



Waterford Regional Fire Department

2015 Annual Report



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Fire Department Administration

Fire Chief: John Lyman
Deputy Fire Chief: Matthew Covey
Administrative Assistant: Ann Ostrom
Office Clerk: Diane Beedle
Training Officer: Captain Joshua Dorman
Operational Assistant: Tom Rayner

Fire Marshal: Carl Wallace
Battalion Chief: Jim Runyan
Battalion Chief: Steve Bridger
Battalion Chief: Blake Nelson
EMS Coordinator: Lt. Jim Cooper



Mission Statement

The mission of the Waterford Fire Department is to protect the lives and property of the residents and visitors of Waterford Township, Lake Angelus and the City of Pontiac 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 2015 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 every day by all our fire department personnel. We continue to work for efficiency in providing the many services to the residents of Waterford, Pontiac and Lake Angelus.

2015 was a busy year administratively as we had several retirement and other personnel changes. The 2012 SAFER grant was extended 6 more months and ended in October. The 39 SAFER positions were eliminated and 3 more permanent positions were eliminated by attrition. Additionally, we were allowed to create a part-time mechanic position.

2015 calls for service totaled 11,398 a 1% increase over 2014. 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 down nearly 14%, with structure fires seeing a decrease of nearly 10% from 2014. 225 structure fire calls were residential and multi-residential structures. We saw estimated fire losses at \$1,798,900 during 2015. EMS calls were up 1.35% from 2014. EMS Transports for 2015 was at 4,590.

Our fire units respond nearly 21,000 times during the year. Response times for priority calls were just under 5 minutes a 7 second improvement from 2014. Our busiest fire station was station #3 with 2,931 calls in that area. The busiest fire engine and rescue were both out of Fire Station #3 with Engine 3 responding to 2,855 calls and Rescue 3 responding to 2,365 calls.

Our many accomplishments are detailed within this report. You will see from this report, many firefighters are involved in several roles that make up the total operations of the fire department. As we look back at 2015, we are looking forward to a successful 2016.

In 2016 the Fire Department will celebrate 75 years of service to Waterford. We are looking at producing a new photo collage and possibly other events to honor this tremendous milestone. Also for 2016, we will look to ask the voters to renew 2 property tax millages which makes up nearly 25% of our funding needed to provide great service.



John H. Lyman
Fire Chief



2015 Retirements



Battalion Chief Mark Ross, 35 years of dedicated service



Battalion Chief John Pote, 30 years of dedicated service



Fire Chief Ronald Spears, 29 years of dedicated service



Engineer/Paramedic Jeff Jones, 29 years of dedicated service



Lt. Lee Warden, 27 years of Dedicated Service



Engineer Paramedic Thomas Cox, 27 years of dedicated service



Engineer Mark Schlegel, 26 years of dedicated service



Promotions

John Lyman – Fire Chief, 27 years of Service



Matthew Covey – Deputy Fire Chief, 21 years of service



Carl Wallace – Fire Marshal/Assistant Chief, 17 years



Jim Runyan – Battalion Chief, 29 years



Blake Nelson – Battalion Chief, 17 years



Dave Hensel – Captain/Paramedic, 26 years



Tobin Thorell – Captain/Paramedic, 16 years



Josh Dorman – Captain/Paramedic, 12 years



Jake Helgemo – Lieutenant/Paramedic, 8 years



Wayne Peruski – Lieutenant Inspector, 19 years



Operations – Deputy Chief Matt Covey

Part time mechanic

Lt. Lee Warden retired from his firefighting duties at WRFD and is now our Part-Time Lead Mechanic. He is doing a great job of coordinating repairs and maintenance on our entire fleet of trucks, from fire engines, rescues, staff cars, etc. He works alongside of 3 other firefighters that serve as mechanics on their off days.

Testing for Line Lieutenants

We saw 24 Driver Engineers test for the position of Line Lieutenant. 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. Promotions were made during January of 2016.

Blood Draws to assist Waterford Police

In 2015 we began to assist the Waterford Police with blood draws for alcohol involved driving incidents. Our paramedics will draw the blood from the person with their consent and in the presence of a police officer.

2015-2016 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 2015 the Waterford Regional Fire Department had 13 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 5 young men to the 2015 Fall Oakland Community Collage 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 5 individuals.



Manpower relocation- Opening of Station 9 787 West Huron, Pontiac

The Waterford Regional Fire Department used this fire station located at 787 West Huron as a central training facility, hazmat and technical rescue station. This station was not manned 24 hours a day. In October of 2015 this station was opened as a 24 hours a day staffed station. It now houses our Battalion Chief, Ladder 9 and Engine 9. The station had never been setup for a washer and dryer, so we had to have it plumbed and electric run for a new washer and dryer. Other general maintenance and cleaning were performed.



Capital Improvements:

The Waterford Regional Fire Department purchased and placed 3 Chevrolet Wheel Coach Paramedic Rescues into service near the end of 2015. These new units replaced our 2007 and 2008 rescues.



Fire Station 1- Headquarters, 2495 Crescent Lake Rd, Waterford

This roof has had multiples issues and leaks. During an inspection it was discovered multiple holes and punctures in the EDPM material that requires immediate repair. These holes and punctures caused multiple areas of roof material to lift caused by water swelling the insulation beneath, lifting the EDPM. One of the major contributors to our roof issue is the falling snow and ice from the large bay roof that punctures and damages the roofing material. The roof was repaired and the falling ice and snow issue was addressed by placing new material along the roof and adding 2ft. x 2ft. cement paver stones along the entire south bay wall.



Fire Station 4, 6615 Williams Lake Rd., Waterford

Fire station 4 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 \$25,000 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 entire project was \$500.00 less than reworking the flat roof. 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.

Furnace and 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.

Fire Station 4 was the last station to receive new insulated **garage doors**. The original doors were in need of repair had little to no insulation value. The newly installed doors will pay for themselves over the long run due to the increase insulation value.



Fire Station 5 25 North Hospital, Waterford

Both the Elizabeth Lake Road and the Hospital Road culverts had rusted and collapsed causing the driveway asphalt to sink in two areas. With assistance from the Waterford Township DPW and the Oakland County Road Commission both culverts were replaced and the asphalt was repaired. Station 5 fire crews updated the exterior lighting to better light the parking lot. Thank you Waterford DPW and the Oakland County Road Commission for your help.



Fire Station 7, 123 East Pike Street, Pontiac

Home Depot selected the Waterford Regional Fire Department as this year's recipient of a complete kitchen makeover. Home Depot employees remodeled the kitchen. This project included new flooring, paint, led lighting, dishwasher and refrigerators. They also painted and cleaned other areas in the department. This department would like to thank Home Depot and its employees.

Fire Station 8, 720 E Madison

Kurtis Kitchen and Bath selected the Waterford Regional Fire Department as this year's recipient of a complete kitchen make over. The entire kitchen area now has all new kitchen cabinets, granite counter tops, kitchen exhaust fan, sink, faucets, paint job and a new refrigerator. The station crews took it upon themselves to clean the existing commercial stove to almost new condition. They even helped mud and repair the walls. This department would like to thank Kurtis Kitchen and Bath and its employees.



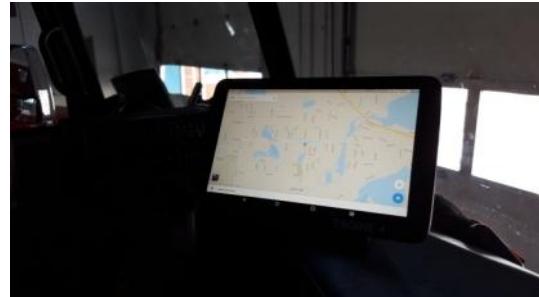
Fire crews assigned to station 8 took it upon themselves to demolish an existing outside porch area that had sank into the ground and completely remove it. Later, they poured a new concrete pad and surrounded it with a privacy fence. This project cost was materials only for the fire department.

Fire Station 2, 4596 Walton BLVD. Waterford

Station 2 did not require any major maintenance to the building for 2015, but we did have to replace some items housed in the building. The washer and dryer went out this year and were replaced with new units. The mattresses were also wore out and were replaced with 6 brand new ones, as well as 4 lazy boy chairs that were well used. Lastly we had to replace the garage door opener on the engine bay door.

Fire Station 6, 55 West Walton BLVD. Pontiac

Station 6 had to have part of the boiler repaired this year, due to the age of the boiler, the company had a hard time finding the parts to repair it, but in the end they made it happen and saved us thousands of dollars by not having to replace the whole unit. We also had to replace the dish washer at station 6. General maintenance and upkeep were also performed. Fire station crews took it upon themselves to upgrade the exterior lighting to increase the exterior lighting for the parking lots.



