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Troy Fire Department

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April 3, 2019

TO: Mark F. Miller, City Manager

FROM: David Roberts, Fire Chief

RE: Fire Department Annual Report for 2018

The following information is submitted as the annual report for the Troy Fire Department for calendar year 2018. Supporting information contained herein summarizes noteworthy and first-ever achievements for the Fire Department and EMS, as well as various statistics and performance indicators for both agencies for convenient reference. More detailed analysis will be posted on the department's web page on the City of Troy web site.

In addition to responding to emergencies, the TFD continues to partner with the community and various organizations by co-hosting the annual Citizens Police Academy; participating in one or more charitable silent auctions for dinner at a fire station; hosting summer campers from Leader Dogs For The Blind; participating in the annual fundraising charity softball game with On My Own of Michigan; participating in the annual Lucky Fin Project Weekend; and hosting the annual children's Shop With A Firefighter Christmas event that supports local families in need.

Noteworthy

Operating Efficiency. As detailed in this report, 94.62% of property value threatened by fire was saved by firefighting efforts in 2018. It continues to be reasoned, therefore, that this equates to a near **95% operating efficiency** by the TFD at fires. This can be attributed to the dedication and training of our members, and the research and acquisition of equipment and apparatus needed to operate effectively, efficiently, and safely.

Insurance Services Office Evaluation. Efforts continued in 2018 toward improving as many deficiencies as possible in order to attain the needed 3 points necessary to achieve the desired Class 2 ISO evaluation grade. Some of these efforts included certification of station officers and implementing software applications to capture and manage more data related to training.

I-75 Emergency Water Supply. As the 2nd phase of the I-75 reconstruction project was planned, and based on past years of experience with fires and the difficulty of establishing a reliable water supply, the Fire Department took this opportunity to meet with City of Troy Water and Engineering departments as well as MDOT officials to present the idea of establishing access and connections to nearby hydrants from the freeway. The idea was accepted. As the project commences and upon completion, the Fire Department will have better access and ability to establish a reliable water supply to fight fires involving large trucks and trailers, fuel tankers, etc.

Firefighters Memorial. The Firefighters Memorial Project was launched to construct a permanent memorial to pay tribute to our prior deceased members. With a partial capital funding allocation, and through donations from various organizations and individuals from both inside and outside of the community, efforts continue to design and fund the construction of a suitable memorial in Firefighters Park.

Mass Casualty Incident Preparedness. Training continued to be provided in order to teach firefighters basic mass casualty incident (MCI) response skills. Members once again reviewed and practiced basic triage, patient handling, wound packing, and tourniquet application methods so as to assist EMS providers in the event of a MCI in the City of Troy. The mutual aid response plan was reviewed and updated with both municipal and private partner agency EMS providers to help ensure the City's readiness.

Troy Firefighters Women's Auxiliary. After nearly 50 years of service to the department and the community, the TFWA disbanded at the end of 2018. For decades the TFWA, comprised of firefighters' mothers, wives, and significant others, provided hot coffee to firefighters on cold winter nights and cold drinks on hot summer days. The TFWA expanded their role to provide care packages and hotel accommodations for residents who suffered loss from fire. On behalf of the Fire Department and the City of Troy, I would like to thank the TFWA for the many years of service they provided.

First-Ever Achievements

Health and Wellness. Firefighting is a physically demanding job. The first-ever health and wellness initiative, therefore, was launched department-wide in order to bring awareness to our members about their individual health. Participation was voluntary. Health assessment surveys were distributed to 65 members, 40 of whom were eligible to participate in a follow-up physical exam. The surveys and physical exam results were kept confidential with each participating member. The Fire Department was only provided with an executive summary report for evaluation and benchmarking purposes. The benefits of the health and wellness initiative were three-fold: 1) For the members; 2) For the members' family; and 3) For the Fire Department. We look to continue this effort in the future until all members are afforded the opportunity to participate.

