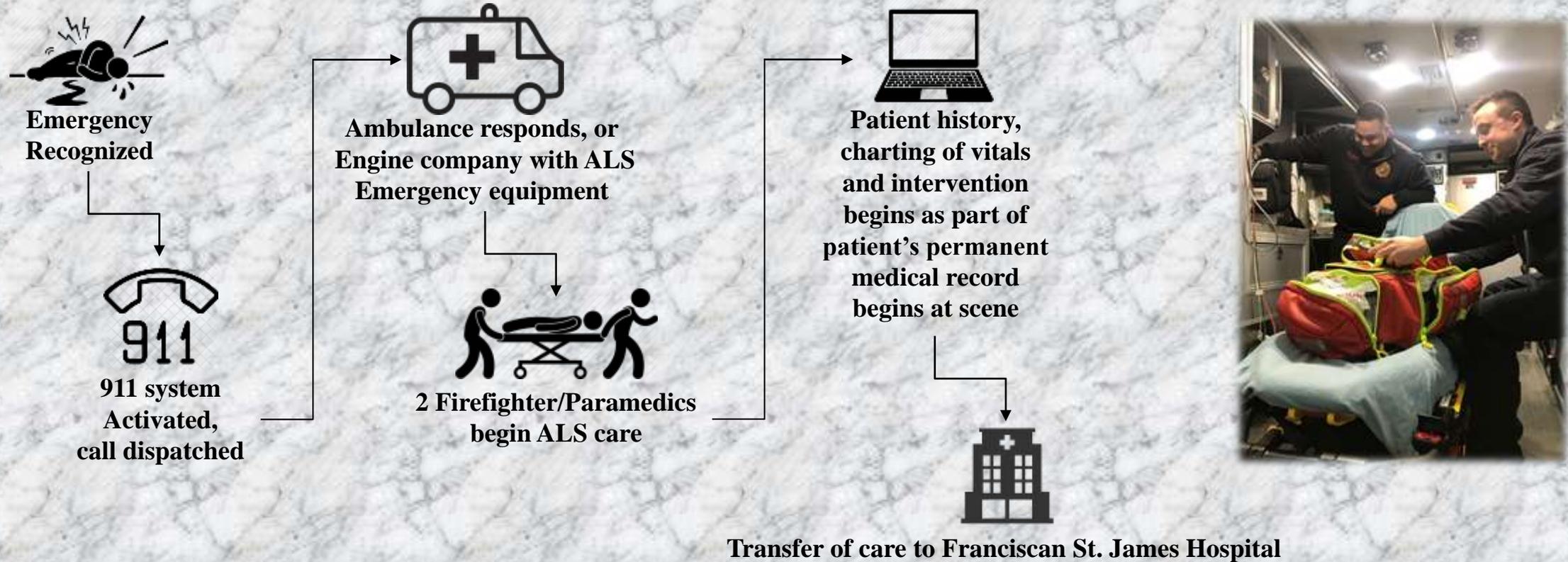
October 11, 1961



2018 EMS Delivery



A typical EMS transport lasts between 45 minutes to 1 hour 15 minutes depending on the nature of the call. ALS care done in field may indicate by passing the ER to go straight to Cath Lab or begin stroke alert in hospital to minimize life-altering effects.





Training Division

“Do you know how many of the calls the public expects perfection on? All of them. Nobody calls the fire department and says, 'Send me two dumb firemen in a pickup truck.' In three minutes they want five brain-surgeon, decathlon champions to come and solve all their problems.”

— John Eversole, Chicago Fire Department





Training Division



In 2018, the training division focused on hitting NIOSH and OSHA's recommended benchmarks for annual training.

In addition, training is focused on recommendations from firefighter line of duty death investigation reports.

Recommendations from the reports incorporated into training include building construction, communication, fire behavior, defensive driving, command and control.



Training Division

***In 2018, the average hours of training completed increased by 15 hours per year, per member.**

***363 hours of annual fire training was completed on average by **Career Firefighters**.**

***28 hours of annual fire training was completed on average by **Paid on Call Firefighters**.**

***The department once again used scenario based training to create real-time emergency situations which personnel may encounter on shift.**

***Specialized training was taught by various instructors of all seniority levels of the department.**



1956





55th Anniversary



2018 marked the 55th anniversary of the line of duty death of Captain Adolph "Shorty" Pfeifer.