Newly added tablets

With the assistance of Driver/Engineer Don Claeys the Waterford Regional Fire Department has now purchased and installed new Verizon Tablets on all command vehicles and fire engines. These tablets assist our fire crews with emergency operations by accomplishing the following.

- Provide Google map directions to emergency scenes
- Access to building preplan information
- Provides immediate information for all hazmat information within Waterford and Pontiac.
- Provides preplans for our federal regulated hazmat SARA Title III and our Tier Two Sites.
- Allows access to various Hazmat books and information sites
- Allows responders to view where all units within Waterford and Pontiac area located

Future Projects 2016

Fire Station 5 at 25 North Hospital roof is in very poor condition. In late 2015 with assistance from Township Supervisor Gary Wall a plan is in place to replace the current flat roof with a trussed system, asphalt dimensional shingles and moving of the roof top AC unit.

Fire Station energy consumption improvements- the Waterford Regional Fire Department is working to convert its current lighting to LED with the intention of long-term electrical savings. This will also help eliminate waste added to the landfill.

We are looking to possibly replacing 3 fire engines from our aging fleet.

The Township began contract negotiations with our Local #1335 Firefighters.

Grant Writing

JAWS OF LIFE GRANT

Waterford Regional Fire Department was awarded a grant in 2015 from the Assistance to Firefighters Grant Program. The grant total was **\$220,000** where the Fire Department was responsible to pay 10% of the cost or \$20,000. This project purchased replaced our very aged and inadequate extrication equipment. Estimated value after purchase of the equipment is approximately \$300,000. Hurst the leading manufacturer of the Jaws of Life offered the Fire Department a large discount.



All front line fire apparatus in Waterford, Pontiac and Lake Angelus received and now carry new E-hydraulic Cutter and Spreader units. In addition 3 of our Fire Apparatus now considered heavy extrication trucks. They are out fitted with the heaviest most powerful units Hurst had to offer. Each has a Cutter, Spreader and 2 Hydraulic Ram Units including 110v Battery adaptors.

What makes this equipment standout from the past extrication equipment.

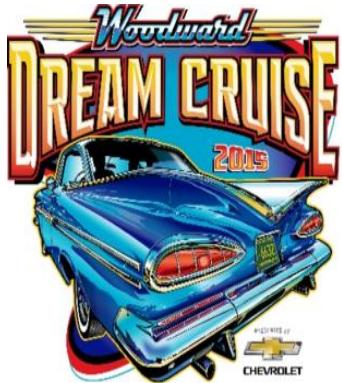
- The Fire Department is now capable of cutting new aged metals in today's vehicles.
- Each unit contains its own sealed hydraulic system that runs off of a 12V lithium ion battery pack approximate run time is 1 hour per battery. Each unit has 2 batteries.
- Elimination of hydraulic hoses and gasoline motors requiring two personnel to operate the tools.
- Elimination of excessive noise on a vehicle extrication scene, this helps keep our patients calm and allows better communication between the fire crews.
- Multiple tools can be operated at the same time, speeding up extrication times.

This purchase not only saved the Township thousands of dollars, we will now be able to better serve accident victims and other entrapped citizens in the three communities we serve.

Narcan Grant

Engineer Paramedic Erin Wilson wrote and was successful in writing a Narcan Grant. Narcan was placed on all front line fire apparatus in Waterford, Pontiac and Lake Angelus. What does this mean? With the chronic drug problem noted throughout all communities Narcan blocks the body's ability to use Opioids. Opioids causes slow breathing, loss of consciousness, extreme drowsiness and even **Death**. By having Narcan on our first responding emergency apparatus we can immediately administer this medication and reverse the effects of the Opioids. It is most commonly used to reverse the effects of heroin and other narcotics.

Public Events



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 **2015 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**.

OAKWAY Fire Chiefs served the homeless in April
at the **Hope Warming shelter** in the City of Pontiac.



Public Events continued...

Longest Breakfast Table Charity event, this annual event was started after 9/11. The proceeds supports the Waterford Police and the Waterford Fire Department Benevolent funds. Life Pointe Church proudly sponsors and partners with the Police and Fire Departments on this event.



M1 Concourse - Planning and ground breaking City of Pontiac.

Clinton River walk clean up in Waterford

Grace Center of Hope – Planning and ground breaking William Davis Women & Children's Center in Pontiac.



Fire Service Awards

Lieutenant Paramedic Dan Dumas received best Practical Instructor for the Oakland Community Collage Fire Academy class 52. This Fire Department is extremely proud of Lieutenant Dumas and this accomplishment.



Driver Engineer Paramedic Hector Martinez was award 2015 Valor Award from The Hundred Club of Detroit. This is quite a high honor. He was nominated by the Chief's Office for his heroic actions taken at a vehicle fire at the Sherwood Motel on Dixie Hwy. Hector sheltered the residents of the motel in place until the fire was extinguished and it was safe for them to evacuate. This department is extremely proud of Driver Engineer Paramedic Hector Martinez.



Driver Engineer Paramedic Thad Carroll and Driver Engineer Paramedic Terrance Lucy received letters of accommodation for their efforts in saving a live of a resident who was having a stroke.

Fire Prevention Division – Asst. Chief Carl Wallace

The Fire Prevention Division has undergone some changes in 2015 with Fire Marshal Covey being promoted to Deputy Fire Chief, Captain Inspector Wallace being promoted to Fire Marshal and Lieutenant Inspector Peruski being promoted to the Division April 30th of 2015.

Training has been a large part of this year with Inspector Peruski completing his training to become both a Certified Fire Investigator and a Certified Fire Inspector. All three inspectors' have also completed NFPA Plans Examiner training and Lt. Phebus has also completed NFPA Fire Inspector II training in 2015. Fire Marshal Wallace and Lt. Stevens (Public Education) attained Juvenile Fire Setters Training in 2015 and all division members have been attending hours of needed continuing education classes throughout the year to maintain certifications in both disciplines of Fire Inspection and Fire Investigation.

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.

The Fire Prevention Division currently consists of three Fire Inspector Lieutenants and the Fire Marshal leaving the Fire Inspector Captain position vacant as of April 30th 2015. All four employees are certified Fire Investigators and State of Michigan Certified Fire Inspectors. 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.



Inspections and Plan Review:

The Fire Prevention Division performed 857 fire safety inspections, processed and reviewed 176 plans in 2015. These plans include site plans, hood system plans, fire alarm plans, and fire suppression (sprinkler) plans. We reviewed and verified inspection reports on various fire safety systems throughout the Township of Waterford 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 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

Inspection software program progress “MOBILEeyes”:

In November of 2014 the Waterford Regional Fire Department started using new inspection software. After using this system for over a year now it has proven to have helped stream line the communication of safety concerns with both the business and with the building departments by emailing a copy of our fire inspection report to both as soon as it is completed by the inspector. The Waterford Building Department has also purchased this software and will be online in the near future. This will increase our departments sharing of information. The information being gathered by the Fire Prevention Division is being shared with fire crews via a smart phone app that can be accessed via tablets located on the fire apparatus.

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.

Addresses:

The Fire Prevention Division assigned 63 addresses in Waterford Township in 2015.

Freedom of Information Act: (FOIA)

The Fire Prevention Division processed 132 FOIA requests. Most of these were for information regarding underground storage tanks or hazardous materials at commercial businesses.

Fire Investigation:

The Fire Prevention Division was called upon for just over 100 Origin and Cause Investigations throughout Waterford and Pontiac. Each member is on call one week out of the month for “after hours 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.

Fireworks:

The Fire Prevention Division reviewed, inspected and supervised all fireworks displays conducted in Waterford Township in 2015. 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 one display that was ground fired at Waterford Kettering High School.

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 eight fire station carry smoke detectors on their front line fire engine. Many of the smoke detectors we install have been donated to our department by local businesses after hearing of our detector program.

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.

Public Education/ Fire Prevention:

The Annual Fire Prevention Open House was hosted this year at our Department Headquarter this October and was a great success and we had a good turnout (despite the weather). We received a lot of community/business support with the event which was almost sustained completely by donations.

The Fire Safety Trailer (smoke house) is our most visible tool for fire safety education. The trailer has been taken too many locations to educate and train the public in fire safety and other “be safe” educational topics. The main focus with the trailer continues to be the Waterford and Pontiac Schools. Lieutenant Ronald Stevens and Engineer Kurt Vine are in charge of the fire safety educational program. Please see Engineer Kurt Vine annual report for further Public Education information.

