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Troy Fire Department

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March 10, 2020

TO: Mark F. Miller, City Manager

FROM: David Roberts, Fire Chief

RE: Fire Department Annual Report for 2019

The following information highlights the annual report for the Troy Fire Department for calendar year 2019. Supporting information contained herein summarizes noteworthy issues as well as various Fire and EMS statistics and performance indicators for convenient reference. More detailed analysis will be made available upon request, and further information presented on the Fire Department web page in the future as time and resources may allow.

Community Partnership

As in previous years, in addition to responding to emergencies, the TFD continues to partner with the community and various organizations by co-hosting events such as the annual Citizens 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, to name a few.

Operating Efficiency

As detailed in this report, 97.74% of property value threatened by fire was saved by firefighting efforts in 2019. It continues to be reasoned, therefore, that this equates to a greater than 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.

Fire Apparatus – Ladder 5 & Ladder 6

The Fire Department accepted delivery of two new ladder trucks to replace two aging ladder trucks – one at Station 5 and one at Station 6. The new L5 & L6 are the Sutphen SLR75 model with a 75' aerial ladder and a 2,000 GPM pump. These two new trucks will greatly enhance the Fire Department's fire suppression and rescue capabilities at incidents.

Fire Equipment – SCBA

The Fire Department accepted delivery of 132 Self-Contained Breathing Apparatus to replace aging SCBA at all six fire stations that could no longer be serviced and certified. The new SCBA are the MSA G-1 model with the latest MIOSHA and NFPA compliant firefighter safety features. These new units allow firefighters to operate more safely and effectively in environments that are immediately dangerous to life and health (IDLH). The previous SCBA have been donated to the OCC Combined Regional Emergency Services Training (CREST) facility to be used for training in non-IDLH environments.

Fire Equipment – Extrication Tools

The Fire Department purchased and placed new Hurst “eDRAULIC” electric battery operated hydraulic rescue tool sets at each fire station. These tools replaced the existing truck-mounted gasoline operated hydraulic powered Hurst tools, and now allow for much more versatility, as well as provide improved power that is needed for the newer, stronger built vehicles. The new Hurst eDRAULIC tools are lighter weight and more portable, and will improve the efficiency of the Fire Department while reducing extrication time for entrapped victims.

Emergency Vehicle Preemption – Opticom

The Fire Department purchased new and improved GPS-based Emergency Vehicle Preemption (EVP), or Opticom, to replace it’s circa 1975 infrared (IR) based equipment. Opticom aids responding emergency vehicles equipped with special emitters to change the traffic signal to green in their favor, thereby keeping traffic flowing. This effect also reduces the likelihood of right angle, broadside collisions as a result of entering the intersection against a red signal; and increases the safety and improves the response time of responders. The new GPS equipment is being installed at intersections throughout Troy by the Road Commission for Oakland County.

Firefighters Memorial

The Firefighters Memorial Project was launched to construct a permanent memorial to pay tribute to our prior members who are now deceased. A design was finalized in 2019. With a partial capital budget funding allocation, and through donations from various organizations and individuals from both inside and outside of the community, efforts continued toward funding the construction of a suitable memorial in Firefighters Park. Project bids have been received and ground breaking is anticipated in the spring of 2020 with project completion in the fall of 2020.

Firefighter Training

Efforts continued in 2019 to meet the impending State of Michigan requirements for fire officer certification. 23 members attended training and became certified at the Fire Officer 2 level bringing the department total to 42 certified officers – 32 station officers at FO1 or FO2, and 10 staff officers at FO2 or FO3. Additionally, the Fire Department purchased and implemented new software applications to accurately capture and manage more data related to training and incident response. These efforts all count toward improving as many deficiencies as possible in order to attain an improved ISO evaluation grade.

Emergency Medical Services

The Fire Department continued to administer the EMS contract with Alliance Mobile Health in order to provide Paramedic First Responder Service and Advanced Life Support Ambulance transport to the community. AMH completed its 16th year with the City and continues to provide cost effective and efficient EMS, thereby alleviating the need for the Fire Department to take on the added cost and responsibility as is customary in most other fire departments.

