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## **Fire Department Administration**

Fire Chief: John Lyman  
Deputy Fire Chief: Matthew Covey  
Administrative Assistant: Ann Ostrom  
Office Clerk: Diane Beedle



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## **Fire Prevention Division**

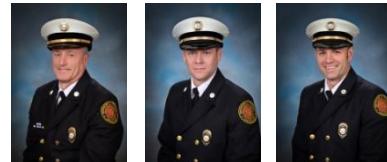
Fire Marshal: Assistant Chief Carl Wallace  
Fire Inspector: Lt. Mark Trager  
Fire Inspector: Lt. John Phebus  
Fire Inspector: Lt. Wayne Peruski



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## **Fire Suppression and EMS Operations:**

Battalion Chief Jim Runyan  
Battalion Chief Steve Bridger  
Battalion Chief Blake Nelson



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## **Training Division**

EMS Coordinator/EMS Academy: Lt. Jim Cooper  
Training Officer: Captain Joshua Dorman



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## **Fire Department Operational Support**

Information Technology: Don Claeys  
Station Maintenance: Battalion Chief Steve Bridger  
Station Supplies: Todd Holmes, Ryan Gross  
Fire Gear, Radio Maintenance: Dennis Rederstorf  
Operational Assistant: Tom Rayner

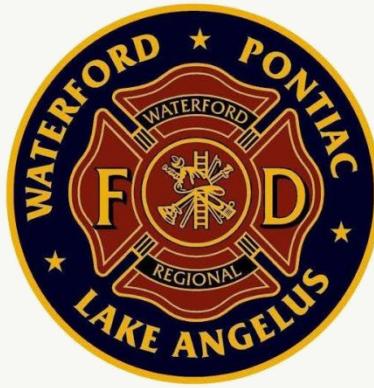
SCBA Maintenance: Kevin Fletcher  
Public Education: Kurt Vine  
Hazmat Team: Paul Dallas  
Tech Rescue Team: Mike Moshier  
Apparatus Division: Lee Warden

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## **Chaplains**

Linda Living Hawley  
Ron Rayner





### **Waterford Regional Fire Department Mission Statement**

The mission of the Waterford Regional Fire Department is to protect the lives and property of the residents and visitors of **Waterford Township**, the **City of Pontiac** and the **City of Lake Angelus** through:

Public education in fire safety and hazard recognition

Aggressive fire suppression and rescue

Professional emergency medical treatment of the sick and injured

Efficient pre-incident planning and emergency management

Hazardous materials control and mitigation





## **From the Chief's Office...**

It is my honor and privilege to serve as the Fire Chief for the Waterford Regional Fire Department. I serve alongside over 100 well-trained and highly skilled professional firefighters, paramedics, fire officers, inspectors, chiefs and office staff. Together, we provide incredible emergency services in a regional, multi-jurisdictional manner covering 60 square miles, which includes Waterford Township, the City of Pontiac and the City of Lake Angelus. I am proud to present the 2016 annual report. Within this report you will see pages of information and statistics. Each number from our statistics, is a representation of the service and commitment on display each and every day by all our fire department personnel.

In 2016 the Fire Department celebrated 75 years of service to Waterford. A new 75<sup>th</sup> anniversary logo was created and placed on each fire apparatus, and on banners to proudly display. The 2016 photo collage was created and is located at Fire Department Headquarters.

Two property millage renewals were overwhelming approved by voters in 2016. We thank the voters for this renewal as those millages make up nearly 25% of our budget.

The Fire Department was awarded the 2015 SAFER grant through the United States Department of Homeland Security. 39 SAFER positions were opened up again, and we began with recalling laid off personnel. We continued to hire through the end of 2016 and will hire more in Q1 of 2017 to get the 39 positions filled. This will allow us to provide an increased level of service to keep the residents we serve and our firefighters "SAFER."

2016 calls for service totaled 12,104 a 6.2% increase over 2015. 70% of those calls were for EMS, traffic accidents and other rescue calls. Fires, hazardous situations, and other calls accounted for 30%. Fire calls as a whole were up 11%, with structure fires seeing a decrease of 2% from 2015. 222 structure fire calls were residential and multi-residential structures. We saw estimated fire losses at \$1,613,000 during 2016. EMS calls were up over 7% from 2015. EMS Transports for 2016 was at 4,697, up over 2 from 2015%

Our fire units responded nearly 21,800 times during the year. Response times for priority calls were at 5 minutes a 31 second for 2016. Our busiest fire station was station #3 with 2,931 calls. The busiest fire engine and rescue were both out of Fire Station #3 with Engine 3 responding to 2,925 calls and Rescue 3 responding to 2,594 calls.

Our many accomplishments are detailed within this report. You will see from this report, several firefighters are involved in essential roles that make up the total operations of the fire department. As we look back at 2016, we are looking forward to a successful 2017.

John H. Lyman  
Fire Chief





## Operations – Deputy Chief Matt Covey

### **Station 4 adding a EMS Unit**

With the re-opening of station 4, WRFD placed into service a 5<sup>th</sup> EMS unit at fire station 4. The two firefighters/paramedics at the station are dispatched to a call they will either take the EMS unit or the fire truck. This will help with EMS coverage as the Township medical calls continue to rise.

### **Promotional Testing for Line Captain and Battalion Chief**

Testing and promotional lists were established Line Captain and Battalion Chief. The testing procedure involves a written test and oral boards. We thank Arlene Ward at HR for her assistance and to retired Fire Chief Dennis Storrs for their assistance in completing this process.

### **Water for Flint**

With the developing water crisis in the City of Flint, the Waterford Police and Fire Departments went in to action. Both agencies received water donations over two weeks by residents and local business owners from Waterford and Pontiac. The amount of water received was unbelievable. We were able to completely fill a large moving truck and several personal vehicles. This amazing amount of water was delivered directly to the Flint Fire Department Headquarters building. Flint Fire Department was then able to supply their residents and employees the water they needed.



### **Fire Cadet Program**

During the mid 1970's, the Waterford Regional Fire Department initiated a cadet program intended to offer local area high school seniors the opportunity to experience first-hand what a career in the fire service was like. It was designed to prepare young, ambitious students for a career as a fire fighter. Since then many of the cadets that have participated in the program have gone on to become professional fire fighters with fire departments around the country. One former cadet became a smoke jumper battling the enormous wildfires in the western United States while others have chosen to enter the EMS field or the medical profession. Several fire fighters currently employed with the Waterford Regional Fire Department are former cadets.

During 2016 the Waterford Regional Fire Department had 8 High School students from within Oakland County attend our program. These students work with our firefighters and training division on a daily basis. The program goal is upon successful completion of the cadet program that they leave with the knowledge, skills and experience necessary to pursue a career as a professional fire fighter and give them an advantage in becoming a success in whatever their life's endeavor.



## **Fire Academy Sponsorship**

The Waterford Regional Fire Department sponsored 2 students to the 2016 Fall Oakland Community College Fire Academy. These Individuals were supplied Personnel protective clothing (turnout gear) and self contained breathing apparatus (air packs). This option had zero out of pocket expense to the fire department but offered a huge discounted rate for these 2 individuals.



## **Capital Improvements:**

### **LED Lighting Program**

Waterford Regional Fire Department was able to upgrade all of its lighting inside of our 5 Waterford Township Fire Stations at no out of pocket expense. All lights were converted to energy efficient Led lighting. In addition to the upgrade some lights were eliminated that were not needed and others were converted to operate with fewer bulbs. The long-term savings is in the hundreds of thousands over the next 20 yrs... This project would have not been possible without a partnership between the Waterford Township Board and the Energy Reduction Coalition based out of Troy Michigan. We would personally like to thank Bill Fritz and our DPW staff for making this happen.

### **Fire Station 5, 25 North Hospital, Waterford**

Fire station 5 flat roof was in desperate need of replacement due to several leaks. The roof age was approximately 20 yrs old. The estimated replacement cost of the flat roof was \$35,000 with a life expectancy of only 20 years. With help from Township Supervisor Gary Wall the roof was evaluated and found that it was less expensive to replace the flat roof with a trussed system, asphalt dimensional shingles and new siding. The life expectancy of this roof is 30 plus years. This will in the long run save the Township thousands of dollars and has a better fit for the neighborhood.

The AC units were replaced with a generous donation from the Waterford based Kotz Heating at the cost of equipment only. This will assist with making the department more energy efficient with huge long term cost savings.



## **Future Projects 2017**

The Township Board approved the purchase of two new staff vehicles that should be delivered around March of 2017.

The Township Board approved the purchase 75ft. quint/ladder truck order should be placed in early 2017 and would expect delivery in late 2017 or early 2018.

Fire Station 1 (headquarters) will receive an update to the boiler and AC system. Currently the Boiler and the AC system work together throughout the summer months. The update will allow us to shut the boiler system off during the summer months.

Fire Station 3 was built in 1988 the roof shingles are 29 years old and are in need of replacement. The Township Board approved the replacement of the shingles. This project should start in the spring of 2017. Supervisor Gary Wall is working with the Fire Department to secure the contractor for this project

Fire Station 5 - Possible addition of a cell tower to the location with Verizon Wireless. This cell tower would replace the existing antenna located on the property. This cell tower is co-locatable meaning multiple carriers could place their equipment on the tower. This is a possible future revenue stream for the Fire Department.

We are currently working with the City Of Pontiac to repair/replace the aging roofs at all 5 Pontiac Fire Station in 2017.

We are working with the Human Resources and the Townships labor attorney to complete contract negotiations with the Waterford Professional Firefighters Local #1335.



## Promotions

Four Driver Engineers were promoted to Lieutenant in 2016.

Damon Harney Jeff Hunter Hugh Pettway Dan Spohr



There were no retirements in 2016.

In 2016 we said farewell to a volunteer firefighter. Lt. Bob "Buck" Monahan served on the Volunteers for 41 years. He was a committed firefighter and loved the fire service. We honored him with the American Flag flying high at his church and Buck's neighbors donated a bench to the Fire Department with his name on it. We will miss you Buck!

