



Mukwonago Fire Department Annual Report 2018

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Mission Statement

It is the mission of the Mukwonago Fire Department to provide a range of programs designed to protect the lives and property of the inhabitants of the Village and Town of Mukwonago from the adverse effects of fire, sudden medical emergencies or exposure to any dangerous condition created by either man or nature.

Vision Statement

The Mukwonago Fire Department will continually strive to exceed our citizen's expectations working within a healthy, safe and innovative environment that enhances the professional and efficient delivery of emergency services. We also strive to be an organization providing community safety education and information keen to anticipate, influence and embrace change

Core Values

Integrity – openness, honesty, loyalty and honor; leading through example to achieve a common goal by actions

Professional Development – commitment to continually expand the abilities of personnel, encourage continuous education and advancement opportunities as becoming officers

Accountability – all personnel, management and otherwise providing a level of accountability to each other and the community and the implementation of responsible measuring

Teamwork – develop and maintain a sense of family camaraderie and loyalty to one another and to the community; provide a sense of help and encouragement for all and by all

Innovation – progressive, pro-active, modern, open and creative; open and receptive to all input and feedback

Chief's Report

I appreciate you taking the time to see whom we are and what we do. Should you have further questions or are interested in joining this organization you can contact us. We are always looking for additional highly motivated and team oriented people to join our staff.

In 2018, MFD total call volume reached 2241 calls. That is a 6.6% decrease from 2017. Majority of the decrease was due to staffing levels for paid on premise (POP) and the ability to fill requests for inter-facility transports. Due to budgetary constraints we had to freeze a POP position during the weekdays and adjust staffing hours on weekends. This brought staffing to two full time, two POP and the Duty Officer for daytime coverage. The additional challenge was several full time departments are hiring and we lost 4 POP staff to those departments. As it is great to see your staff succeed it also takes very qualified staff from our ranks. All these challenges resulting in only being able to fill the POP positions 55% of the time. We will be making some adjustments in 2019 to address these challenges. MFD responded to several working structure fires in 2018. Unfortunately, there was one fire fatality in the town. As we examine our operations we have taken an emphasis on transitional firefighting and trying to predict fire flow.

The department consists of Paid on Call (POC), Paid on Premise (POP) and 7 full time staff, including the Fire Chief. Additionally there are two POP staff from 6am to 6pm Monday thru Friday and two POP 0800-1800hrs and one POP 0600-1800hrs on the weekends. POC staff 6pm to 6am seven days a week on a rotating schedule. We have seen an increasing trend of staff coming from outside the village and town of Mukwonago. POC membership is declining nationally and MFD not immune to this trend. We have seen a cultural change towards paid part time staff during the daytime hours seven days a week. The struggle is that area departments are competing for the same pool of POP staff.

We had a major remodel and addition to Station #1 in 2018. We added six more sleeping quarters, added a new day room and patio, remodeled the kitchen, and updated the flooring in the training room, hallways and old sleeping quarters. This helped add additional areas for staff that live outside of the response area a nice place to sleep. We are currently developing an intern program and hopefully will roll out late 2019.

Everyone is welcome any time to stop in, meet your firefighters, and look at your apparatus. I encourage everyone to stop in and see the new apparatus. As well as responding to calls, members spent numerous hours in training and education to keep their skills at top levels. Enjoy the following more detailed information in the following pages.

Sincerely,

Jeffrey R. Stien
Fire Chief

Role of Mukwonago Fire Department Personnel

Save life, Protect Property, Render Assistance... IN ADDITION...

The role of today's fire department personnel is quite different from that of years past. The fire service is constantly changing to meet the needs of the community under ever changing times.

Mukwonago Fire Department Personnel need to possess certain attributes in order to be successful in the role of Firefighter/EMT: commitment, dedication, integrity, confidence, resilience, adaptability, effective communication skills.

A common image of the firefighter is that of fighting fires. The reality is this is a small fraction of the role. Personnel are cross-trained in fire and EMS skills. This is effective utilization of the limited number of personnel on the Mukwonago Fire Department. Fire and EMS personnel function in a multi-faceted role within these common areas:

Prevention

Bi-annual inspections and education activities that prevent fire, aid in rapid extinguishment, or limiting the loss of life and property.

- Business, school, residential facility, and home safety inspections
- Education presentations in daycare facilities and schools
- Facility tours
- Open house and other public relations activities to enhance the public's perception of the Mukwonago Fire Department.
- Maintain excellent working relationships with other local departments such as Police and Department of Public Works.

Preparation

Maintaining all aspects of the Mukwonago Fire Department and its Personnel in a state of readiness.

- Routine apparatus and equipment checks – observing and checking for needed repairs, replacement, expirations and deficiencies
- Cleaning – apparatus and equipment will last longer and function more effectively. Station cleaning is also important in preparation should the need to open our doors for displaced members of the community.
- Personnel ensuring their own fitness levels are such that they are prepared for the physically and mentally demanding work.

- In house training monthly for EMT's, Paramedics, Fire Department, Duty Company, Rapid Intervention Crew and Dive Team.
- External training at WCTC, Gateway Technical College, seminars or other experiential opportunities to further the knowledge of Mukwonago Fire Department Personnel and to stay current with ever changing technologies.
- Perform administration duties related to records and documentation, thus promoting an overall efficient operation of the Mukwonago Fire Department.

Protection

Programs in place to protect Mukwonago Fire Department Personnel and the community in the event of an emergency.

- Vaccinations against influenza, scheduled TB skin tests, scheduled personal protective equipment inspections and routine cleaning.
- Annual SCBA flow and fit tests
- Annual apparatus pump testing, ladder testing and hose testing
- Fire Code and ordinance enforcement.

Response

Putting necessary items into place to expedite the response of Mukwonago Fire Department in the event of an emergency and safely mitigate any incident.

- Driver training and education regarding safe and prompt responses.
- Familiarizing all personnel with the Mukwonago community.
- Familiarizing personnel in the use of GPS units in all apparatus.
- Be prepared for incidents that not only involve fire and medical emergencies but also:
 - Motor vehicle accidents
 - Hazardous materials leaks
 - Railroad incidents
 - Water and Ice emergencies
 - Natural disasters, and
 - Any other response for which requested.
- Operate apparatus such as engines, aerial devices, water tenders, trailers, ambulances and support vehicles within the vehicle's design parameters so that the apparatus is used safely and effectively.
- Responsible for all firefighting duties involved in the incident necessary to save lives and property, combat, extinguish and/or prevent fires and effectively perform these duties as required under emergency conditions frequently involving considerable hazards.