Troy Fire Staff Officers Association

The TFSSOA underwent an organizational change in 2019. Five Staff Technicians were promoted to the rank of Staff Lieutenant, and one existing Staff Lieutenant was promoted to Assistant Fire Chief. This

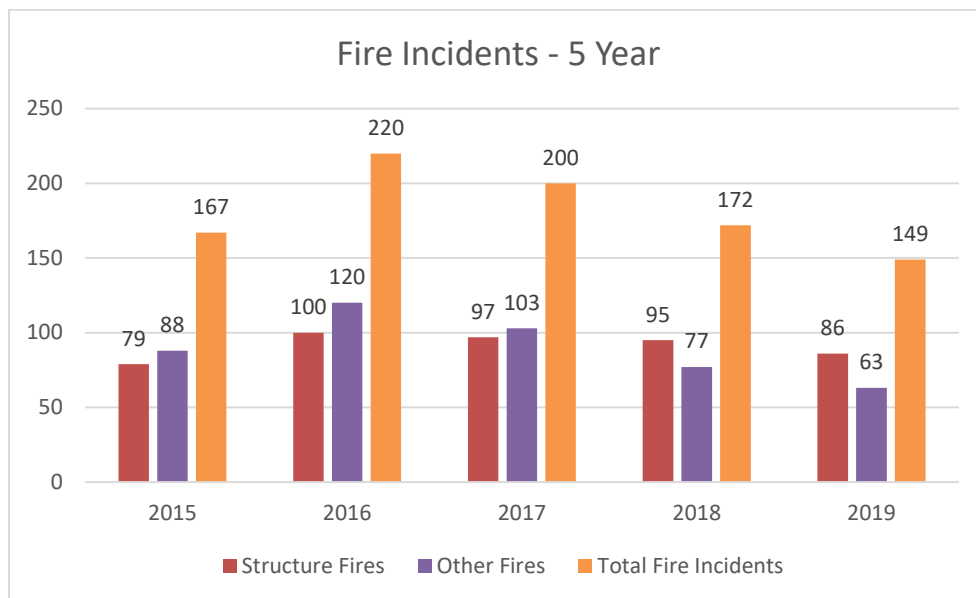
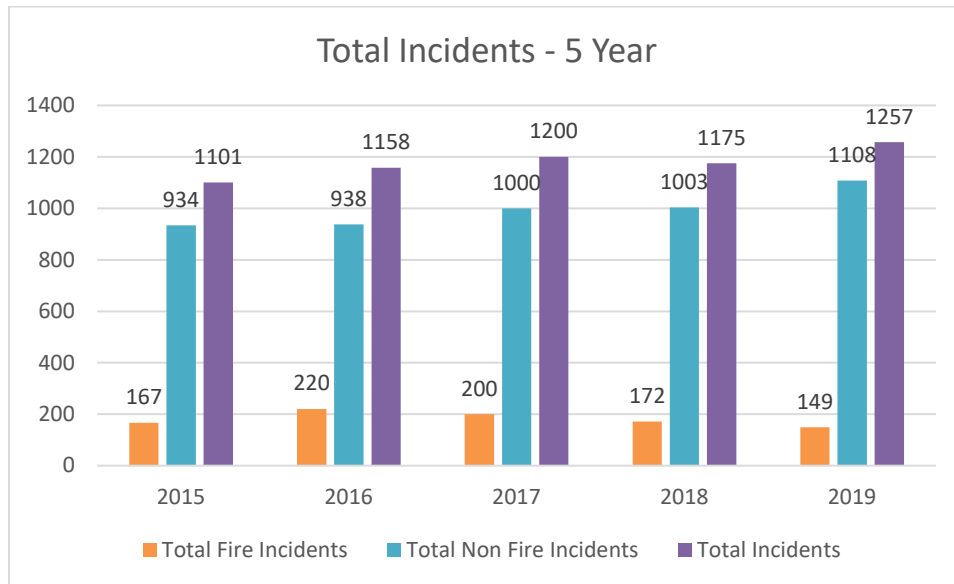
reorganization came about largely in part from the realization that the current staffing model was no longer adequate to efficiently address the expanding needs of the Fire Department, including factors such as the inability to hire additional full time career staff, as well as career staff members of different rank and pay performing many of the same duties with the same responsibilities. This reorganization is intended to better meet the increasing demands placed on the Fire Department in the future.

