



# Mukwonago Fire Department Annual Report 2011

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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

Welcome to learning about your Mukwonago Fire Department. The following pages will describe the different services and types of incidents that the Mukwonago Fire Department face day in and day out. The 2011 Annual Report provides valuable information in regards to the fire department, its personnel and services provided. The Mukwonago Fire Department responded to 1,791 fire and EMS emergency calls in 2011. The types of calls include but are not limited to: fires, hazardous materials, rescue, motor vehicle collisions, extrication and medical incidents. The department protects approximately 37 square miles that is comprised of the Village and Town of Mukwonago. The estimated protected population is 16,000.

The Mukwonago Fire Department is a combination department that has 4 fulltime staff. Currently there are 46 paid on call personnel that are very dedicated to protecting and helping the citizens in and out of the district. Company trainings take place weekly. Mukwonago Fire Department is a very proactive department when it comes to providing the most current medical treatments and firefighting strategies and tactics.

There is a long and strong tradition at our department. Even though people come and go, there is a drive to set benchmarks for the county and be the leader in services provided. I joined this department in November of 2011. There were several things that attracted me to the department and those include: the community, the dedication of the staff, the area and commitment to providing aggressive, current services to our customers.

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.

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.

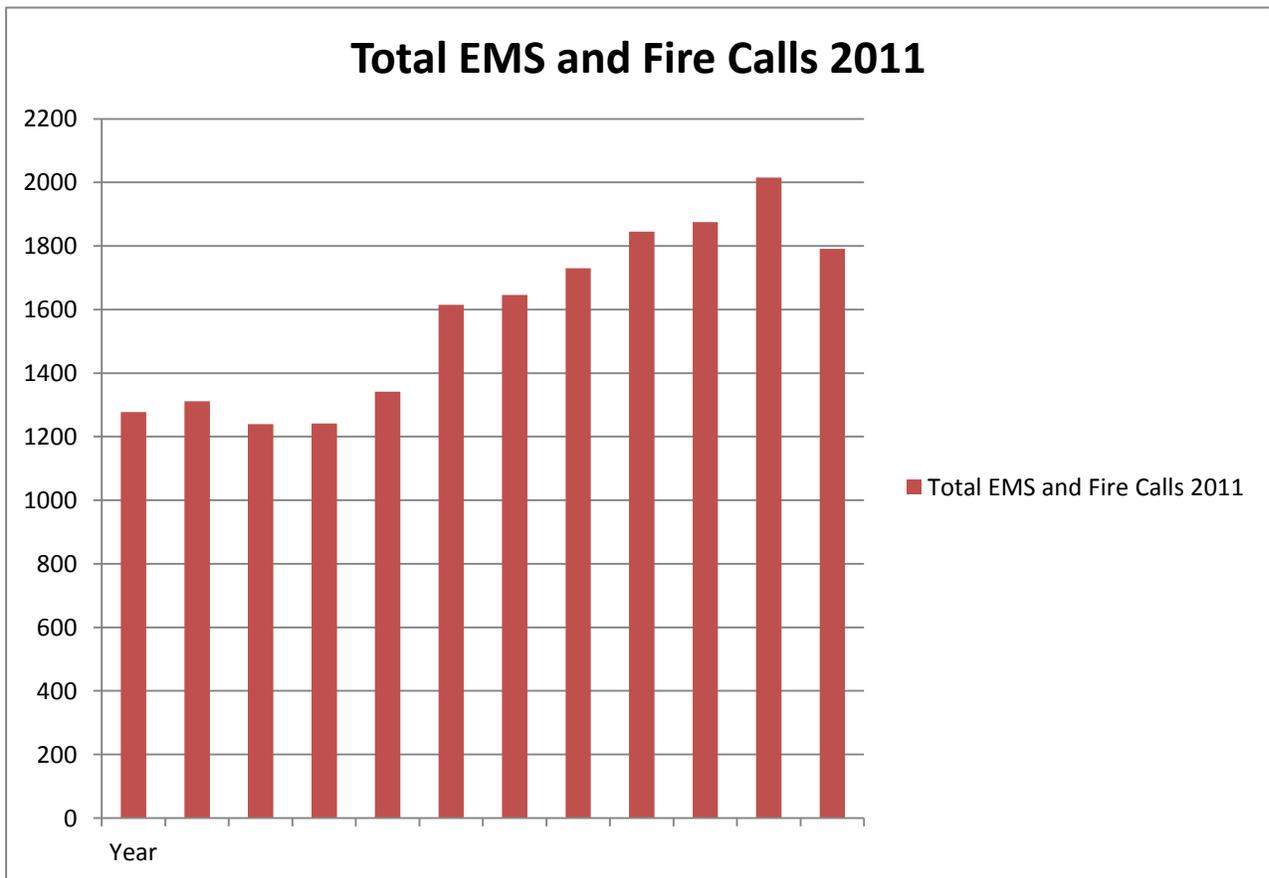
- Driver training and education regarding safe and prompt responses.
- Familiarizing all personnel with the Mukwonago community.
- Updating all maps of the Mukwonago community and surrounding areas.
- Familiarizing personnel in the use of GPS units in all apparatus.
- Be prepared for incidents that not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