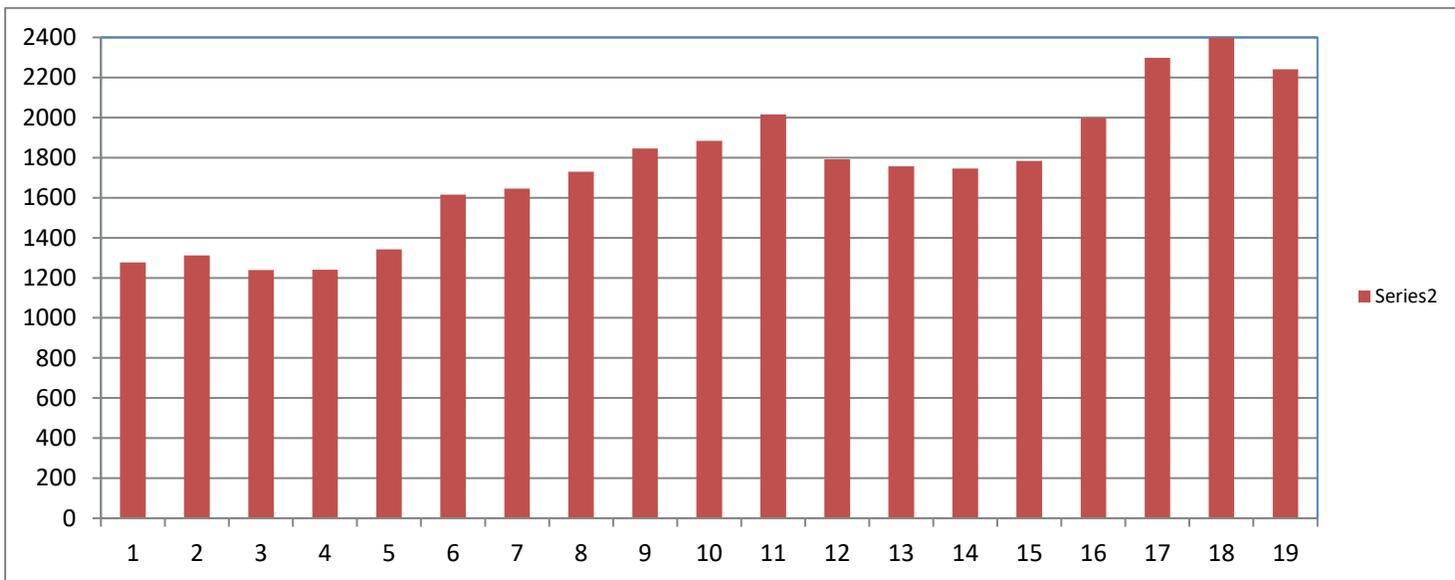
- Provide medical assistance and administer medical procedures to stabilize a patient's condition and prepare them for transport to medical care facilities.
- Safely perform rescue operations for the victim and rescue personnel.

Executive Summary

Year	Total	Total % Change	EMS	EMS % Change	Fire	Fire % Change
2000	1277	0.0				
2001	1312	2.7				
2002	1239	-5.6				
2003	1241	0.2				
2004	1342	8.1				
2005	1615	20.3				
2006	1646	1.9	1361		285	
2007	1730	5.1	1426	4.8	304	6.7
2008	1845	6.6	1537	7.8	308	1.3
2009	1883	2.1	1625	5.7	258	-16.2
2010	2015	7.0	1694	4.2	321	24.4
2011	1791	-11.1	1563	-7.7	228	-29.0
2012	1756	-2.0	1508	-3.5	248	8.8
2013	1745	-0.6	1497	-0.7	248	0.0
2014	1784	2.2	1531	2.3	253	2.0
2015	1998	12.0	1719	12.3	279	10.3
2016	2298	15.0	2020	17.5	278	-0.4
2017	2399	4.4	2117	4.8	282	1.4
2018	2241	-6.6	1994	-5.8	247	-12.4

Started Inter-Facilities 07-06-15

Full year of Inter-facilities





Total Number of Incidents 247

Agency Name	Total Number of Incidents	Total Number of Responders	Average
Mukwonago Fire Department	247	1,227	4.97

Fire Incidents by District

Eagle FD	6
Lauderdale LaGrange FD	1
Other	9
Tess Corners FD	3
Vernon Fire Department	5
Wales-Genesee FD	2
Zone 1 Town NW	21
Zone 2 Town NE	15
Zone 3 Town SW	37
Zone 4 Village	148

Total	247
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Fire District 1, 2, 3 are the Town of Mukwonago and District 4 is the Village of Mukwonago.

Mutual Aid Given and Received

Mutual Aid Given		Mutual Aid Received	
111 - Building fire	1	111 - Building fire	6
131 - Passenger vehicle fire	1	142 - Brush or brush-and-grass mixture fire	1
111 - Building fire	1	311 - Medical assist, assist EMS crew	5
111 - Building fire	1	321 - EMS call, excluding vehicle accident with injury	1
341 - Search for person on land	1	322 - Motor vehicle accident with injuries	7
111 - Building fire	1	324 - Motor vehicle accident with no injuries.	1
611 - Dispatched and cancelled en route	1	671 - HazMat release investigation w/no HazMat	1
111 - Building fire	1		
361 - Swimming/recreational water areas rescue	1		
111 - Building fire	2		
114 - Chimney or flue fire	1		
141 - Forest, woods or wildland fire	1		
142 - Brush or brush-and-grass mixture fire	1		
360 - Water & ice-related rescue, other	1		
735 - Alarm system sounded due to malfunction	1		
111 - Building fire	1		
143 - Grass fire	1		
611 - Dispatched and cancelled en route	2		
111 - Building fire	2		
Total	22	Total	22

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Mutual aid request are made when additional resources or staffing are needed that exceed the current resources or when there is no staffing to handle the call due to being on multiple or other calls. Mukwonago FD is part of MABAS Division 106. The mutual aid requests listed above are for fire calls only.

Types of Incidents

Basic Incident Type Code And Description	Incidents	Percent	Property Loss	Content Loss	Total Loss	Loss Percent
111 - Building fire	22	8.91%	656,000	255,000	911,000	98.10%
113 - Cooking fire, confined to container	3	1.21%				
114 - Chimney or flue fire, confined to chimney or flue	2	0.81%				
118 - Trash or rubbish fire, contained	2	0.81%	1,000	1,000	2,000	0.22%
131 - Passenger vehicle fire	3	1.21%	12,000	500	12,500	1.35%
138 - Off-road vehicle or heavy equipment fire	1	0.40%	600		600	0.06%
141 - Forest, woods or wildland fire	1	0.40%				
142 - Brush or brush-and-grass mixture fire	2	0.81%				
143 - Grass fire	3	1.21%				
153 - Construction or demolition landfill fire	2	0.81%				
154 - Dumpster or other outside trash receptacle fire	2	0.81%	2,000	0	2,000	0.22%
162 - Outside equipment fire	1	0.40%				
221 - Overpressure rupture of air or gas pipe/pipeline	1	0.40%				
311 - Medical assist, assist EMS crew	7	2.83%				
321 - EMS call, excluding vehicle accident with injury	2	0.81%				
322 - Motor vehicle accident with injuries	33	13.36%				
324 - Motor vehicle accident with no injuries.	19	7.69%				
341 - Search for person on land	2	0.81%				
342 - Search for person in water	1	0.40%				
353 - Removal of victim(s) from stalled elevator	1	0.40%				
360 - Water & ice-related rescue, other	1	0.40%				
361 - Swimming/recreational water areas rescue	1	0.40%				
362 - Ice rescue	1	0.40%				
411 - Gasoline or other flammable liquid spill	6	2.43%				
412 - Gas leak (natural gas or LPG)	5	2.02%				
413 - Oil or other combustible liquid spill	6	2.43%				
424 - Carbon monoxide incident	4	1.62%				
440 - Electrical wiring/equipment problem, other	2	0.81%				
442 - Overheated motor	1	0.40%				
443 - Breakdown of light ballast	1	0.40%				
444 - Power line down	1	0.40%				
463 - Vehicle accident, general cleanup	2	0.81%				
481 - Attempt to burn	1	0.40%	0	0	0	0%