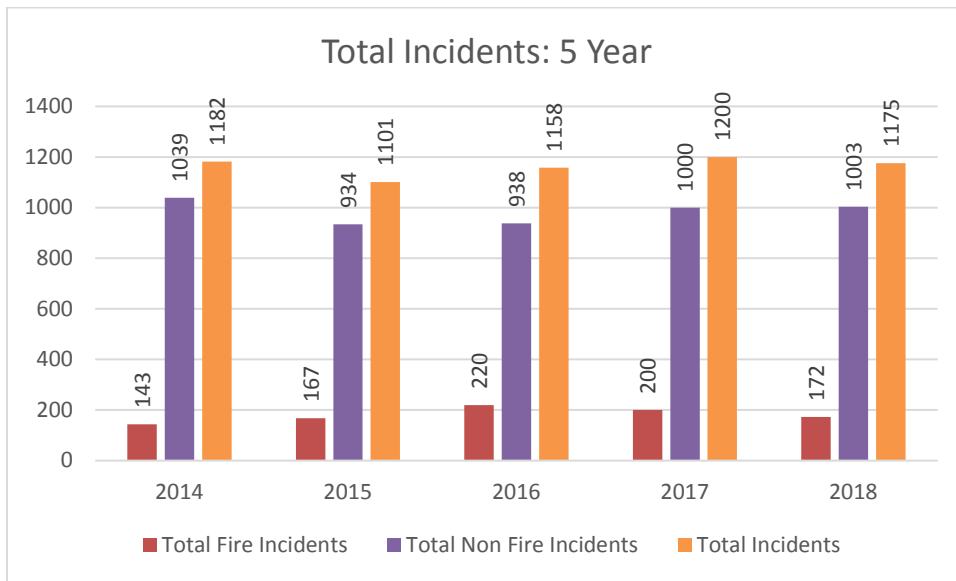
Fire Officer Training and Certification. As the Michigan Firefighters Training Council announced continuing education and credentialing requirements for the fire service throughout Michigan beginning October 1, 2019, the Fire Department proactively enrolled 31 members to participate in a 40 hour Fire Officer 1 certification program in anticipation of the impending requirements. This participation now offers the following advantages: 1) Our department is in a better position to meet the MFFTC mandates; 2) Our department is poised to receive additional credit from the ISO toward our Property Protection Classification; and 3) Our department now has better trained officers and future officer candidates. Of the 36 volunteer station officers, 28 individuals are now certified at the Fire Officer 1 level. In addition, the fire department also has 14 firefighters certified as officers. This increases the number of available officer candidates for future promotion, for both volunteer and career positions, and helps to strengthen the promotional process.

Emergency Medical Service & Paramedic First Responder (PFR). In 2018, the City of Troy implemented the use of existing licensed PFRs as "Echo" units. These units are licensed under the approval of the Oakland County Medical Control Authority, thereby allowing a single paramedic to perform advanced life support measures without having to wait for another medic to arrive on scene. While this practice is common throughout Michigan and the nation, it is a first-ever in Troy and in Oakland County. This achievement would not have been possible without the perseverance of Mr. Vince Waryas, Executive Director of Alliance Mobile Health. Plans had to be developed, presented and explained, and questions methodically answered for the Oakland County Medical Control Authority's Protocols, Operations, and PSRO committees to assure that all necessary steps would be taken for licensing, equipment procurement, and unit operations in order to operate correctly. Since this

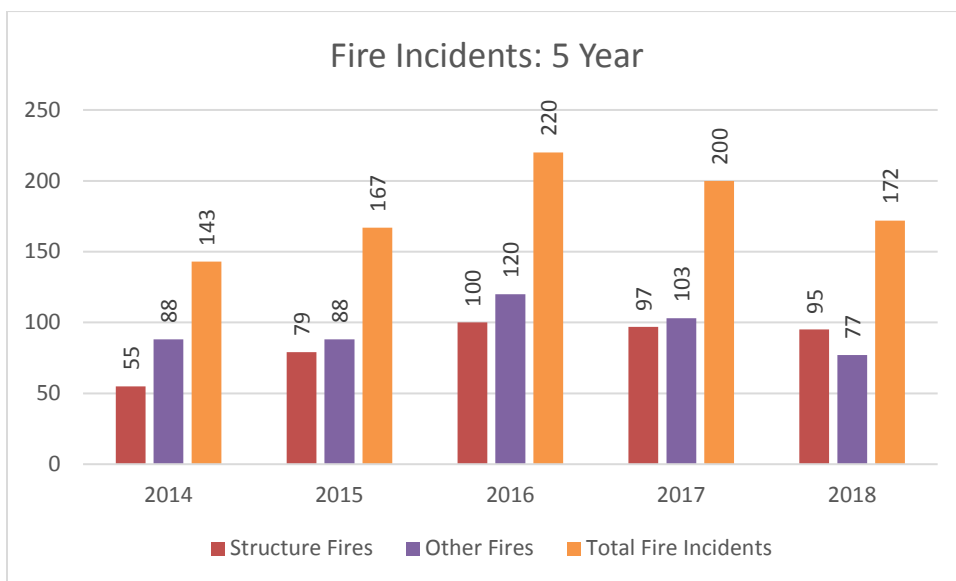
implementation, advanced life support measures have been initiated on a number of occasions that ultimately helped improve the outcome for patients.

