

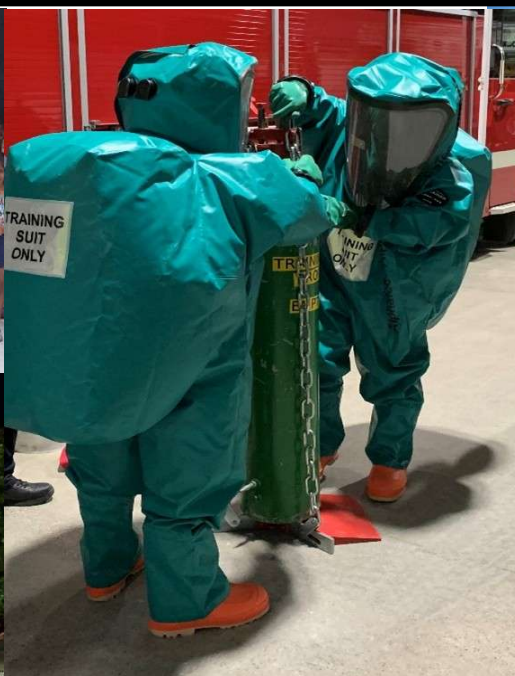


2021 ANNUAL REPORT



Ellen Taylor, Fire Chief

Trevin Robinson, Assistant Chief





Fire Department

Auburn Hills Fire 1899 N. Squirrel Road, Auburn Hills, MI 48326

2021 Year-End Report

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FIRE CHIEF'S SUMMARY COMMUNICATION

The department excelled in many disciplines and stayed busy with its highest ever record of annual emergency incidents. The department has continued to follow its five year strategic plan to grow and progress the department's overall goal to be a self-reliant, progressive, and proactive leading organization that collaborates closely with internal and neighboring agencies in delivering the most effective and efficient emergency services. It is with pleasure to highlight the department's annual stats and accomplishments achieved this past year.

Our fire suppression division responded to a total of 4,151 calls for service with emergency medical service calls accounting for 72.2% of all calls. From 2020 to 2021, this was an increase in calls by 566, or a 15.8% increase. Of the medical emergencies, 838 service calls were tracked as possible COVID-19 cases. The number of cardiac arrest incidents decreased from 25 to 20 incidents from the previous year. The department's medical service revenue increased slightly from \$704,870 to \$739,218. The department's fire incidents increased in number with sixty-eight (68) fire incidents in total. The fire occurrences included thirty-three (33) structural fires, twenty-two (22) vehicle fires, thirteen (13) outdoor rubbish fires, natural vegetation fires and/or other categorized fires. The department responded to 110 outdoor burn complaints, a sixty-five (65%) decrease from last year's 182 complaints. The department relied on mutual aid assistance for ninety-two (92) occasions and provided mutual aid seventy-two (72) times. The department responded to 1,392 concurrent calls, equaling 33.5% of the department's entire 4,151 annual run number.

The Fire Prevention Division performed similarly to last year, with 154 plan reviews, but increased its inspections by seventy-two (72) with 545 inspections completed. The hazardous material permit program collected \$77,900 in revenues from the city's 233 registered hazardous sites. Unfortunately, the community outreach programs continued to be hindered due to the COVID pandemic.

The department had a tremendous year of procuring and purchasing equipment, apparatus, and software for the overall improvement of the department. The highlighted purchased items include radio equipment in preparation for the county's upcoming upgrade to the State of Michigan's Motorola P25 system; HAAS emergency responder apparatus units to inform civilian vehicles of emergency responding vehicles; two new ambulances, a new fire engine, a newly ordered Quint aerial truck; and a training resource software package to better schedule and track training requirements and hours. The department also posted a request for bid on the remodeling of two fire stations and hired an architectural firm for their station designs.

The department also concentrated on recruitment, retention and succession planning that included partnerships with community colleges and Avondale High School on fire recruit sponsorships and dual enrollment fire cadet programs; promotions of four new internal fire officers; and the instillment of continued education, especially Incident Command System practices and communications.

Lastly, I would like to thank all the dedicated department members who contributed to the following annual report.

Ellen S. Taylor
Fire Chief



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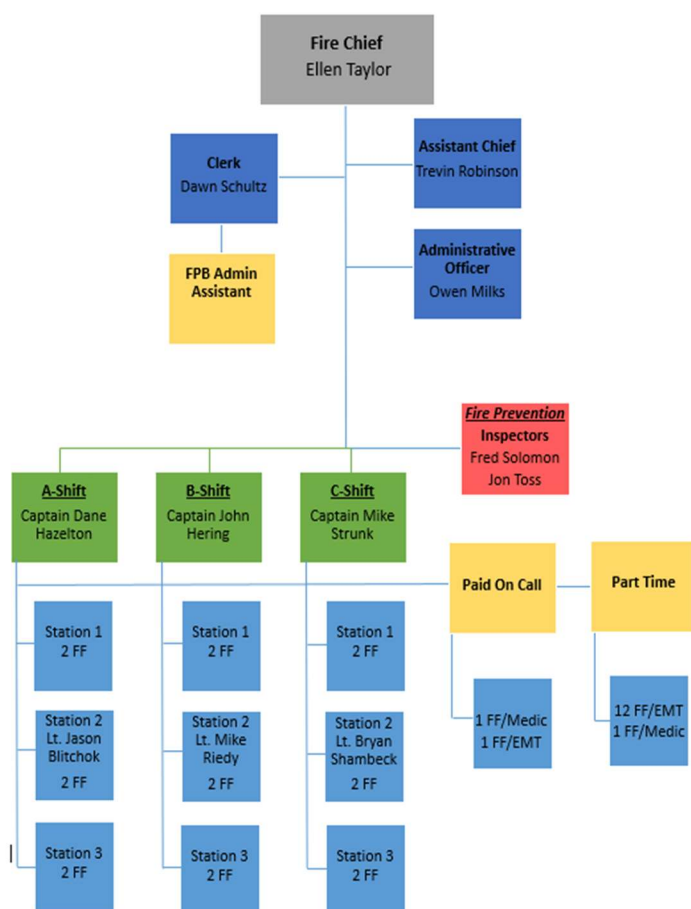
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DEPARTMENT OVERVIEW

With the commencement of 2021, the Auburn Hills Fire Department (AHFD) employed a total of forty-five (45) employees. Of these employees, there are four (4) administrative personnel, two (2) prevention division fire inspectors, twenty-four (24) full-time suppression division personnel, thirteen (13) part-time employees, and two (2) paid-on-call employees. Apart from four EMTs, all full-time employees are licensed paramedics. We have a total of twenty-five (25) paramedics on staff at AHFD along with five current members attending medic courses to becoming more knowledgeable and experienced emergency medical responders.

Organizational Chart

City of Auburn Hills Fire Department Organization Chart



Each of the three shifts have eight (8) assigned fulltime firefighters. AHFD relies on part-time and paid-on-call employees to compliment the full-time personnel in filling in one additional firefighter slot throughout the year giving the department the capability of nine (9) personnel serving the community every day. This year also saw a handful of promotions: Assistant Fire Chief, Administrative Officer, Captain, and Lieutenant. To the left is AHFD's updated organizational chart to represent the structure of the department, including the 2021 newly added positions.



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Fire Station Locations

The Department consists of three (3) fire stations dispersed within the upside down “L” shaped city to cover its unique 17.4 square miles and 26,544 citizens (SEMCOG).

Station 1: 3483 Auburn Rd.



Station 1 is in downtown Auburn Hills or the southern end of the city. This station is also where large Public Education events are held such as the department’s annual Fire Prevention Open House.

Station 2: 1899 N Squirrel Rd.



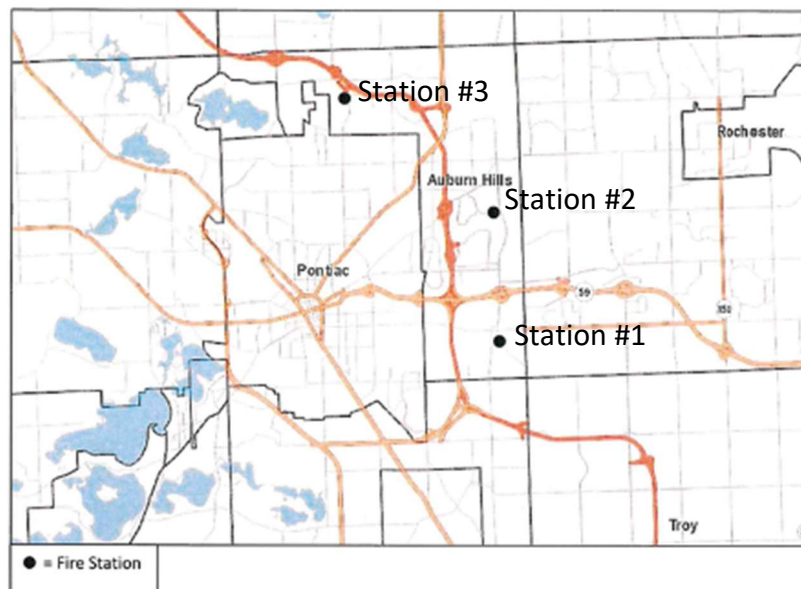
Station 2 is located directly across from Oakland University’s (OU) campus and covers the central area of the city. This station houses all administrative personnel along with suppression personnel.