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500 - Service call, other	3	1.21%	500	500	0.05%
531 - Smoke or odor removal	3	1.21%			
542 - Animal rescue	1	0.40%			
551 - Assist police or other governmental agency	2	0.81%			
553 - Public service	3	1.21%			
561 - Unauthorized burning	2	0.81%			
571 - Cover assignment, standby, moveup	2	0.81%			
611 - Dispatched and cancelled en route	21	8.50%			
622 - No incident found on arrival at dispatch address	3	1.21%			
631 - Authorized controlled burning	2	0.81%			
650 - Steam, other gas mistaken for smoke, other	1	0.40%			
651 - Smoke scare, odor of smoke	2	0.81%			
671 - HazMat release investigation w/no HazMat	7	2.83%			
730 - System malfunction, other	1	0.40%			
731 - Sprinkler activation due to malfunction	3	1.21%			
733 - Smoke detector activation due to malfunction	8	3.24%			
734 - Heat detector activation due to malfunction	1	0.40%			
735 - Alarm system sounded due to malfunction	8	3.24%			
736 - CO detector activation due to malfunction	4	1.62%			
741 - Sprinkler activation, no fire - unintentional	1	0.40%			
743 - Smoke detector activation, no fire - unintentional	10	4.05%			
744 - Detector activation, no fire - unintentional	4	1.62%			
745 - Alarm system activation, no fire - unintentional	7	2.83%			
746 - Carbon monoxide detector activation, no CO	4	1.62%			
814 - Lightning strike (no fire)	2	0.81%			
Total	247	100.00%	672,100	256,500	928,600 100.00%

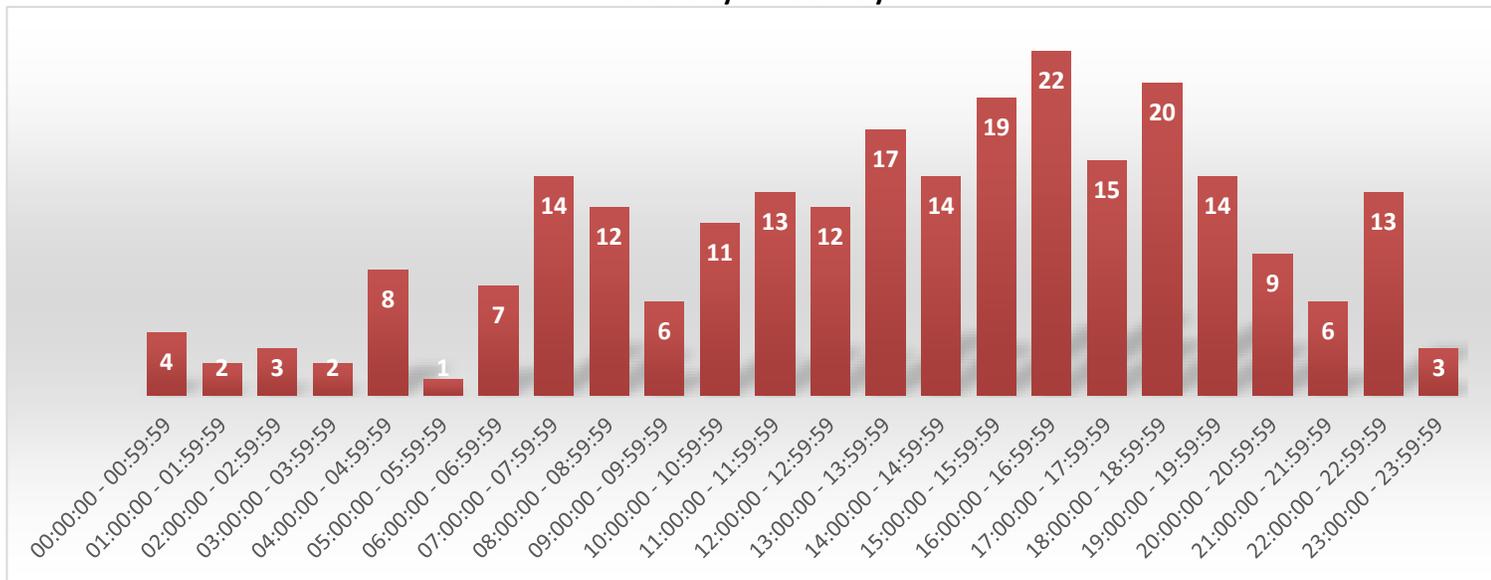
Fire Incidents Alarm Time Analysis

Hour of Day	Number of Incidents
00:00:00 - 00:59:59	4
01:00:00 - 01:59:59	2
02:00:00 - 02:59:59	3
03:00:00 - 03:59:59	2
04:00:00 - 04:59:59	8
05:00:00 - 05:59:59	1
06:00:00 - 06:59:59	7
07:00:00 - 07:59:59	14
08:00:00 - 08:59:59	12

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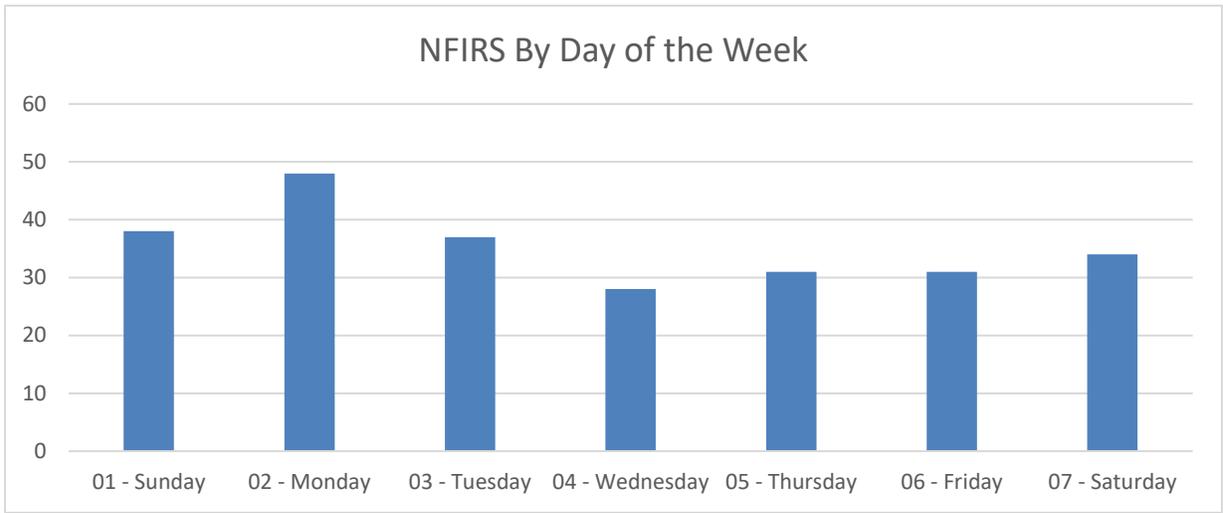
09:00:00 - 09:59:59	6
10:00:00 - 10:59:59	11
11:00:00 - 11:59:59	13
12:00:00 - 12:59:59	12
13:00:00 - 13:59:59	17
14:00:00 - 14:59:59	14
15:00:00 - 15:59:59	19
16:00:00 - 16:59:59	22
17:00:00 - 17:59:59	15
18:00:00 - 18:59:59	20
19:00:00 - 19:59:59	14
20:00:00 - 20:59:59	9
21:00:00 - 21:59:59	6
22:00:00 - 22:59:59	13
23:00:00 - 23:59:59	3

