



Mukwonago Fire Department Annual Report 2012

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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.

2012 was a very active year with a wide range of challenging and variety types of incidents. It started off in February with a semi-truck and trailer that rolled over at Highway I and 83 at the turnabout. City of Waukesha Hazardous Materials team and MFD staff were able to quickly contain the diesel fuel leak and other petroleum product release. Then less than a week later MFD responded to a two story garage fire that was full involved. The weather conditions were frigid and very high wind gusts. MFD requested the first ever MABAS Box Alarm. There were no injuries to civilian or firefighters but due to the weather conditions the fire did spread to the house and a garage three houses away. One week later MFD responded to the Fox and Mukwonago Rivers for a plane crash. Fortunately, the pilot was able to make a landing in the river and only have cuts and bruises from his experience. In July MFD had another MABAS request for a field fire that was started by a resident using a gopher bomb during a fire ban due to the extreme drought during the summer. Crews were able to contain the fire to about 20 acres with no structure losses or any injuries to civilians or firefighters. Members responded to several medical and fire calls in addition.

MFD was fortunate to receive the following grants in 2012: \$40,000.00 OJA grant used to replace and upgrade all VHF portable and mobile radios, \$12,159.00 DNR grant for gear, equipment and a new skid unit for the grass truck and a Wal-Mart Foundation Grant for \$1,200.00 for CPR manikins to continue the Community CPR Program.

As you can see 2012 was a very busy year and the members worked very hard to keep up with the growing pace of calls. 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... AND...

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 to more effectively utilize 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

Inspection 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 when needed if it is kept clean. 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, and Rapid Intervention Crew. In addition, seasonal training for the 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.
- 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.

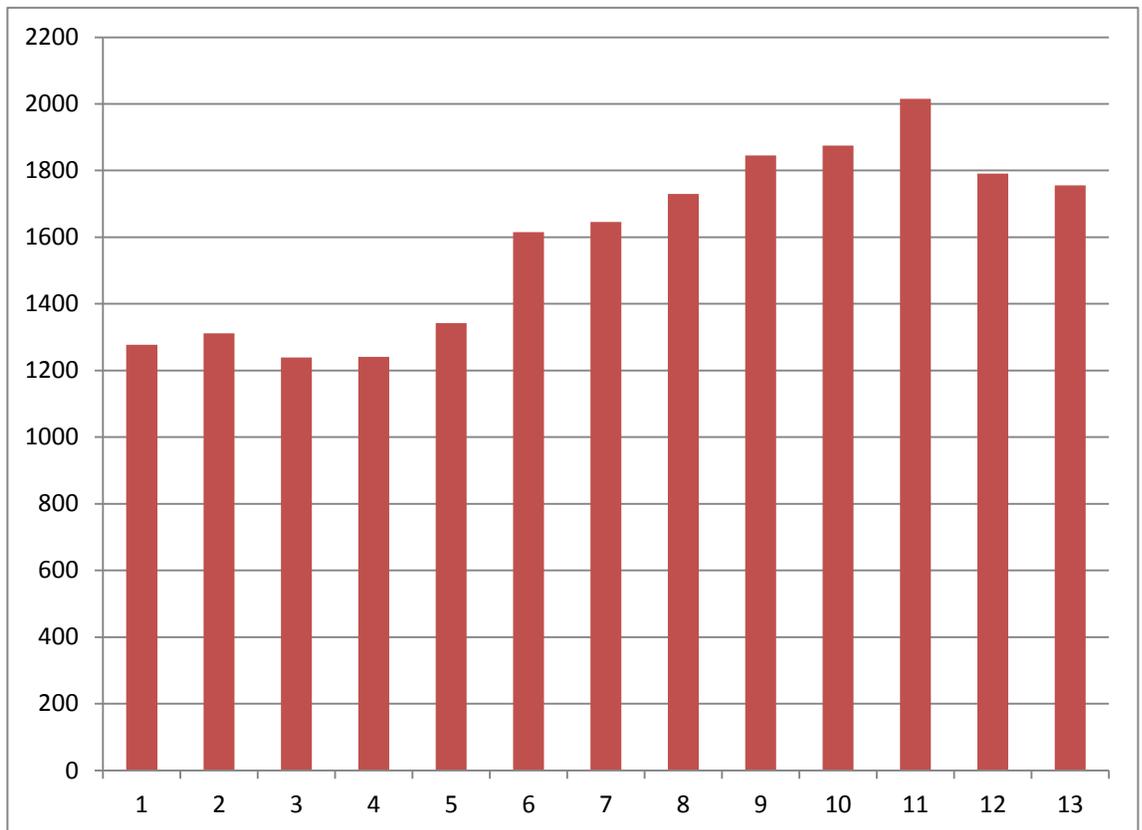
- Driver training and education regarding safe and prompt responses.
- Familiarizing all personnel with the Mukwonago community.
- Updating all maps of the Mukwonago community and surrounding areas.
- Familiarizing personnel in the use of GPS units in all apparatus.
- Be prepared for incidents that not 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 we are called.
- 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