Station 3: 3253 Joslyn Rd.



Station 3 is located in the northern end of the city which includes the Great Lakes Crossing Outlet mall. Many industrial buildings and shopping centers reside in the northern portion of the city as well.

Overview of Auburn Hills with Fire Station Locations





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Department Fleet / Fleet Management

[Firefighter/Paramedic Tony Randolph]

AHFD's vehicle fleet includes a variety of vehicles used to protect the City of Auburn Hills. At the end of 2021, AHFD owns and operates a total of sixteen (16) vehicles which include three (3) administrative vehicles, one (1) command vehicle, two (2) fire prevention vehicles, one (1) utility vehicle, four (4) rescue ambulances with one of the four rescues as a reserve, three (3) fire engines, two (2) aerial ladder trucks and one (1) special response vehicle (SRU).

Station 1 houses Rescue 1, Engine 1, SRU 1, and Rescue 4 (reserve)



Station 2 houses Rescue 2, Engine 2, Ladder 2, and Captain 1.





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Station 3 houses Rescue 3, Engine 3 and Ladder 3.



EMS – Rescues

All AHFD's four (4) State licensed Advanced Life Support (ALS) ambulances are equipped to handle Medical First Responder (MFR), Basic Life Support (BLS), and Advanced Life Support (ALS) emergency medical services and transportation. In January 2021 the department placed two (2) new Wheeled Coach F450 four-wheel drive ambulances in service. These new ambulances allowed us to replace two (2) aging ambulances, leaving the department with one (1) additional aging ambulance/rescue that is budgeted to be replaced in 2022.



Suppression - Fire Engines

One of the most utilized suppression vehicles that not only transports firefighting personnel to the scene but also carries many necessary tools/equipment is the fire engine. AHFD took delivery of a new 2020 Rosenbauer fire engine in July 2021, adding to the current two (2) engines giving the department a total of three (3) fire engines. The 2009, 2015 and 2020 engines all have a 750-gallon water tank, 30-gallon foam tanks and can pump 1,500 gallons of water per minute. Each vehicle carries 1000 ft of 4" large diameter hose, 600 ft of 2.5" hose and 900 ft of 1.75" hose. Each engine carries extrication





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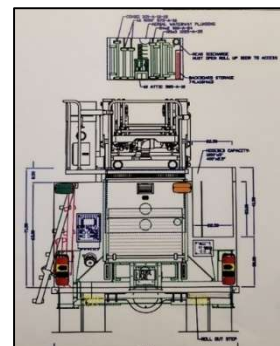
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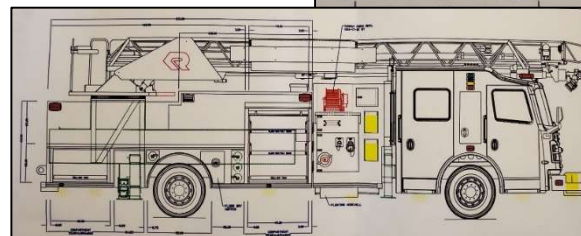
tools (jaws of life) and equipment to handle motor vehicle accidents with or without patron entrapments, small spills, elevator entrapments along with many other types of emergencies. These engines are also capable of providing BLS medical services. With the acquisition of the new engine, each of the three (3) stations now houses a fire engine.

Suppression - Aerial Ladder Trucks

In addition to the fire engines there are two (2) aerial ladder trucks. One (1) of the aerial trucks is a 1997 apparatus and has a 500-gallon water tank with a 75-foot articulating ladder, a compliment of ground ladders ranging from 16 ft to 35 ft, 1,000 ft of 4" large diameter hose, 400 ft of 2.5" hose, 500 ft of 1.75" along with having the capability of pumping 1,500 gallons of water per minute. The second aerial truck is a 2018 vehicle with a 400-gallon water tank, a 30-gallon foam tank, a 100-foot extendable/retractable articulating ladder, 950 ft of 5" large diameter hose, the same number of ladders and smaller diameter fire hoses and is capable of pumping 2,000 gallons of water per minute.



The department's fire apparatus committee was again tasked with the gathering of ideas and information to created specifications for a new 78-foot aerial ladder truck to replace the 1997 aerial truck. The aerial truck was ordered with the delivery date anticipated in late summer of 2022.



Suppression/EMS - Special Response

The Auburn Hills Fire Department has personnel trained and certified for technical rescue and hazmat response. Personnel with this specialized training and certification belong to county wide mutual aid specialty teams; technical rescue and hazardous material. These teams respond to hazardous material related situations, trench rescue, high and low angle rope rescues, confined space rescues, structural collapse rescues and heavy machine rescues. As a county team we respond throughout Oakland County. The fire department has a special response vehicle that





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carries specialized equipment for our personnel to initiate these responses until the county team can arrive with a larger cache of equipment and personnel that will be used to mitigate the situation, if required.

Budget

AHFD's 2021 amended and resulting budget is displayed in the table to the right as of February 8th, 2022. As you can see, the approved budget depicts the department's total revenues at \$5,623,146 and total expenditures at \$5,512,324. The most recent, but possibly still changing department budget results of 2021, show the department's final revenue at \$ 5,907,564 and expenditures at \$4,728,601. Even with the continuing COVID effects of inspection, plan reviews, and permit being much lower than budgeted, an unexpected additional \$284,418 was collected in revenues and the department spent \$783,723 less than the amended budget, leaving \$1,178,963 to be transferred back to the City's General Fund. Last year this amount was \$1,257,682

Budget Line Item Description	2021 Amended Budget	2021 Budget Results
Fire Total Revenue	\$5,623,146	\$5,907,564
Fire Total Expenditures	\$5,512,324	\$4,728,601
Administration Division	\$802,881	\$608,770
Suppression Division	\$4,373,997	\$3,814,925
Fire Prevention Division	\$335,445	\$304,905
Revenue/Expenditure Difference	\$110,822	\$1,178,963



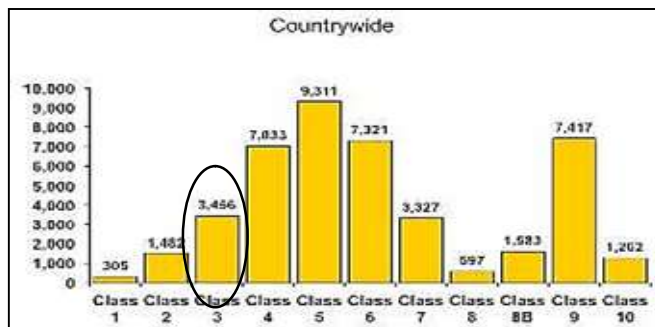
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Public Protection Classification

AHFD continues to be rated as a Class three (3) Public Protection Classification (PPC) by the Insurance Services Office, Inc. (ISO). ISO assigns PPC grades on a scale of one (1) to ten (10) based on the fire protection capabilities of a department where a class one (1) rating represents an exemplary fire suppression program, and a class ten (10) rating indicates that the department's current fire suppression program does not meet ISO's minimum standards. AHFD's above average fire protection classification aids in reducing insurance premiums and provides financial savings for property insurance in Auburn Hills. AHFD's ISO rating went into effect July 1st, 2018; Auburn Hills will continue to be ranked as a class three (3) until a future ISO evaluation is attained.



ADMINISTRATIVE DIVISION

As one of the highest priorities, the AHFD's administrative division continued to work hard to ensure the safety of all personnel against the ongoing second year of the COVID-19 pandemic. A few examples are below:

- Secured grant funds to purchase and install mobile integrated disinfectant systems in all four of the department's ambulances,
- Purchased and installed integrated far UVC lighting in all four of the department's ambulances;
- Worked closely with Oakland County Health Department to secure COVID-19 vaccines and boosters for the department personnel;
- Continued to enforce safe and compliant response protocols including County Medical protocols and MIOSHA law;
- Administered COVID testing for select sites for the county health department and provided and administered in house COVID-19 PCR testing for the city's emergency responders.