NFIRS Calls by Time of Day



Fire Incidents by the Day of the Week

Day of Week	Number of Incidents
01 - Sunday	38
02 - Monday	48
03 - Tuesday	37
04 - Wednesday	28
05 - Thursday	31
06 - Friday	31
07 - Saturday	34



The charts above indicate that the heaviest call volumes are during 1300-1900hrs. The busiest days of the week are Sunday and Monday for 2018.

Emergency Medical Services



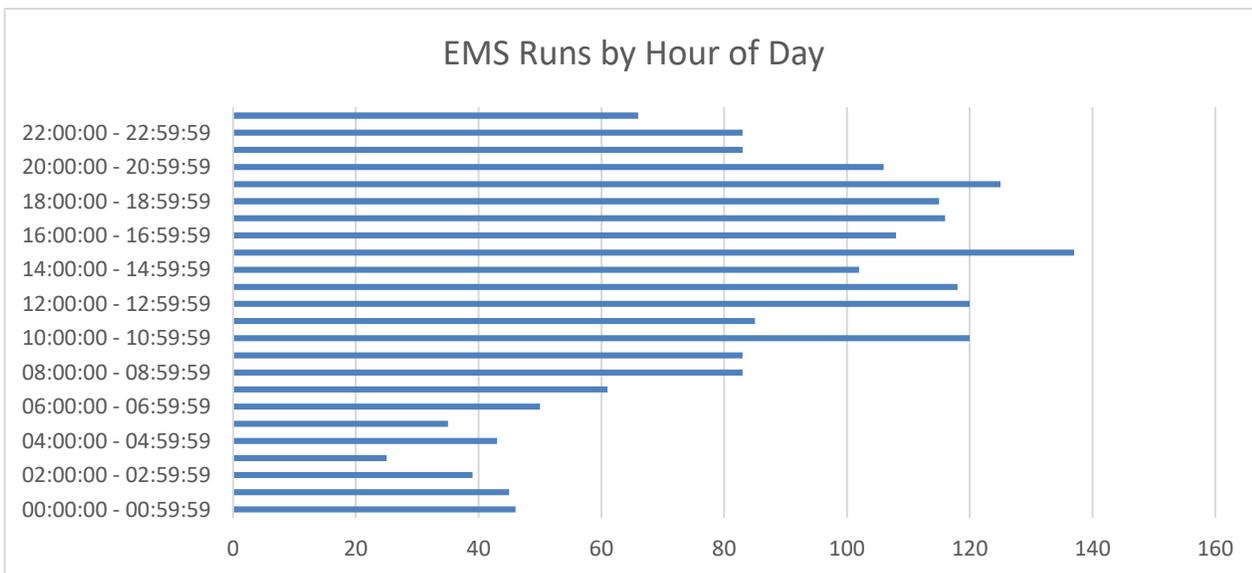
EMS Runs by City

Runs by City 2018

Scene Incident City	Number of Runs	Percent of Total Runs
Village of Mukwonago	1,475	73.97%
East Troy	231	11.58%
Town of Mukwonago	179	8.98%
Eagle	46	2.31%
Big Bend	25	1.25%
Village of North Prairie	24	1.20%
Dousman	4	0.20%
Palmyra	4	0.20%
Vernon	3	0.15%
City of Oconomowoc	1	0.05%
Rochester	1	0.05%
Waterford	1	0.05%
Total	1,994	100.00%

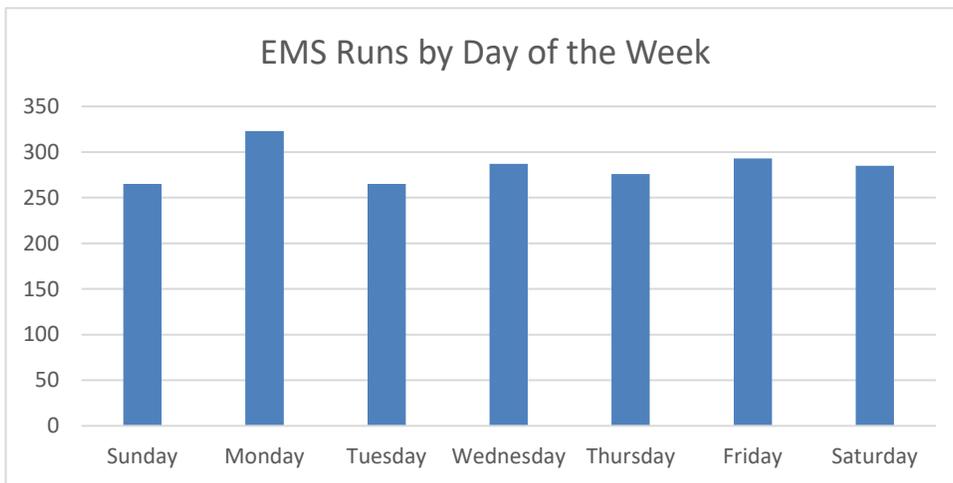
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Incident Hour	EMS Runs	Percent
00:00:00 - 00:59:59	46	2.31%
01:00:00 - 01:59:59	45	2.26%
02:00:00 - 02:59:59	39	1.96%
03:00:00 - 03:59:59	25	1.25%
04:00:00 - 04:59:59	43	2.16%
05:00:00 - 05:59:59	35	1.76%
06:00:00 - 06:59:59	50	2.51%
07:00:00 - 07:59:59	61	3.06%
08:00:00 - 08:59:59	83	4.16%
09:00:00 - 09:59:59	83	4.16%
10:00:00 - 10:59:59	120	6.02%
11:00:00 - 11:59:59	85	4.26%
12:00:00 - 12:59:59	120	6.02%
13:00:00 - 13:59:59	118	5.92%
14:00:00 - 14:59:59	102	5.12%
15:00:00 - 15:59:59	137	6.87%
16:00:00 - 16:59:59	108	5.42%
17:00:00 - 17:59:59	116	5.82%
18:00:00 - 18:59:59	115	5.77%
19:00:00 - 19:59:59	125	6.27%
20:00:00 - 20:59:59	106	5.32%
21:00:00 - 21:59:59	83	4.16%
22:00:00 - 22:59:59	83	4.16%
23:00:00 - 23:59:59	66	3.31%
Total	1994	100.00%