# ***FIRE***



## **Average Turnout per Fire Incident**

**Total Number of Incidents** 209  
**Total Number of Responding Personnel** 1318  
**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	130	62.20 %	\$50,000
Town of Mukwonago	65	31.10 %	\$200,000
Town of Vernon	2	0.96 %	
Village of Big Bend	1	0.48 %	
Village of Eagle	5	2.39 %	
Village of North Prairie	2	0.96 %	
Village of Dousman	1	0.48 %	
Village of Wales	1	0.48 %	
City of Muskego	1	0.48 %	
Waterford	1	0.48 %	
<b>Total Incident Count:</b>	<b>209 Total</b>		<b>Estimated Losses: \$250,000</b>

### Fire Incident Type Report

<u>Incident Type</u>	<u>Incidents</u>	<u>Incidents Pct</u>	<u>Losses</u>
<b>1 Fire</b>			
Fire, Other	16	7.66%	
Building fire	11	5.26%	\$250,000
Chimney or flue fire	2	0.96%	
Mobile property fire, other	1	0.48%	
Passenger vehicle fire	2	0.96%	
Forest, or wildland fire	2	0.96%	
Grass fire	3	1.44%	
Outside rubbish fire, other	4	1.91%	
Outside rubbish, trash fire	2	0.96%	
Outside compacted trash fire	1	0.48%	
	<b>44</b>	<b>21.05%</b>	<b>\$250,000</b>

**3 Rescue & Emergency Medical Service Incident**

Rescue, EMS incident, other	1	0.48%
Medical assist	1	0.48%
EMS call	1	0.48%
MVA with injuries	5	2.39%
MVA with no injuries	8	3.83%
Search for person on land	2	0.96%
Extrication from vehicle	2	0.96%
Water & ice-related rescue	1	0.48%
Swimming water areas rescue	1	0.48%
	<b>22</b>	<b>10.53%</b>

**4 Hazardous Conditions (No Fire)**

Hazardous condition, other	5	2.39%
Flammable liquid spill	1	0.48%
Gas leak (natural gas or LPG)	7	3.35%
Other liquid spill	1	0.48%
Toxic condition, other	1	0.48%
Carbon monoxide incident	2	0.96%
Electrical wiring problem	4	1.91%
Power line down	3	1.44%
Arcing, shorted equipment	1	0.48%
Accident, other	15	7.18%
Vehicle accident cleanup	22	10.53%
	<b>62</b>	<b>29.67%</b>

**5 Service Call**

Service Call, other	2	0.95%
Water or steam leak	1	0.48%
Smoke or odor removal	6	2.87%
Standby, move up	4	1.91%
	<b>13</b>	<b>6.22%</b>

**6 Good Intent Calls**

Dispatched & cancelled	7	3.35%
	<b>7</b>	<b>3.35%</b>

**7 False Alarms & False Call**

False alarm or call, other	9	4.31%
System malfunction, other	1	0.48%
Smoke detector malfunction	1	0.48%
Alarm system malfunction	4	1.91%
CO detector malfunction	4	1.91%
Unintentional transmission	1	0.48%
Sprinkler activation, no fire	2	0.96%
Smoke activation, no fire	6	2.87%
Detector activation, no fire	1	0.48%
Alarm activation, no fire	23	11.00%
Carbon monoxide, no CO	5	2.39%
	<b>57</b>	<b>27.27%</b>

**8 Severe Weather & Natural Disaster**

Wind storm assessment	1	0.48%
Severe weather standby	1	0.48%
	<b>2</b>	<b>0.96%</b>

**9 Special Incident Type**

Special type of incident	2	0.96%
	<b>2</b>	<b>0.96%</b>

**Fire Incidents Alarm Time Analysis**

<b><u>Alarm Hour</u></b>	<b><u>Count</u></b>	<b><u>Percent</u></b>
00:00	5	2.39%
02:00	1	0.48%
03:00	3	1.44%
04:00	1	0.48%
05:00	7	3.35%
06:00	7	3.35%
07:00	6	2.87%
08:00	7	3.35%
09:00	12	5.74%
10:00	13	6.22%
11:00	9	4.31%
12:00	8	3.83%
13:00	12	5.74%
14:00	11	5.26%
15:00	16	7.66%
16:00	12	5.74%
17:00	18	8.61%
18:00	16	7.66%
19:00	9	4.31%
20:00	12	5.74%
21:00	11	5.26%
22:00	7	3.35%
23:00	6	2.87%