Secondly, the department's strategic goals and objectives were worked on and tracked to ensure that the department was staying on course of improving and implementing the overall department to provide the best internal and external customer service.

Below are some other areas/projects that administrative staff concentrated on and worked hard on over the year of 2021.



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- Implemented better planning and tracking of training and training hours. A new training learning module software package was purchased and installed. This package also allowed to implement an electronic means of daily truck checking.
- Instilled and provided training for all personnel to strive on consistent, reliable, and common incident command communications to ensure proper scene command and safety.
 - All full-time personnel have trained on the BlueCard Incident Command System (ICS).
 - Incident scene critiques format was developed to hold consistent learning sessions on significant incident scenes.
- Supported and encouraged personnel programs for health and wellness including three separate virtual webinars and a weight loss challenge.
- Rewrote the city's Emergency Operations Plan (EOP) and held a city-wide EOP tabletop exercise at the city's Hawk Wood lodge.
- Held promotional testing and assessments for the Captain, Lieutenant, and Fire Inspector positions resulting in four officer promotions.
- Procured and purchased capital items
 - Suppression tablets for the apparatus giving access to the department's Geographic Information System (GIS) data and firefighter right to know data.
 - A fire engine,
 - Two ambulances,
 - radio equipment in preparation of the county implanting a P25 state aligned radio system,
 - And HAAS vehicle alert systems.
- Revamped and reorganized the department policies and guidelines.
- Developed a Request for Proposal (RFP) and selected an architectural firm to perform a needs assessment, a square foot analysis, and designs for the remodeling of both station one and three. The remodeling construction is anticipated to begin in the Summer or Fall of 2022.

The department encourages all personnel to stay active as committee members so that their input is valued on projects and procurements. With each improvement and administrative item being addressed, the Auburn Hills Fire Department is better able to effectively support the city, its citizens, and Oakland County.



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Grant Work

[Administrative Officer Owen Milks]

Staffing for Adequate Fire and Emergency Response (SAFER) Grant

AHFD was awarded a SAFER grant in the amount of \$718,551 in the fourth quarter of 2019. This grant allowed the department to hire three (3) additional personnel who were hired in January of 2020. The department has completed two of the three years and the grant will conclude at the end of 2022.

Regional Assistance to Firefighters Grant (RAFG)

The Auburn Hills Fire Department hosted a regional AFG grant that focused on much needed COVID-19 equipment to protect department personnel and facilities during the ongoing COVID epidemic. Auburn Hills, Brandon Township and the Village of Holly applied for mobile decontamination units that can be used throughout each station and can also be integrated into the department's rescue vehicles. The total federal funding amount of \$138,247 allowed for the purchase of ten (10) "AeroClave" units. Auburn Hills received four (4) disinfectant "AeroClave" units.

The department also submitted for two additional 2021 AFG grants. One for our department to replace gear washers and purchase gear dryers at each station. The second grant is a regional grant for nozzles which includes three (3) additional departments. We expect a decision on these grants in 2022.



COVID-19 Personal Protective Equipment (PPE)

As the nation remains in the grip of COVID 19, AHFD continues to wage their battle against the virus. Oakland County continues to be one of the hardest hit counties in the state. The department, along with the police department, having procured a suitable amount of personal protective equipment (PPE) has been able to stand up to the onslaught of COVID cases as safely as possible. With the help of the screening done by Dispatch, first responders don proper PPE prior to each call. In 2021 there were a possible 838 COVID patient incidents with 64 confirmed COVID calls. The department has been very proactive in obtaining PPE so as not to find themselves shorthanded and unable to provide this life saving equipment to our personnel.



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COVID-19 Vaccinations

The year 2021 welcomed the creation and wide-spread distribution of the Covid-19 vaccination and following that, the booster shots. Both Pfizer and Moderna pharmaceutical and biotechnology companies developed and produced the first Covid vaccines, with Johnson & Johnson not far behind. While none of the three vaccines have been approved or licensed by the FDA, they have all been granted emergency use authorization. According to the CDC, only 62.9% of all Americans have received their vaccinations and sadly only 57.6% of Michigan residents. The majority of the AHFD personnel have gotten vaccinated and are protected against this deadly virus.





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Department Strategic Plan

To build a solid foundation and plan for the future, AHFD has continued to follow its five-year strategic plan. This strategic plan addresses the challenges and opportunities that the organization faces today and, more importantly, those that may challenge the department tomorrow. This five-year strategic plan will be reviewed and modified as needed in incremental periods of time. Below is the department's mission statement, vision statement, and goals:

Vision Statement

Committed to provide a dynamic and properly staffed organization that fosters teamwork and embraces change for the needs of the community.

Mission Statement

Serve our community with dedication by providing professional compassionate emergency services for all those who live, work, and play in Auburn Hills.

- GOAL 1: Reduce community risk by increasing fire safety and prevention programs and developing key strategic partnerships.
- GOAL 2: Improve the way in which we manage, engage, and support our employees in the area of training.
- GOAL 3: Expand opportunities to improve the wellness of each employee, specifically related to safety, education, mental health, and fitness.
- GOAL 4: Provide leadership and management across the organizations structure which allows us to build a healthy, performance-based culture of success.
- GOAL 5: Invest in technology to drive improved work processes and service levels across all areas of the department.
- GOAL 6: Develop and implement strategies that allow us to recruit and retain professional fire fighters.
- GOAL 7: Implement ET3 services to enhance medical care delivered to the community.

Wellness Courses and Fitness Competition

The department has seen an increased awareness in health and fitness among the personnel. Recently, AHFD recruited the expertise of a dietician who provided three (3) virtual webinars to better educate our firefighters about the importance of diet and nutrition in this physically demanding career. Attendees learned how to assure working muscles are getting the right



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nutrients at the right time to maximize health benefits from training exercises. Natural ways to alleviate stress were also discussed. Firefighter Jay Coaster took the lead in setting up these webinars and developed a city-wide weight loss competition. This competition is expected to become an annual event concluding with an engraved trophy and bragging rights.

EOP And Tabletop Discussion

In November, the city participated in an Emergency Operations Plan training session. A natural disaster was imagined, and forty (40) city administrators and managers were called upon to react to such a disaster. Possible deaths, mass injuries, building collapse, gas leaks and other traumatic events were discussed and prepared for. The session was led by the Oakland County Emergency Management & Homeland Security Department Specialist, Mike Loper and our Fire Chief, Ellen Taylor. The exercise allowed participants to simulate field operations up to the logistical supporting emergency operational center incorporating the importance of preplanning and good communications. In performing these training sessions, department personnel can better understand and make provisions for any major emergency incident.

Suppression Tablets

Several tablets were purchased for the suppression division to be utilized on department apparatus to better handle emergency situations. By using the tablets, AHFD's first responders are able access occupancy, preplan, and business data prior to arrival on scene to be better prepared for all emergencies. The tablets are connected to the internet and can be used for field data, emergency management, and documentation during an emergency. Having access to the tablets better prepares first responders to potential dangers of hazardous materials stored in local businesses as per the Michigan's Firefighter Right to Know Law. This law provides the Fire Chief the right to request and receive a detailed list of chemicals stored and used at local commercial and industrial businesses in the area. This purchase allows for AHFD to mitigate incidents safely and effectively.





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Promotions

The Department was fortunate to move several personnel into key roles with promotions through a stringent and exhaustive assessment process. Early in January our Assistant Chief position was vacated, and a search was implemented to find a new assistant. With great pleasure, it was announced our very own Administrative Officer, Trevin Robinson, out preformed all other candidates to be named the new Assistant Chief. Having our own internal candidate rise above more senior external candidates is very encouraging in showing the department's improvement in succession planning, a department strategic plan objective. This then left a vacancy in the administrative officer position. The department was happy to announce the selection of Captain Owen Milks to step into this Administrative Officer position. This in turn, like a domino effect left a Captain and Lieutenant position to be filled. Several candidates participated in promotional testing and assessments. Ultimately, Lieutenant Dane Hazelton and Jason Blitchok earned a promotion to the Captain and Lieutenant positions respectively. These newly appointed personnel have shown strong leadership skills and will carry the department forward in the coming years.



HAAS Vehicle Alert System

The Auburn Hills Fire Department has recently joined forces with HAAS Alert to provide area motorists with a new safety alert system. When the department is responding to an emergency call and utilizes the lights and sirens, nearby motorists will receive an alert through their vehicle navigation system, or through widely used mobile navigation systems, such as Waze. This will prevent the risk of accidents and allow emergency vehicles to arrive more quickly and safely to their destination. As more car manufactures and more mobile apps sign on, more motorists will be notified.