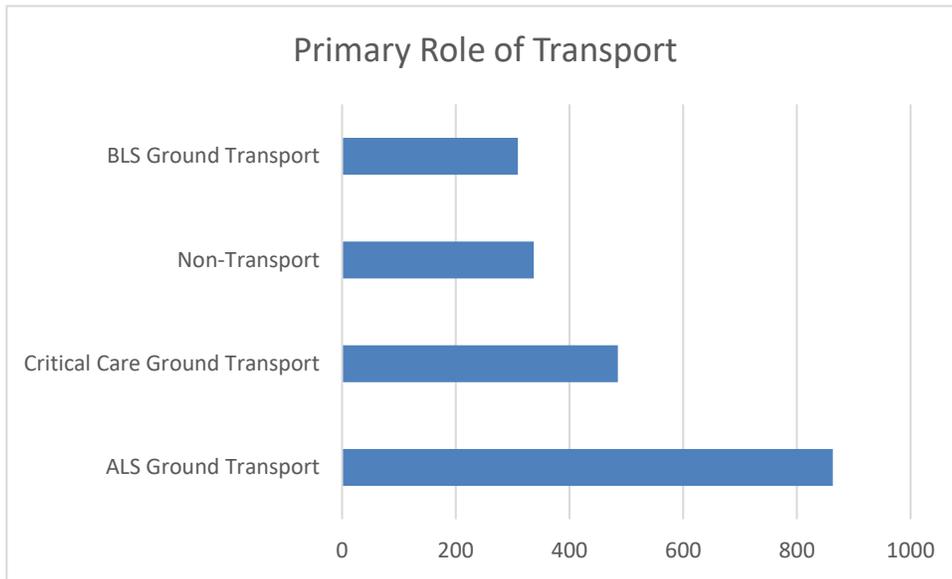
Call Volume by Day of Week 2018

Incident Day	EMS Runs	Percent
Sunday	265	13.29%
Monday	323	16.20%
Tuesday	265	13.29%
Wednesday	287	14.39%
Thursday	276	13.84%
Friday	293	14.69%
Saturday	285	14.29%
Total	1994	100.00%



Runs by Primary Role of Unit 2018

Response Primary Role Of Unit	EMS Runs	Percent
ALS Ground Transport	863	43.28%
Critical Care Ground Transport	485	24.32%
Non-Transport	337	16.90%
BLS Ground Transport	309	15.50%
Total	1994	100.00%



Transport Hospital 2018

Destination Name	EMS Runs	Percent
Cancelled	253	12.69%
Aurora Lakeland Medical Center	18	0.90%
Aurora Medical Center - Summit	27	1.35%
Aurora Medical Center - West Allis	2	0.10%
Aurora Mem Hosp of Burlington	11	0.55%
Children's Hospital of Wisconsin (CHOW)	26	1.30%
Clement J Zablocki VA Medical Center	7	0.35%
Elmbrook Memorial Hospital	4	0.20%
Froedtert Memorial Lutheran Hospital	21	1.05%
Mercy Walworth Hospital And Medical Center	2	0.10%
Mooreland Reserve Health Center	3	0.15%
Not Applicable	1	0.05%
Not Transported	229	11.48%
Oconomowoc Memorial Hospital	3	0.15%
Rogers Memorial Hosp	1	0.05%
St Francis-Wheaton Franciscan-Milwaukee	1	0.05%
St. Lukes Medical Center	11	0.55%
Waukesha Memorial Hospital	1,173	58.83%
Waukesha Memorial Outpatient Center	201	10.08%
Total	1994	100.00%

Mukwonago ER Admissions/Transfers

	2015	2016	2017	2018	2019	2020
Month						
January	X	109	126	116		
February	X	81	86	86		
March	X	106	95	99		
April	X	88	118	114		
May	X	110	93	104		
June	X	94	85	98		
July	95	84	98	128		
August	121	111	102	100		
September	100	92	99	101		
October	90	83	101	104		
November	93	100	97	99		
December	92	117	124	123		

TOTAL 591 1175 1224 1272 0 0

Mukwonago FD Transport 362 814 871 776

Mukwonago % **61.25** **69.28** **71.16** **61.01** **#DIV/0!** **#DIV/0!**

ProHealth Care provided the number of admission and transfer requests related to the Mukwonago ER. The total numbers include any inter-facility transport request. This includes other than a ProHealth Care facility. As you can see the percentage transported by Mukwonago FD declined in 2018 and this is direct result of freezing a Paid on Premise (POP) position, meaning it was not open to be filled due to budget restraints. Other causes include available staffing for POP staff were lower due to several staff being hired full time to other fire departments. As stated by the Chief Stien only 55% of the available POP shifts were able to be filled.