Statistical Overview – Fire

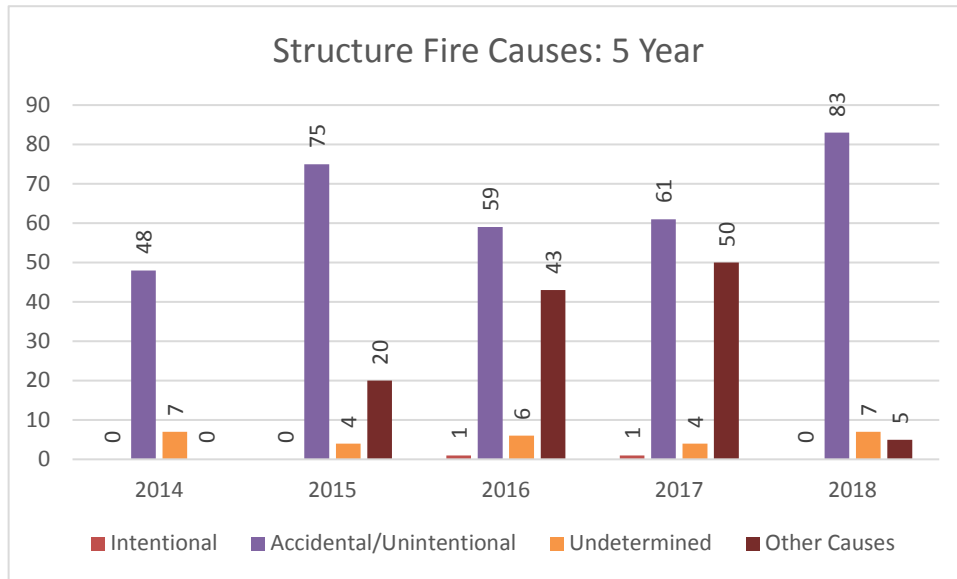
The total number of incidents to which the Fire Department responded decreased by 2.08% to 1,175 from 1,200 the prior year.



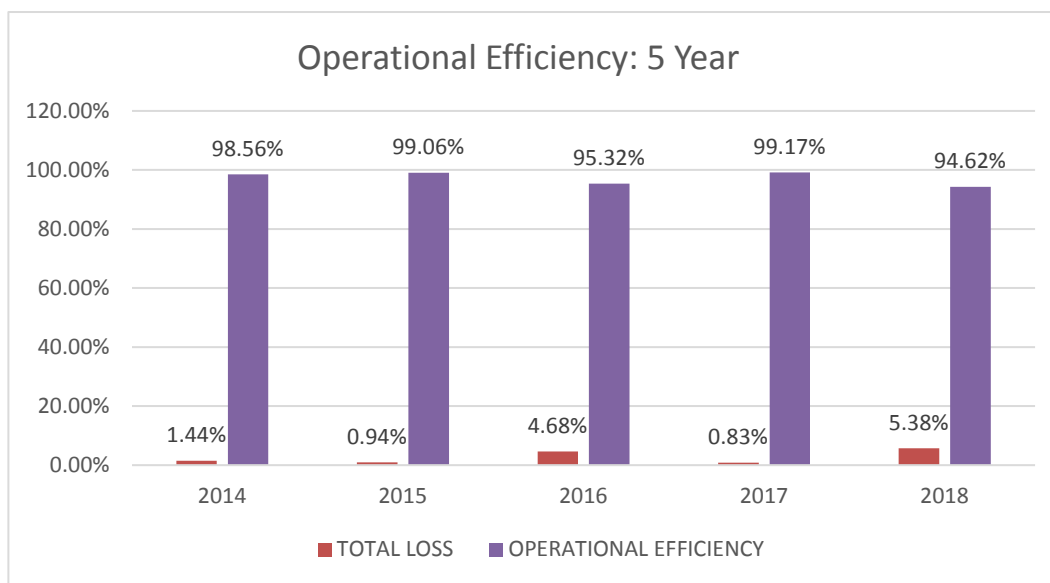
Fire incidents decreased by 14% from 200 to 172, while non fire incidents increased by 0.30% from 1,000 to 1,003.