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Committee Work (Employee Inclusion)

In valuing the department's employees and their input, the department has instilled committee work to undertake needed areas/projects within the department.

Ambulance Committee: Determines the specific needs of the department for rescue vehicles, designs and selects the best fit vehicle specifications to ensure efficiency.

Awards Committee: Votes and influences departmental nominations to the Optimist Club, American Legion, and other departmental awards.

Engine/Aerial Committees: Studies the specifications of varying fire engines and aerials to determine the best vehicle for the department and AHFD's specific set of needs.

Policy Committee: Creates, reviews, and updates department policies as needed.

Social Media Committee: Assists in assuring that communications on department developments, happenings, and educational information are shared with our community members.

Software Research Committee: Analyzes existing available software to determine if the department needs to upgrade their software for better efficiency and effectiveness.

Training Committee: Handles, directs, and oversees any training events or activities including training at Oakland Community College and any available vacant structures within the City of Auburn Hills.

Uniform Committee: Utilized to decide upon, order, and handle any uniform related issues and items. This committee also assures the department's uniform are current in technology and that department uniform policies are up to date assuring consistent uniform wearing.

SUPPRESSION DIVISION

AHFD's suppression division is responsible for providing and mitigating any fire, environmental, rescue, vehicle, or other emergency including medical services. The department continues to work on improving emergency services, through better departmental structure, more advanced trainings, equipment/vehicle procurement, and constant strategy improvement.

Fire Suppression Call Volume Statistics

Incident Calls by Year

In 2021, AHFD responded to a total of 4,151 calls for service (average of 11.37 per day) with emergency medical service calls accounting for 72.2% of all calls. From 2020 to 2021, there was an increase in calls by 566, or 15.8% increase.

Calls for Service by Type (3-Years)			
Service Call Type	2019	2020	2021
Fire	94	63	69
Overpressure	2	1	2
EMS	2705	2590	2995
Hazardous	112	100	156
Service Calls	279	266	289
Good Intent	369	234	291
False Alarms	338	303	330
Special	7	28	19
Total	3906	3585	4151



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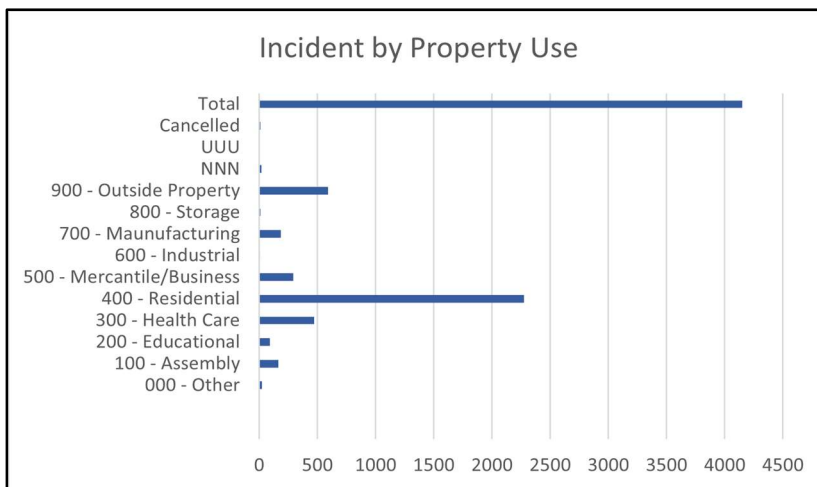
This increase in calls was largely medical in nature and can be attributed, in part, to the number of COVID cases seen by the department. Many patients called 911 with difficulty breathing and other COVID related symptoms. Across the state, emergency rooms were at or near capacity for most of the year, reporting climbing numbers of COVID cases and staffing shortages.

The table to the right is a five (5) year breakdown of AHFD's service calls broken down into EMS/medical and fire/suppression categories. There was a slight increase in suppression related incidents from 2020 to 2021.

Five (5) Year Number of Incident Comparison					
Incident Type	2017	2018	2019	2020	2021
EMS/Medical	2566	2523	2705	2590	2995
Fire/Suppression	1052	1210	1201	995	1156
Total	3618	3733	3906	3585	4151

Incident by Property Type

Every structure or area in Auburn Hills obtains a property classification divided into ten (10) various categories including assembly, educational, health care, residential, mercantile/business, industrial, manufacturing, storage, outside property, and other. Of the 4,151 emergency incidents that AHFD responded to in 2021, the top three (3) property types were incidents occurring at residential



structures at 54.85% or 2,277 incidents; outside properties such as roadways or parking lots at 14.26% or 592 incidents; and, health care facilities such as nursing homes or mental institutions which accounted for 11.42% or 474 incidents.

Incidents by Day of Week

Calls for service are usually quite consistent throughout the entire week. In 2021, AHFD had the highest amount of calls on Fridays at 646 incidents and the lowest amount of calls on Sundays where 541 incidents occurred throughout the year. In the past three (3) years, AHFD maintained the same pattern of the least number of calls occurring on Sundays and the greatest number of calls occurring during the later portion of the week on either Thursday(s) or Friday(s).

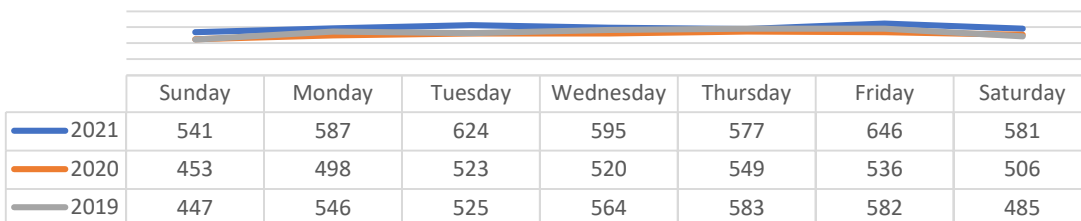


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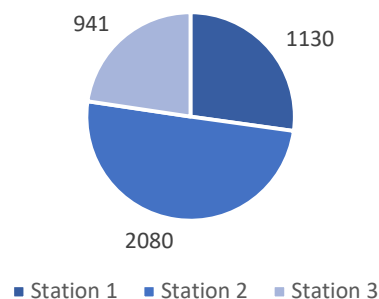
Number of Incidents by Day of the Week



Incident Volume by Station

Every call for service is classified by which station responded to the incident. To the right is a pie chart with each station's incidents throughout the year. In 2021, most calls occurred in the central portion of the city where station 2 is located with a total of 2,080 calls for service. The next busiest station was station 1 located in the southern area of the city which responded to 1,130 calls for service. Lastly, station 3 located in the North-West area of the city responded to 941 calls for service.

Number of Incidents by Station



The secondary table to the right includes both the service call classification and the station response district. With station two (2) responding to the highest number of total calls, it led with a total of thirty-seven (37) fire calls and 1,430 EMS calls. Station 1 responded to twenty-one (21) fire calls and 824 EMS calls, while station 3 responded to eleven (11) fire calls and 741 EMS calls.

Calls for Service by Station and Type			
Service Call Type	Station 1	Station 2	Station 3
Fire	21	37	11
Overpressure	1	1	0
EMS	824	1430	741
Hazardous	53	88	15
Service Calls	71	174	44
Good Intent	79	154	58
False Alarms	78	184	68
Special	3	12	4
Total	1130	2080	941



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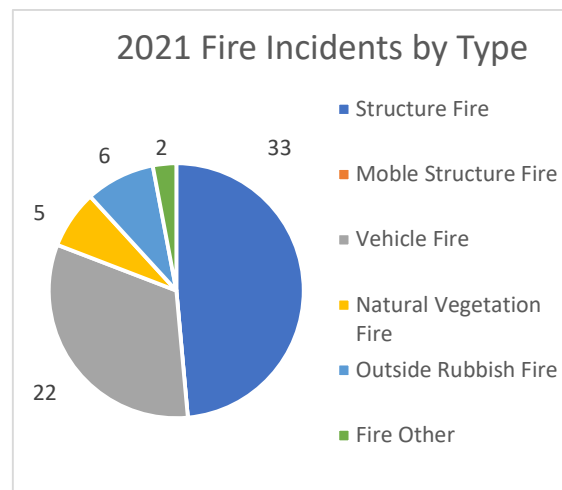
Fire Incident Response Time

Any fire-related incident is classified as either a priority or non-priority call. Priority calls would include active structure fires, calls with visible signs of fire, and any incident in progress whereas non-priority calls would include good intent calls, burning complaints, and public service assistance calls. During 2021, the average priority fire response time was six (6) minutes and sixteen (16) seconds, and the average non-priority response time was six (6) minutes and twenty-two (22) seconds.