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Provider Primary Impression	Runs	Percent			
None	292	14.64%	Malaise (R53.81)	6	0.30%
History of falling (Z91.81)	97	4.86%	Non-ST elevation (NSTEMI) myocardial infarction (I2)	6	0.30%
Acute pain, not elsewhere classified (G89.1)	87	4.36%	Pulmonary embolism (I26)	6	0.30%
Acute abdomen (R10.0)	73	3.66%	Asthma with exacerbation (J45.901)	5	0.25%
Chest pain, unspecified (R07.9)	71	3.56%	Diarrhea (K59.1)	5	0.25%
Pneumonia, unspecified (J18.9)	70	3.51%	Injury of wrist, hand, or fingers (S69.9)	5	0.25%
Weakness (R53.1)	69	3.46%	Other reduced mobility (Z74.09)	5	0.25%
Generalized abdominal pain (R10.84)	58	2.91%	Acute bronchospasm (J98.01)	4	0.20%
Altered mental status (R41.82)	53	2.66%	Burn, unspecified location and degree (T30.0)	4	0.20%
Cardiac arrhythmia/dysrhythmia (I49.9)	52	2.61%	Hypertension (I10)	4	0.20%
Infection (Unknown Source) (A31)	44	2.21%	Injury of foot (S99.92)	4	0.20%
Syncope and collapse (R55)	44	2.21%	Injury of forearm (S59.91)	4	0.20%
Respiratory distress, acute (J80)	42	2.11%	Pelvic and perineal pain (R10.2)	4	0.20%
Septicemia (1); or Sepsis (2) (A41.9)	38	1.91%	Respiratory failure, unspecified (J96.9)	4	0.20%
Back Pain (M54.9)	32	1.60%	Anemia, unspecified (D64.9)	3	0.15%
Cardiac Arrest (I46.9)	32	1.60%	Cardiac Chest Pain (STEMI) Anterior wall (I21.0)	3	0.15%
Stroke (I63.9)	31	1.55%	Croup (J05.0)	3	0.15%
Urinary Tract Infection (UTI) (N39.0)	31	1.55%	Foreign body in respiratory tract, part unspecified (T)	3	0.15%
Angina (1); or Ischemic chest pain (2) (I20.9)	30	1.50%	Injury of pelvis (S39.93)	3	0.15%
GI Bleed (K29.71)	30	1.50%	Meningitis (G03.9)	3	0.15%
Repeated falls (R29.6)	30	1.50%	Migraine (G43.9)	3	0.15%
Seizures without status epilepticus (G40.909)	30	1.50%	Non-specified Sedative, hypnotic or anxiolytic relat	3	0.15%
COPD with exacerbation (J44.1)	29	1.45%	Not Recorded	3	0.15%
Dizziness and giddiness (R42)	28	1.40%	Pneumothorax (J93.9)	3	0.15%
Appendicitis, acute (K35.80)	26	1.30%	Suicide attempt (T14.91)	3	0.15%
Injury of head (S09.90)	25	1.25%	Unspecified visual disturbance (H53.9)	3	0.15%
Injury of hip (S79.91)	25	1.25%	Anaphylactic shock (T78.2)	2	0.10%
CHF (I50.9)	24	1.20%	Ectopic pregnancy (O00)	2	0.10%
Injury of lower leg (S89.9)	20	1.00%	Esophageal obstruction (K22.2)	2	0.10%
Overdose/Drug Ingestion (itICD.047)	20	1.00%	Heatstroke and sunstroke (T67.0)	2	0.10%
Dehydration (E86.0)	19	0.95%	Hypothermia (T68)	2	0.10%
Chest Pain, Other [non-cardiac] (R07.89)	17	0.85%	Injury of abdomen (S39.91)	2	0.10%
Not Applicable	17	0.85%	Injury of lower back (S39.92)	2	0.10%
Hypotension (I95.9)	16	0.80%	Injury of thorax (upper chest) (S29.9)	2	0.10%
Nausea and vomiting (R11)	16	0.80%	Pulmonary edema, acute (J81.0)	2	0.10%
Alcohol use, unspecified with intoxication (F10.92)	15	0.75%	Suffocation (1); or Asphyxia (2) (T71.9)	2	0.10%
Nausea with vomiting, unspecified (R11.2)	15	0.75%	Unspecified chronic gastritis with bleeding (K29.51)	2	0.10%
Fever (R50.9)	12	0.60%	Unspecified infectious disease (B99.9)	2	0.10%
Influenza, unspecified (Flu) (J11)	12	0.60%	Adrenocortical insufficiency (E27.40)	1	0.05%
Respiratory disorder, unspecified (J98.9)	12	0.60%	Angina, unstable (I20.0)	1	0.05%
Alcohol dependence with withdrawal, unspecified (K)	10	0.50%	Cardiac Chest Pain (STEMI) Lateral Wall (itICD.078)	1	0.05%
Allergic Reaction (T78.40)	10	0.50%	Cardiac Chest Pain (STEMI) other sites (I21.2)	1	0.05%
Behavioral / psychiatric disorder (F99)	10	0.50%	Cardiac Chest Pain (STEMI) Posterior Wall (itICD.079)	1	0.05%
Diabetes with hyperglycemia (1); or Hyperglycemia-	10	0.50%	Common cold (J00)	1	0.05%
Diabetes with hypoglycemia (1); or Hypoglycemia-D	10	0.50%	Constipation (K59.00)	1	0.05%
Headache (R51)	10	0.50%	Foreign body in digestive system, part unspecified	1	0.05%
Injury of shoulder or upper arm (S49.9)	10	0.50%	Foreign body in genitourinary tract, part unspecified	1	0.05%
Cardiac Chest Pain (STEMI) Inferior wall (I21.1)	9	0.45%	Heat exhaustion, unspecified (T67.5)	1	0.05%
TIA (G45.9)	9	0.45%	Injury of ear (S09.91)	1	0.05%
Injury of neck (S19.9)	8	0.40%	Injury of elbow (S59.90)	1	0.05%
Cancer, unspecified (D49)	7	0.35%	Injury of eye and orbit (S05)	1	0.05%
Chronic pain, not elsewhere classified (G89.2)	7	0.35%	Intracranial injury, unspecified (S06.9)	1	0.05%
Hypoglycemia, unspecified (E16.2)	7	0.35%	Opioid related disorders (F11)	1	0.05%
Injury of ankle (S99.91)	7	0.35%	Pneumothorax, traumatic (S27.0)	1	0.05%
Injury of thigh (upper leg) (S79.92)	7	0.35%	Preterm labor without delivery (O60.0)	1	0.05%
Injury, unspecified (T14.90)	7	0.35%	Pulmonary mycobacterial infection (A31.0)	1	0.05%
Acute bronchitis, unspecified (J20.9)	6	0.30%	Seizures with status epilepticus (G40.901)	1	0.05%
Alcohol use, unspecified (F10.9)	6	0.30%	Subarachnoid hemorrhage, traumatic (S06.6)	1	0.05%
Head bleed (I62.9)	6	0.30%	Subdural hemorrhage, traumatic (S06.5)	1	0.05%
Injury of face (S09.93)	6	0.30%	UteriE14:G62ne or vaginal bleeding, abnormal (N93.	1	0.05%

2018 CPR Report

The CPR program at the Mukwonago Fire Department had another busy year with an array of different classes taught. We have also received many inquiries about students not looking for certification but requesting to be observed and assisted while practicing CPR, for class or other certification. Therefore we have now implemented the option for students to be observed for up to one hour for ten dollars per person. This however will not provide them with any certification from the Mukwonago Fire Department but merely providing advice and guidance.

For the 2018 year we taught 16 CPR classes, with a total number of 118 students. Our instructors get paid on an hourly basis and we paid out to our instructors a total amount of \$3,180.00 for their services and time. We also needed to provide some maintenance to our CPR products as well as replacing some of our supplies which was \$142.95. The money that we brought in from our CPR classes was \$1,170.00, and this includes a number of classes that we did not charge for due to the students being Mukwonago Fire Department employees and needing recertification based on their job responsibilities. Overall we had a financial difference of negative \$2,152.95, however this was to be expected due to every member on the department requiring recertification in BBP and CPR. We are constantly making changes to our CPR program to better meet the needs of our students. By educating the public it can provide our students with the knowledge to act in serious circumstances and overall result in better care for our citizens.