Overall, 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, fire safety education, and firefighter training by means of a committed career staff in order to help reduce the risk of fire loss 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 between 1/4 to 1/2 the cost of comparably-sized career fire departments throughout the region with minimal career staffing, cannot be overstated and should not be overlooked.

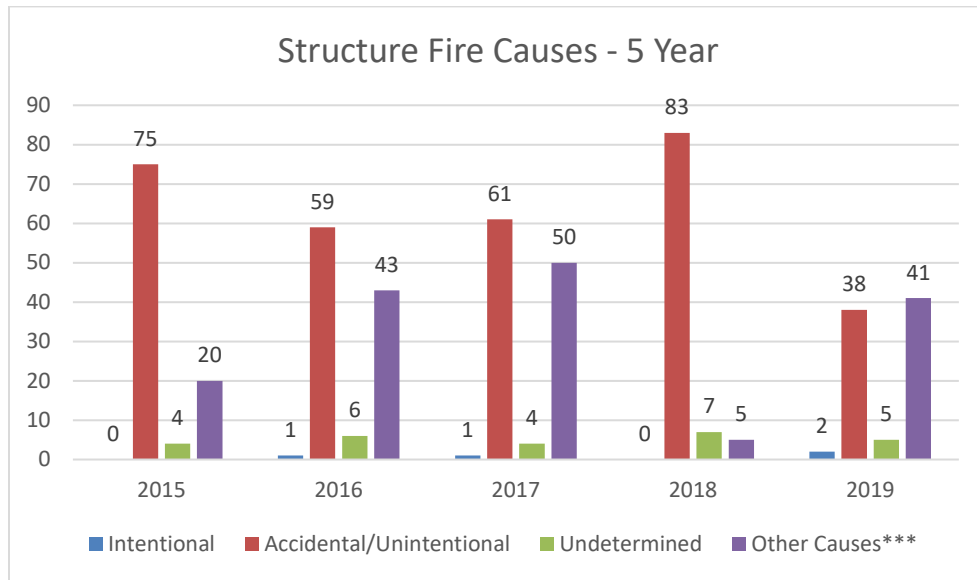
As always, I would like to take this opportunity to once again thank the Troy City Council, and the many other City departments with whom we work for their continued cooperation and support of the Fire Department. I would also like to recognize and thank our members, both volunteer and career, and their spouses and families; the Troy Firefighters Community Fund; the Troy Police and Fire Benevolent Association; and the Troy Fire Explorer Post for all they do in support of the Troy Fire Department as we enter our 80th year of serving the community.

Statistical Overview – Fire

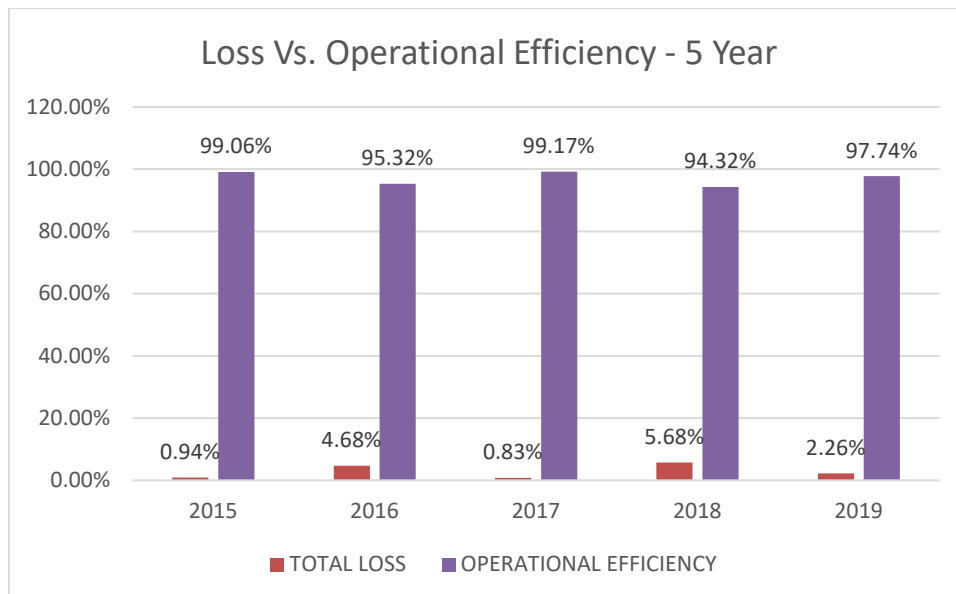
The total number of incidents to which the Fire Department responded increased by 6.88% to 1,257 from 1,175 the previous year. Fire incidents decreased by 13.37% from 172 to 149, while non fire incidents increased by 10.5% from 1,003 to 1,108.