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.

The Training Officer and/or Chief are 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 2015 the Waterford Regional Fire Department began with keeping our goals from the 2014 annual training report in mind. We continued to work to identify training needs and goals for the future. A recap of the goals for 2015 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 2015 goals are as follows; we now have a 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, a Fire II instructor was brought in to train 6 of our personnel to become Fire I instructors; they are still in their probationary instructor period but, are taking strides to complete their training. Continuing education for our leadership was also of major importance for us. We were able to send five of our command staff to Fire Officer III classes where they learned strategies for fire company success, personal success, and supervisory success. 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 2015 were high rise firefighting, rapid intervention for fire fighter safety, joint response active shooter, hazardous materials response, and terrorist events. Our greatest success in these areas was in high rise firefighting, rapid intervention for firefighter safety, and hazardous materials response. We

will be continuing to work to provide such training with the help of other Oakland County fire departments as well as federal and local resources.

Several months in 2015 included high rise firefighting training some of which we did with other Oakland County fire departments. It is very important that we train with our neighbors due to our increased use of mutual aid and the necessity of providing highly capable personnel to the communities we serve in their most desperate hour. One example in which we would need to work with could be; when a high rise incident occurs it will overwhelm our resources and we will have to have the ability to work with other communities firefighters and know the strengths and weaknesses of that fire department.



We also did joint training with Oakland County fire departments when we trained for rapid intervention/fire fighter safety. When one of our firefighters is trapped or seriously injured in a dangerous environment it is imperative that we act quickly and organized. If and when something like that was to occur our resources would be overwhelmed; it takes roughly 12 firefighters to rescue one downed firefighter. We would be calling our neighbors to assist us in such a catastrophic event, which is why we will continue to train with other local departments in 2016 and the foreseeable future.

Hazardous material training was another area of success in 2015. We refreshed some of our personnel with training that we call Hazmat IQ and Above the Line Below the line. We also introduced a new Hazmat team leader that has assumed that role with the ability to lead men and taken charge of a team that needed one leader as opposed to a co-leader team concept idea.

That success we enjoyed in 2015 has come via highly dedicated personnel that have volunteered their time for love of 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.

The dynamics of a large department offer many challenges, 2015 was no exception. The challenges we faced include: providing initial drivers education for new employees, turn-over of employees, hiring and training new employees, Rapid Intervention Teams, high rise firefighting, revising our SOG for high energy, working to uncover strengths and weaknesses, training for and with reduced man power as a result of losing the safer grant, as well as identifying other department training needs. Training firefighters is ongoing and difficult to accomplish with the need for coverage of all corners of our service areas and with the volume of calls that respond to. Our firefighters will continue to do their best to meet training criteria and be in a high state of readiness to respond to all emergencies. We were not able to meet some of our 2015 goals; those we did not meet are joint response active shooter and terrorist events. These goals require some measure of cooperation from other local agencies and we were not able to affect training in these areas, however, they remain to be considered for training in 2016.



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 completed in 2015 are 5,332. This is an excellent effort by WRFD personnel. 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.

VOLUNTEER FIREFIGHTERS

Volunteer firefighters have traditionally been a part of Waterford Regional Fire Department. In 2015 we continued see their participation in training. The majority of our volunteer members are veteran personnel that have been part of the ranks for many years. These veteran personnel continue to prove their desire to be involved by participating in monthly training even as the Waterford Fire Department they knew continues to grow and change. We now have seven volunteers that were dedicated to total of 4-5 hours each of training in 2015. Support for volunteer training has been shared by duty personnel on each shift.

FIRE CADETS

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 2015 includes our high rise live fire training at OCC as well as our Oakway Rapid Intervention Crew training. We have been very impressed with those that have participated in the extra training. They have shown a higher level of dedication and desire to be in the program than is required.

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 2015/2016 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.



2015 TRAINING TOPICS

- Rapid Intervention Crews (classroom)
- Extended Lay for high rise and other firefighting needs
- Ladder truck tools and inventory
- Fire Behavior, reading smoke
- Hazardous Material 302 site awareness
- Ice rescue
- High voltage SOG
- Company fire ground operations
- Hazardous materials first in operations and personnel decontamination
- Building construction
- Risk Management and workers compensation
- Oakway high rise operations
- Drivers training
- Hose testing
- Brief initial reports/officer development
- Leadership I, II, III/ officer development
- Rapid intervention Crews (Oakway practical)



2016 PROJECTED TRAINING TOPICS

- Firefighter Right to know (state required)
- Apparatus check sheets and inventory (state required)
- Ice Rescue (special report with local news agencies)
- Emergency Response with Oakland County International Airport
- Armed Assailant Self Defense
- Water Supply in Lake Angelus and other challenging response areas
- Fire Officer education classes
- Extrication
- Driver Training Refresher
- Elevator Rescue
- Through the lock forcible entry
- Traditional forcible entry
- OFFTC S.M.O.K.E. system
- Develop an "In-House" training program/system
- Develop monthly special teams training (HAZMAT, TECHNICAL RESCUE)
- SARA TITLE III Occupancy walk-through
- High Voltage refresher
- Fire Fighter Survival
- Hose Testing
- Active Assailant Joint Response



Hazardous Materials Team Annual Report

The Waterford Regional Hazmat team is responsible for providing life safety and emergency mitigation of hazardous situations. The team is responsible for Waterford Township, City of Lake Angelus, and the City of Pontiac. The hazmat team is also part of the Oakland County Hazardous Materials Team South. The South team is comprised of Oakway departments and relies on mutual aid for large 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 2015, the Hazmat team has experienced more leadership changes. The team has experienced limited over time and comp time for attending Oakway training events which has resulted in a lack of participation from team members. 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 are continuing to evaluate the needs of the team and the levels of training that the personnel are involved.

In 2015 we attempted to use two personnel to co-lead the team. The results were not as successful as we had hoped as we tried to replace Curt Thompson after his retirement. In the fall we decided that it would be more beneficial to have one person in charge of the team. As we have continued to grow and change as a result of providing services to Pontiac we have found more members that want to be a part of the special teams units. We now have Firefighter/Paramedic Paul Dallas leading the hazmat team. He was heavily involved in the Pontiac team prior to their decline in services. As the team leader Paul will be 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 2016 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.

Annual Technical Rescue Report

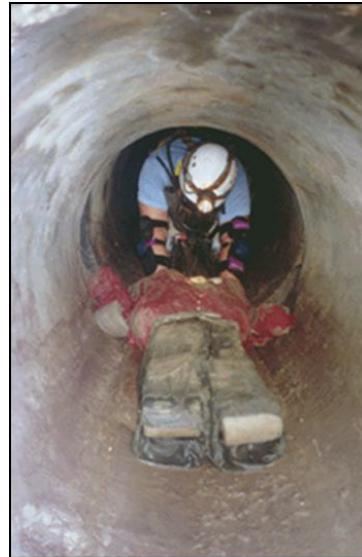
The Waterford Regional Fire Department's Technical Rescue Team, here after (TRT), is responsible for responding to and mitigating dangerous incidents of the following nature: confined space rescue, trench rescue, rope rescue, structural collapse, and machine rescue. These types of incidents are extremely 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 of 2015 were: increase the level of participation; it had fallen off beginning in 2012, find a new leader to help develop the team, and to plan the future training of the team. I am glad to say that all of these things are underway. Captain Matt Nye has stepped forth to coordinate the team and meet with local OAKWAY TRT leaders and plan our participation within Oakland County. Captain Nye is already making an impact through contacting other Tech Rescue experts that have many years of working within the state and provide training throughout the year.

The goals for 2016 will be to train a number of "new to tech rescue" personnel and help improve the qualifications and expertise of our team. We will also be attending monthly OAKWAY TRT meetings and going to quarterly training with OAKWAY TRT members. Further, we will be asking the WRFD TRT to assist with training and/or refreshing our non tech rescue personnel to assist in any TRT response; we hope to incorporate this training on a rotating basis with the Hazmat team.



Technical Rescue Training



Airport firefighting



EMS Coordinators Report – Lieutenant Jim Cooper

The Waterford Fire Department Emergency Medical Services continued in 2015 to provide skilled and professional pre-hospital care to the residents of Waterford. Further the Waterford EMS Academy continues to offer quality education to our fire department personnel and our community. There were a total of 8393 EMS related runs in 2014, 207 runs more than in 2014, a .98 percent increase.