Structure fires accounted for 55.23% of fires, a decrease of 2.06%. Cooking related fires accounted for 44.21% of structure fires, an increase of 40%.

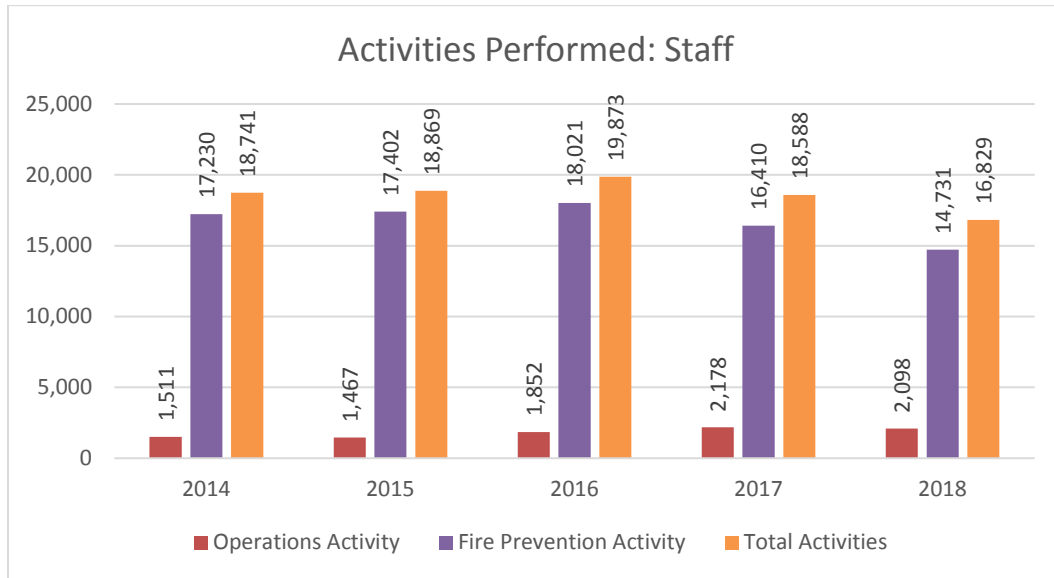


Property value lost from fire increased by 0.82%. \$27.7M in estimated property value was threatened by fire, a decrease of 82.57%, while \$26.2M, or 94.62% of threatened property value was protected from fire through the application of effective firefighting efforts.