Average Fire Response Time	
Priority	6m16s
Non-Priority	6m22s

Fire Incident Breakdown

Whenever suppression crews are needed for fire or fire-related incidents, these events are separated and sorted by National Fire Incident Reporting System (NFIRS) classifications. Many fire incident types are related to the specific area where the fire occurred or what exactly was burned. Of the sixty-eight (68) fire-related incidents in 2021, the largest number of incidents were structure fires which accounted for thirty-three (33) incidents. The second largest number of calls were related to vehicle fires accounting for twenty-two (22) incidents, and then followed by outdoor rubbish fires which accounted for six (6) incidents.



Significant Incidents

During 2021, there were several significant incidents that required specialized response or noteworthy mutual aid from AHFD. Below are incidents that made a lasting impression on the department and community.

Mobile Home Fire-March 15, 2021

The evening of March 15th, 2021 the fire department was dispatched to a mobile home on Purdue with reports of smoke coming from the home. The home was currently unoccupied as the previous owner had passed away and was owned by the mobile home park. Responders noted that there was debris against the trailer where the fire was active. The on-duty Captain shut off the gas and pulled the electric meter from the structure. Engine 1 crew forcibly entered the home through the front door. Water supply was





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established on both the interior of the home and under the trailer where the debris was piled. The fire was quickly extinguished.



Crews noted numerous lighter fluid bottles scattered about the outside of the trailer. One of our Fire Inspectors arrived at the scene to conduct an investigation. It was observed that the home was near hoarding levels with an excessive amount of clutter, including a BBQ grill inside. It appeared the fire burned through the floor and the heaviest smoke damage was in the center of the home where the living room was located.

Residential Fire- March 20th, 2021

AHFD was called to a residential fire on Guanonoque Street. When crews arrived on scene, smoke and flames were visible and all residents were reported to be safely out of the home with no injuries. Flames were seen on the Charlie/Delta corner (or right/rear) of the home and were spreading quickly. Flames could also be seen in the rear window of the home. Engine 1's crew worked to douse the flames from the exterior (quick hit) before moving into an interior fire attack. Engine 2 crew operated pumps and pulled a second line focused on the left exterior wall. Mutual aid department crews shut down utilities and pulled eaves and soffits to assist in extinguishing the blaze. Ladder 3 crew was assigned RIT when they arrived. Once the fire was extinguished (quickly), ventilation of the home began and





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the walls and ceiling where the fire was located were opened to ensure there were no fire extension fires. On the interior of the home, the Fire Inspector found the kitchen heavily damaged by the fire, as was the porch that extended from the kitchen. It had, prior to this fire, been covered by a roof and enclosed by walls made of 2x4 and plywood, that no longer existed. Content/property loss was estimated to be around \$45,000, but no injuries or loss of life was reported.

Residential Fire- June 30th, 2021

In the very early morning hours of June 30th, 2021, dispatch called for a structure fire on Vinewood. Crews arrived to find an active fire in the attached garage of the home. Ladder 3's crew stretched a 1.75" line to begin attacking the fire and was quickly joined by Engine 2's crew who assisted by gaining entry into the garage with a K-12 saw. Rochester Hills Fire and Independence Township both



assisted AHFD with mutual aid. The utility companies were notified, but Consumer Energy stated the gas had already been locked out to the home. DTE also informed AHFD that there was an illegal electrical hook up to this structure that had been disconnected. The fire inspectors arrived on scene to investigate. Several people at the scene were interviewed about the incident and their observations. One occupant had to flee the fire through a window. A thorough interior investigation was conducted, noting small areas of ceiling missing as the crew checked for fire extension. Very little fire smoke or water damage was evident in the living portion of the home, but the mudroom, which shared the garage roof showed smoke damage. It was reported that the people staying in the home were squatters and had been told to vacate. Although this fire caused approximately \$20,000 worth of damage, no lives were lost, and no injuries reported.





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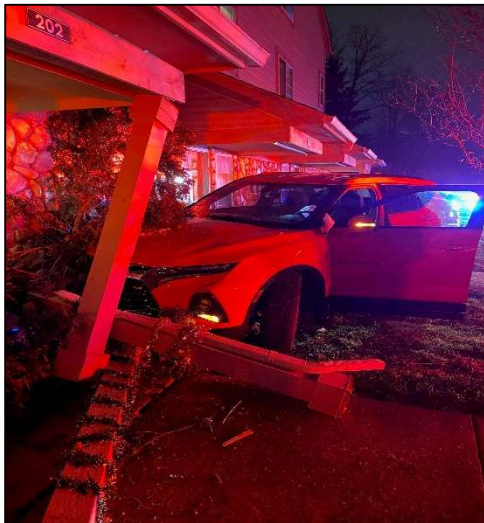
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Medical Run-December 20, 2021

On the morning of December 20th, firefighters were dispatched to a residential home from a call by the homeowner claiming a plumber was in the crawlspace working on her home. A loud noise was heard, and the plumber did not respond to the caller when checking on him. When crews arrived, they found the plumber lying in standing water, unable to speak or move. Electrical service was cut to the home for safety. After safe entry way was determined, personnel entered the crawlspace to perform an assessment of the patient. It was found he had clear signs of a stroke. The rescue team then had to maneuver themselves in tight, water-filled quarters to remove the plumber from the crawlspace and place him on a stretcher for transport as quickly as possible. Once at the hospital, ER staff confirmed a hemorrhagic stroke. If not for the heroic, rapid actions of the firefighters, along with the swift thinking by the caller and dispatch, the patient may not have survived.

Car Accident-December 31, 2021

AHFD was dispatched for reports of a vehicle slamming into an apartment building and hitting a gas meter on the last day of the year. When crews arrived at the scene, they found all passengers were safely out of the vehicle. The vehicle had hit the curb, taking out four (4) porch overhang supports to two (2) different apartments and compromised a third porch overhang. A Chevy Blazer was involved, but there were no reported injuries, and it was confirmed that utilities were not compromised. Fire personnel removed a downed tree from one of the apartment entrances and reset the support beams for the overhangs until the complex contractor could arrive.





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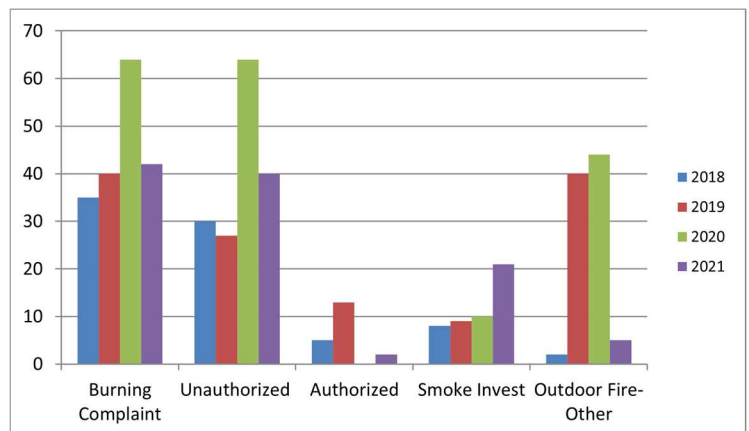
Outdoor Burning Complaints

[Captain John Hering]

Each year, the City of Auburn Hills allows open burning during two (2) separate timeframes pursuant to the City's Fire Prevention Ordinance. During the Spring and Fall season, residents are allowed to burn small amounts of leaves or brush. The City also allows for residents to obtain a bonfire permit which allows for controlled burning of seasoned firewood with specific regulations for the time, day, spacing, and size. If a person calls 911 to report an uncontrolled fire in the city or witnesses a resident in violation of these guidelines, AHFD is called out to the scene and these incidents are classified as an outdoor burn complaint. In 2021, AHFD responded to a total of 110 incidents related to outdoor burning, which is approximately 65% lower than the number of incidents recorded in 2020. Of the 110 complaints, forty-two (42) incidents were related to burning leaves.

Burning Complaint Types by Year*				
Run Disposition	2018	2019	2020	2021
Burning Complaint	35	40	64	42
Unauthorized Burning	30	27	64	40
Authorized Burning	5	13	0	2
Smoke Investigation	8	9	10	21
Outdoor Fire - Other	2	40	44	5
Total	80	129	182	110

During the Spring season, a total of two (2) leaf burning calls occurred, with one (1) being in accordance with the leaf burning ordinance. During the Fall season, a total of twenty-two (22) leaf burning calls occurred, with seven (7) being in accordance with the ordinance. The other eighteen (18) incidents in 2021 were considered "out of season". If the fire was either outside of the ordinance or was considered a nuisance, the residents were asked nicely to extinguish their fire. In the time from 2018 to 2021, the total number of burning complaints and unauthorized burning has significantly increased; with the number of burning complaints increasing by twenty (20), and the number of unauthorized burns increasing by thirty-four (34).