A bench was built by his neighbors and placed at Fire Station #1 in Buck's memory.



## Grant Writing

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### Training Grant

Waterford Regional Fire Department was awarded a grant in 2016 from the Assistance to Firefighters Grant Program. The grant total was for nearly **\$86,000**. We were able to train 20 officers and firefighters to Fire Officer 1 and 2 Certifications and Incident Safety Officer Certification. Additionally the students were Pro-Board Certified, which is a nationally recognized certification.



### SAFER Grant

Waterford Regional Fire Department was awarded a grant in 2016 to hire 39 personnel for the SAFER grant. This grant is for another 2 years for this increased staffing and has a dollar amount of over \$8.5 million . We believe that these additional personnel will work well to keep our communities and firefighters "SAFER".

These grant awards allow the Fire Department to better serve the residents in the three communities we serve, and saves Waterford Township millions of taxpayer dollars. The Fire Department has seen over \$21 million in grant awards since 2003, for equipment and personnel.

In 2016 we submitted two applications to the Assistance to Firefighters Grant Program. We are looking for these awards to be announced during the first half of 2017.

1. \$1,300,000 - New Aerial tower truck to replace our 25 year old Tower 1.
2. \$275,000 - Power Lift Cots and Automatic Chest Compression Devices.

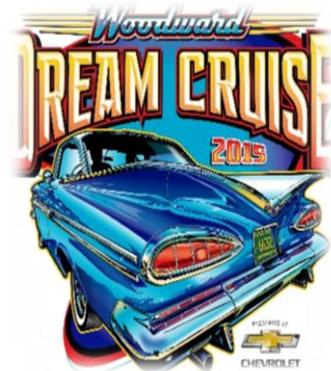


## Public Events

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The Waterford Regional Fire Department proudly participated in multiple events in Waterford and Pontiac.

Provided EMS coverage and fire inspections for the **Quake on the Lake Boat Race**, this race is held at Pontiac Lake Beach.



Provided additional fire and medical coverage for the **2016 Woodward Dream Cruise**.

Proudly participated in the **Holiday Extravaganza Parade** in Pontiac, this parade is a multi-community event.



Proudly provided Public education to the students in the **Waterford and Pontiac School Districts**.



## Public Events continued...

**Longest Breakfast Table** Charity event, this annual event was started after 9/11. The proceeds support the Waterford Police and the Waterford Fire Department Charity funds. LifePointe Church of Waterford proudly sponsors and partners with the Police and Fire Departments on this event. They have raised nearly \$100,000 for the Fire and Police Charity funds.

### Fire Department Open House

For 2016, we held two Fire Prevention Week Open Houses. Station #7 in Pontiac and Station #1 in Waterford.



### Parks and Recreation Easter Egg Hunt

WRFD assisted the Parks and Recreation Dept. by providing Tower 1 to drop the marshmallows for the kids that were in attendance to gather up.



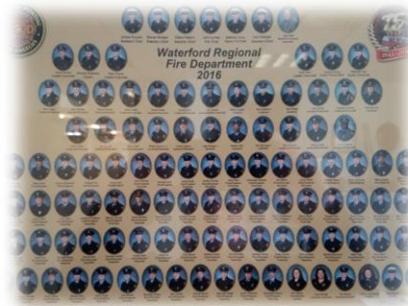
## 75 years of Fire Service in Waterford Township

2016 marked the 75<sup>th</sup> year for the Waterford Fire Department. It all started way back in 1941, with a handful of concerned citizens when they purchased the first fire engine for Waterford, a 1941 GMC Pumper and it was housed in the newly built Waterford Township Hall at Crescent Lake Road and Highland Road.



To commemorate this milestone a new logo was created as seen in this report. This logo can be seen on all of our fire trucks and rescues. T-shirts were also created with this new logo on them. Banners were created for our trucks as they paraded down Dixie Hwy during the Memorial Day parade and then hung at Fire Station #1. We thank Waterford resident Kathy Benning for her work on this logo.

A new photo collage was created to set next to the last one which 12 years old. We worked with Waterford based Unique Image to create this collage and it now hangs proudly at Fire Department Headquarters. A big thank you goes out to Dr. Raj and Shari Ballard Krishnan for their donation toward this project.



The video "75" was created during the year. It is a video showcasing this tremendous milestone, complete with video of the fire department, current and historical pictures and interviews of past and present firefighters of Waterford Fire Department. We premiered this video at Waterford Kettering High School Performing Arts Center in October with approximately 75 in attendance. It continues to play on cable channel 20 in Waterford. DVDs are available for purchase through the Chief's office. This video was produced by Gary Allison, Waterford Cable Coordinator and Fire Department Battalion Chief Runyan. We so very grateful for their diligent work on this production. They truly did a remarkable job on this video that last forever.



## Firefighters Travel to Haiti

Three Waterford Firefighter Paramedics traveled to Haiti in November on a medical missions trip for the needy people of Haiti. Fire Chief John Lyman, Lt. John Phebus and Lt. Dan Dumas raised funds to pay for all the expenses needed for their trip, including funds to provide medical supplies as requested by Mission of Hope to provide medical care. They worked together with a medical team of nurses and doctors from Arizona and Arkansas to provide care to 400 Haitian children and adults during their week in Haiti.

The team from Waterford Regional Fire



The complete U.S. team for the week



Firefighters interacting with Haitian kids



## Care Package for U.S. Troops

Firefighter Dohn Lyons working with the Fire Department and the Waterford Firefighters Union Local #1335, raised funds for care packages to send to troops deployed overseas. Camouflaged shirts and hats were made available to all Fire Department personnel to purchase to help raise funds for this campaign. Several packages were assembled and shipped out.



Assembled packages ready to ship

Packages arrived to the troops



Troops excited to receive and open up their care packages



## Fire Service Awards

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The Hundred Club of Detroit recognized 3 of our personnel at the 2016 Valor Awards Program held at the Detroit Athletic Club. **Deputy Chief Matt Covey** was awarded the valor award for his life saving efforts while off-duty on a golf course. The man was in cardiac arrest, and Matt worked to revive him.

**Captain Michael Mathews** and **Lt. Scott Reinig** entered a house fire and rescued a man who was trapped.

In both cases, the men that were saved, came to the fire department to personally thank them.



Paul W. Smith from WJR Radio is pictured with us at the Valor Award Program



## Waterford Regional Firefighters in Action in 2016



## Mutual Aid

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Mutual Aid is an essential component of any fire department in keeping its residents and firefighter safe from all hazards. Waterford Regional has been a member of the OAKWAY Mutual Aid Organization since 1999. OAKWAY is comprised of 8 fire departments working together to provide the best in emergency services to over 450,000 residents. Together we have nearly 400 career firefighters that train together to be ready when an OAKWAY Fire Department is overwhelmed and resources exhausted. OAKWAY also serves to provide hazardous materials and technical rescue teams in a collaborative manner. The OAKWAY Chiefs meet monthly at Waterford Regional's Headquarters to discuss matters important to the entire group and to continue to improve relationships between all of our departments, which in turn enhances the emergency services provided to all our communities in Oakway.



In 2016, Waterford Regional relied on our Oakway partners for EMS mutual aid, structure fires and Technical Rescue. Oakway provided station coverage during large incidents in our first response area as well. We provided mutual aid with Tower-8 and an engine to Birmingham Fire on a 15 story high rise fire in which the fire was working throughout the 14<sup>th</sup> and 15<sup>th</sup> floors.

We do respond outside of OAKWAY to neighboring fire departments for Mutual Aid as requested. In Auburn Hills we responded to the Palace of Auburn Hills for a fire in a kitchen. We assisted Auburn Hills on an apartment fire and a commercial building fire. Independence Fire had a structure fire at the Lakes Grill where we responded with Tower-1 and an engine. White Lake called us for assistance on a house fire and an multi-patient injury accident.

In total for 2016, Waterford Regional received mutual aid 43 times and responded to mutual aid calls 23 times.

Mutual Aid has developed nationally in the last 10 years to what is referred to now as the Mutual Aid Box Alarm System (MABAS). OAKWAY and its 8 fire departments are designated by the state as MABAS 3202.





## Apparatus Division – Lee Warden

2016 proved to be another challenging year for the WRFD Mechanics Division. With an aging fleet and parts becoming obsolete and an unavailable, we have had to find creative ways to maintain and service apparatus and keep trucks on the road.

We took advantage of many resources available to allow us to implement cost cutting measures in 2016 that were passed on to the township's bottom line. For example, researching the most cost effective way in which to purchase parts which are no longer available from the manufacturer/dealer. These parts were obtained from sources such as EBay, Amazon and private retailers.

We also switched our bulk oil supplier from Vesco Oil Corp. to Eastern Oil Corporation. This resulted in substantial cost savings to the department.

We also made a switch from NAPA Auto parts to O'Reilly's Auto Parts using the government pricing. This again brings the department substantial savings. We continue to use Bostick, LTM and Clyde's Frame and Wheel as our primary repair sources for repairs that the Mechanics Division is unable to make in-house.

At the end of 2016, we lost mechanic Ron Fritz, after three years of service, as he left to pursue other endeavors. His knowledge and skill will be greatly missed. We took on mechanics Jeff Hunter and Blake Nelson who both bring a diverse set of skills and great attitudes to the division.

Going forward, 2017 will be a challenging year with the aging condition of our fleet. Parts continue to become obsolete and are more and more difficult to find in the market place. Although we have found creative ways to cut costs, the fact the average age of our fleet is 16.7 years has a significant impact on the price that we pay for repairs and maintenance.

We have sent the entire fire truck fleet (front line and reserve engines) to a third party for a reliability inspection. The detailed results will be provided in a separate report.

In 2017 we are hoping to begin using the Township's City Works software to streamline and track parts and maintenance documentation.

We also plan to continue our education efforts that will lead to additional EVT certified mechanics on the team.

Despite all of our challenges, we will continue our diligent pursuit of excellence in the maintenance of our fleet and all apparatus needed to protect the citizens and their property.