Total EMS and Fire Calls

Year	Total	EMS	Fire
2000	1277		
2001	1312		
2002	1239		
2003	1241		
2004	1342		
2005	1615		
2006	1646		
2007	1730		
2008	1845		
2009	1875		
2010	2015		
2011	1791	1563	228
2012	1756	1508	248



FIRE



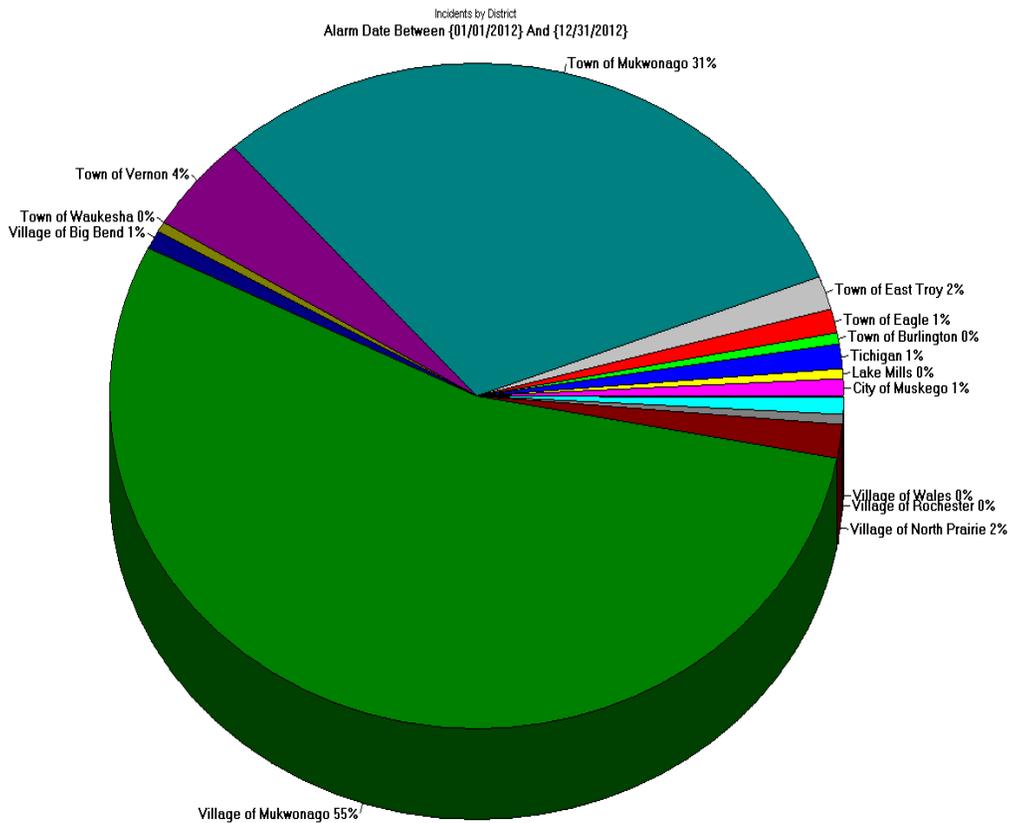
Average Turnout per Fire Incident

Total Number of Incidents 247
Total Number of Responding Personnel 1597
Average Turnout per Incident 7