The number of EMS runs for 2015 was:

1. EMS(excluding vehicle with injuries)	7004	83%
2. P.I. Accidents runs	565	6%
3. Pedestrian P.I. runs	44	1%
4. Public Assist – No injuries	405	3%
5. Unintentional EMS Auto Alarms	27	.5%
6. Misc EMS Related Calls	22	.5%
7. Medical Assist	290	2%
8. <u>Assist Police (Blood Draws = 8)</u>	36	4%
Total	8393	100%



Seventy (73.8%) percent of all runs for the Waterford Regional Fire Department in 2015 were EMS related; i.e. Medical Emergency, P.I. Accident, Pedestrian P.I. Accident, Public Assist (Assist Invalid), Good Intent call, Assist Police, or Unintentional EMS Auto Alarms.

The number of transports to each hospital for 2015 was:

Beaumont – Royal Oak	63	1%
Beaumont – Troy	8	0%
Cleveland Clinic	1	0%
Crittenton Hospital	24	1%
Genesys Regional Medical Center	1	0%
Henry Ford – West Bloomfield	64	1%
Huron Valley-Sinai Hospital	345	8%
McLaren Regional Medical Center	1267	29%
McLaren – Clarkston	19	1%
St. Joseph Mercy – Oakland	2801	59%
University of Michigan Hospital	1	0%
<u>Veterans of Detroit</u>	1	0%
Total	4595	100%



*Percentage of Medical Incidents transported- **54.7%**

Career and Volunteer Personnel are licensed with the Michigan Department of Community Health – Emergency Medical Services and Trauma System Section, as a Medical First Responder, Basic EMT or Paramedic.

Career Personnel			
1.	Medical First Responder	4 personnel	3%
2.	Basic EMT	18 personnel	13%
3.	Paramedic	122 personnel	84%
	Total	144 personnel	100%

***After the Grant there were only 83 paramedics.**

B. Volunteer Personnel			
1.	Medical First Responder	4 personnel	44 %
2.	Basic EMT	5 personnel	66 %
	Total	9 personnel	100 %

All Career and Volunteer Personnel are licensed with the American Heart Association in CPR as a Basic Life Support Healthcare Provider (BLS). All Paramedics are licensed with the American Heart Association in Advanced Cardiac Life Support (ACLS). All Career and Volunteer Personnel are licensed as Automated External Defibrillator (AED) operators through the American Heart Association.



The EMS Academy offered numerous classes during the year. A total of 8 Continuing Education (CE) classes were held for Career Personnel, with 14 CE credits offered. An additional 2 Continuing Education (CE) classes were held for Volunteer Personnel, with 4 CE credits offered. In accordance with the Waterford Fire Department Airborne Pathogens Guidelines, TB skin tests were administered to all Career and Volunteer Personnel. There were 38 CPR classes, 23 Basic First-aid classes and 12 Bloodborne Pathogens classes provided to the public, Waterford Township employees and Waterford School District teachers in 80. A total of 426 people attended the CPR classes, 237 people attended the Basic First-aid classes and 38 people attended the Bloodborne Pathogens classes, for a total of 701 people. The Waterford EMS Academy held One Paramedic class and Two (2) Basic EMT classes in 2015. The Basic EMT program had 29 students graduate.

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

Apparatus Division – Lee Warden

The Waterford Regional Fire Department, Apparatus Division, oversees the repair, maintenance, testing and record keeping of fifty (50) different vehicles and the equipment stored on those vehicles. The different types of vehicles include twelve (12) pumper, three (3) aerials, six (6) type III ambulances, three (3) special response vehicles, five (5) special use trailers, seventeen (17) various staff vehicles, two (2) boats and two (2) special purpose vehicles.

In addition to the vehicles themselves, the Apparatus Division is responsible for the maintenance, repair and testing of the equipment carried on all fire department vehicles. This equipment includes gas powered positive pressure ventilation fans, various types of gas powered saws, the new Hurst “Edraulic Jaws of Life” units and a portable pump. The Apparatus Division maintains a replacement stock of repair parts for items such as: nozzles, adapters, axes, tarps, hand lights, pump valves and pump repair components. We are also responsible for the coordination of the annual testing of the aerial apparatus, certifying and annual testing of ground ladders and annual fire pump tests.

The Apparatus Division maintains tools and equipment that aid in the diagnosis, repair and maintenance of the fire department vehicles and equipment. The equipment includes limited computer hardware and software to link with on-board computer systems on most of our apparatus, a coolant system recycling unit, multiple oil dispensing units, calibrated test gauges, equipment which assists in annual pump tests, as well as a variety of miscellaneous hand tools and fabricating equipment.

The Apparatus Division purchases and maintains an inventory of filters and fluids along with a variety of commonly used miscellaneous replacement parts for the fleet. The Apparatus Division, on a regular basis, quotes the commonly used filters and parts to ensure that we are getting the best quality product for the lowest price.

The Apparatus Division is responsible for the installation of all equipment mounting hardware, emergency lighting, any electrical connections such as handlight chargers, exhaust transmitters, radio installations and any other add on or specialty equipment not available from the manufacturer.

Each new or acquired piece of equipment or apparatus is processed into the department through the Apparatus Division where a database is created for the life of the equipment. Identification numbers are issued for the equipment, maintenance files are created, license plates and insurance cards are issued and the unit is added to the Township fuel system. All apparatus and/or equipment is inspected, serviced and tested prior to being placed in the fleet.

Detailed records are kept on all of the maintenance, repairs, inspections and testing for each vehicle and equipment on that vehicle. These records are an important tool in fleet management. With this information we are able to provide a detailed repair history on any vehicle the department owns, as well as track potential problems that may arise during the life of the vehicle. A used vehicle with a detailed service history is always a more marketable and valuable vehicle.

The Waterford Regional Fire Department, Apparatus Division consists of three (3) highly dedicated and motivated individuals. With over thirty (30) years of combined experience, the Apparatus Division personnel have training and experience in braking systems, electrical systems, fire pump repairs, general repairs, inspections, record keeping and fleet management. A department mechanic is available 24/7 to meet the departments' needs. In addition, the department mechanics are available and have been used to staff additional apparatus when the need arises. This has been a benefit for the department during large or multiple incidents that required additional units and personnel.

Capt. Mike Mathews stepped down from his position as a long time and valued member of the mechanics division. He was replaced with part time mechanic Lee Warden. Lee recently retired from the department after 27 yrs of service and became the department's first Emergency Vehicle Technician (EVT) certified mechanic.



RON



LEE



JARED

Service Bay at Station 8 on Madison in Pontiac.



In 2015 the department purchased and equipped all front line engines and Ladder 9 with the new Hurst EDRAULIC (Jaws Of life) spreader, along with the cutter and rams.

In 2015, we have continued to do brake inspections and repairs on the fire engines in-house rather than contracting them out. These repairs have considerably saved township tax dollars and reduce fire engine down time.

Our pumbers (twelve in total) have an average age of 16 years and an average mileage of 80,469 miles. These units are the department's second most expensive single purchase items. The pumbers represent the highest cost of repairs and preventative maintenance for the department. This past year, we have spent a great deal of time and money on the pumbers. This has been primarily due to the age of the fleet and rising cost of repairs. Each one of our pumbers requires up to eight (8) filters and twenty-nine (29) gallons of fluid (oil, ATF and gear oil). Each pumber undergoes an extensive preventative maintenance program based on the manufacturer's recommended intervals. The program includes a complete fluid and filter change, chassis lubrication, pump inspection and adjustment and a safety (DOT) inspection. The pumbers remain in service except for preventative maintenance and major repairs. All minor repairs are done while the unit remains in service at their station.

The aerial apparatus (three in total) represent the departments most expensive single purchase items. These units average 1,692 miles each year in service. The average age of our aerial trucks is 20 years old. These units have a maintenance program similar to the pumbers (chassis). In addition, the aerial device is tested and inspected annually by a non destructive testing company and is certified each year. All three units were tested and recertified in 2015.

The special response vehicles include Ladder 9, Hazmat 1 and M.U.S.A.R. 1. In addition, the "special use" vehicles such as the 6x6 vehicle, the special event cart, the boats and all the trailers fall under this heading. These vehicles represent the least amount in terms of cost and maintenance for the department. They are maintained and inspected on a regular basis per the manufacturer's guidelines. With the exception of Ladder 9, these units have limited response criteria. The units are outfitted for the special and specific responses indicated by their function. Ladder 9 is maintained similar to the pumbers (chassis) and has been outfitted as a "heavy rescue" with numerous extrication equipment and specialized tools. In addition, Ladder 9 is still being maintained as a ladder carrying unit that responds to most incidents within the department's response area when needed.