On February 8, 1963, the department responded to a fire at a commercial building that was under construction. During firefighting operations, Captain Pfeifer sustained fatal injuries when he fell down an open elevator shaft.

In honor of Captain Pfeifer's ultimate sacrifice, the Department dedicated its Training Site in his memory on October 2, 1965. This facility is still in use by the Fire Department, and remains a tribute to our fallen comrade.



Training Division

Topics on training ranged from hose loads to man vs machine & everything in between.





Emergency Management Agency

The Park Forest Fire Department coordinates Emergency Management activities within the Village of Park Forest. The EMA Division is responsible for the following activities:

- Maintaining the Village's Emergency Operations Plan (EOP)
- Handling overall operations of the Emergency Operations Center (EOC)
- Maintaining the weather alert system and equipment
- Assisting in the collection and filing of documentation during and after a disaster
- Coordinating the required classes and paperwork to maintain compliance with the federal National Incident Management System (NIMS) mandates





Fleet Maintenance



The fleet/preventive maintenance program provides for the early detection of mechanical problems.

The program has been effective in identifying and mitigating minor repairs before they become catastrophic.

Preventive maintenance is performed in-house by three hireback mechanics.

Major repairs and maintenance that cannot be handled in-house are contracted out to qualified mechanics with the proper equipment to perform the work.



Fleet Maintenance

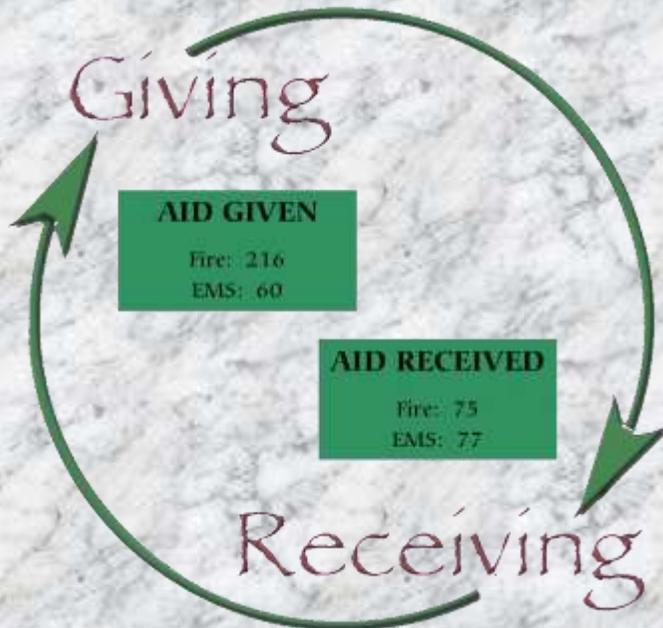




MABAS

Mission Statement

“MABAS-Illinois serves local fire agencies, MABAS Divisions, State of Illinois departments, and Cook County UASI-DHSEM by providing a systems-based resource allocation and distribution network of robust traditional and nontraditional fire-EMS-rescue and special operations teams for emergency and sustained response within and outside of the State of Illinois. Accomplishment of the services requires cooperation, standardization, reliability, partnering, brokering and ongoing communication and compliance with customer specification and expectations. Customer trust and reliance on the MABAS system is built upon personal relationships, credibility, and ongoing customer support.”



Purpose Statement

“The Mutual Aid Box Alarm System (MABAS) provides emergency rapid response and sustained operations when a jurisdiction or region is stricken by an overwhelming event generated by manmade, technological, or environmental threats. In response, MABAS will mobilize and, deploy a sustained fire, emergency medical services (EMS), hazardous materials, technical rescue, water rescue, urban search & rescue, and incident management assistance team resources to prevent loss of life, human suffering and further damage to property.”



Special Teams



Trench Rescue
Confined Space Rescue
Vertical Rescue
Collapse Rescue

The Mission of the AFFI Honor Guard shall be to promote the Associated Firefighters of Illinois, the Locals therein, and the fire service as a whole, to the public, in a positive and proper fashion. To Provide, as a line of duty death benefit, dignified, honorable services for fallen AFFI members, their surviving family members, and brothers and sisters through organization of and participation in funeral and memorial services.