## EMS Coordinators Report – Lieutenant Jim Cooper



- There were a total of 8,542 EMS related runs in 2016, 149 runs more than in 2015, an 8 percent increase.
- Seventy percent (71%) of all runs for the Waterford Regional Fire Department in 2016 were EMS related.



### Waterford Regional Fire Department

#### 2016 EMS Transport Breakdown by Location

Destination Location Breakdown		
Location	Calls	Pct
COMMON GROUND	<u>1</u>	0 %
Crittenton Hospital	<u>22</u>	0 %
Henry Ford Hospital- West Bloomfield	<u>49</u>	1 %
Huron Valley-Sinai Hospital	<u>310</u>	5 %
McLaren Clarkston	<u>36</u>	1 %
McLaren Hospital- Oakland	<u>1,293</u>	22 %
NA	<u>1,236</u>	21 %
St. John Macomb-Oakland Hospital	<u>1</u>	0 %
ST. JOSEPH MERCY	<u>1</u>	0 %
St. Joseph Mercy- Oakland	<u>2,942</u>	50 %
William Beaumont Hospital- Royal Oak	<u>38</u>	1 %
William Beaumont Hospital- Troy	<u>11</u>	0 %
Total	5,940	100%



Career personnel are licensed by the State of Michigan – Emergency Medical Services and Trauma System Section, as a Medical First Responder, Basic EMT or Paramedic.

### Personnel

1. Medical First Responder	3 personnel
2. Basic EMT	32 personnel
<b>3. Paramedic</b>	<b>100 personnel</b>
<b>Total</b>	<b>135 personnel</b>

All career personnel are licensed with the American Heart Association in CPR/AED as a Basic Life Support Healthcare Provider (BLS). All paramedic are licensed with the American Heart Association in Advanced Cardiac Life Support (ACLS). A total of 32 Continuing Education (CE) classes were held during 2016.

There were approximately 30 CPR classes, 14 First-aid classes and 12 Bloodborne Pathogen classes provided to the public, Waterford Township employees and the Waterford School district teachers. A total of 465 people attended the CPR classes, 177 people attended the Basic First-aid classes and 22 people attended the Bloodborne Pathogens classes for a total of 664 people.



- One (1) Paramedic course in 2016
- Three (3) Basic EMT classes in 2016.
- First ever Satellite program with the City of Lansing Fire Department

McLaren Regional Medical Center remains as our base hospital, with Dr. Tressa Gardner serving as the Physician Medical Director for the Waterford Regional Fire Department and Waterford EMS Academy.

The Waterford Regional Fire Department Emergency Medical Services continued in 2016 to provide skilled and professional pre-hospital care to the residents of Waterford.



## Fire Radios and Gear – Dennis Rederstorf



We have a total of 153 Harris portable and mobile Fire Department radios, 6 VHF hospital / state communication radios in our ALS rescues, 9 station alert toning systems that include tone plectrons and amplifiers, 2 VHF base station radios used for dispatching and 1 back up dispatch radio tone out system at sta.1

Budgeted funds were used during 2016 for replacement of damaged radios, lapel microphones, radio antennas and a new Station 1 backup dispatch system. We are now FCC compliant to do our own dispatching if something were to happen to the Police Dept. dispatch system and/or the tower antenna. This was also needed for our ISO rating.

Chris Petres and Dennis work together to get radios repaired, teaching new hires how to use our radios, station plectron system repairs, tower radio updates, working on the radio system at Sta. 9 and building a backup dispatch system at Sta.1

### Future Requirements:

- For 2017 we need to replace our main back up dispatch radio that is located in the radio tower. It works but parts are no longer available for our current one. Also, the service companies in our area do not work on this unit anymore. We will look online for used ones to purchase. Used ones have sold for under \$2000 online last when they get posted. We were searching for this replacement but could not find one that was cost effective for the Fire Department.

Here are a few pictures of our new sta.1 backup dispatch system. The left picture is a where we will be toning the stations from. The right picture is one of our old Truck Radios that allow us to tone out over our VHS antenna.



WRFD has 252 sets of turnout fire fighting coats and pants in service. Budgeted funds are expensed for repair, maintenance, and NFPA inspections as required.

Throughout 2016, funds were expensed for the purchase of new fire gear including: fire coats and pants, helmets, boots, gloves, Carbon X hoods and miscellaneous parts for our gear. We did purchase new fire gear with the hiring of new personnel through the SAFER grant.

Dennis and Jesse Coon work together in the inspection, repairs, service, fitting and inventory work to keep our firefighters in the safest fire gear. Our fire gear does take a beating from the sheer volume of calls that we respond to.

Future Requirements:

- We should be able to work with our 2017 funds for us to continue on our NFPA approved safety inspection, cleaning and repair services needed.
- Due to a 10 year age requirement, 8 front line sets of gear will be getting replaced in 2017.





## Fire Prevention Division – Asst. Chief Carl Wallace

The Fire Prevention Division currently consists of three Fire Inspectors and the Fire Marshal. All four employees are State of Michigan Certified Fire Inspectors and certified Fire Investigators. The Fire Marshal is also a State of Michigan Public Act 54 Registered Code Official for inspecting Fire Protection Systems and reviewing Fire Protection System Plans.

The Fire Prevention Division continues to conduct fire inspections, site plan reviews, fire alarm system plan reviews, fire suppression system plan reviews, fire safety inspections, fire investigations, assigns addresses and performs other activities as required. We continue to make our priority assembly occupancies, commercial buildings that have special fire systems, high hazards occupancies, new construction and buildings with occupancies changes.

2016 was a busy year for Fire Prevention with an increase in new building projects in both the Township and the City of Pontiac which in turn increased the number of man hours dedicated to plan reviews and new construction inspections conducted by our Inspectors. This is a good sign for the economy of both communities but it also is putting a burden on our day to day operations with our current manpower on moving forward with our Annual Life Safety Inspection Program. Easing the stress of the increased work load is a good working relationship with both the Waterford Township Department of Development Services and The City of Pontiac Building and Safety Department.



### **Inspections and Plan Review:**

The Fire Prevention Division performed 1045 fire inspections plans reviews in 2016 a slight increase over last year. This year 113 plan submittals were completed in the Township and 113 in the City. These plans include site plans, hood system plans, fire alarm plans, fire suppression (sprinkler) plans and special suppression agent plans. We reviewed and verified inspection reports on various fire safety systems throughout Waterford Township and The City of Pontiac. All acceptance tests are done cooperatively with the building department inspectors. The Waterford Regional Fire Department continues to handle all reviews for fire suppression and fire alarm systems in the Township and reviews/assists in the review process in the City of Pontiac Building Department. The building departments and fire department continue to work well together in the best interest of the citizens of Waterford Township and the City of Pontiac.



### **Addresses:**

The Fire Prevention Division assigned 88 addresses in Waterford Township in 2016 an increase of 25 addresses from 2015.

### **Freedom of Information Act: (FOIA)**

The Fire Prevention Division processed 164 FOIA requests in 2016 an increase of 32 from 2015. Most of these were for information regarding underground storage tanks or hazardous materials at commercial businesses. This also included requests for information regarding fire reports and fire investigation reports/ files.

### **Training:**

Training has always been a large part of the Fire Prevention Division as it is in all aspects of the fire services. The Division must remain current in all disciplines of the fire service in case we are needed for firefighting and EMS activities in addition to our fire inspections and fire investigations work load. All division members are required to attending hours of needed continuing education classes throughout the year to maintain certifications in the disciplines of Fire Inspection, Fire Investigation, Firefighting and EMS.

### **Pre Fire Surveys:**

Pre Fire Surveys are being conducted by our on duty fire suppression crews when time allows. This is a very important part of protecting not only our citizens and businesses but also allows our personnel to familiarize themselves with building to ensure their personal safety.

### **302 Sites:**

Waterford Township and the City of Pontiac currently have a number of sites designated as 302 sites. These are occupancies that store or use hazardous materials over a specified amount. These facilities must file an annual report to the Local Emergency Planning Committee (LEPC) which is Oakland County in our jurisdiction. These reports are compiled and are carried on each fire apparatus. This "book" (tablet information) is updated when we receive the reports from the LEPC. All fire department personnel have been given "site specific" training. Training is coordinated with our Hazardous Material Team Leader and the Training Division. Our Fire Department Consultant also assists with the 302 site program within our communities.



### **Fire Investigation:**

The Fire Prevention Division was called upon for 114 Origin and Cause Investigations throughout Waterford and Pontiac which was an increase from 2015 of 14 investigations. Each member is on call one week out of the month for "after hour's investigations" and is backed up by a second investigator on each fire scene. The Waterford Township Police Department has assigned Detective Greg Allen to assist with fires within Waterford Township when the work of a detective is needed. The Oakland County Sheriff's Office Fire Investigation Unit is used to assist in both the City of Pontiac and Waterford Township if needed.

### **Smoke Detector Program:**

When it is discovered that a residence has no working smoke detector, the fire department will provide and install a free smoke detector. These detectors are installed by on-duty personnel or a Fire Inspector. Statistics have shown that having one working smoke alarm in a home will reduce the risk of death in a fire by 50%. We feel this program is an inexpensive investment for the protection of our residents in both the Waterford and Pontiac Districts. All WRFD fire stations carry smoke detectors and installation kits. Some of the smoke detectors have been donated to our department by local businesses after hearing of our detector program.



### **Fireworks:**

The Fire Prevention Division reviewed, inspected and supervised all fireworks displays conducted in Waterford Township and a display in Pontiac. All of the shows were conducted following NFPA 1123 standards. The majority of the shows were conducted from the water on barges. This significantly reduced the fallout and danger for the spectators. We also had two displays that were ground fired at Waterford Kettering High School and M1 Concourse in Pontiac. In 2016 we issued 5 permits with standby in Waterford and 1 in the City of Pontiac.

WRFD hosted the Southeast Michigan Fire Inspectors Society fall meeting in Pontiac. We met at the Lafayette Grand and then toured the haunted house, Erebus, in Pontiac.