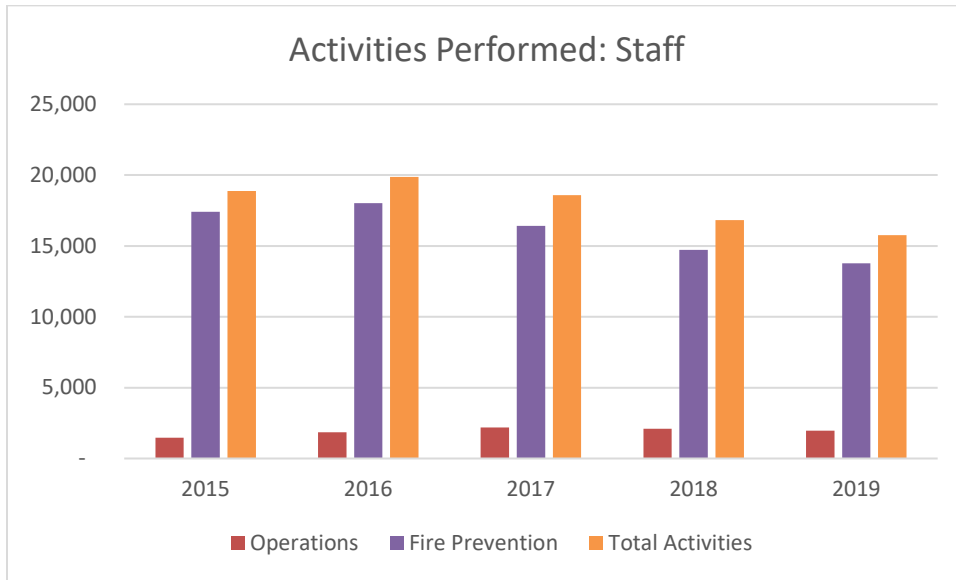
Structure fires accounted for 57.72% of fires, a decrease of 9.47%. Cooking related fires accounted for 30.23% of structure fires, a decrease of 38.1%.



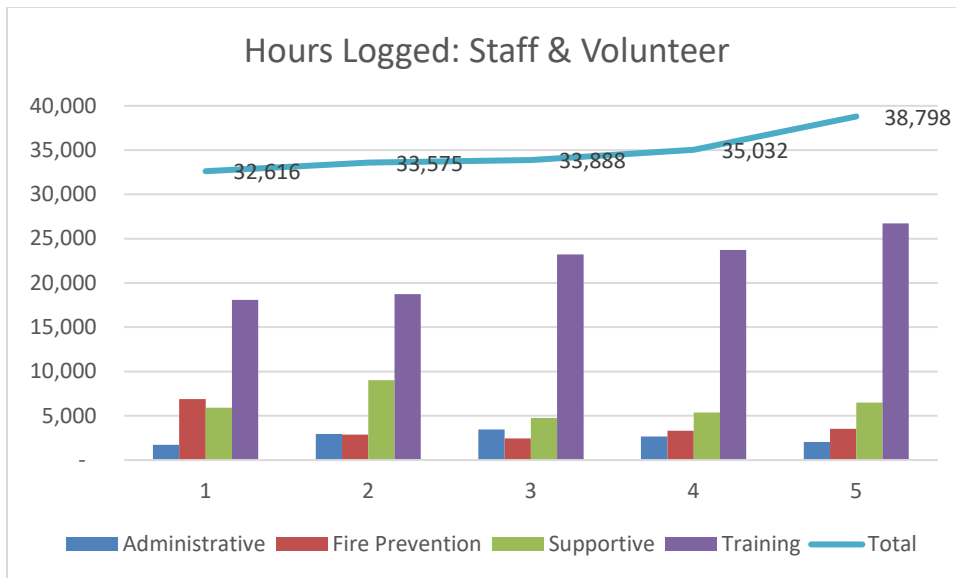
Property value lost from fire decreased by 3.17% by comparison. \$87.4M in estimated property value was threatened by fire, while \$85.5M, or 97.74% of threatened property value was protected from fire through the application of effective firefighting efforts.