Fire Incidents by District

<u>District</u>	<u>Incidents</u>	<u>Incidents Pct</u>	<u>Losses</u>
Village of Mukwonago	136	55.06 %	\$410,100
Town of Mukwonago	76	30.77 %	\$1,000
Town of Vernon	11	4.45 %	
Village of Big Bend	3	1.21 %	
Town of East Troy	4	1.62 %	
Town of Eagle	3	1.21 %	
Village of North Prairie	4	1.62 %	
Town of Waukesha	1	0.40 %	
Village of Wales	1	0.40 %	
City of Muskego	2	0.81 %	
Tichigan	3	1.21 %	
Town of Burlington	1	0.40 %	
Lake Mills	1	0.40 %	
Village of Rochester	1	0.40 %	

Total Incident Count: 247 Total Estimated Losses: \$411,100



Fire Incident Type Report

Incident Type	Incidents	Incidents Pct	Losses
1 Fire			
Fire, Other	2	0.80%	
Building fire	16	6.47%	\$404,000
Cooking fire confined	2	0.80%	
Chimney or flue fire	5	2.02%	
Trash fire contained	1	0.40%	
Mobile property fire, other	1	0.40%	
Passenger vehicle fire	4	1.61%	\$7,100
Natural vegetation fire other	1	0.40%	
Brush and grass fire	20	8.09	
Grass fire	4	1.61%	
Dumpster fire	2	0.80%	
	58	23.48%	\$411,100
3 Rescue & Emergency Medical Service Incident			
Medical assist	1	0.40%	
EMS call	2	0.80%	
MVA with injuries	53	21.45%	
MVA with no injuries	15	6.07%	
Search for person on land	3	1.21%	
Water & ice-related rescue	1	0.40%	
Ice Rescue	1	0.40%	
Watercraft rescue	1	0.40%	
	77	31.17%	
4 Hazardous Conditions (No Fire)			
Hazardous condition, other	1	0.40%	
Flammable liquid spill	4	1.61%	
Gas leak (natural gas or LPG)	3	1.21%	
Other liquid spill	1	0.40%	
Chemical hazard, no spill	1	0.40%	
Chemical spill or leak	1	0.40%	
Carbon monoxide incident	2	0.80%	
Electrical wiring problem	1	0.40%	
Heat from short circuit	1	0.40%	
Power line down	3	1.21%	
Arcing, shorted equipment	2	0.80%	
	20	8.09%	

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5 Service Call

Service Call, other	1	0.40%
Smoke or odor removal	5	2.02%
Assist police or other	4	1.61%
Standby, move up	1	0.40%
	11	4.45%

6 Good Intent Calls

Good intent call other	3	1.21%
Dispatched & cancelled	16	6.47%
Controlled burning	1	0.40%
Smoke Scare, odor of smoke	6	2.42%
	26	10.52%