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EMERGENCY MEDICAL SERVICE

[Administrative Officer Owen Milks]

Emergency medical services (EMS) are needed for a variety of incidents. EMS is a complex system of knowledgeable individuals working together to mitigate medical emergencies, transport patients to the hospital, and save lives. EMS incidents can range anywhere from heart attacks and strokes to back pain and headaches. In 2021, EMS accounted for 72.2% or a total of 2,995 calls for service at AHFD.

Most Common Medical Complaint Types

During 2021, the top ten (10) medical run dispositions included general sick person, falls, unknown problem (person down), traffic/transportation incidents, breathing problems, non-traumatic chest pain/discomfort, psychiatric emergencies, unknown problems with a downed person, lift assist with no injuries, and abdominal pain/problems. Of these top ten 2,424 medical incidents during 2021, the highest chief complaint dispatched was a sick person which accounted for 35% of all medical incidents. The sick person category was followed by falls at 11% and then by unknown problems with a downed person at 9%.

Top 10 Medical Run Dispositions		
Call Complaint	# Of Calls	Percentage
Sick Person	833	35%
Falls	275	11%
Unknown Problem (Person Down)	221	9%
Traffic/Transportation Incidents	206	9%
Breathing Problem	196	8%
Chest Pain/Chest Discomfort (Non-Traumatic)	170	7%
Psychiatric Emergencies	156	6%
Unconscious/Fainting/Near	148	6%
Lift Assist-No Injuries	121	5%
Abdominal Pain/Problems	98	4%



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Cardiac Arrest Incidents

In 2021, there were a total of twenty (20) medical emergencies involving cardiac arrest patients. Despite a small decrease from 2020, the number of incidents involving cardiac arrest patients over the past five years has been an average of twenty-three (23.4) incidents per year. To combat cardiac arrests, the Auburn Hills Fire Department has invested in LUCAS CPR devices, better training for cardiac arrest incidents, and more effective incident mitigation.

Cardiac Arrest Incidents					
Month:	2017	2018	2019	2020	2021
January	1	3	0	2	2
February	0	2	2	2	3
March	0	1	1	2	2
April	1	0	4	3	2
May	4	3	1	3	2
June	0	3	1	2	3
July	3	3	3	2	2
August	1	0	4	1	0
September	2	2	3	2	0
October	4	3	2	2	2
November	0	4	5	2	0
December	2	1	3	2	2
Total	18	25	29	25	20

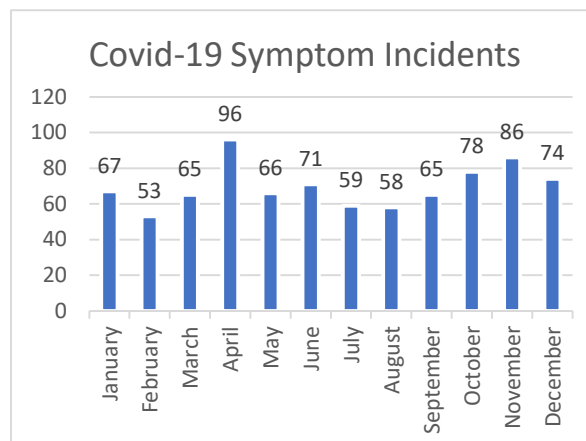
Emergency Medical Incident Response Times

Average EMS Response Time	
Priority	6m 31s
Non-Priority	7m 35s

When EMS calls are dispatched, they are classified as priority calls or non-priority calls. Priority calls would include strokes, heart attacks, car accidents, traumatic injuries, and life-threatening injuries; non-priority calls would include headaches, lift assists, minor injuries, anxiety, small cuts/bruises, dizziness, and non-life-threatening injuries. In 2021, AHFD had an EMS priority response time of six (6) minutes and thirty-one (31) seconds and a non-priority response time of seven (7) minutes and thirty-five (35) seconds.

COVID-19 Symptom Incidents

Throughout the pandemic, a variety of symptoms have been linked to COVID-19. To better protect the department's personnel and the citizens of Auburn Hills, AHFD tracked every service call which involved a patient with COVID-19 symptoms. The symptoms that were tracked included shortness of breath, nausea/vomiting, weakness, fever, and respiratory





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distress. Since patients requesting EMS did not always have a prior COVID-19 test, it has been and continues to be necessary to treat these unknown medical issues as a possible positive exposure to the virus by donning proper personal protective equipment (PPE) and minimize patient exposure if possible.

There was a total of 838 service calls that were tracked as possible COVID-19 cases. The highest occurrences of COVID-19 symptoms and possible COVID-19 positive cases were seen in April which accounted for ninety-six (96) calls or 11.5% of all possible COVID-19 calls in 2021. The City of Auburn Hills has faced many challenges during the pandemic including continuous virus exposure. During 2021, AHFD tracked approximately 28.0% of all calls to be related to COVID-19 or presenting COVID-19 symptoms.

Medical Service Revenue

The total amount of EMS fees billed in 2021 was \$1,228,582 whereas the total revenue/amount collected was \$739,218. The total amount collected increased by \$34,348 as compared to 2020.

<u>Year:</u>	2020	2021
Billed	\$ 1,051,553	\$ 1,228,582
Collected	\$ 704,870	\$739,218

In 2021, the largest monthly amount billed was found in October while the largest amount collected was found in December. The highest amounts billed were \$141,319 in October and \$115,026 in April. Sixty percent (60%) of the amount billed was collected this past year. Compared to last year's medical revenue, the department billed \$177,029 more and collected \$34,348 more in revenue. The significant increase results from the increase in runs compounded by the ongoing pandemic.

2021 Monthly Medical Revenue		
<u>Month:</u>	Billed	Collected
January	\$103,131	\$52,454
February	\$93,398	\$59,128
March	\$87,390	\$67,411
April	\$115,026	\$45,402
May	\$93,186	\$71,403
June	\$114,885	\$59,079
July	\$99,426	\$58,364
August	\$111,275	\$64,471
September	\$63,563	\$50,867
October	\$141,319	\$52,937
November	\$107,575	\$76,913
December	\$98,408	\$80,789
Total	\$1,228,582	\$739,218



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SIMULTANEOUS (CONCURRENT) INCIDENT DATA

A large amount of simultaneous or concurrent incidents has been occurring and increasing over the years in Auburn Hills. When concurrent calls occur, our department cannot always handle the emergency call needs and rely on mutual aid from other agencies. In 2021, there were a total of 1,392 concurrent incidents which is a 24% increase from 2020 resulting from the overall increased call volume.

Concurrent Calls by Amount	
Number of Instances	# Of Calls
Instances of 2 Concurrent Incidents	998
Instances of 3 Concurrent Incidents	286
Instances of 4 Concurrent Incidents	69
Instances of 5 Concurrent Incidents	18
Instances of 6 Concurrent Incidents	12
Instances of 7 or More Concurrent Incidents	9
Total	1392

OVERALL MUTUAL AID ASSISTANCE

As mentioned previously, when AHFD is unable to respond to an incident due to concurrent incidents or personnel needs, the department utilizes mutual aid. When the department is not responding to incidents and another agency requires aid, AHFD also provides mutual aid. In 2021, AHFD assisted nine (9) different agencies in providing mutual aid and received mutual aid from nine (9) different agencies. AHFD

Mutual Aid by Department		
Agency	Mutual Aid Given	Mutual Aid Received
RHFD – Rochester Hills Fire Department	29	37
Star EMS – Privatized EMS	1	7
ROC – Rochester City Fire Department	7	22
ORION – Lake Orion Fire Department	21	5
WRFD – Waterford Regional Fire	3	0
BTF – Bloomfield Township	2	9
WBFD – West Bloomfield	0	0
INDF – Independence	1	8
OAT – Oakland Township Fire	7	2
HAZMAT	0	1
Medstar Ambulance	0	1
Oxford	1	0
Total	72	92

provided or gave mutual aid at seventy-two (72) incidents and received mutual aid ninety-two (92) times. Like the 2020 results, most of our mutual aid activity is with our neighboring Rochester Hills Fire Department (RHFD), followed closely by the city of Rochester and Lake Orion.