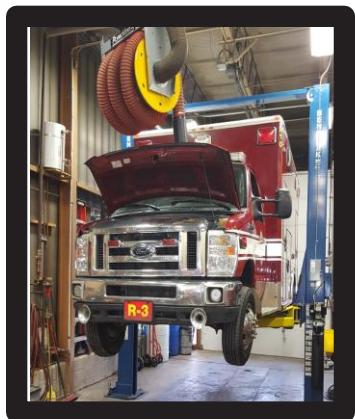


In 2015, the amount of staff vehicles remained the same. Each vehicle is maintained per the manufacturer's recommended intervals. As with any vehicle, the age and mileage play a significant role in the cost of maintaining and repairing the vehicle. This past year indicated an above average amount of repairs in terms of cost and time for the size and age of our staff vehicles.

NFPA requires annual testing and certification of a variety of equipment within our department. The following summarizes the different areas:

All ground ladders were inspected and tested by a third party non destructive testing company. Many repairs were completed and all ladders passed inspection and testing. Several ladders, over the course of the year, had to be replaced due to extensive damage on emergency scenes.

Pump tests were conducted through an outside vendor this year. With the exception of a few minor repairs, all pumps tested were able to be recertified at their rated capacity.



The stretchers in the rescues were inspected, tested, repaired as needed and recertified by a Stryker representative at our facility. These units have been in service for the past five years with little problems up until this year. One stretcher was removed from service due to the cost of repairs and placed as a "parts only" use.

The Waterford Regional Fire Department, Apparatus Division, strives to be as cost effective and efficient as possible. On a regular basis, cost comparisons are made between vendors to assure that we are getting the best product at the best possible price. The Apparatus Division actively maintains an open dialog with our contractors when our vehicles are in their care. This relationship with our contractors has been developed over many years and ensures that our vehicles are getting the highest quality of repairs at the best price possible.

Our focus for 2016 is to continue to maintain our fleet to the highest level and be as cost efficient as possible. Our goals for the upcoming year are to seek additional training, certifications and to expand our base of resource information. We also intend to seek additional equipment to help further our diagnostic and repair capabilities.

It is our responsibility to ensure that the vehicles and equipment are safe and in a constant state of readiness. We have shown that we provide a level of service that is unmatched in any other department or company and a service that our citizens can be proud of.

SCBA Division/Breathing Air Systems - Eng. Kevin Fletcher, Eng. Ronald Fritz

The SCBA Division is responsible for the maintenance of our Breathing Air Equipment, Oxygen systems and Fit testing our FD personnel, Police Department personnel and DPW personnel. They are responsible to keep us MIOSHA, NFPA and NIOSH Compliant.



Maintenance completed in 2015:

- 40 MSA Firehawk M-7 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.
- Eng. Fritz and Eng. Fletcher attended a Scott Safety Air Compressor training course. This was required in order to legally perform maintenance on our compressor at Station 1.
- 38 Firehawk M-7XT SCBA's and 5 RIT kits were purchased for use in the Waterford district. This now provides one model of SCBA for both the Waterford and Pontiac District.
- 80, 45 minute SCBA cylinders were purchased for the Pontiac district. This allows both districts to have complete interchangeability of SCBA cylinders.
- Tower 1 and Tower 8 were equipped with spare cylinders.
- A PortaCount FIT Testing machine was purchased from the West Bloomfield Fire Dept., 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.

Future Capital improvements 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
- Replace PortaCount FIT test machine. Due to its age, we are unable to obtain service should repairs be required.



Waterford Regional Firefighters in Action



Elevator Rescue at St. Joseph Oakland
in Pontiac.



Fire Fighting Gear & Equipment - Eng. Dennis Rederstorf

The WRFD has a total of 232 sets of turnout fire fighting coats and pants in service. Eng. Rederstorf is responsible for maintenance, inventory, and professional cleaning of the Turnout Gear.

At the start of 2015 there was a total of \$16,000 in the two Repair and Maintenance Budgets. An additional \$2000.00 was request and added to the R&M budget in August.

In 2015 118 of our 219 sets of turnout gear were NFPA inspected, repaired and approved for use. We still didn't get everything done that needed to be but this was a much needed increase from 2014 which put us behind due to insufficient funds.

There was a total of \$20,000 the New Fire Gear and Equipment accounts. A total of \$19,901 was spent on new replacement Coats, Pants, Helmets, Boots, Gloves, Suspenders, Carbon X Hoods and Misc helmet parts that were needed throughout the year.

Because of the short fall in my R&M account in 2014 and playing catch up in 2015. We still did not have enough money left to continue the NFPA inspection and cleaning service needed for 2015. We will be starting out 2016 playing catch up once again.

Future Requirements:

- Additional funds were added in both R&M accounts for 2016. This will help us continue on our NFPA approved safety inspection catch up, cleaning and repair services needed.

These are pictures of Fire Service Management in Livonia. This is who does our repairs and certifications of our fire gear.



Radio Equipment - Eng. Dennis Rederstorf

The Waterford Regional Fire Department has 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, 1 back up dispatch radio tone out system at sta.1 and 20 volunteer pagers that we are responsible for maintaining, training personnel and updating.

At the start of 2015 there was a total of \$4500 in the Repair and Maintenance Radio Budget. The Fire Department spent a total of \$3469 for repairs and updates to our radios and station equipment in 2015.

At the start of 2015 there was a total of \$5000 in the fire department New Radios and Equipment Budget. The Fire Department spent a total of \$1132.00 replacing Lapel Mics, Radio Antennas and Station Amplifiers in 2015.

Items addressed in 2015:

Multiple radios repaired, continuing Fire Department training on this complex system, updating all fire department radios with the Oakland County Radio repair personnel, Station plectron system repairs and the building and installation of a new radio system at Sta. 9 in the City of Pontiac.

2016 Future needs:

- More funds are needed in the fire department New Radio and Equipment budget.
- The fire department need to purchase a new FCC approved back up dispatch radio and station paging system. Total cost for this new system including install is around \$1000. The current unit is not FCC approved.
- The fire department will need to replace our main back up dispatch radio. It is currently operational but parts are no longer available. In addition there we cannot find a service company that will repair this unit. The Fire Department will explore all options to do this in the most cost effective way.

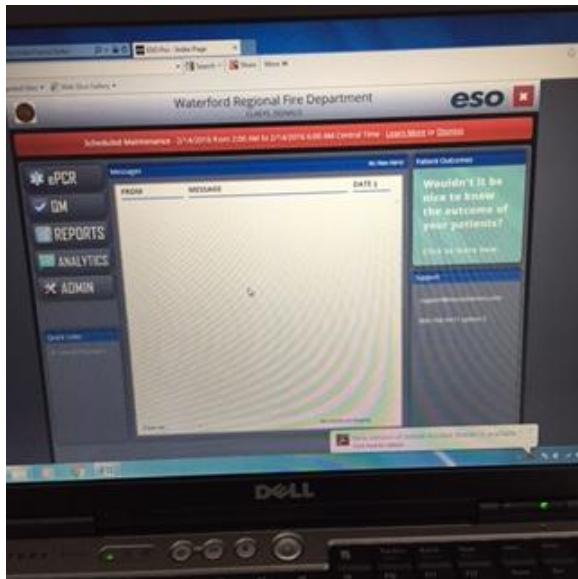
Here are a few radio pictures. The left picture is a portable radio and microphones we use. The right picture is one of our stations tone-out systems. It consists of a Truck Radio, Plectron, Amplifier and 120v to 12v converter for the radio.



Information & Technology – Eng. Don Claeys

The Fire Department's Computer & Technology Team works closely with the Waterford Township IS Department, to keep the department's complex network of desktops, laptops, tablets, printers, projectors, video conference equipment and CLEMIS systems all operational.

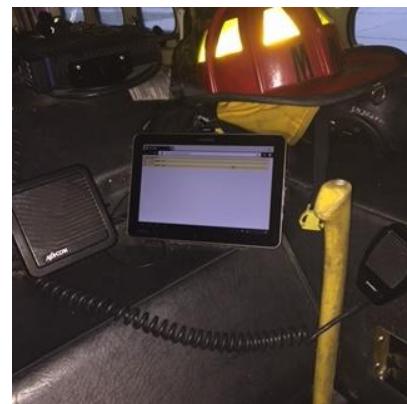
Having a stable functioning network environment allows the employees to be more efficient, effective and productive in providing the services to our residents that they have come to expect.