7 False Alarms & False Call

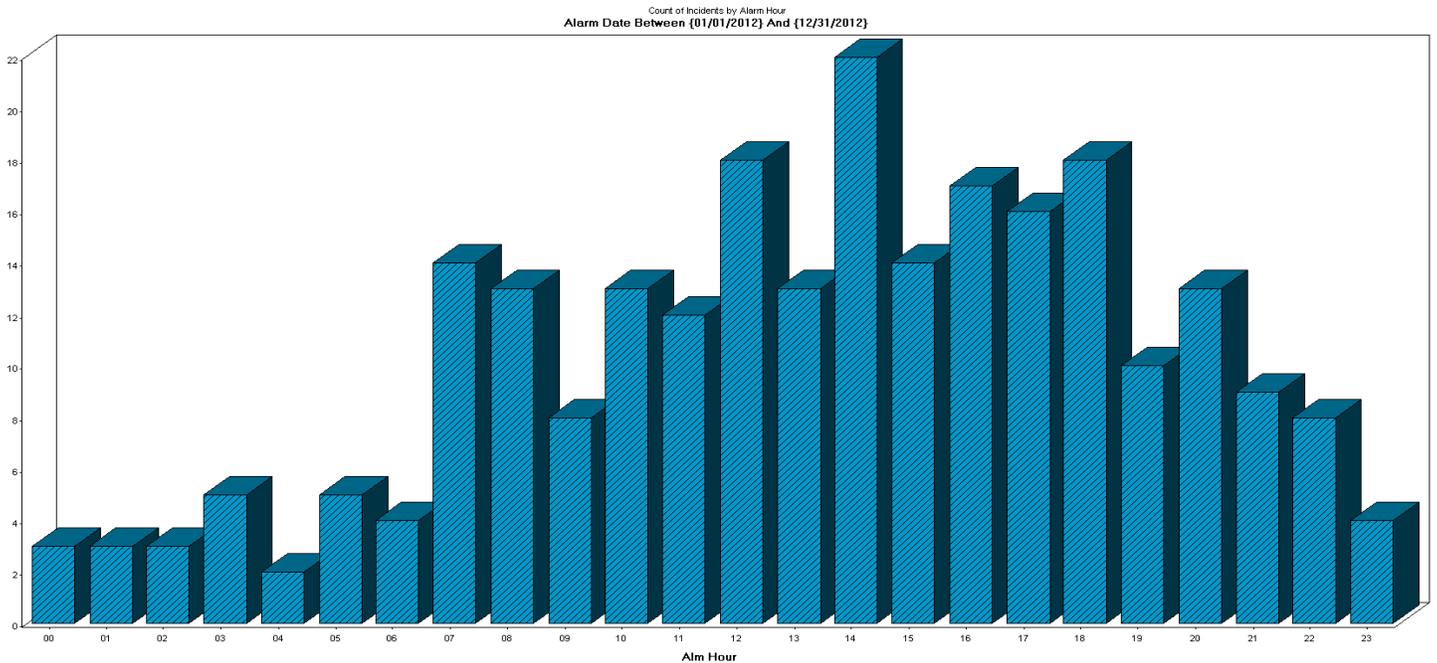
False alarm or call, other	11	4.45%
System malfunction, other	6	2.42%
Sprinkler malfunction	1	0.40%
Smoke detector activation	3	1.21%
CO detector malfunction	13	5.26%
Unintentional transmission	15	6.07%
Detector activation, no fire	1	0.40%
Alarm activation, no fire	3	1.21%
Carbon monoxide, no CO	1	0.40%
	54	21.86%