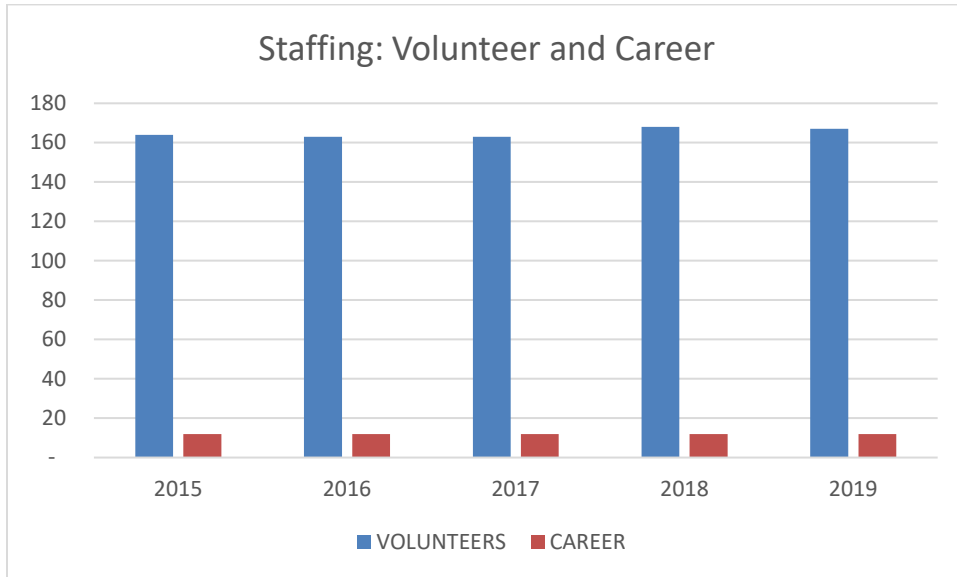
Total activities performed by Fire Department members decreased by 6.85% overall from 16,829 to 15,751.



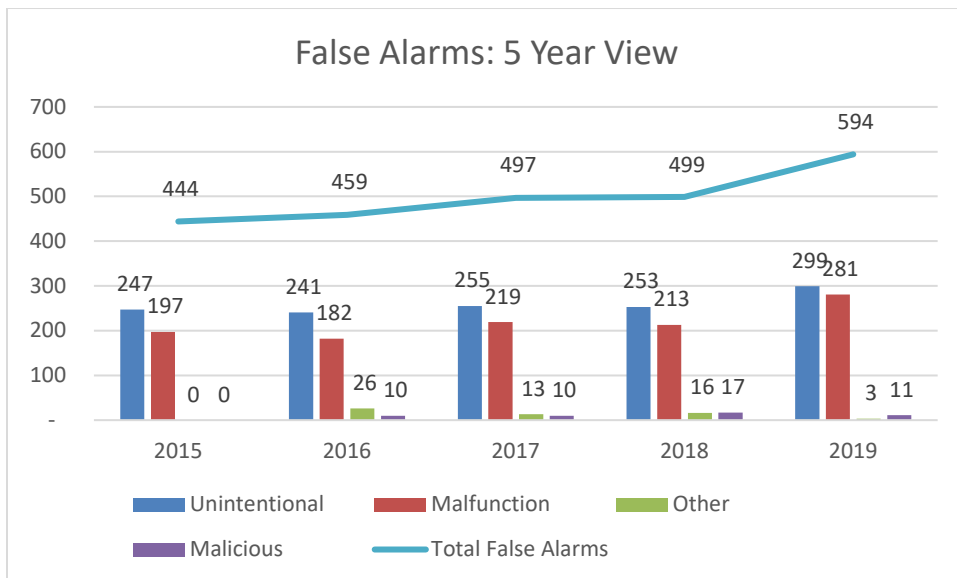
Total time logged increased by 10.76% from 35,032 hours to 38,798 hours.



Volunteer staffing is somewhat dynamic. The number of volunteer firefighters decreased by 0.6% to 167 of the authorized 180. Even so, this equates to a 93% volunteer staffing level. Full time staffing remained unchanged with 11 sworn uniformed career staff members and 1 civilian staff member for a meager 7% of combined staffing.