While 2015 did not bring many wholesale changes to our department, many of our programs received enhancements or upgrades. ESO Solutions, our EMS software, has been in the field for nearly 18 months providing improved patient care and cost recovery. As a result of the data collected in our database we are able to place our apparatus more effectively and document our resources used for cost recovery. While our equipment will begin to be replaced this year, ESO Solutions has been investing in software (Beta version) that is being tested nationwide and will function in multiple operating systems making the use of other, less expensive devices an option in the future.

Mobile Eyes (investigative software) has now been in the field for 14 months and brings the ability to uniformly gather information from businesses and residential properties in both Waterford and Pontiac Districts, pertinent to life safety and property conservation. While only in its toddler stages, it provides building and occupancy information to our first responders creating safer work environments for the people that work and live in our community.

The tool with the most upside potential has to be the Android tablets that have been placed on all command vehicles, engines and the ladder truck. In addition to providing mapping, weather conditions, and CAD status boards, it has the ability to extract information from Mobile Eyes and place it at our officers' fingertips. This year we will incorporate our incident reporting software. EHR is the 2nd generation ESO- EMS Software. It is web based software which will allow better integration and functionality for our staff in the field.

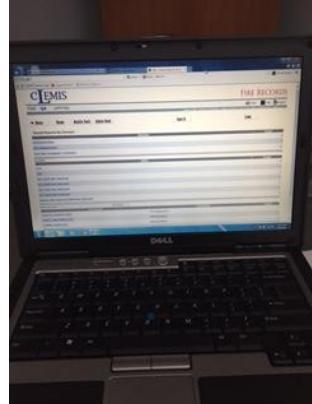


Over the last two years we have made major improvements to our servers and our network with the help of our IT professionals at Town Hall. As a result of these changes our PC's and printers have been running better than ever, but as time dictates in the electronic world, some of these PC's should have been replaced (20%). Our Video Conferencing equipment is another area that is being evaluated for improved use and function. As with all aging electronic equipment, it has become outdated and does not integrate very well with our computers. We hope to make upgrades to this system to optimize the use of this equipment in the future.

This past year station 9 was opened in the Pontiac District and needed a complete technology set up. With 4 personnel being placed here we needed both computers and printers for the Battalion Chief as well as a Lieutenant, CAD monitors throughout, televisions, phones, and tablets for the apparatus. In addition, we updated our EMS Academy computers which were no longer able to support the software improvements of recent years. We replaced 15 of the 22 Neo-ware units with pc's with the remaining 7 to be replaced this year. The PC's that were installed were obtained with the help of Mike Sieja from the Township IT Department, as other departments updated their systems.

CLEMIS, our Fire Records Management System that is managed by Oakland County has continued its upgrades. This program is responsible for our bulk exports of our incidents to the State of Michigan and the federal government and at times plays a role in our grant approval or denial. Our involvement in this project has been that of a tester of the program, which has been developed as a web based system. As each module is completed we enter actual information to ensure accuracy in records as well as improvements to the drop down menus and ideas that we weren't allowed involvement in at its inception. Originally the program was written by a third party for all of Oakland County. As the program was used and became understood it was found to be written more generically and is now being retooled by a committee of county representatives, resulting in a more user friendly software.

With over 125 pieces of equipment to maintain and over 100 employees to support, there is always going to be something to fix, repair or replace. I can only hope to have the continued support of the Chief and Deputy Chief to provide the resources needed to be successful. I look forward this year to the completion of the upgrades to our training academy, continued improvements to both ESO Solutions and CLEMIS, a greater use of our video conferencing equipment and overall improvements to the department and township employee's productivity.



2015 BY THE NUMBERS

Fire, other	17
Building fire	127
Fires in structures other than in a building	3
Cooking fire, confined to container	87
Chimney or flue fire, confined to chimney or flue	7
Fuel burner/boiler malfunction, fire confined	1
Trash or rubbish fire, contained	23
Mobile property (vehicle) fire, other	5
Passenger vehicle fire	67
Road freight or transport vehicle fire	2
Self-propelled motor home or recreational vehicle	1
Off-road vehicle or heavy equipment fire	1
Natural vegetation fire, other	10
Forest, woods or wildland fire	2
Brush, or brush and grass mixture fire	23
Grass fire	5
Outside rubbish fire, other	29
Outside rubbish, trash or waste fire	29
Construction or demolition landfill fire	1
Dumpster or other outside trash receptacle fire	25
Special outside fire, other	1
Outside storage fire	1
Total Fires	467

Overpressure rupture, explosion, overheat other	1
Dust Explosion (No Fire)	1
Excessive heat, scorch burns with no ignition	2
Total Overpressure Rupture, Explosion, Overheat	4

Rescue & Emergency Medical Service Incidents	6
Rescue, emergency medical call (EMS) call, other	2
Medical assist, assist EMS crew	290
Emergency medical service, other	9
EMS call, excluding vehicle accident with injury	7,004
Vehicle accident with injuries	373
Vehicle accident with injuries and extrication	33
Motor vehicle/pedestrian accident (MV Ped)	44
Motor vehicle accident with no injuries	158
Search for person in water	1
Extrication, rescue, other	1
Extrication of victim(s) from vehicle	1
Removal of victim(s) from stalled elevator	12
Swimming/recreational water areas rescue	1



Rescue or EMS standby	2
Total Rescue & EMS Incidents	7,937
Hazardous condition, other	8
Flammable gas or liquid condition, other	5
Gasoline or other flammable liquid spill	9
Gas leak (natural gas or LPG)	59
Oil or other combustible liquid spill	3
Chemical spill or leak	3
Carbon monoxide incident	18
Electrical wiring/equipment problem, other	34
Heat from short circuit (wiring), defective/worn	6
Overheated motor	3
Power line down	186
Arcing, shorted electrical equipment	42
Accident, potential accident, other	1
Vehicle accident, general cleanup	1
Attempted burning, illegal action, other	3
Attempt to burn	1
Total Hazardous Conditions	382
Service Call, other	10
Person in distress, other	5
Water problem, other	4
Water or steam leak	5
Smoke or odor removal	16
Animal rescue	1
Public service assistance, other	27
Assist police or other governmental agency	36
Police matter	4
Public service	11
Assist invalid	405
Defective elevator, no occupants	1
Unauthorized burning	236
Cover assignment, standby, moveup	4
Total Service Calls	765
Good intent call, other	238
Dispatched & cancelled en route	486
Cancelled Prior to Dispatch	178
EMS: Dispatched & cancelled en route	44
Wrong location	5
No incident found on arrival at dispatch address	89
Authorized controlled burning	13
Prescribed fire	2
Steam, other gas mistaken for smoke, other	8
Smoke scare, odor of smoke	109

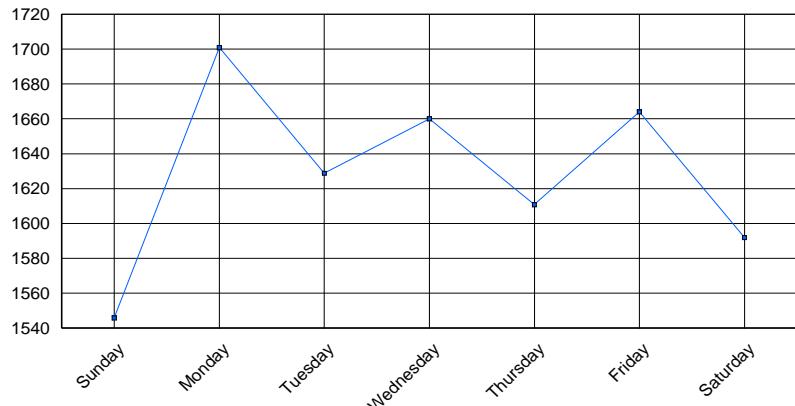


Steam, vapor, fog or dust thought to be smoke	9
Barbecue, tar kettle	4
EMS call, party transported by non-fire agency	14
Hazmat release investigation w/ no hazmat	3
Total Good Intent Calls	1,202
False alarm or false call, other	173
Malicious, mischievous false call, other	4
Municipal alarm system, malicious false alarm	2
Telephone, malicious false alarm	1
Local alarm system, malicious false alarm	2
System malfunction, other	11
Sprinkler activation due to malfunction	5
Smoke detector activation due to malfunction	53
Alarm system sounded due to malfunction	78
CO detector activation due to malfunction	57
Unintentional transmission of alarm, other	29
Sprinkler activation, no fire - unintentional	8
Smoke detector activation, no fire - unintentional	77
Detector activation, no fire - unintentional	9
Alarm system sounded, no fire - unintentional	76
EMS Alarm system sounded, unintentional	27
Carbon monoxide detector activation, no CO	17
Total False Alarms and False Calls	629
Lightning strike (no fire)	1
Total Weather Related Calls	1
Special type of incident, other	2
Citizen complaint	7
Total Special Incidents	9