9 Special Incident Type

Special type of incident	1	0.40%
	1	0.40%

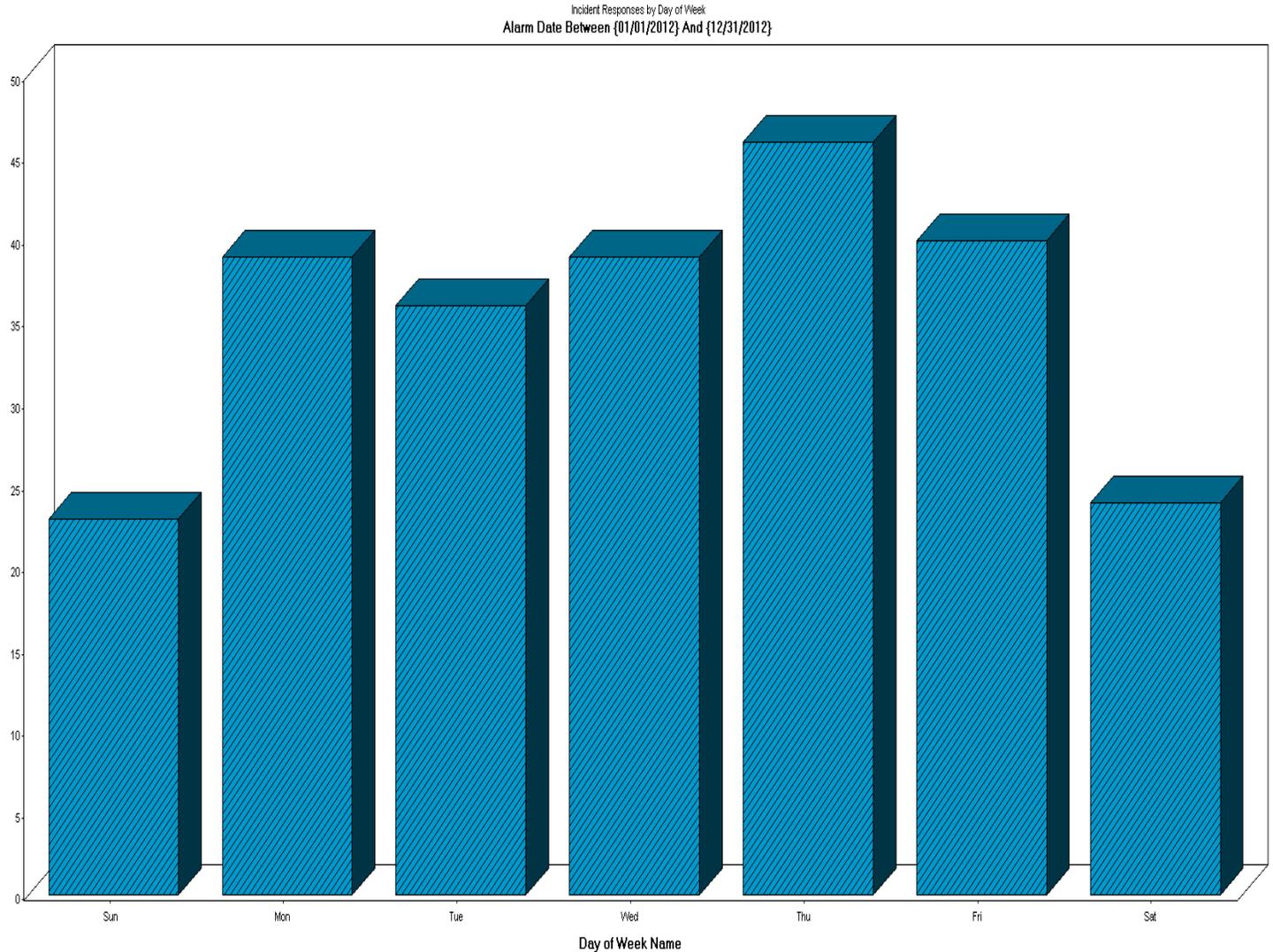
Fire Incidents Alarm Time Analysis

Alarm Hour	Count	Percent
00:00	3	1.21%
01:00	3	1.21%
02:00	3	1.21%
03:00	5	2.02%
04:00	2	0.80%
05:00	5	2.02%
06:00	4	1.61%
07:00	14	5.66%
08:00	13	5.26%
09:00	8	3.23%
10:00	13	5.26%
11:00	12	4.85%
12:00	18	7.28%
13:00	13	5.26%
14:00	22	8.90%
15:00	14	5.66%
16:00	17	6.88%
17:00	16	6.47%
18:00	18	7.28%
19:00	10	4.04%
20:00	13	5.26%
21:00	9	3.64%
22:00	8	3.23%
23:00	4	1.61%