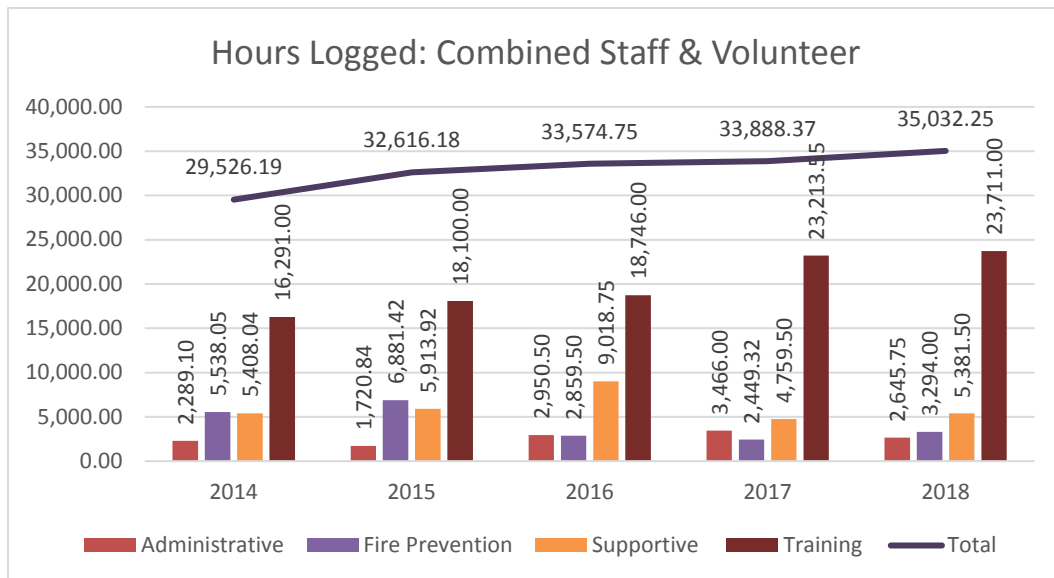


Fire Department members participated in 74 separate apparatus requests from civic groups demonstrating firefighting capabilities and enhancing public fire safety education at various outdoor events, up 7.25%.

Total activities performed decreased by 9.46% overall from 18,588 to 16,829.



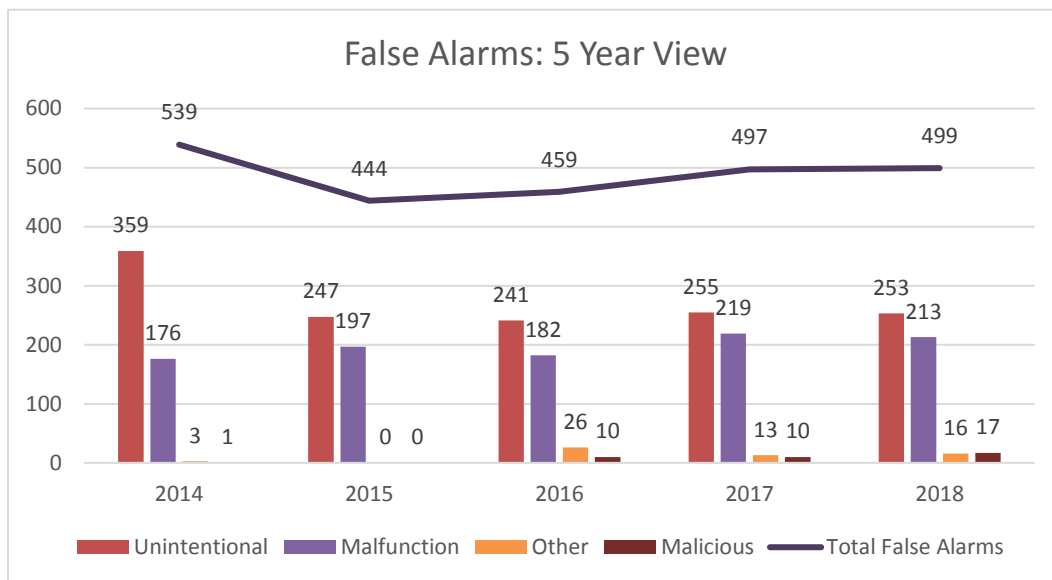
Total time logged increased by 3.38% from 33,888.37 hours to 35,032.25 hours.



The number of volunteer firefighters increased by 3.07% to 168 of the authorized 180. This equates to a 94% volunteer staffing level in 2018. Full time staffing remained unchanged with 11 sworn uniformed staff members and 1 civilian staff member for a meager 7% of combined staffing.