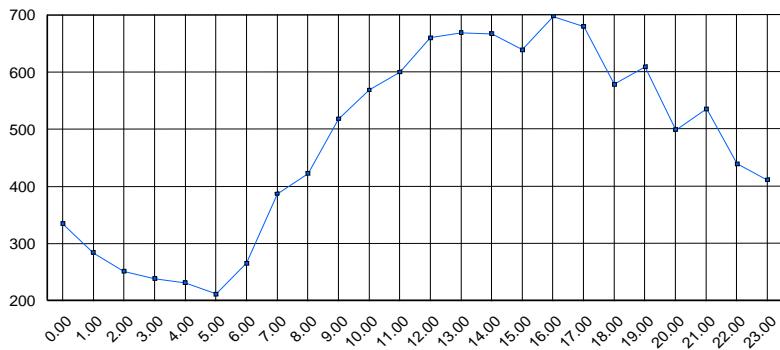
Call Volume by Day of week

Monday is the busiest day of the week



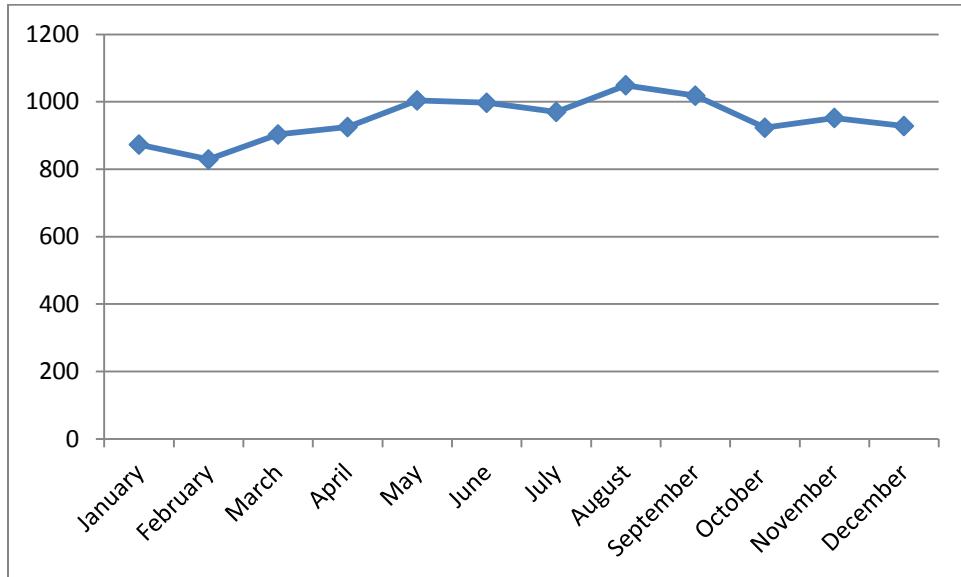
Calls by Time of day

4pm is the busiest time for calls, while 5am is the slowest time.



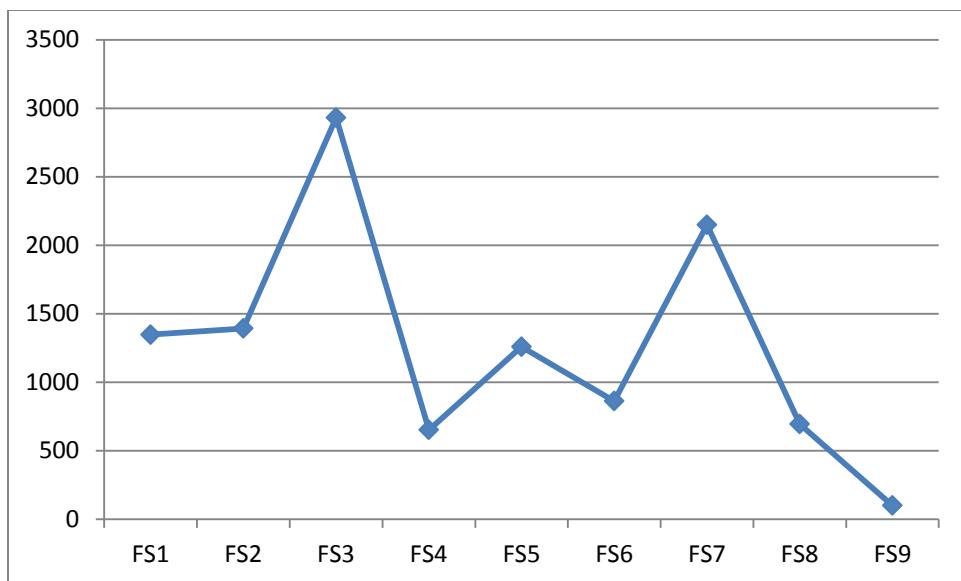
Calls by Month

January is the slowest month, while August is the busiest.



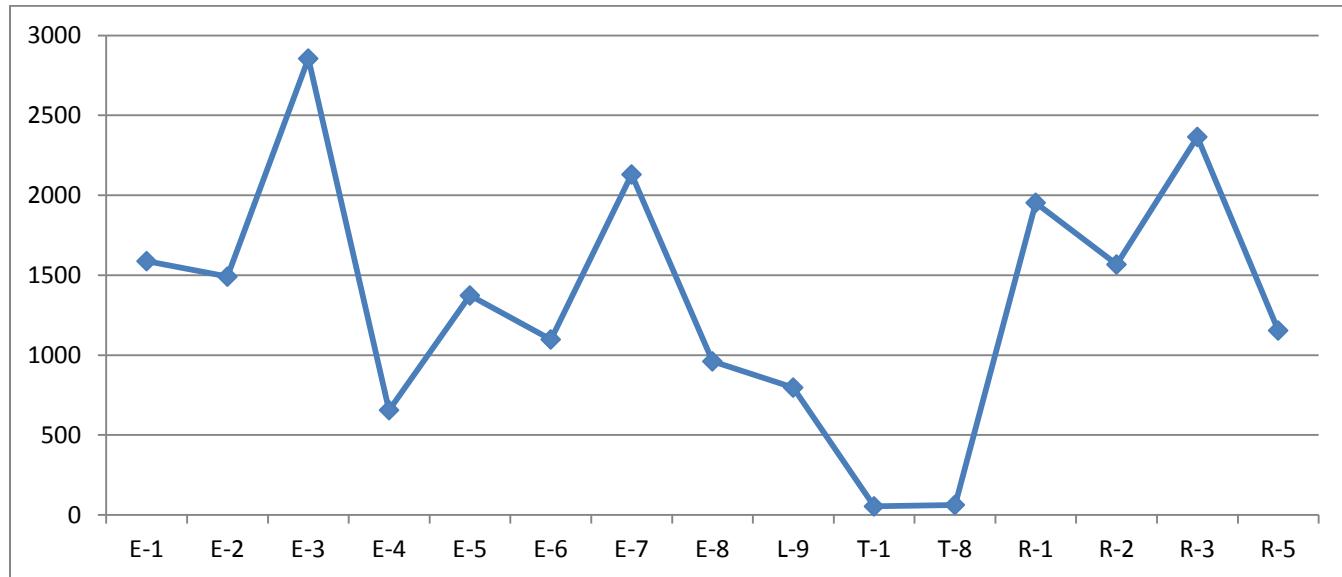
Calls by Station

Station 3 followed by Station 7 are the busiest stations in the Fire Department.