## Fire Prevention Education – Kurt Vine



We continue to work hard for the Waterford Regional Fire Department as we represent the department to the schools and community groups in our area. Chief Lyman has allowed us to be very aggressive and creative in our efforts to educate the citizens about the fire hazards that they can encounter in their daily lives. We are very pleased with the relationships we have cultivated with parents, students and school staff in our communities. Our program is in cooperation with the citizens and school districts of Waterford and Pontiac and numerous private and charter schools within our jurisdiction. It is estimated that over ten thousand children and adults were exposed to our Fire Prevention Education Program in some manner for 2016.

Personnel involved in this program are: Kurt Vine (Team Leader), Greg Mathiak, Ron Stevens.

### **THE FIRE SAFETY HOUSE**

The Fire Safety House was involved in numerous events this past year and was seen continually and consistently all over the community. This portable training tool made an appearance at every elementary school in both Waterford and Pontiac School Districts this past year. This program is focused toward third and fourth grade students. Written reports are documented for each Fire Safety House use. Weather permitting, we use the months of April, May, June, September, October, November to get this unit to each school. Within the Fire Department, a team of firefighters are trained and responsible for the instruction of our students in both Waterford and Pontiac communities.

The Fire Safety House was used in two parades in 2016.

Pontiac – Winter Extravaganza

Waterford – Memorial Day Parade



### **HOME DEPOT OPEN HOUSE**

In creating stronger partnerships with local businesses, the Fire Safety Team committed to interact with the public at this event. Fire Safety literature was distributed and tours of the apparatuses were given.



## **FIRE SAFETY CLASSROOM PRESENTATIONS**

Fire safety presentations are done during the winter months while the fire safety house is in storage. Throughout the winter months Kurt Vine, Greg Mathiak and Ron Stevens visited every elementary school in Waterford and Pontiac. These presentations deal specifically with kindergarten through second grade. Children are taught about smoke detectors, the dangers of matches and lighters, escape plans and who to call when they have an emergency. These presentations instill knowledge at an early age how to handle an emergency and teach life safety skills they can share with their parents when they return home from school.



## **FIRE DEPARTMENT OPEN HOUSE**

The Fire Prevention Week Open House was held in both districts this year at Station #1 and Station #7. This is an annual event for the communities. Literature, station tours, fire safety presentations, live burn demonstration and the Smoke House were used to educate our citizens. Firefighters come together to talk with citizens and discuss the message of fire safety to young and old. Our community event was augmented by local businesses: Leo's Coney Island provided food. Stars and Stripes provided mats for Stop, Drop and Roll activities. Genisys Credit Union sponsored face painting and McLaren Oakland provided a bicycle safety station to fit and donate hundreds of bike helmets.

## **OAKLAND COUNTY SHERIFF'S OFFICE'S 4TH ANNUAL HARVEST FESTIVAL ANGELS NIGHT**

This is the fourth year for this event and the Pontiac School District added the "Lights On: Trunk or Treat" portion. The Waterford Regional Fire Safety team provided a number of fire trucks, including Engine 7 and Tower 8. On duty personnel provided tours of the trucks and a demonstration of the aerial truck in addition to providing Fire Safety materials to children. This event is attended by hundreds of families in the area and is one of the larger events that fire safety staffs.

## **AIRPORT OPEN HOUSE**

This annual event is the largest attended by the fire safety team. We provide the event with a "display" engine as well as an on duty rescue. Fire Safety literature was distributed and tours of the fire engine were given to the public. The fire engine provided for display remains one of the most popular attractions at the show. It is estimated that near 1,000 people tour the fire engine. Families are allowed to climb into the cab of the truck and take family photos. Attendees are able to ask questions and receive fire safety tips from personnel.



## **FIRE STATION TOURS**

We have hosted numerous tours of Station #1 throughout the year with many area scouting, school and other citizen groups. Kurt Vine, Greg Mathiak and on duty personnel were utilized to handle tours from the schools, scouts and other contacts. Other tours of the fire station are coordinated between Fire Department secretaries and the Battalion Chief on duty.

## **SCOUT GROUPS**

Numerous scouting groups came to the Fire Department for station tours and fire safety presentations to earn first aid and fire safety merit badges.

## **PONTIAC NIGHT OUT EVENT**

This was our fifth year in attendance at this event which was held at the Oakland County Sheriff's Department substation in Pontiac. On duty personnel attended this event with a variety of fire trucks. Fire Safety informational literature was passed out at this event.

## **HARVEST HAPPENINGS AT HESS HATHAWAY**

This was a large community event to which the Fire Department supplied a Fire Engine for community education on fire safety and to answer any questions the public may have about service or equipment.

## **SCHOOLCRAFT ELEMENTARY CARNIVAL**

This was also our eleventh year attending this event. A fire engine was sent with Fire Safety team members. Tours of the engine were given and fire hose was taken off the truck for children to spray water.



## **VARIOUS COMMUNITY EVENTS**

The fire safety team attended numerous church events as well as local neighborhood outreach programs. The team spent time at the Salvation Army summer camp answering questions about fire safety as well as teaching them how you can become a firefighter.

## **SENIOR CITIZEN FIRE SAFETY**

Numerous events were held at local assisted care and independent living facilities for senior citizens. The seniors who attended these events were given literature on fire safety. A question and answer session was held to discuss how to handle different emergencies weather related as well as medical.

## **HOLIDAY FIRE SAFETY EVENT**

Greg Mathiak organized a holiday fire safety event at Beaumont Elementary school. This event was held to give adults fire safety tips for the holidays. The event was very successful and we are looking to expand it in 2017.



## Waterford Regional Fire Department in Action in 2016

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## Training Division – Captain Josh Dorman

The main purpose of the Waterford Regional Fire Department, Training Division is to provide a system of regular structured training programs of sufficient content and duration, designed to keep personnel informed of and proficient in performing the duties associated with job and to provide training that is required by the state of Michigan. The efficient operation of this department depends on a high degree of skill that can only be maintained by constant practice and professional effort.

Additionally, we are graded by the Insurance Service Office for our ability to put out a fire. The grading has an impact on the insurance rates in the communities that we serve. There are three main categories on which we are graded, of which, training is a large component.

Further, we are required to fulfill state and federal training requirements to ensure our readiness to serve the public. It is imperative that our personnel are trained to a degree of proficiency that keeps them and the public safe. Many lives are riding on our ability to respond to emergencies and there are many requirements that we must meet.

The Training Officer is responsible for monthly on-going educational training programs involving subjects required by law and recognized as national standards, including but, not limited to: fire suppression, rescue, hazardous material, driver training, fire fighter safety & survival, professional development, post-incident debriefings, department SOP's/SOG's, and new equipment in-services.

In 2016 the Waterford Regional Fire Department began with keeping our goals from the 2015 annual training report in mind. We continued to work to identify training needs and goals for the future. A recap of the goals for 2016 includes: developing a 24 month training plan for high risk/low frequency events and legally mandated topics, developing a 36 month training plan for basic firefighting skills, developing a true training division of MFFTC (Michigan Fire Fighter Training Council) qualified instructors, finding and providing initial and continuing education for leadership, and adjusting to provide unforeseen training needs.



The goals that we had great success in meeting were all of the following: developing a 36 month training plan of basic firefighting skills, developing a true training division, continuing education for leadership, and adjusting to accommodate unforeseen training needs. It is challenging to provide training for a full time professional fire department. We continue to adjust, at times, by the minute and certainly hourly and daily to accomplish our training needs. Our personnel do an amazing job of working to be involved and complete all necessary training; specifically, the training we attempt to plan that is required by the state.



The details of our 2016 goals are as follows; we have been following our 36 month training plan based upon MIOSHA part 74 as required by law. The plan will be utilized to guide us in making our annual training plan that is based off of the needs of our personnel and the communities we serve. We also had great success in developing a true training division. Several of our personnel have been trained to become Fire I instructors and have been assisting with department training.

Continuing education for our leadership was also of major importance for us. Chief Lyman wrote a grant to have 20 of our personnel trained to the Fire Officer I and II level where they learned the following:

- Strategy & Tactics
- Developing Goals
- Operational Planning
- Shift Dynamics
- Legal Issues That Affect The Officer
- Customer Service
- Politics
- Code Enforcement & Public Education
- Organizational Management Transition To New Roles And Responsibilities
- Operational Planning Principles
- Strategy & Tactics
- Communication
- Health And Safety
- Human Resources
- Legal Issues
- Professional Fire Service
- Development Of Goals
- Code Enforcement
- Training



Other success we had in the training division was in continuing to adjust for unseen training needs, the area that we traditionally have greatest success is in our ability as fire fighters to adjust to and overcome challenges due to the responsibility we feel for our communities and the love of our profession.

High risk/low frequency events that needed special attention in 2016 were joint response active assailant, hazardous materials response, and terrorist events. Our greatest success in these areas has been in active assailant response. We have been working with Oakland County fire departments and law enforcement to be better prepared to handle such an incident. In 2016, all our personnel have done online active assailant training and select personnel have been trained as instructors to facilitate practical training in 2017.

That success we enjoyed in 2016 has come via highly dedicated personnel that have volunteered their time for the service we provide. Without the knowledge, skills, and time of dedicated personnel we would consistently fail. The best way to thank these personnel will be to continue to support them by finding and providing training specific to our dynamic environment.



In 2016 we recognized the need to improve our attention to detail in daily truck checks. As our fleet of apparatus ages, it becomes extremely important to ensure that all vehicles are road worthy, safe to drive for emergency response. Our personnel and our citizen's lives can be in greatest danger as we respond to and from incidents. It is imperative that we keep our fleet in the best condition possible to manage the risk that is created through such emergency response. The way we decided to address this challenge has been through mandatory truck check documentation. The documentation includes all necessary aspects of a Michigan DOT vehicle inspection as well as items important to emergency personnel.