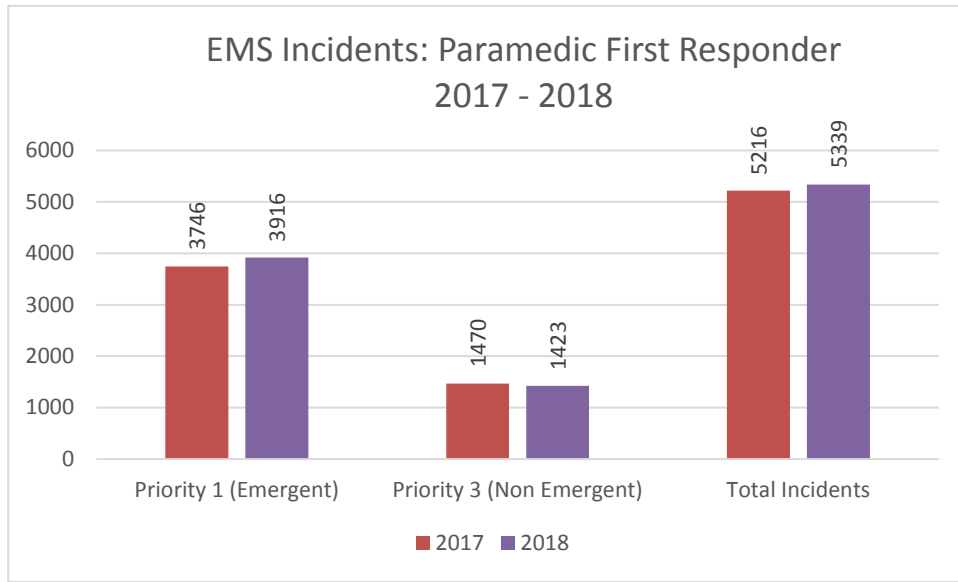


False alarms increased by 0.4% from 497 to 499. False alarm activations accounted for 41.58% of total incidents.

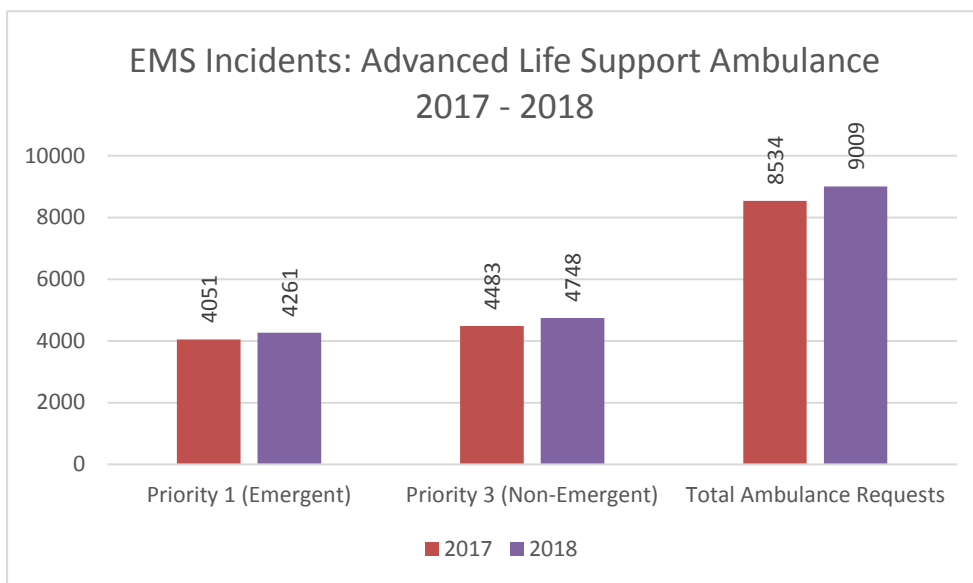


Statistical Overview – EMS*

Alliance Mobile Health continued to be the City’s EMS provider. There were a total of 5,339 requests requiring Paramedic First Responder service, an increase of 2.36%, up from 5,216.