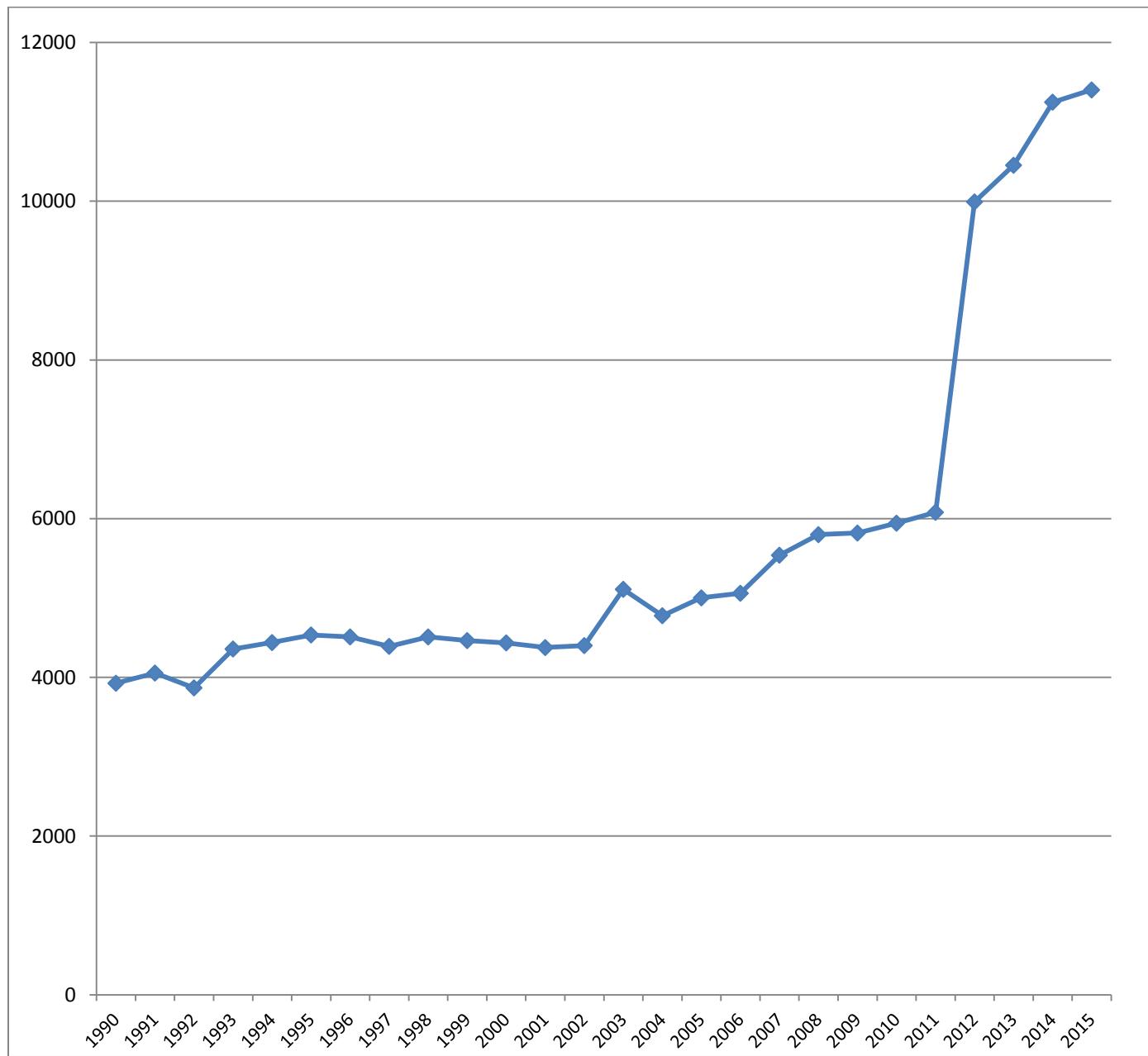
Calls by Unit

Engine 3 and Rescue 3 are the busiest units in the Fire Department.



Run Volume by Year 1990 – 2015

Spike in 2012 caused by Consolidation of the Pontiac Fire Department with Waterford Fire Department.



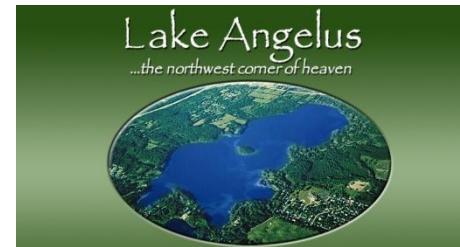
City of Lake Angelus

The Waterford Regional Fire Department has provided emergency services to the entire City of Lake Angelus since 2002. This city is serviced by 2 fire stations in our system. 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 especially for fire calls, as we dispatch 3 fire stations to any and all house fires in our response jurisdiction.

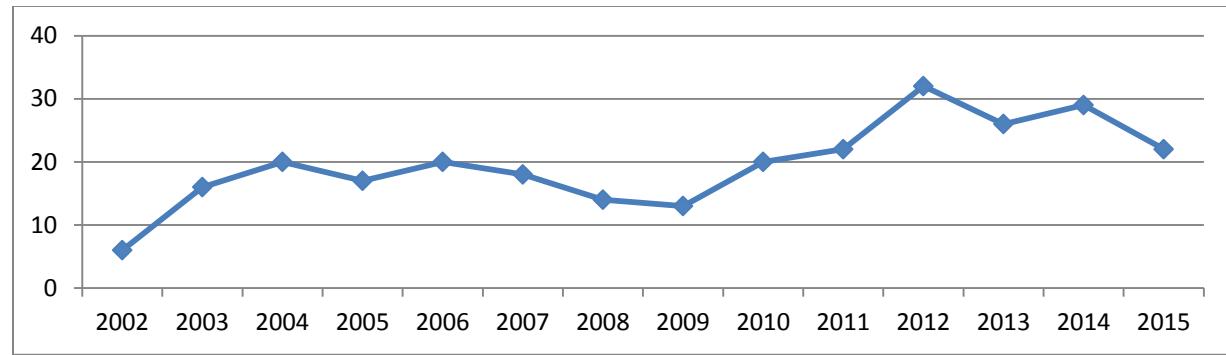
Chief Lyman and Chief Covey met with the Mayor and a council member this year, to introduce ourselves as the new administration of the fire department and to review the services that we provide to their city. It was followed up by a visit to a City Council meeting by Chief Lyman to outline our commitment to the City of Lake Angelus and its residents.

2015 Calls by Incident Type

House Fire	1
Medicals	11
Traffic Accident	1
Power Line Down	5
False Alarm	4
	<hr/>
	22



Call Volume by Year 2002-2015





City of Pontiac

Waterford Fire Department began providing emergency services to the City of Pontiac on February 1, 2012. In 2015, we re-opened Fire Station #9 (former Pontiac Station #5) on W. Huron St. as a full time station, staffed with 3 firefighters and the Battalion Chief. We can now respond to emergency calls from 4 stations in Pontiac. We continue to provide basic life support to the Pontiac residents for EMS calls, working alongside Star EMS.

Total alarms for 2015 were up by 1.5% in Pontiac; however fire calls fell by over 13%. 97 fires were single family homes, and 54 were apartment fires. We had 2 fire deaths in Pontiac for 2015. Engine 7 was the busiest unit in the City with 2,130 responses.

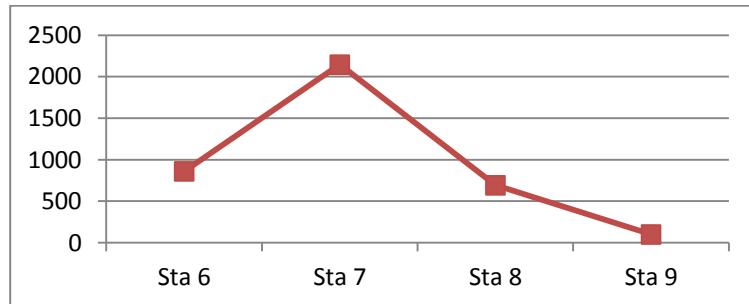
Chief Lyman and Deputy Chief Covey meet with the City Administrator and the Mayor on a quarterly basis and the Public Safety Sub-committee for City council on a monthly basis. We also made a presentation to the Mayor and the City Council regarding the status of fire protection in the City.

Please note that the charts below for Station 9, and Ladder 9 are partial counts.

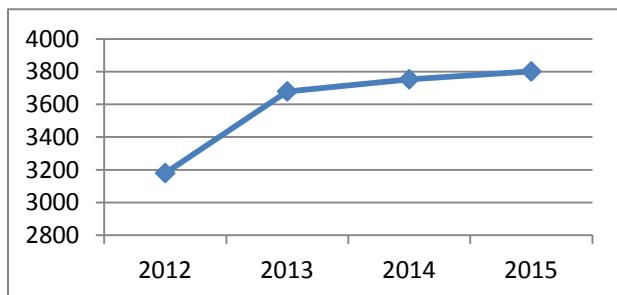
Incident Types in Pontiac for 2015

Fires	325
Overpressure/Explosion	1
EMS calls	2083
Hazardous Conditions	193
Public Service	162
Good Intent	682
False Alarms	246
System Malfunctions	106
Other - Non Fires	3
Total	3801

2015 Calls by Station



Call Volume in Pontiac



Fire Apparatus Response Chart