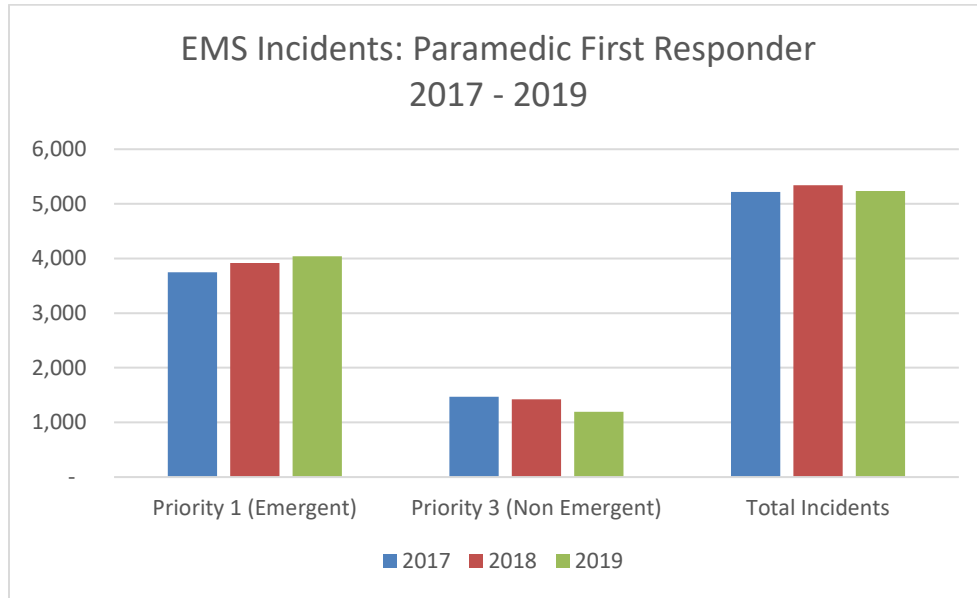


False alarms increased by 19% from 499 to 594. False alarm activations represent nearly half of calls for service accounting for 49.5% of total incidents.

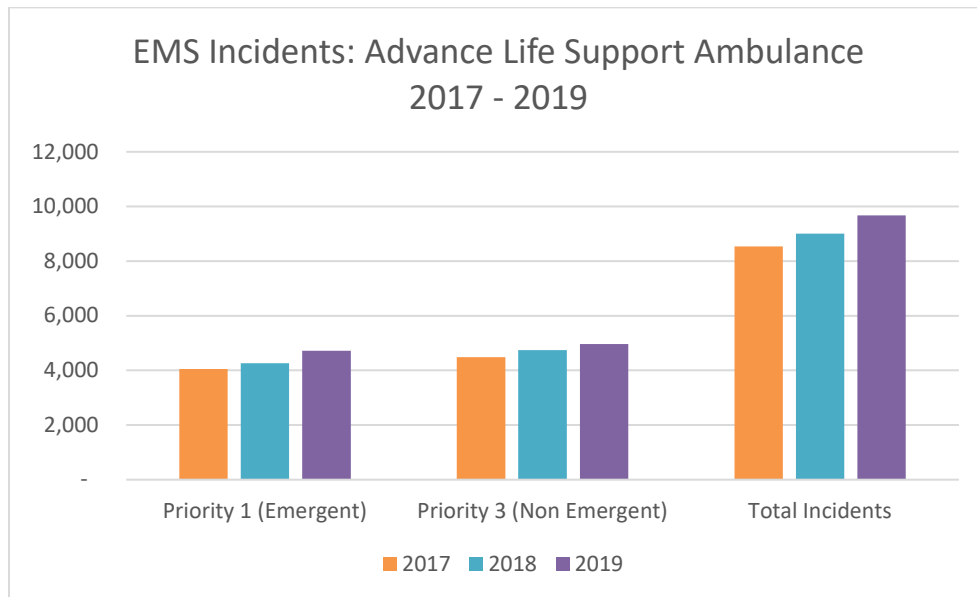


Statistical Overview – EMS*

There were 5,234 EMS requests requiring Paramedic First Responder service, a decrease of 1.97%, down from 5,339 the previous year.