Hazardous
Materials
Team

The Task Force provides support to surrounding counties, local, state, and federal agencies requesting assistance by providing the available resources and expertise in determining origin and cause of a fire or explosion. Each agency is given the opportunity to maintain their autonomy and jurisdictional authority over the incident bringing together the best investigative talent from multiple state, federal and municipal agencies.



Surface Water Rescue
Swift-water Rescue
Underwater Rescue
Evidence Recovery



Fire Prevention Bureau

The Fire Prevention Bureau is responsible for conducting fire and life safety inspections of 273 public businesses in Park Forest. Last year this resulted in 335 actual inspections. The department provided numerous educational opportunities including CPR classes, child safety seat, meet and greet, career days, babysitter, school programs, and adult programs.

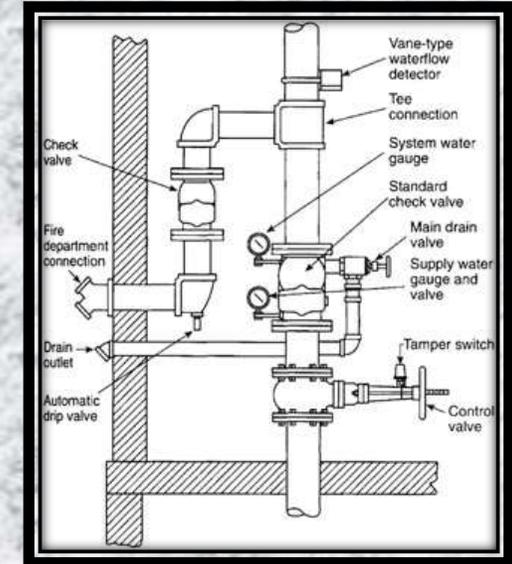
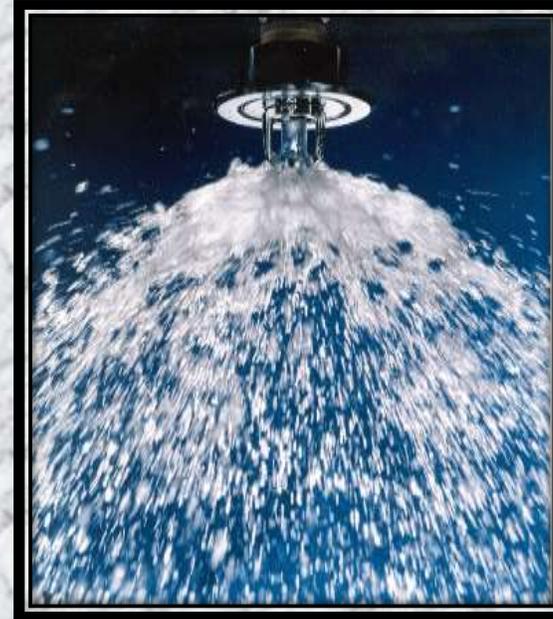




Inspections / Code Compliance / Plan Review



Captain Myers and four Hireback Inspectors perform the annual fire inspections on the 273 properties in Park Forest which includes schools, special needs facilities, churches and businesses. In addition we assure all alarm and fire sprinkler systems are maintained. This year we continued to see an increase in residential fire sprinkler systems being installed in Park Forest homes. We review each plan for code compliance.





Public Education



School Visits



Father of the Fire Service
Ben Franklin



Public Education Trailer



Baby-sitter Class



Senior Fire Safety



Memorial Service
Silent Parade



Open House





Home Fire Safety Checklist

Smoke Alarms

- One in each bedroom and on each level
- Test monthly; change batteries as needed
- Upgrade to a 10 year lithium battery



CO Detectors

- One near bedrooms
- Check Monthly; change batteries as needed



Candle Safety

- Never leave a burning candle unattended
- Place on hard, flat surface
- Keep out of reach from children and pets



Dryer Fires

- Clean the lint trap each time you use it
- Vent it to the outside with rigid tubing



Escape Plans

- Know 2 ways out
- Have a plan and practice it
- Everyone should know the meeting place

Cooking Safety

- If a fire occurs cover the pot with the lid to put the fire out
- Keep combustibles away from stove top
- Turn handles in away from the front