Fire Incidents by the Day of the Week/Shift 2012

Shift	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	4	4	4	6	6	4	3
2	3	1	3	3	7	2	1
3	5	5	6	2	7	4	3
4	11	29	23	28	26	30	17
Total	23	39	36	39	46	40	24



Emergency Medical Services



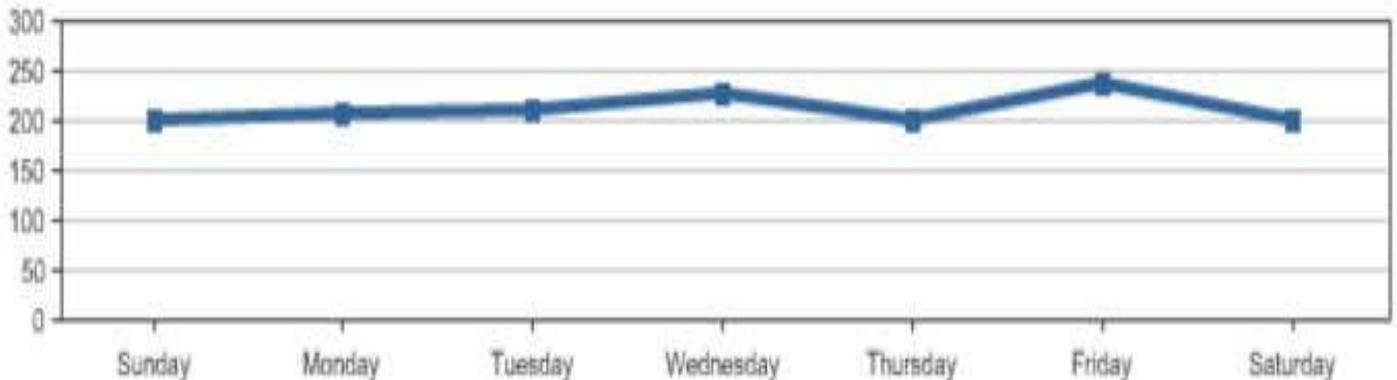
EMS Runs by City

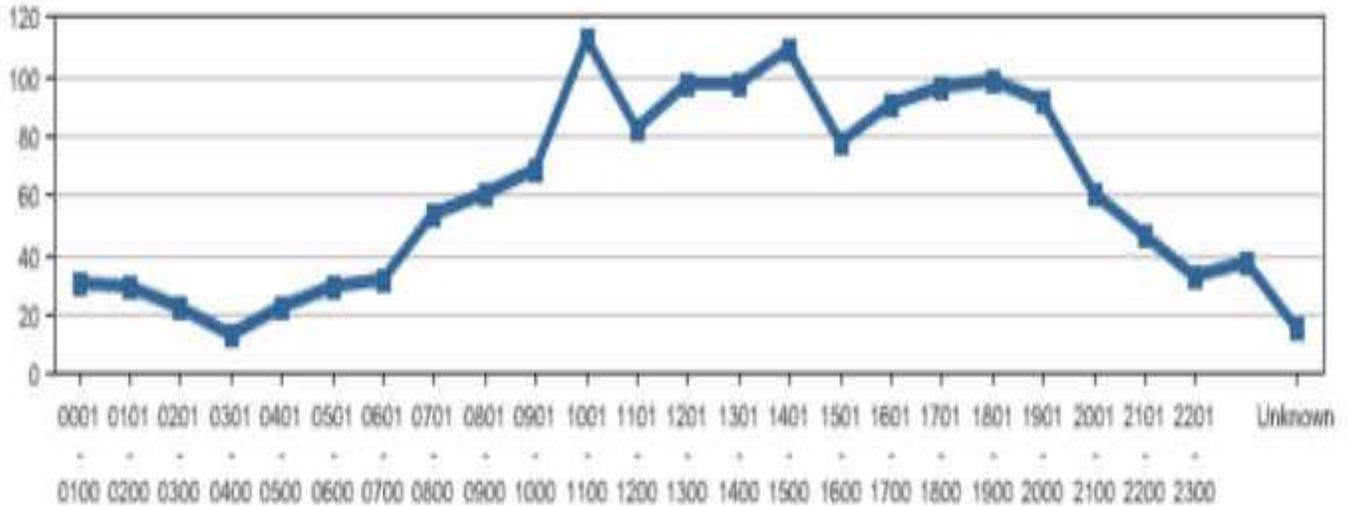
City	# of Runs	% of Runs
Big Bend	2	0.13%
Eagle	32	2.12%
East Troy	134	8.87%
Mukwonago	1051	69.60%
Mukwonago (Town of)	259	17.15%
North Prairie	24	1.59%
Palmyra	1	0.07%
Vernon (Town of)	3	0.20%
Waterford	2	0.13%
Waukesha	2	0.13%
Total	1510	100%