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2021 Mutual Aid Requests	
Type of Mutual Aid	# Of Instances
MA Received	52
AMA Received	40
MA Given	58
AMA Given	14
Structure Fire MA – Given/Received	27

Mutual aid can be broken down to additional classifications as detailed in the table to the left. Automatic mutual aid (AMA) is when outside identified agencies in advance are dispatched based on the type of incident classification from the onset of a 911 call for help. Mutual aid (MA) is when a department personally requests assistance on the way to an incident or on scene when there is a need.

TRAINING DIVISION

The Auburn Hills Fire Department is committed to providing the highest level of service to the citizens, businesses, and visitors of Auburn Hills. To accomplish this, AHFD's training division provides the most current and comprehensive fire and EMS training to the members of the department, ensuring that AHFD's firefighters are equipped to perform their duties effectively and efficiently on every call for service throughout the city. Fire and EMS operations require significant annual training to ensure all federal and state regulations are completed. COVID-19 greatly continued to impact the way in which training had to be conducted. The traditional method of gathering all stations together to train had to be limited and modified to comply with COVID-19 restrictions and keep our personnel safe and healthy. New methods were utilized to deliver training content virtually including Microsoft Teams. The information was able to be shared with the group and each station was then able to practice the hands-on skills at their individual stations.

AHFD's Training Committee is tasked with coordinating, planning, and collecting data for AHFD's training division as well as ensuring that all departmental members receive the necessary amount of training to stay proficient with their skills and compliant with MIOSHA requirements. To improve the collection and tracking of training data, the committee explored different learning management software platforms available. After many products were evaluated, Target Solutions was selected as implemented at the start of 2021.





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Departmental Training

In 2021 the department participated in 12,560 hours of training across the different training disciplines. These disciplines include hazardous materials, technical rescue, driving, EMS, fire suppression, officer development, and fire prevention education. This was an increase of 6,628 hours despite still dealing with COVID-19 restrictions. The significant increase in the total number of training hours for our department is a result of the department's commitment to improve our tracking and data entry of all training into Target Solutions. The department averaged 1047 training hours per month.

2021 Training Hours		2020 Training Hours	
Training Type	Number of Hours	Training Type	Number of Hours
Drivers Training	871.25	Drivers Training	521.00
EMS Training	3638.50	EMS Training	1333.00
HazMat Training	524.75	HazMat Training	101.00
Technical Rescue Training	246.00	Technical Rescue Training	0.00
Officer Training	2443.55	Officer Training	477.00
Suppression Training	4558.14	Suppression Training	3500.00
Prevention Training	278.25	Prevention Training	0.00
Total Training	12560.44	Total Training	5932.00

Between the department's seven (7) main training categories, suppression training accounted for the most training with 4558.14 hours; EMS training was second with a total of 3638.5 hours (please see tables above).

With the goal in mind always improving personnel's knowledge and ensuring the most up-to-date training information is learned, Lieutenant Riedy implemented a daily shift training outline for personnel to follow and strengthen their basics hands on skills. The following chart shows the suggested training activities for the shifts to use as a guideline. The training committee is working on developing an EMS training equivalent

AHFD Daily Shift Training	
Monday	"Mask-Up Monday" (Mask-up procedures while sitting, kneeling, standing and walking. Work towards accomplishing this with fire gloves on. Breathe down a bottle and work through air emergencies. Utilize the RIT pack making all connections. Do a mask swap on your partner. Practice radio comm. and calling a MAYDAY. Clean and inspect your mask after each use).
Tuesday	"Tag a Hydrant Tuesday" (Check out hydrant locations in your district. Think about parking, length of LDH needed, forward/reverse lays or pull by hand. Organize, clean, lubricate and operate hydrant ops equipment. Tag, flush and dress your hydrant. Winter time? Use the hydrant pump).
Wednesday	"Waterway Wednesday" (Aerial waterway, deck gun, blitz nozzle-OH MY! When are they appropriate during offensive/defensive ops? What are the benefits/limitations? What should PSI be? Setup, operate and clean the equipment. Place apparatus to the best tactical advantage).
Thursday	"Throw a Ladder Thursday" (Size, type and parts of a ladder. Types of carries/raises. Placement of ladders during ventilation/rescue and angle. Watch videos of VEIS. Properly secure your halyard. loop, swoop and pull? I think knot, no pun intended! Climb and work from the ladder. Clean, lubricate and inspect your ladders).
Friday	"Fire Attack Friday" (Exactly how far is 200ft? Show me! Stretch handlines: straight/sidewalk/split. Operate nozzles: stream and pattern types. Advance lines around obstacles while upright/ground level. Deploy high-rise hose and create a horizontal standpipe. A correctly loaded line will aid in proper deployment. Your training, or lack of, will show the rest).
Saturday	"Size-Up Saturday" (Drive your district and practice size-ups on residential/commercial structures. Use your imagination: Where is the fire located? Offensive/defensive fire? What are your initial actions? Is a greater alarm needed? Assume command, and utilize the Blue Card tactical sheet. Give a size-up while watching fire videos. Talk strategies and tactics. Review communication and command policies).
Sunday	"Self-Reflection Sunday" (Are you mentally and physically prepared? Do you know your strengths/weaknesses? If so, are you working to improve? Do you participate in training? If not, why? Do you have questions or need help? Ask!)



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Fire Suppression Field Training

In addition to the department's regular scheduled annual training requirements, the firefighters also participated in high quality realistic training at the Combined Regional Emergency Services Training (CREST) center at Oakland Community College and in acquired structures within the city. At the CREST training center, the crews were able to spend a significant amount of time training and working on realistic training scenarios that closely mimic practical hazards or problems they may encounter at actual incidents. Acquired structures are typically vacant buildings that are scheduled to be demolished, or significantly renovated and can be used for aerial operations, ladder placement operations, search and rescue, Rapid Intervention Team (RIT) training, pump operations, active assailant training, hose deployment, and fire attack.

The department also completed training for all full-time personnel in several industry safety standards such as confined space awareness, NHTSA incident traffic management system, and solar panel awareness and safety training. These trainings give personnel the knowledge to operate safely in an environment that poses significant safety risks.

Incident Command Training

The department also focused on incident command training for all personnel this year. All full time personnel completed 50 hours of online Blue Card Hazard Zone Management system. This program teaches all members to properly "size up" a building and manage the initial stages of a structure fire, by initiating command, performing a risk assessment, developing tactical objectives, and assigning resources. Managing the initial stages of a structure fire in a systematic, consistent manner allow us to operate in the most efficient and safe environment possible.

SPECIALTY TEAM PARTICIPATION

Through continuous training and practice, AHFD can respond, establish effective command, and begin to mitigate specialty incidents such as hazardous material or technical rescue incidents. When a special incident requires advanced responses, both the County Hazardous Material Team and/or the Technical Rescue Team can be requested as mutual aid. AHFD currently have two (2) personnel and three (3) personnel members who are an active on the MABAS 3201 Hazardous Material and Technical Rescue specialty teams respectively.

Hazardous Material Team

[Firefighter Sumi Dinda]

AHFD has been participating in the Oakland County Hazmat team (OCHMRT) since its formation in 2002. The primary objective of the team is to provide guidance and technical expertise in the



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mitigation and removal of hazardous substances. Other responsibilities include:

- perform air monitoring for any incidents for the safety of the fire personnel and the citizens of the community;
- respond to all hazmat related calls in Oakland County including industrial hazardous material incidents, hazardous materials complaints, suspected terrorist incidents, clandestine drug lab sites, tanker truck rollovers, train derailments;
- support the MSP Bomb Squad and
- and support the Federal Bureau of Investigation (FBI) at terrorism incidents.

The OCHMRT consists of a highly trained unit of Hazardous Materials Technicians and Specialists delivering emergency response staffing twenty-four hours a day. The team consists of volunteer members from the thirty-one fire departments belonging to MABAS-3201. AHFD Firefighter/Paramedics Sumi Dinda and Alan Lee represent AHFD as team members of the OCHMRT (training pictures to the right). As a certified State of Michigan Hazmat Specialist, FF Dinda has taught Hazmat awareness and operations to new recruits since 2008. Every year AHFD volunteers to host the Hazmat portion for the North Oakland Fire academy.



A few OCHMRT hazardous material incident requests that occurred in 2021 were:

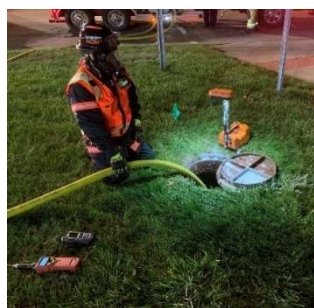
Within City of Auburn Hills:

- Semi-truck accident on I75 and M59 Interchange for a significant diesel spill (October 2021).
- High level of radiation readings at a local business (October 2021).