The Mukwonago Fire Department

CPR Program

1111 Fox Street

Mukwonago, WI 53149

Phone: (262) 363-6426

Email: learncpr@mukwonagofire.org

MUKWONAGO FIRE DEPARTMENT CPR PROGRAM

Healthcare Provider : 6 hours
Heartsaver CPR/AED: 5 hours
Heartsaver CPR/AED/First Aid: 9 hours

Instructors: \$30/hour

AHA BLS

Date	Students	Instructor
22-Dec	3	2
10-Nov	5	1
16-Jul	5	3
13-Jun	9	3
12-Jun	9	4
11-Jun	11	3
7-Feb	4	1

Deposits	Withdrawals	
\$0.00	\$360.00	MFD
\$0.00	\$180.00	MFD
\$0.00	\$0.00	MFD
\$0.00	\$540.00	MFD
\$0.00	\$720.00	MFD
\$0.00	\$540.00	MFD
\$40.00	\$180.00	MFD
\$0.00	\$0.00	

Heartsaver CPR/AED

Date	Students	Instructor
24-May	6	2
28-Jan	1	1

\$420.00	\$300.00
\$60.00	\$0.00

Heartsaver CPR/AED/First Aid

Date	Students	Instructor
28-Jan	5	1

\$450.00	\$270.00
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Bloodborne Pathogens

Date	Students	Instructor
10-Sep	5	1
23-May	9	1
22-May	10	1
21-May	10	1
21-May	6	1
23-Mar	20	1

\$0.00	\$0.00	MFD
\$0.00	\$30.00	MFD
\$0.00	\$30.00	MFD
\$0.00	\$0.00	MFD
\$0.00	\$0.00	MFD
\$200.00	\$30.00	

Total	\$1,170.00	-\$3,180.00
Difference	-\$2,010.00	

Purchased Supplies 2018

Student Books	\$142.95
Total	\$142.95

Payments	\$1,170.00
Costs	\$3,180.00
Supplies	\$142.95
	-\$2,152.95

2018 Annual Report Mukwonago Fire Department

Listed below are public education and prevention activities attended by Mukwonago Fire Department. Categories are listed, number of classes reflect occurrences, and attendees indicate MFD staff in attendance for that particular event. There were 66 events, 200 total MFD participants totaling 575.25 hours for those related events. This does not include any fire or EMS related trainings, meetings or administration.

Public Education and Prevention Activities 2018

Category	Classes	Pct of Classes	Attendees	Pct of Attendees	Hours	Pct of Hours
EM21 Public CPR	2	3.03%	4	2.00%	16.50	2.87%
ES Event Standby	9	13.64%	19	9.50%	73.00	12.69%
FIRST First Aid	2	3.03%	3	1.50%	9.00	1.56%
FP01 Fire Prevention	6	9.09%	14	7.00%	25.00	4.35%
PD Parade Detail	5	7.58%	33	16.50%	69.50	12.08%
SEF Special Event-Fire	20	30.30%	68	34.00%	153.00	26.60%
STDBY Standby	3	4.55%	9	4.50%	99.50	17.30%
TOUR In and out of station tours	13	19.70%	37	18.50%	78.75	13.69%
WD01 Work Detail	5	7.58%	12	6.00%	46.50	8.08%
WD02 Work Detail-EMS	1	1.52%	1	0.50%	4.50	0.78%
Totals	66		200		575.25	

Mukwonago

Training Analysis by Category

Class Date Between {01/01/2018} And {12/31/2018}

Category	Classes	Pct of Classes	Attendees	Pct of Attendees	Hours	Pct of Hours
ACLS ACLS Recertification	5	1.33%	15	0.96%	66.75	1.79%
AD01 Administrative Procedures	45	11.94%	54	3.44%	96.50	2.58%
AEMTREF AEMT Refresher	2	0.53%	4	0.25%	24.00	0.64%
AL Aerial Ladders	2	0.53%	14	0.89%	25.00	0.67%
AO Ambulance Orientation	3	0.80%	11	0.70%	18.00	0.48%
AP01 Pumper Overhaul and Repair	2	0.53%	2	0.13%	12.50	0.33%
BUILD Building Committee	4	1.06%	5	0.32%	11.50	0.31%
CADETR Cadet Training	16	4.24%	57	3.63%	110.25	2.95%
CHOFF Chief officer Meeting	1	0.27%	3	0.19%	3.00	0.08%
CM Commission Meeting	7	1.86%	8	0.51%	12.25	0.33%
COM Communications and Radios	3	0.80%	15	0.96%	33.00	0.88%
COT Company Training	1	0.27%	11	0.70%	22.00	0.59%
CVA CVA-Stroke	1	0.27%	1	0.06%	1.00	0.03%
DM Department Meeting	10	2.65%	156	9.94%	147.75	3.96%
DOC Documentation	2	0.53%	10	0.64%	15.50	0.42%
DOCF Documentation-Fire	2	0.53%	7	0.45%	9.25	0.25%
DT01 General Driver Training	4	1.06%	11	0.70%	12.00	0.32%
DT50 Defensive Driving	2	0.53%	3	0.19%	5.00	0.13%
EM02 ALS Skills Testing	1	0.27%	9	0.57%	25.25	0.68%
EM06 Respiratory System	1	0.27%	7	0.45%	7.00	0.19%
EM11 WMD/HIPPA/BLOODB	7	1.86%	47	2.99%	65.50	1.75%
EM12 ALS Training	10	2.65%	66	4.20%	176.00	4.71%
EM13 BLS Training	14	3.71%	112	7.13%	173.75	4.65%
EM20 CPR Recertification	7	1.86%	64	4.08%	226.00	6.05%
EM21 Public CPR	2	0.53%	4	0.25%	16.50	0.44%
EMTREF EMT Refresher	5	1.33%	7	0.45%	90.00	2.41%
EP Emergency Preparedness	7	1.86%	7	0.45%	14.50	0.39%
ES Event Standby	9	2.39%	19	1.21%	73.00	1.96%
EVALUATIONS Evaluations	7	1.86%	28	1.78%	45.75	1.23%
FC10 Fire Behavior	3	0.80%	27	1.72%	43.25	1.16%
FC40 Strategic and Tactical Operations	2	0.53%	23	1.46%	80.50	2.16%
FC90 Incident Command System	3	0.80%	3	0.19%	20.00	0.54%
FI01 Fire Inspections	6	1.59%	8	0.51%	34.25	0.92%
FIREC Firefighter Challenge	1	0.27%	3	0.19%	3.00	0.08%
FIRST First Aid	2	0.53%	3	0.19%	9.00	0.24%
FP Fire Prevention	1	0.27%	1	0.06%	8.00	0.21%
FP01 Fire Prevention	6	1.59%	14	0.89%	25.00	0.67%
HARASSMENT Workplace Harassment	3	0.80%	19	1.21%	12.00	0.32%
HO Hydrant Operations	2	0.53%	18	1.15%	36.00	0.96%
HOSE Hose Advancement	3	0.80%	22	1.40%	47.75	1.28%