# *Emergency Medical Services*



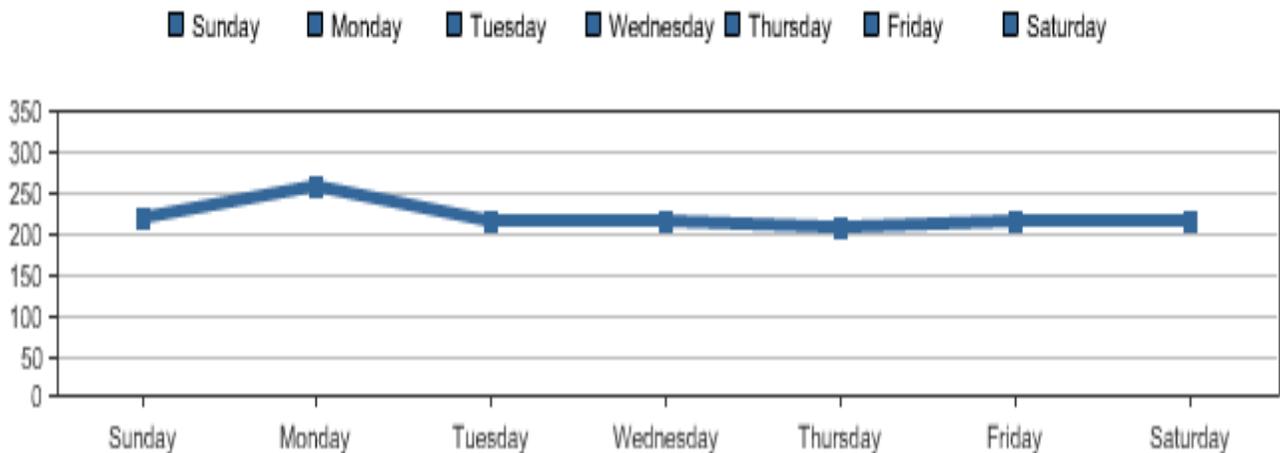
## EMS Runs by City

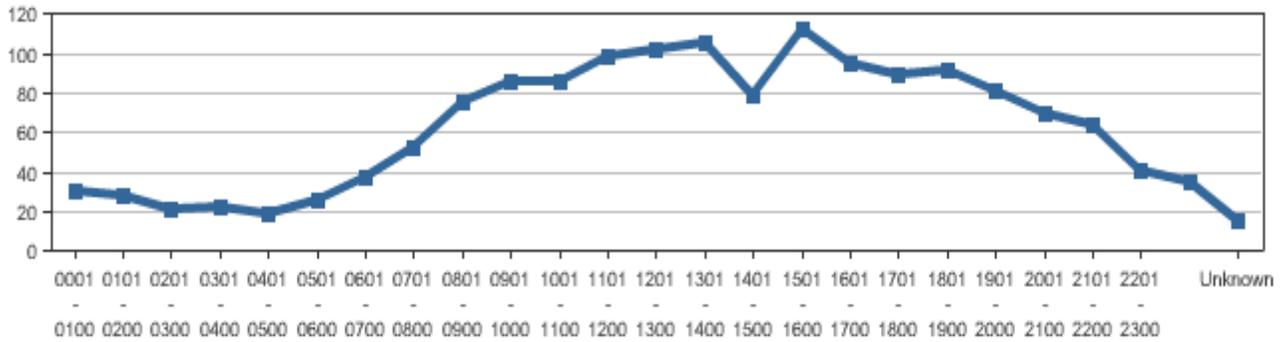
<b>City</b>	<b># of Runs</b>	<b>% of Runs</b>
Big Bend	4	0.26%
Burlington	1	0.06%
Dousman	1	0.06%
Eagle	36	2.30%
East Troy	239	15.29%
Mukwonago	1019	65.20%
Mukwonago (Town of)	241	15.42%
North Prairie	5	0.32%
Vernon (Town of)	7	0.45%
Waterford	2	0.13%
Unknown	8	0.51%
<b>Total</b>	<b>1563</b>	<b>100%</b>