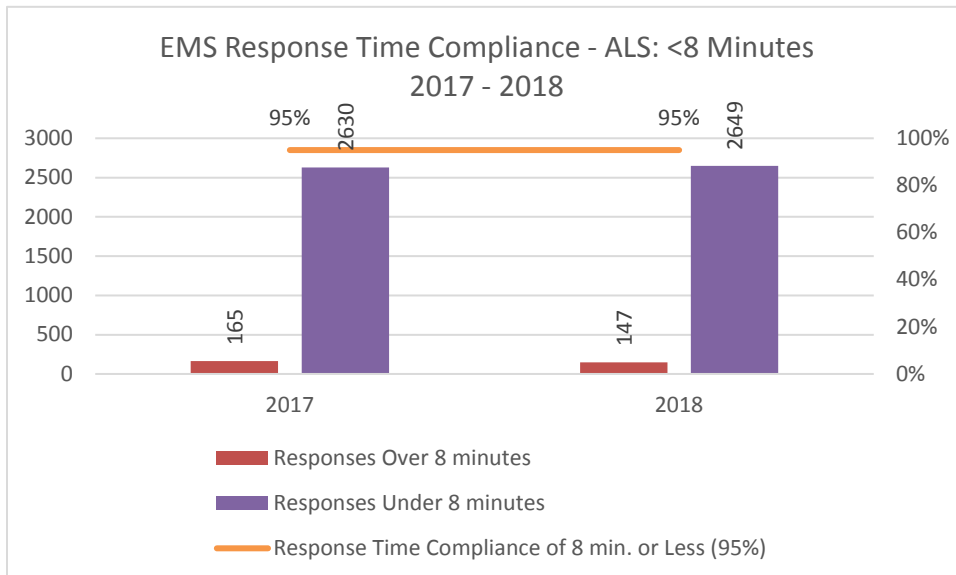
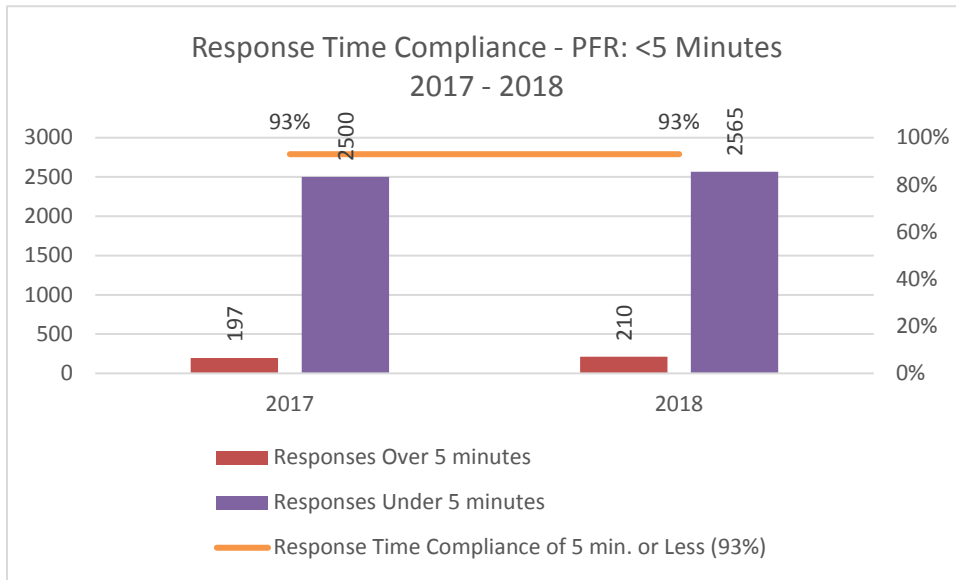


There were 9,009 requests requiring Advanced Life Support Ambulance service, an increase of 5.57%, up from 8,534.



*Data provided by Alliance Mobile Health

Both the PFR and the ALS ambulance continued to meet the required Priority 1 (emergent) response time 90% compliance standards of less than 5 minutes for the PFR, and less than 8 minutes for the ALS ambulance, with 93% and 95% respectively.



The Fire Department continues to attract volunteers, and provide efficient fire suppression and rescue services through a cost effective, well trained, combination style department, comprised primarily of dedicated volunteer firefighters; and provides proactive fire prevention and fire safety education by means of a committed career staff in order to help reduce the risk of fire within our community. The fact that the Troy Fire Department is the largest combination style fire department in Michigan, and the largest municipal fire department in Oakland County, yet operates at 1/2 to 1/3 the cost of comparably-sized career fire departments throughout the region with minimal career staffing, cannot be overstated and should not be overlooked.

As always, I would like to take this opportunity to once again thank the Troy City Council, and the many other City departments with whom we work, for their continued support of the Fire Department. I would also like to recognize and thank our members, both volunteer and career, and their spouses and families; the Troy Firefighters Community Fund; the Troy Police and Fire Benevolent Association; and the Troy Fire Explorer Post 911 for all they do in support of the Troy Fire Department as we enter our 79th year of serving the community.