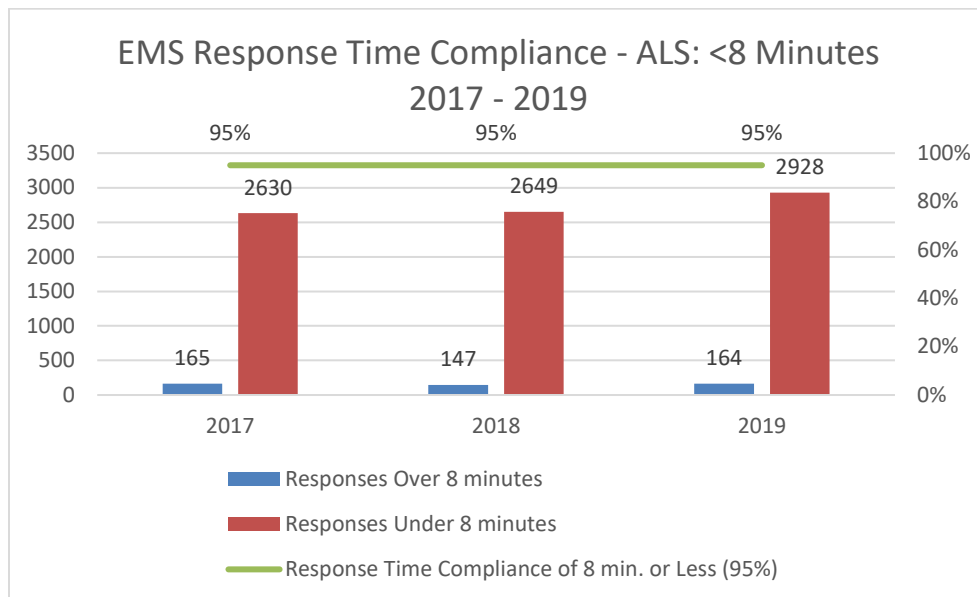
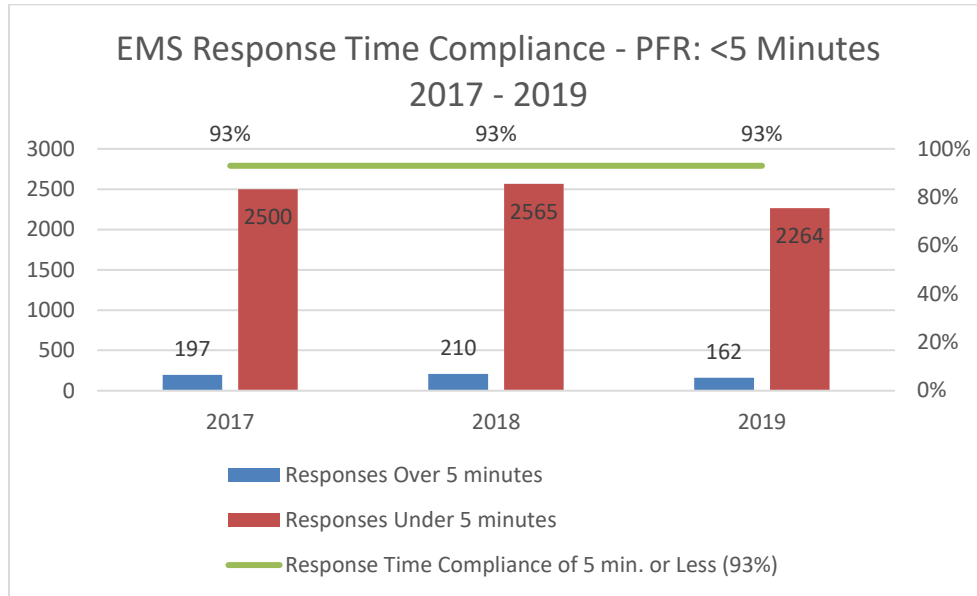


There were 9,675 EMS requests requiring Advanced Life Support Ambulance service, an increase of 7.39%, up from 9,009 the previous year.



*Emergency Medical Service and corresponding data provided by Alliance Mobile Health

Both the PFR and the ALS ambulance consistently met 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.



*Emergency Medical Service and corresponding data provided by Alliance Mobile Health