### Times of EMS Calls by Day of the Week

**Time Period Sunday Monday Tuesday Wednesday Thursday Friday Saturday Total Percentage**

0001 - 0100	5	7	3	2	4	2	7	30	1.92%
0101 - 0200	5	5	2	3	5	2	6	28	1.79%
0201 - 0300	5	4	3	3	2	2	2	21	1.34%
0301 - 0400	3	2	4	4	3	5	1	22	1.41%
0401 - 0500	5	1	3	2	1	2	5	19	1.22%
0501 - 0600	2	4	4	2	4	6	4	26	1.66%
0601 - 0700	3	10	4	3	5	7	5	37	2.37%
0701 - 0800	7	12	8	10	7	5	4	53	3.39%
0801 - 0900	20	12	8	10	10	9	6	75	4.80%
0901 - 1000	7	16	15	11	11	11	15	86	5.50%
1001 - 1100	16	11	7	13	16	9	14	86	5.50%
1101 - 1200	12	21	12	9	15	18	12	99	6.33%
1201 - 1300	16	17	13	16	12	9	19	102	6.53%
1301 - 1400	15	17	16	13	16	9	19	105	6.72%
1401 - 1500	11	6	10	17	9	13	13	79	5.05%
1501 - 1600	17	20	18	21	17	9	11	113	7.23%
1601 - 1700	7	12	16	13	18	15	14	95	6.08%
1701 - 1800	8	18	14	10	10	16	13	89	5.69%
1801 - 1900	18	19	20	8	9	14	4	92	5.89%
1901 - 2000	15	9	9	17	15	12	4	81	5.18%
2001 - 2100	7	15	10	8	7	13	10	70	4.48%
2101 - 2200	4	5	8	12	8	12	15	64	4.09%
2201 - 2300	4	7	4	4	3	8	11	41	2.62%
2301 - 0000	8	9	6	3	2	6	1	35	2.24%
<b>Total</b>	<b>220</b>	<b>259</b>	<b>217</b>	<b>214</b>	<b>209</b>	<b>214</b>	<b>215</b>	<b>1563</b>	<b>100%</b>





### Ambulance Average Run Times

Action	Time
Enroute	00:03:59
To Scene	00:04:00
At Scene	00:22:25
To Destination	00:16:27
Back in Service	00:55:19
<b>Total</b>	<b>01:42:10</b>

### Ambulance Runs by Primary Role of Unit

Primary Role of Unit	# of Times	% of Times
ALS Ground Transport	838	53.61%
BLS Ground Transport	205	13.12%
ERU (Non-Transport)	1	0.06%
Non-Transport	419	26.81%
Not Applicable	19	1.22%
Other Transport	2	0.13%
Roto-Craft Transport	1	0.06%
Transport	1	0.06%
Unknown Transport	2	0.13%
Unknown	75	4.80%
<b>Total</b>	<b>1563</b>	<b>100%</b>

## Transport Hospital

<b>Destination</b>	<b># of Runs</b>	<b>% of Runs</b>
Air transport	1	0.06%
AURORA LAKELAND MED CTR	1	0.06%
AURORA MED CTR – SUMMIT	14	0.90%
CHILDREN'S HOSPITAL OF WI	18	1.15%
Clement J Zablocki VA Medical Center	2	0.13%
COMMUNITY MEM HOSP -MENOMONEE FALS	1	0.06%
ELMBROK MEMORIAL HOSPITAL	5	0.32%
FROEDTERT MEM. LUTHERAN HSP	14	0.90%
Home/Residence	1	0.06%
LAKELAND HEALTH CARE CENTER	42	2.69%
MEMORIAL HOSP OF BURLINGTON	11	0.70%
MERCY WALWORTH HOSPITAL	1	0.06%
Not Applicable	4	0.26%
Not Known	1	0.06%
Not transported	176	11.26%
OCONOMOWOC MEMORIAL HOSPITAL	20	1.28%
Other Unlisted Wisconsin Location	1	0.06%
ROGERS MEMORIAL HOSP. INC.	1	0.06%
St Joseph -Wheaton Franciscan-Milwaukee	1	0.06%
ST LUKES MED CTR 19	1	0.22%
The Wisconsin Heart Hospital	1	0.06%
WAUKESHA MEMORIAL HOSPITAL 911	58	0.29%
WEST ALLIS MEM. HOSPITAL	50	0.32%
No Destination	312	19.96%
<b>Total</b>	<b>1563</b>	<b>100%</b>

## 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: 2015  
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)



Vehicle: 3452 – 1995 Med Tec Ford E-350  
Year Purchased: 2007  
Approximate Cost: \$ 18,500  
Replacement Year: 2012  
Replacement Cost: \$ 146,000

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