Outside of Oakland County

- Assisted Michigan State Police on a butane hash-oil (BHO) laboratory mitigation in Clinton Township, Macomb County (June 2021).
- City of Flat Rock in Wayne County for a large fuel spill that entered the sewer system (September 2021).





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Technical Rescue Team

[Firefighter Gary Chapman]

Technical rescues have included incidents in the past such as confined-space rescues, high/low angle rope rescues, collapsed structure rescue, ice rescue, water rescue, trench rescue, and many other major emergency incidents requiring specialized response. AHFD currently has three (3) members on the MABAS County Technical Rescue Team (TRT); representing each of the suppression shifts on the team (Firefighters Chapman, Randolph, and Lewandowski). Each of these members must meet minimum requirements of trainings and deployments annually to be considered an active member of the County TRT team.

FIRE PREVENTION

The Fire Prevention Bureau (FPB) consists of two (2) fire inspectors who manage all plan reviews, building inspections, permitting, hydrant testing, suppression system testing, alarm system testing, and occupancy data for the entire City of Auburn Hills. The fire inspectors handle all 1482 businesses within the city limits, from small occupancies such as gas stations to larger occupancies such as Fiat Chrysler Automobiles or Great Lakes Crossing Mall. The fire inspectors are also responsible for handling hazardous material classification and pre-incident plans for 233 occupancies that exceed regulated quantified thresholds as decided upon by the State of Michigan for hazardous materials.

Plan Reviews and Inspections

[Fire Inspector Fred Solomon]

Fire inspectors are tasked with varying types of inspections, permit issuance, and pre-plan operations. In 2021, the total number of inspections increased by a total of seventy-three (73) inspections or 15.5% as compared to 2020. The number of annual inspections decreased by five (5) or -4.8% and follow-up inspections increased by sixty (60) inspections or 46% compared to 2020.

Inspections (Yearly Totals)			
Inspection	2021	2020	2019
Annual	99	104	176
Final Building	66	67	73
Suppression/Detectio	98	125	191
Follow-Up	190	130	360
Incident Preplanning	0	1	8
Complaint	21	5	14
Bonfire Permit Issued	28	22	27
Knox Box Updates	43	18	17
Total	545	472	866



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The fire inspectors are accountable for all plan reviews in the city. Plan reviews are required for any new suppression systems, building additions, temporary event plans, pyrotechnic events, and any site plans for new occupancies or buildings. In 2021, the total number of plan reviews increased by two (2) or 1.3% as compared to 2020.

2021 was a busy year for the Prevention Division as inspection activities ramped up from the COVID related restrictions of 2020. Inspector Fred Solomon and Inspector Jon Toss were busy with inspections as building and remodeling permits were again being sought. In addition to building related inspections, 2021 saw the inception of a Hotel Inspection Task Force Team. The Fire Prevention Division partnered with the Community Development Department to inspect the local hotels for compliance and safety.

The department also implemented a new Fire Watch Documentation program this year. When businesses have an issue with their fire alarm system or their sprinkler system, they are required to perform a fire watch and document the proceedings. For the remainder of the time the systems are down, the company must appoint a person, or persons to walk the building and keep a log of their watch for the safety of the occupants of the building.

Dual Enrollment (Recruitment)

The Auburn Hills Fire Department has partnered with two community colleges and Avondale High School to offer a fire service career to our community high school students. Students aged 16 through 18 can enroll in fire academies at either Schoolcraft or Oakland Community Colleges through the State of Michigan Fire Cadet Program. High school students can earn Firefighter I and II certificates as juniors and a State Emergency Medical Technician license as a senior. This will allow them to step right into a firefighting career upon graduation or shortly thereafter. The high school state tuition funding will cover most of the cost of the program and the fire department

Plan Review (Yearly Totals)			
Plan Review Type	2021	2020	2019
Site	74	59	94
Suppression	31	55	86
Detection	42	27	76
Temporary Event	7	11	17
Pyrotechnic	0	0	2
Total	154	152	275





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will provide the uniforms and gear. This is an excellent opportunity for our community students, as well as a rewarding recruitment tool for the department.

Hazardous Material Disclosures/Firefighter Right to Know

[Fire Clerk Dawn Schultz]

On April 7th, 1986, the State of Michigan enacted a three (3) bill public health and safety package into law; the three (3) laws included Michigan's Right to Know Law, Firefighter Right to Know Law, and Community Right to Know Law to protect employees, first responders, and communities. These laws were created in coordination with the Occupational Health and Safety Administration's (OSHA) hazard communication standard. Every year, any business storing or using substances that are deemed hazardous in Auburn Hills must submit a hazardous material disclosure survey to AHFD to be compliant with Federal Firefighter Right to Know (FFRTK) laws. In the instance of an emergency, these disclosures are necessary to protect all responding agencies and departments in being aware and prepared to mitigate any hazardous substance releases/spills or potential hazardous explosions as quickly as possible. The department continues to assure that all known hazardous material sites have been updated and incorporated into a mobile GIS application where our first responders have easy access to this pertinent information to help respond more safely to these dangerous sites.



Hazardous Material Site Permitting

Once AHFD requests this information, businesses are to complete their hazardous material disclosure, after they complete and return their disclosure, the Fire

Prevention Bureau classifies the facility as a "Red", "Yellow" or "Green" site, depending on the types/quantities of the hazardous substances on site and whether they surpass thresholds set by the State of Michigan. After classification, each "Red" and "Yellow" business site is charged an annual permit fee. A third category for occupancies classified as "Green", do not require a hazmat permit because their stored materials are considered nonhazardous such as common cleaning supplies or minimal substances.

Hazardous Material Reporting				
Business Classification	2018	2019	2020	2021
Red	80	85	93	106
Yellow	142	146	130	127
Total	222	231	223	233
Permit Fees Collected	\$68,400	\$71,700	\$72,300	\$77,900



Fire Department

Auburn Hills Fire 1899 N. Squirrel Road, Auburn Hills, MI 48326

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There were one hundred and six (106) “Red” businesses and one hundred and twenty-seven (127) “Yellow” businesses totaling to two hundred and thirty-three (233) known businesses storing or utilizing hazardous materials. During the past four (4) years, the cost recovery received from the program has increased by an average of 12.20% or by approximately \$2,375 per year.

By continuously working on this program, the department also creates and maintains better relationships with businesses in the city. The hazardous material program continues to grow and allows the department wide knowledge of hazardous material sites within the city.

Public Education/Community Risk Reduction/Community Outreach

The department had limited opportunities to provide public education to the community, neighboring businesses, and schools in the city due to the continuation of the COVID pandemic. Fire extinguisher classes were held only for companies requesting their employees to be trained and educated to properly use a fire extinguisher. Senior Citizens were also included in educational opportunities. The File of Life program was presented to a group of seniors who were shown how this program helps inform emergency personnel of a patient’s health status and prescribed medications upon arrival. The Emergency Triage, Transport, and Triage (ET3) program was also shared in efforts to provide more and better options for the next level of care for Medicare recipients. There are three (3) certified child safety seat technicians in the department. These technicians were able to inspect forty-two (42) car seats for safety and proper installation in 2021.



Helping Hands

AHFD’s Helping Hands program is a non-profit organization managed by several firefighters in the department. This program donates both time and money to in-need citizens within the community. The Helping Hands program is essential in building community relationships between the department and the city while giving aid to those needing it most.

2021 Helping Hands Highlights:

- Provided funding for the holiday Meals on Wheels Program
- Donated food, gift cards, presents, and other aid for fifteen (15) families during the holidays
- Supplied burnout assistance and donated to victims of fire damage





Fire Department

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Spooktacular Participation

Again, this year the department's annual fire prevention Open House had to be canceled due to COVID-19. AHFD still wanted to be active in the community. Through participation in the City's Spooktacular event, both department Fire Inspectors were able to safely hand out goodie bags to over 350 children. Each goodie bag contained fire educational resources, AHFD logo apparel, a fire helmet themed water bottle, a handful of candy, and useful school supplies. The fire department's union also played a part in this event by donating eight (8) large bags of candy. The event was a large success, despite the inclement weather, and allowed for a safe and fun way to enjoy Halloween for both children, teens, and adults alike.



Meals on Wheels

For the 11th consecutive year, senior citizens of Auburn Hills who are homebound have received meals prepared and distributed by the fire department. Firefighters cooked, packaged, and hand delivered 42 meals on Thanksgiving to seniors in need of assistance. Christmas Day another eighteen (18) people were given 2 meals a piece for a total of thirty-six (36) holiday dinners cooked and delivered. AHFD also assists the Auburn Hills Community Center in this generous and helpful venture throughout the year in delivering meals.