The true effectiveness of our training is measured by our performance during emergency response. However, another method to measure our effectiveness is to track our training hours. The total hours of training captured in 2016 are 24,501. This is an increase of five times the hours we were able to capture in 2015. The dramatic increase is due to our emphasis on apparatus truck checks and tracking their documentation. This has been a tremendous effort by WRFD personnel to ensure public safety. As stated, the true effectiveness of our training is that of our performance. Ultimately our goal is not to increase training hours but, to increase our performance during an emergency response. We will do that by encouraging company level officer involvement, building annual training plans, encouraging post-incident analysis, providing high quality training for high risk/low frequency events, training thoroughly on safety, and by educating more instructors to assist the training needs of the department. Our proficiency in our response relies on knowledge, practice, and safety. Our effectiveness is improved immeasurably when we are able to do live evolutions which make training more realistic. Many of the live training events that we put on this year were documented with pictures and are included in this report.

Within the Training Division, Tom Rayner works as the Operations Assistant. He works in many different areas working to keep our Operations efficient. He works different businesses including GM, Oakland County and nursing homes in tabletop exercises, disaster training, etc. He inputs training records, and certificates for all personnel in our department.

Tom continues to maintain our SARA Title II hazardous materials records, and then trains each shift as to what is in their response areas. He works with the inspectors to present new buildings and hazards for pre-planning. Arranged walk-through at GM Parts - Drayton Plains; Pontiac West - 660 South Blvd. E; 500 Centerpoint Pkwy., Pontiac; and Door Co. - Waterford.

Tom assists with replacement and repair of computers in the department. He works with the Apparatus Division as requested to transport trucks to and from dealerships and truck repair shops. He worked to find a way to mount the new Jaws of Life equipment in the trucks for easy access for fire fighters. He is also called on to replace medical or other station supplies as needed and called upon to do so.



## 2016 TRAINING TOPICS

- Apparatus Checks
- Ice Rescue
- Active Assailant
- Oakland County International Airport Awareness
- Hazardous Material 302 site awareness
- Consumers Energy: Pipeline Awareness
- MFFTC (System Maintenance of Knowledge and Education)
- Company fire ground operations: H.O.T. Donated Structures
- Vehicle Extrication Train the Trainer
- Forcible Entry
- Risk Management Leadership Training
- Water Rescue
- Air Consumption
- Hose testing
- Oakland County MABAS Response
- Flashover Simulator
- Fire Officer I&II
- Harassment and Intimidation in the work place
- Standard Operating Procedures/Guideline Review

**2017 Goal:** The WRFD Training Division will continue to work to plan and provide high quality training that includes hands on training topics, classroom preparation, and required training. We will continue to make it a collaborative effort that benefits our personnel as well as the communities we serve.

## 2017 PROJECTED TRAINING TOPICS

- Ice Rescue
- Oakland County Disaster Preparedness (Derailment)
- Oakland International Airport Disaster (Plane Crash)
- Active Assailant
- Water Supply in Lake Angelus and other challenging response areas
- Fire Officer Education (state required)
- Extrication
- Driver Training Refresher
- Traditional Forcible Entry
- SARA TITLE III Occupancy walk-through
- Lock Out/Tag Out
- Fire Fighter Survival
- Hose Testing
- Pump Engineer Class
- Emphasis on SAFER Grant Personnel
- Emphasis on our 36 month training plan



**Our Fire Cadet Program is a responsibility of the Training Division.** Fire cadets were again part of our public education program. We helped students at several local schools learn about our profession. The program is focused on providing exposure to our profession not necessarily teaching them how to perform it. As personnel are available to assist the program we try to meet the higher standard of providing fundamental firefighter and EMS training. Some of the fundamental training cadets have been part of in 2016 includes: donning and doffing, search and rescue, air emergencies, fire extinguisher use, and emergency response.



Cadets are required to be self starters and follow an agenda created by the training officer when our personnel are not available to interact with them. Each semester their performance is reviewed according to documentation provided by the school they attend. We also require them to become CPR, First Aid, and Blood borne pathogen certified, all the certifications are provided free by WRFD. The 2016/2017 school year has included up to 8 cadets that are participating in the program. It is our goal to continue to provide young adults an opportunity to be exposed to the emergency services profession. Some of their efforts will be seen in pictures included in this report.



## Waterford Regional Fire Department in Action in 2016



## Hazardous Materials Team Report – Paul Dallas

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The Waterford Regional Hazmat team is responsible for providing life safety and emergency mitigation of hazardous material situations. The team is responsible for Waterford Township, City of Lake Angelus, and the City of Pontiac. The hazmat team is part of the Oakland County Hazardous Materials Team South. The South team is comprised of the 8 Oakway departments and relies on mutual aid with each other for large scale responses. The first response area for the Waterford Regional Hazmat team consists of highways, railways, and an international airport, residential, commercial, and industrial areas. There are also several SARA Title III sites that have hazardous materials on site at all times. With the volume of truck traffic, rail traffic, and air traffic there is always a high potential for an emergency.

For the year 2016, the Hazmat team has experienced a few minor changes for the positive thus improving both our local hazmat team and adding more experience and resources for the Oakway team as well. In the year 2015 the Waterford Regional team had experienced halts on over time and comp time being collected for attending Oakway training events which had resulted in a lack of participation from team members. In 2016 we did address these issues as well as other reasons for lack of participation from our members attending the Oakway training events thus putting a stop to the concerns of Oakway about our department's participation and commitment. The team has continued to stay fresh with new training systems, such as "Hazmat IQ", which is designed to help first arriving companies with size up of a hazardous materials incident. We also sent existing technicians to rail car classes involving hazardous material mitigation as well as many other classes involving homeland security type issues offered by FEMA and Oakland County. In addition to all this, in 2016 we sent 6 of our hazmat team members that were operations level members to hazmat technician school in Anniston Alabama. This has greatly increased our team's capabilities and making us by far the largest team in Oakway. WRFD currently has 17-hazmat techs, and 9-Ops level members bringing our team to a total of 26-members. We are continuing to evaluate the needs of the team and the levels of training that the personnel are involved.



As the team leader I am tasked with scheduling trainings, motivation, recruitment of members, finding grants, coordinating with the Oakway hazmat team leaders, and other related duties.



The objectives of the 2017 WRFD Hazmat team are to:

- Protect the citizens and responders in Waterford, Lake Angelus, and the City of Pontiac.
- Provide team members with adequate training, and maintain minimum training required for members under OSHA 29 CFR 1910.120.
- Maintain participation with mutual aid agreement, OAKWAY.
- Assist the WRFD Training Division with yearly training for the fire department.
- Properly use allocated funds to maximize objectives of the Hazmat Team.



The goals of the WRFD Hazmat team are to:

- Increase participation among team members.
- Search for grants that allow for training, or needed materials.
- Increase participation with Oakway by attending quarterly trainings.
- Provide hazmat training once every two months to the WRFD personnel to improve first response awareness and efficiency.
- Educate members to a higher level of training as needed.
- Hope to increase the WRFD hazmat budget to operate and train the team and all responders.



## Waterford Regional Fire Department in Action in 2016

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## Information & Technology – Don Claeys

2016 was another challenging year for the fire department's computer and technology programs. While working closely with Waterford Township's IS Department we maintain the department's complex network of desktops, laptops, tablets, printers, projectors, software system and a host of other mobile devices.

With the technology world constantly striving for the shock and awe of the end users, it is the IS departments everywhere that are left trying to find ways to bring these products to its people. Whether it's the latest software upgrades, newest mobile devices, cloud storage and access, or smart televisions, things are always in motion.

As our networking equipment ages new pieces are steadily introduced and last year was no exception. We completed the server upgrade as the old was no longer supported. We are pleased to report that we had minimal network interruptions after its completion.

As improvements to the network were made, we reached a new contract with Comcast that improved our network speed to more than 3x the old at all 9 fire stations, while having minimal impact on our bottom line. This improvement only enhanced the different software upgrades that were made throughout the year.

ESO solutions released the long awaited web based 2<sup>nd</sup> generation EHR or Electronic Hospital Record upgrade that was far easier for the end user. This is the software that is used for billing purposes and the recapturing of funds from insurance companies and enhancing our bottom line.



Mobile Eyes Software continues to be used by our inspections division with good results; however it was not picked up by our building department as some major hurdles were not as easily overcome as originally expected. As a result, discussions about future use and or the merging with the building department software could be on the table for 2017.

Oakland County rolled out its enhanced computer aided dispatch software in the fall of 2016. While some tweaks to the look as well as the organization of information would be nice, it does provide a level of mapping that we are not using at this time and provides automatic interface with the other software we use. They continue to work on the development of our Fire Records Management Software rebuild that has utilized the input from all Oakland County Departments and should be completed sometime in 2018.

In August we sent a couple members to the Fire Department Instructor Conference where they had the opportunity to interact with different departments and vendors to see what other software is available.



As the talks continued they were able to identify new products that would enhance multiple areas of our department. As a result of this they identified programs that were available to drastically improve different task that are performed on a daily and annual bases. Since October we have met with different software companies pertaining to everything from emergency call back automating to scheduling and daily flow processes and the reduction of paper and increase of electronic automated forms. We hope to relieve 2-5 man-hours per week from our work flow through this automation.

With the replacement of our Master Mechanic with a part time contract laborer we realized that the fire department could use "City Works", a software already purchased and used by DPW, to improve the easy and productivity of record keeping in our mechanics division. This would better facilitate the fire mechanics with repair request, repair cost, apparatus status (availability), maintenance documentation as well as accounts payable. At the end of November we began working with Frank Fisher of DPW to see what was needed and begin its pursuit, with the optimism that we could be using it by the spring of 2017.

In 2016 we continued maintenance of our PC fleet with the replacement of 20% of the units as recommended by director of IS Jared Black, thus minimizing an exorbitant expense and inconvenience to our end users to replace all units every 5 years. We completed the upgrade of our training room to personnel computers from the old "Neoware" software equipment at zero expense. We relocated older, less supported 745 Dell computers that were removed from the network that still work well for this application and are capable of connecting to the internet. This internet only computer area is used as our classroom where most all work done is on web page bases for or CPR classes, basic life support classes and our paramedic classes. This room is also equipped to handle meetings and other in-services as performed by our local Chamber of Commerce and Better Business Bureau to name a few. 2017 will present no less of an obstacle. While continuing the 20% replacement of our PC's as mentioned earlier, we will continue the deployment of new software to improve the work flow of our end users like "City Works" and "Civic Ready", while still investigating the completion and use of "Kronos", our employee tracking and payroll software.