Times of EMS Calls by Day of the Week 2012

<u>Time Period</u>	<u>Sunday</u>	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>	<u>Friday</u>	<u>Saturday</u>	<u>Total</u>	<u>Percentage</u>
0001 - 0100	5	4	4	5	5	3	5	31	2.05%
0101 - 0200	5	3	5	5	4	4	3	29	1.92%
0201 - 0300	6	4	5	4	2	1	1	23	1.52%
0301 - 0400	3	2	1	2	0	1	4	13	0.86%
0401 - 0500	3	1	7	2	2	6	1	22	1.46%
0501 - 0600	3	4	5	3	5	6	3	29	1.92%
0601 - 0700	6	3	6	7	4	4	2	32	2.12%
0701 - 0800	7	5	4	11	12	12	3	54	3.58%
0801 - 0900	11	13	5	7	4	9	11	60	3.97%
0901 - 1000	7	12	8	7	11	12	12	69	4.57%
1001 - 1100	11	18	23	12	18	15	16	113	7.48%
1101 - 1200	15	9	14	9	7	11	18	83	5.50%
1201 - 1300	10	9	14	18	8	17	21	97	6.42%
1301 - 1400	15	14	18	14	14	11	12	98	6.49%
1401 - 1500	15	15	14	12	13	22	18	109	7.22%
1501 - 1600	7	19	8	14	9	6	15	78	5.17%
1601 - 1700	17	11	8	16	14	14	10	90	5.96%
1701 - 1800	7	12	15	20	14	19	9	96	6.36%
1801 - 1900	9	12	17	24	16	17	4	99	6.56%
1901 - 2000	9	16	11	13	9	24	10	92	6.09%
2001 - 2100	9	11	6	11	6	8	9	60	3.97%
2101 - 2200	8	4	6	6	9	6	8	47	3.11%
2201 - 2300	8	4	0	3	5	8	5	33	2.19%
2301 - 0000	6	5	7	3	10	3	3	37	2.45%
Unknown	0	0	0	0	0	0	0	16	1.06%
Total	220	259	217	214	209	214	215	1510	100%

■ Sunday ■ Monday ■ Tuesday ■ Wednesday ■ Thursday ■ Friday ■ Saturday





Ambulance Average Run Times

Action	Time
Enroute	00:03:31
To Scene	00:05:22
At Scene	00:17:50
To Destination	00:22:32
Back in Service	00:52:05
Total	01:41:20

Ambulance Runs by Primary Role of Unit

Primary Role of Unit	# of Times	% of Times
ALS Ground Transport	827	54.77%
BLS Ground Transport	221	14.64%
Non-Transport	454	30.07%
Not Applicable	1	0.07%
Other Transport	2	0.13%
Private/Public Walk in	1	0.07%
Rescue	2	0.13%
Supervisor	1	0.07%
Transport	1	0.07%
Unknown	0	0.00%
Total	1510	100%