Mukwonago

Training Analysis by Category

Class Date Between {01/01/2018} And {12/31/2018}

Category	Classes	Pct of Classes	Attendees	Pct of Attendees	Hours	Pct of Hours
MABAS MABAS Meeting	6	1.59%	6	0.38%	12.75	0.34%
MABASEVENT MABAS Event Training	1	0.27%	1	0.06%	18.00	0.48%
OD Officer Development	14	3.71%	64	4.08%	89.75	2.40%
ORI Orientation	5	1.33%	24	1.53%	91.00	2.44%
PALS PALS Recertification	1	0.27%	1	0.06%	3.00	0.08%
PARA OR Paramedic Orientation	2	0.53%	5	0.32%	15.75	0.42%
PARA RE Paramedic Refresher	1	0.27%	1	0.06%	8.00	0.21%
PD Parade Detail	5	1.33%	33	2.10%	69.50	1.86%
PEDS Pediatrics	1	0.27%	9	0.57%	13.50	0.36%
PO Pump Operations	5	1.33%	31	1.97%	75.25	2.02%
PPE Personal Protective Equipment	3	0.80%	27	1.72%	53.50	1.43%
PS Protective Services Committee Meeting	1	0.27%	2	0.13%	2.00	0.05%
RETR Recruit Training	19	5.04%	66	4.20%	333.75	8.94%
ROPES Ropes and Knots	1	0.27%	7	0.45%	10.50	0.28%
RT Recruit Testing	18	4.77%	32	2.04%	53.25	1.43%
SAFETY Safety Committee	3	0.80%	13	0.83%	11.50	0.31%
SEF Special Event-Fire	20	5.31%	68	4.33%	153.00	4.10%
STDBY Standby	3	0.80%	9	0.57%	99.50	2.66%
TC Training Committee	9	2.39%	30	1.91%	67.75	1.81%
TOUR In and out of station tours	13	3.45%	37	2.36%	78.75	2.11%
VE Vehicle Extrication	4	1.06%	47	2.99%	72.50	1.94%
WATER Water Rescue	8	2.12%	65	4.14%	171.00	4.58%
WATSUPP Water Supply	4	1.06%	26	1.66%	58.00	1.55%
WCFCFA Waukesha Fire Chief's Association	6	1.59%	6	0.38%	8.25	0.22%
WD01 Work Detail	5	1.33%	12	0.76%	46.50	1.25%
WD02 Work Detail-EMS	1	0.27%	1	0.06%	4.50	0.12%
WILD Wildland Firefighting	3	0.80%	29	1.85%	63.50	1.70%
Totals	377		1570		3,734.00	

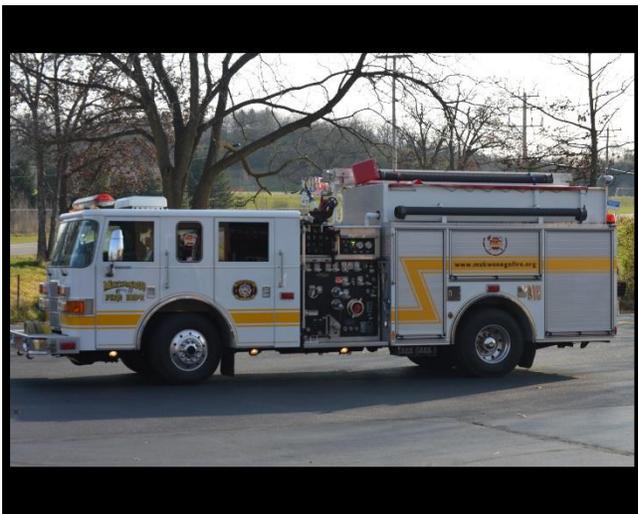
The above chart indicates all the hours of trainings, meetings and personal development MFD members attend throughout the last year. Emergency services are very demanding and continuous training is required to keep up with ever changing challenges members will encounter. A total of 3,734.00 hours of training completed for 2018.

Engines



Vehicle: 3461 – Spartan Darley
Year Purchased: 1990
Approximate Cost: \$ 190,000
Replacement Year: Retire-Discontinue 2021
Replacement Cost: \$675,000 (Pumper-Tender)

Vehicle: 3462 – 2002 Pierce Enforcer
Year Purchased: 2002
Approximate Cost: \$ 285,000
Replacement Year: 2031
Replacement Cost: \$ 500,000



Vehicle: 3463 – 2001 Pierce Enforcer Rescue Style
Pumper
Year Purchased: 2008
Approximate Cost: \$ 198,000
Replacement Year: 2026
Replacement Cost: \$ 300,000 (Tender with Pump)

Aerial Apparatus

Vehicle: 3471 – Rosenbauer Cobra 101'
Year Purchased: 2013
Approximate Cost: \$ 775,000
Replacement Year: 2038
Replacement Cost: \$ 1,000,000



Water Movement Apparatus



Vehicle: 3492 – GMC/Monroe Tender
Year Purchased: 1986
Approximate Cost: Unknown
Replacement Year: 2021
Replacement Cost: \$675,000 (Pumper-Tender)

Specialty Apparatus



Vehicle: 3482 – Ford F350
Year Purchased: 2016
Approximate Cost: \$ 37,819
Replacement Year: 2035
Replacement Cost: \$ 45,000

Vehicle: 3484 –2008 6x6 and Trailer
Year Purchased: 2014
Approximate Cost: \$ 6,695
Replacement Year: 2028
Replacement Cost: \$ 20,000



Water Operations (Ice and open water)



Vehicle: 3496 – 1998 Rescue One
Year Purchased: 1997
Approximate Cost: \$ 13,000
Replacement Year: 2024
Replacement Cost: \$40,000

Vehicle: 3487 – 2000 Freightliner Med Tec
Year Purchased: 2000
Approximate Cost: \$ 130,000
Replacement Year: TBD
Replacement Cost: \$ TBD



Personnel Vehicles



Vehicle: 3481 – Chevrolet
Year Purchased: 1989
Approximate Cost: \$ 10,000
Replacement Year: 2020
Replacement Cost: \$40,000

Vehicle: 3488 – Chevrolet Tahoe
Year Purchased: 2015
Approximate Cost: \$45,000
Replacement Year: 2023
Replacement Cost: \$45,000



Vehicle: Car 1- 2015 Ford Interceptor
Year Purchased: 2014
Approximate Cost: \$30,000
Replacement Year: 2022
Replacement Cost: \$40,000



Vehicle: Car 2 – Chevrolet Suburban
Year Purchased: 2009
Approximate Cost: \$30,000
Replacement Year: 3488 will be rotated to this position
Replacement Cost: \$ 0.00

Ambulances

Vehicle: 3451 – 2016 Med Tec Ford E-450
Year Purchased: 2016
Approximate Cost: \$ 142,000
Replacement Year: 2022
Replacement Cost: \$ 225,000 new



Vehicle:
Year



3452 – 2017 Horton E-450
Purchased: 2017
Approximate Cost: \$ 196,000
Replacement Year: 2023
Replacement Cost: \$ 130,000 remount

2018 Annual Report Mukwonago Fire Department

Vehicle: 3453 – 2009 Med Tec Ford E-350
Year Purchased: 2009
Approximate Cost: \$ 130,000
Replacement Year: 2019
Replacement Cost: \$ 180,000 remount