The procurement of Waterford assets increases the level of security demanded on our mobile data devices. With the demands of the employees for continued access to scheduling and work related projects and the maintenance of 26 front line apparatus and staff vehicles, having these devices complicates the security of government records and also those of the community that we are sworn to protect.

With over 130 pieces of equipment to maintain and 135 employees to support, there will always be something to update, repair or replace. With the support of Chief Lyman and Deputy Chief Covey this team is confident that we will continue to be able to provide improvements to our interactive systems within the department. We appreciate the latitude granted to us leading to our ownership of tasks delegated as we strive to meet expectations and ultimately, to improve this department.





## **SCBA Equipment – Kevin Fletcher**

43 MSA Firehawk M-7 SCBA's were flow tested and repaired (as needed) in order to meet NIOSH and NFPA standards.

38 MSA Firehawk M-7XT SCBA's were flow tested and repaired (as needed) in order to meet NIOSH and NFPA standards.

All Firefighters and Waterford Water Department employees were FIT tested to determine proper SCBA mask sizing to meet NIOSH and NFPA standards.

The Posi-Check test equipment received a required upgrade and new software to keep the NIOSH certification. This equipment is used for flow and function testing.

Air quality tests were done quarterly on the air compressor systems at Station 1 and 7 as required by NFPA standards. Compressor maintenance was performed as needed on both compressors.

Cylinder Hydro Testing was performed on SCBA and Oxygen cylinders as required by NIOSH.

A PortaCount FIT Testing machine was purchased from Argus-Hazco., allowing our department to FIT test our employees in a much more efficient way.

All 8 of our Four Gas Monitors were serviced, including the replacement of oxygen sensors.

All fire extinguishers were serviced and inspected. Six CO2 extinguishers were replaced do to the age.

### **Future Requirements:**

- Replacing the supplied air system on the Technical Rescue truck for confined space.
- Bauer compressor class that will allow us to provide service on station 7's compressor
- To recert as a MSA repair facility





## Station Maintenance – Battalion Chief Steve Bridger

Fire Station 1: Station 1 did not have any major maintenance for the year 2016, the largest issue that we had was a hvac issue that wasn't allowing the system to operate on the full system, but rather only half. Due to it, the building wasn't cooling properly and allowed the humidity levels to rise. As always we have numerous bay door repairs, mostly broken springs and worn out rollers. Other than that it was just normal maintenance and small repairs and replacements.

Fire Station 2: Station 2 had the usual bay door issues, one of the bay door openers had to be replaced due to an electrical short in it. Miscellaneous door problems were also corrected. We replaced 6 kitchen/dining chairs due to the old ones being worn out.

Fire Station 3: Station 3 did not require a lot of maintenance this past year, however we did replace some old and worn out carpet in the main living area. The bay ceiling had a large stain on it and that was repainted this past year. Station 3 has an aging roof and is slated to receive new shingles in year 2017. General upkeep and maintenance was also performed.

Fire Station 4: Station 4 received a lot of attention in year 2015 with a new roof system and all new bay doors. So for 2016 it didn't require anything other than general upkeep and light maintenance.

Fire Station 5: Station 5 received the most maintenance this past year, due to a failing flat roof system we replaced it with a new gabled roof system with all new trusses and shingles. We added some exterior lighting to the building at the time. The building is much more protected now with the addition of overhangs and a gutter system. The Air conditioning condenser was moved from the roof to the ground and was replaced at the time due to the age of the original unit. The dish washer and the washing machine had to be replaced due to the old ones failing.

Fire Station 6: Station 6 had no major maintenance this year, but it does have a failing flat roof that needs attention. It did have numerous leaks this past year that were patched up, but this is only a band-aide. The roof needs to be completely redone. We replaced the mattresses this past year along with some new chairs in the kitchen/dining area. We had a tree service come in and take down many trees and overgrowth that were taking over the property, looks much better now.



Fire Station 7: Station 7 received most of its recent maintenance in 2015 with a new kitchen and dining remodel. The apparatus room was painted in 2016 with the assistance of Captain Mike Mathews. Some of the exterior lighting was repaired and now the parking lot lights work like they are suppose to along with some of the buildings lighting. We added an ice machine and re plumbed for the washer and dryer in a different location. Station 7 also has had numerous roof leaks in the upstairs. There has been some patching done, but the roof needs major renovation. We replaced the old and wore out lazy boys this past year also.

Fire Station 8: Station 8 had a kitchen remodel done in 2015, for 2016 we replaced the carpet throughout the living quarters, the crews that work at station 8 remodeled the back tv room with new paint and ceiling, they also did a accent wall made up of pallet wood, looks really nice. The drop ceiling was replaced and the ceiling grid was painted in the front kitchen area. The duct work in the apparatus bay that the furnaces vent through was all replaced due to the original being all rotted out. The exterior lighting on the building was all updated to led. Most of the work was done by all the guys on duty.

Fire Station 9: Station 9 has been back open for approximately 1 ½ years. Over the past year it has been pretty much general maintenance. We have had some bay door repairs and had to replace one of the openers. The crews at Station 9 have done some interior painting and turned a spare room into the Lieutenants quarters. Carpet was replaced in the Battalions office and the tv room. Station 9 has a few roof leaks also that need to be addressed.





## Technical Rescue Team Report – Mike Moshier

The Waterford Regional Fire Department's Technical Rescue Team, here after (TRT), is responsible for responding to and mitigating dangerous incidents of the following nature: confined space rescue, trench rescue, rope rescue, structural collapse, and machine rescue. These types of incidents are extremely dangerous and require a highly trained team of multiple disciplines. The areas that they are trained in are referred to as "the four disciplines"; sometimes machine rescue is counted as a fifth discipline. The team responds in Waterford, Pontiac, and Lake Angelus as well as being a part of the OAKWAY TRT that responds anywhere in Oakland County. In addition to this response area the team can be called up to respond throughout the state and nationally as well. It is important that we keep a team of qualified personnel in the event that we need to respond to a call for help in any of the areas mentioned. TRT is usually a small group of qualified people that come together from other agencies to work together. Their work is of low frequency but, is of high risk to the rescuers and high reward for the person affected.



The goals for 2016 were to train a number of "new to tech rescue" personnel and help improve the qualifications and expertise of our team. Another goal was to attend monthly OAKWAY TRT meetings as well as quarterly training with OAKWAY TRT members.

Captain Nye stepped down as the Tech Rescue Coordinator and Engineer/Paramedic Mike Moshier has stepped forth to take over those responsibilities. Mike is already making an impact by meeting with OAKWAY leaders and analyzing our strengths and weaknesses to improve our capabilities.

Throughout the year we had 377 hours of training for our team. This is a tremendous improvement over the previous 4 years. We were also able to send three members to a technical rescue class in Howell where they learned and refreshed skill sets. Additionally, we have outfitted 4 personnel with equipment and replaced some expired equipment.



We had one tech rescue incident that WRFD and OAKWAY personnel responded to at the water tower. Tragically, there was a citizen that died in the incident while others were saved by our personnel. Ultimately, the incident is looked at as a success due to our personnel's performance and the lives that were saved as a result.



Due to the dedication of our members, we have been able to meet some of the goals for 2016. Looking ahead to 2017, we will carry forward the goals of 2016 and continue to train new and existing members. We want to have several members that are qualified in 5 disciplines because they are more capable of handling a wide array of incidents. Quite often, a technical rescue involves several different skill sets and a limited number of responders. Another goal for 2017 will be to repair or replace aging equipment, first through grants with OAKWAY, and then through township funding.



## Waterford Regional Fire Department in Action in 2016



## 2016 Calls by Incident Type

<u>Fire</u>	<u>Incident Count</u>
Fire, other	19
Building fire	127
Cooking fire, confined to container	101
Chimney or flue fire, confined to chimney or flue	3
Fuel burner/boiler malfunction, fire confined	3
Trash or rubbish fire, contained	22
Mobile property (vehicle) fire, other	9
Passenger vehicle fire	81
Road freight or transport vehicle fire	1
Off-road vehicle or heavy equipment fire	1
Natural vegetation fire, other	3
Brush, or brush and grass mixture fire	26
Grass fire	27
Outside rubbish fire, other	36
Outside rubbish, trash or waste fire	28
Construction or demolition landfill fire	1
Dumpster or other outside trash receptacle fire	25
Special outside fire, other	2
Outside storage fire	1
Outside equipment fire	2
Outside gas or vapor combustion explosion	1
	519
	<b>4.3%</b>

### Rupture/Explosion

Overpressure rupture of steam boiler	1
Overpressure rupture from air or gas, other	1
Explosion (no fire), other	1
Fireworks explosion (no fire)	1
	4
	<b>0.0%</b>

### EMS/Rescue

Rescue & Emergency Medical Service Incidents	4
Rescue, emergency medical call (EMS) call, other	3
Medical assist, assist EMS crew	649
Emergency medical service (EMS)	2
Emergency medical service, other	9
EMS call, excluding vehicle accident with injury	7,076
Vehicle accident with injuries	552
Vehicle accident with injuries and extrication	27



Motor vehicle/pedestrian accident (MV Ped)	47	
Motor vehicle accident with no injuries	153	
Vehicle accident with no injuries, with extrication	1	
Lock-in (if lock out , use 511 )	1	
Search for person in water	1	
Extrication of victim(s) from building/structure	1	
Extrication of victim(s) from vehicle	1	
Removal of victim(s) from stalled elevator	5	
High angle rescue	2	
Water & ice related rescue, other	1	
Ice Rescue	1	
Ice rescue	1	
Electrical rescue, other	1	
Rescue or EMS standby	4	
	8,542	<b>70.5%</b>