Transport Hospital

Destination	# of Runs	% of Runs
AURORA MED CTR – SUMMIT	22	1.46%
Aurora Memorial Hospital of Burlington	1	0.07%
CHILDREN'S HOSPITAL OF WI	19	1.26%
Clement J Zablocki VA Medical Center	4	0.26%
Columbia St. Mary's- Milwaukee	1	0.07%
ELMBROK MEMORIAL HOSPITAL	4	0.26%
Fort Atkinson Sub acute Care Center	1	0.07%
FROEDTERT MEM. LUTHERAN HSP	20	1.32%
Home/Residence	1	0.07%
LAKELAND HEALTH CARE CENTER	17	1.13%
Linden Grove-Mukwonago	1	0.07%
MEMORIAL HOSP OF BURLINGTON	10	0.66%
Not Applicable	2	0.13%
Not Known	1	0.07%
Not transported	116	7.68%
OCONOMOWOC MEMORIAL HOSPITAL	28	1.85%
ST LUKES MED CTR 19	7	0.46%
The Wisconsin Heart Hospital	1	0.07%
WAUKESHA MEMORIAL HOSPITAL 911	890	58.94%
WEST ALLIS Memorial Hospital	7	0.46%
No Destination	357	23.64%
Total	1510	100%

Engines



Vehicle: 3461 – Spartan Darley
Year Purchased: 1990
Approximate Cost: \$ 190,000
Replacement Year: 2015
Replacement Cost: \$ 625,000

Vehicle: 3462 – 2002 Pierce Enforcer
Year Purchased: 2002
Approximate Cost: \$ 285,000
Replacement Year: 2025
Replacement Cost: \$ 400,000



Vehicle: 3463 – 2001 Pierce Enforcer
Rescue Style Pumper
Year Purchased: 2008
Approximate Cost: \$ 198,000
Replacement Year: 2021
Replacement Cost: \$ 400,000



Specialty Apparatus

Vehicle: 3471 – Pierce Aerial Platform 110'
Year Purchased: 2006
Approximate Cost: \$ 75,000
Replacement Year: 2013
Replacement Cost: \$ 950,000



Vehicle: 3481 – Chevy
Year Purchased: 1990
Approximate Cost: \$ 35,000
Replacement Year: 2016
Replacement Cost: \$ 80,000

Vehicle: 3484 – 6x6 and Trailer
Year Purchased: 1997
Approximate Cost: \$ 8,500
Replacement Year: 2018
Replacement Cost: \$ 15,000



Water Operations (ice and open water)



Vehicle: 3496 – 1998 Rescue One
Year Purchased: 1997
Approximate Cost: \$ 13,000
Replacement Year: 2024
Replacement Cost: \$30,000

Vehicle: 3487 – 2000 Freightliner Med Tec
Year Purchased: 2000
Approximate Cost: \$ 130,000
Replacement Year: 2020
Replacement Cost: \$ 200,000



Personnel Vehicles



Vehicle: 3489 – 4x4 4 door Chevy
Year Purchased: 2000
Approximate Cost: \$ 30,000

Vehicle: 3488 – Chevy Suburban
Year Purchased:
Approximate Cost: \$30,000
Replacement Year: 2017
Replacement Cost: \$40,000



Vehicle: Car 1 – 2004 Ford Escape
Year Purchased: 2004
Approximate Cost: Lease
Replacement Year: 2014
Replacement Cost: \$ 32,000

Ambulances

Vehicle: 3451 – 2007 Med Tec Ford E-350
Year Purchased: 2007
Approximate Cost: \$ 118,000
Replacement Year: 2015
Replacement Cost: \$ 100,000 (Remount)



Year



Vehicle: 3452 – 2012 Med Tec Chevrolet 4500
Purchased: 2012
Approximate Cost: \$ 146,000
Replacement Year: 2020
Replacement Cost: \$ 100,000 Remount

Vehicle: 3453 – 2009 Med Tec Ford E-350
Year Purchased: 2009
Approximate Cost: \$ 130,000
Replacement Year: 2018
Replacement Cost: \$ 100,000 (Remount)