#### **Hazardous Condition**

Hazardous condition, other	4	
Flammable gas or liquid condition, other	1	
Gasoline or other flammable liquid spill	10	
Gas leak (natural gas or LPG)	82	
Oil or other combustible liquid spill	1	
Chemical hazard (no spill or leak)	1	
Chemical spill or leak	3	
Carbon monoxide incident	32	
Electrical wiring/equipment problem, other	31	
Heat from short circuit (wiring), defective/worn	2	
Overheated motor	2	
Light ballast breakdown	3	
Power line down	208	
Arcing, shorted electrical equipment	44	
Vehicle accident, general cleanup	2	
Attempted burning, illegal action, other	2	
Attempt to burn	1	
	429	<b>3.5%</b>

#### **Service Call**

Service Call, other	11	
Person in distress, other	4	
Lock-out	3	
Ring or jewelry removal	2	
Water problem, other	4	
Water or steam leak	4	



Smoke or odor removal	6	
Animal problem, other	1	
Animal problem	1	
Animal rescue	2	
Public service assistance, other	28	
Assist police or other governmental agency	55	
Police matter	6	
Public service	23	
Assist invalid	392	
Defective elevator, no occupants	1	
Unauthorized burning	318	
Cover assignment, standby, moveup	4	
	865	<b>7.1%</b>

### **Good Intent**

Good intent call, other	225	
Dispatched & cancelled en route	427	
Cancelled Prior to Dispatch	172	
EMS: Dispatched & cancelled en route	29	
Wrong location	3	
No incident found on arrival at dispatch address	82	
Authorized controlled burning	4	
Prescribed fire	3	
Steam, other gas mistaken for smoke, other	10	
Smoke scare, odor of smoke	97	
Steam, vapor, fog or dust thought to be smoke	3	
Barbecue, tar kettle	2	
EMS call, party transported by non-fire agency	5	
Hazmat release investigation w/ no hazmat	3	
Biological hazard investigation, none found	1	
	1,066	<b>8.8%</b>

### **False Call**

False alarm or false call, other	149	
Malicious, mischievous false call, other	5	
Municipal alarm system, malicious false alarm	2	
Direct tie to FD, malicious/false alarm	1	
Telephone, malicious false alarm	1	
Central station, malicious false alarm	3	
Local alarm system, malicious false alarm	3	
System malfunction, other	18	
Sprinkler activation due to malfunction	3	
Extinguishing system activation due to malfunction	1	



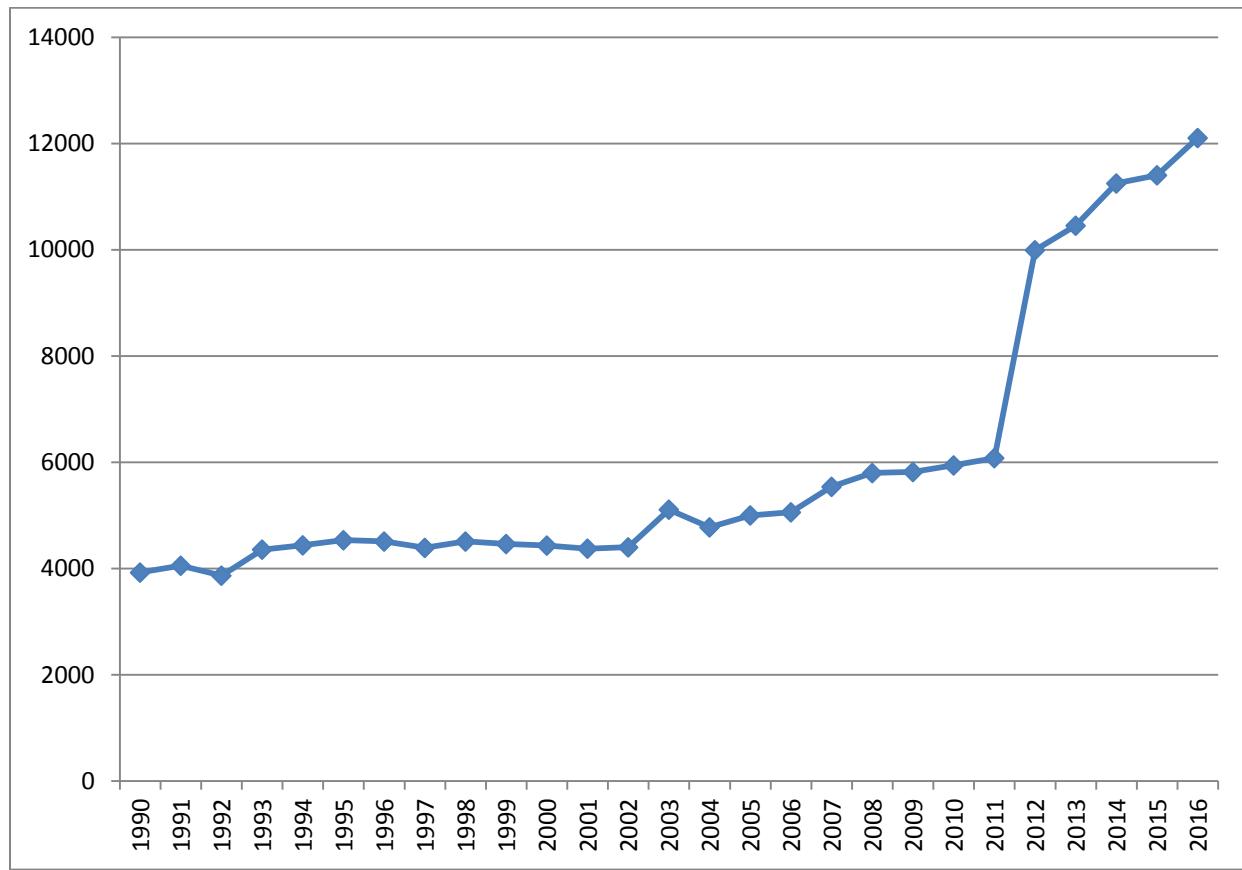
Smoke detector activation due to malfunction	43	
Heat detector activation due to malfunction	3	
Alarm system sounded due to malfunction	80	
CO detector activation due to malfunction	42	
Unintentional transmission of alarm, other	31	
Sprinkler activation, no fire - unintentional	5	
Extinguishing system activation	4	
Smoke detector activation, no fire - unintentional	55	
Detector activation, no fire - unintentional	28	
Alarm system sounded, no fire - unintentional	134	
EMS Alarm system sounded, unintentional	55	
Carbon monoxide detector activation, no CO	11	
	677	<b>5.6%</b>
Other		
Special type of incident, other	2	
	4	<b>0.0%</b>
	12,104	<b>100.0%</b>

### Casualties

Civilians Injuries	10	
Civilian Deaths	3	
Firefighter Injuries	5	

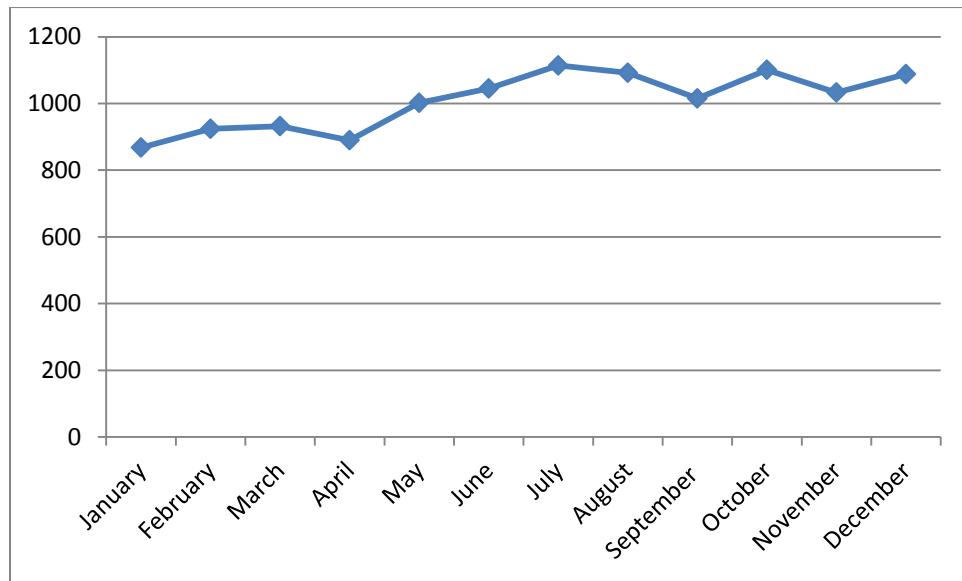


### Calls by the Year 1990-2016



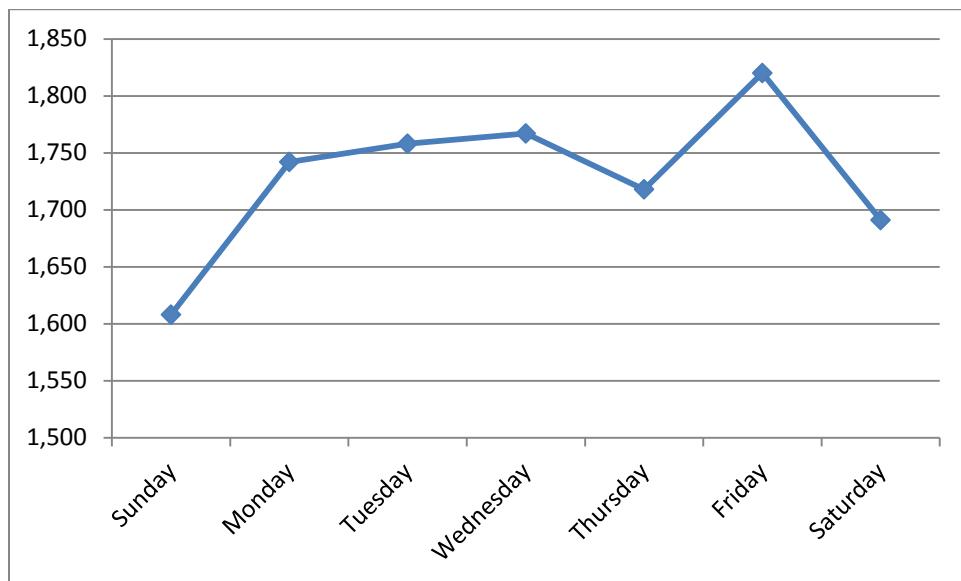
### Calls by the Month

July was the busiest month. January was the slowest.



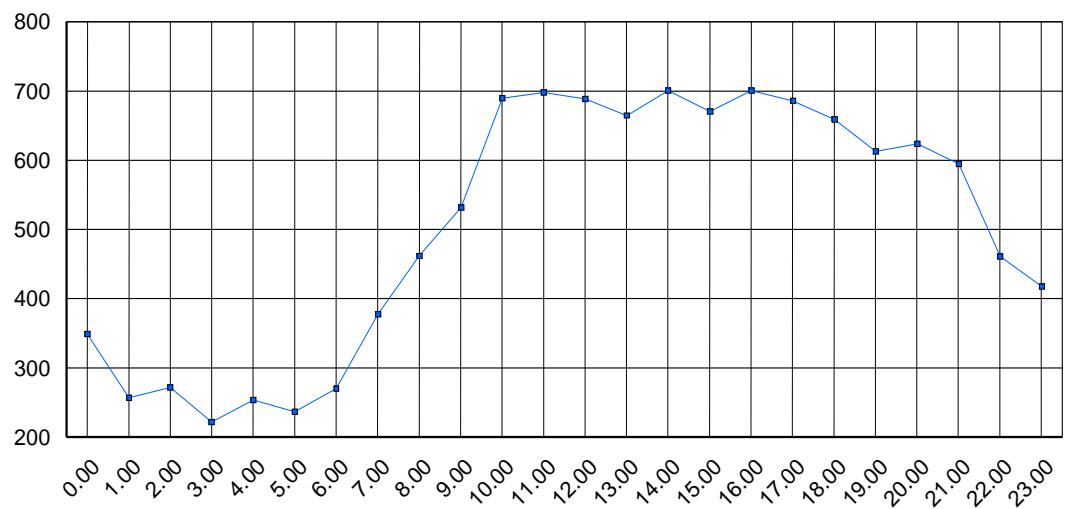
## Calls by Day of the Week

Friday is the busiest day of the week. Sunday is the slowest.

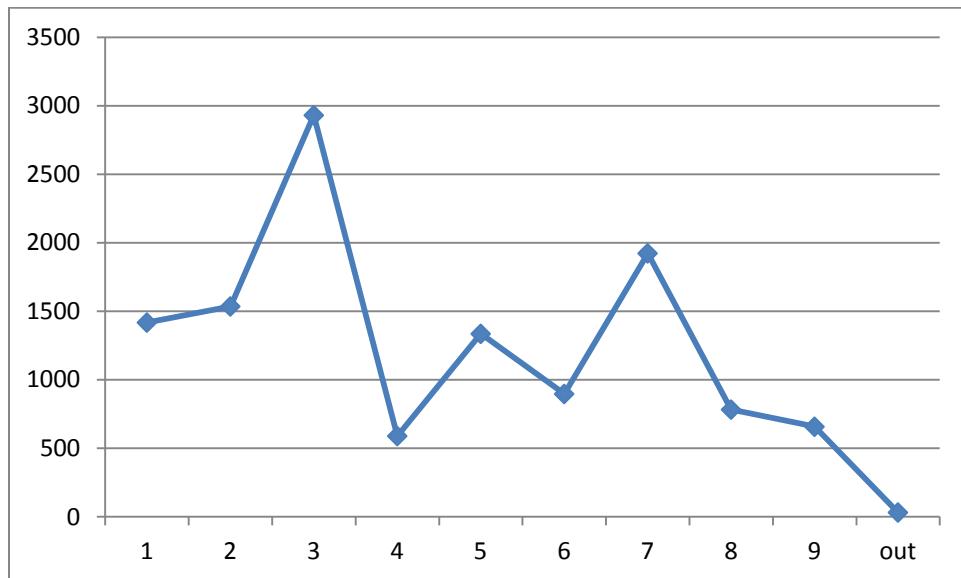


## Calls by time of day

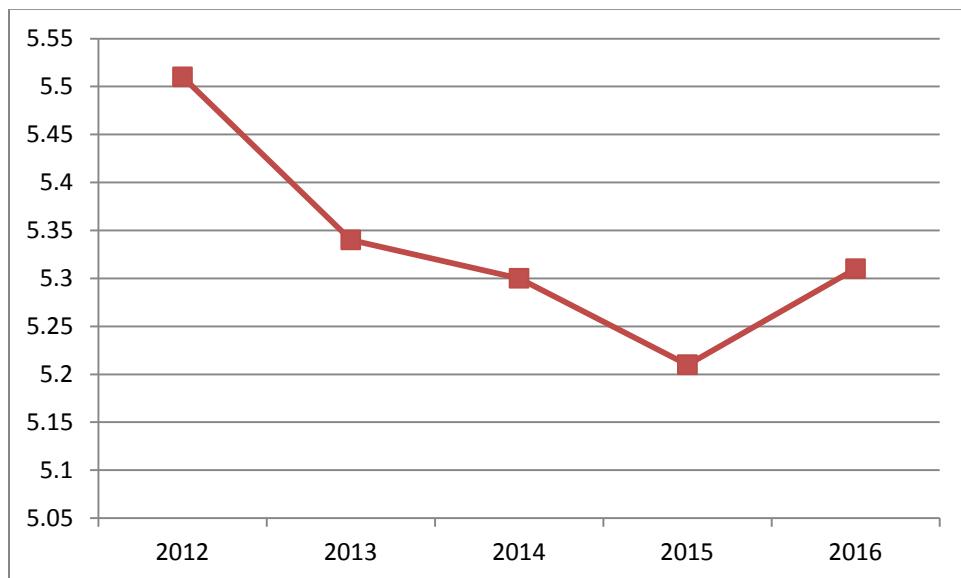
2pm and 4 pm are the busiest times during the day, while 3am is the slowest.



### Calls by Fire Station



### Average Response Times by Year



## City of Lake Angelus

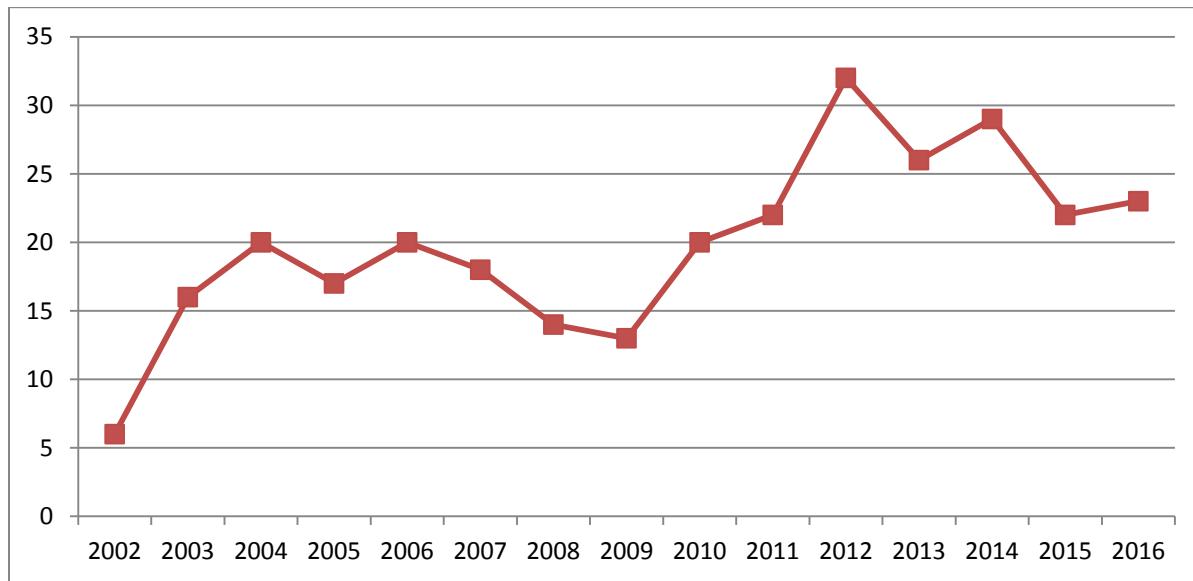


The Waterford Regional Fire Department provides fire and paramedic emergency services to the entire City of Lake Angelus. Fire Station 2 for the West portion and Station 6 for the East portion. Any one of our fire stations are capable of providing back up coverage and do so as necessary.

Chief Lyman attended a Lake Angelus City Council meeting. The annual report was presented and a review of the services provided and our commitment to the City of Lake Angelus and its residents.

### **2016 Call Volume for Lake Angelus**

House Fire	0
Medicals	15
Traffic Accidents	1
Power Line	
Down/Electrical Problem	4
Cancelled EnRoute	2
False Alarm	1
<b>TOTAL</b>	<b>23</b>





## City of Pontiac

Waterford Fire Department began providing emergency services to the City of Pontiac on February 1, 2012. Four fire stations are staffed 24/7/365 in Pontiac with 13 firefighters. We continue to provide basic life support to the Pontiac residents for EMS calls, working alongside Star EMS and the Oakland County Sheriff's Office.

Total alarms for 2016 were at 4,261, which is up by 11% in Pontiac; fire calls rose by 19%. 104 fires were single family homes, and 71 were apartment fires. We had 2 fire deaths in Pontiac for 2015. Engine 7 was the busiest unit in the City with 1,996 responses.

Chief Lyman and Deputy Chief Covey meet with the City Administrator and the Mayor on a quarterly basis and the Public Safety Sub-committee for City council on a monthly basis.

<u>2016 Incident Types in Pontiac</u>	
Fires	390
Overpressure/Explosion	3
EMS calls	2476
Hazardous Conditions	229
Public Service	219
Good Intent	550
False Alarms	302
System Malfunctions	90
Other - Non Fires	2
<b>Total</b>	<b>4261</b>

