

Marshfield Fire and Rescue Department 2016 Annual Report



514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

February 13, 2017

Mayor Chris Meyer
Common Council Members
Police and Fire Commission Members
City Administrator Steven Barg
City of Marshfield Residents

Ladies and Gentlemen:

I proudly present the 2016 annual report for the Marshfield Fire and Rescue Department (MFRD). This report reflects the summary narrative and statistics, which only begin to reflect the many accomplishments of our dedicated staff. These accomplishments would not have been possible if not for the vision and dedication of the Police and Fire Commission, the investment and support of the Common Council and elected or appointed officials, and ultimately the support from the public we proudly serve.

Operational Review

MFRD saw an increase of 43 calls over 2015 of which 40 were fire related and only 3 were EMS related. The 40 fire calls were mainly in the area of false and accidental alarms. MFRD also showed an increase of \$520,850 in the amount of fire loss as compared to 2015.

Concurrent calls (separate calls at the same time) continue to be a strain on our resources. One third of all of MFRD's calls have been concurrent for the last ten years. This will play a large part in any future operational plans for this department especially as it relates to staffing.

The Regional Fire Training Center located at 2615 South Vine Avenue in Marshfield was developed through a partnership with Mid-State Technical College (MSTC) and the city of Marshfield in 2006. This facility continues to provide many opportunities to train our members and certify fire service students in the MSTC district.

The MFRD as well as those individuals expected to play key roles as outlined in our Emergency Operations Plan (EOP), continue to work to improve Marshfield's response to large scale emergencies. This year saw us strengthening our Emergency Operations Center operations with a two day drill. Every drill conducted by the Emergency Planning Committee advances our emergency response capabilities as well as helping to build a strong working relationship between those public and private agencies who will be working together.

Financial Review

Overall, all three budgets administered by the MFRD operated within the 2016 budget parameters. Specifically, we continue to operate our fire prevention and protection budgets as anticipated. Our ambulance operation revenue has experienced a continued increase in write-offs, mainly due to increased automatic write-offs, specifically in Medicare payments, which run around two thirds of our total ambulance trip billing. We have seen these write-offs of our total ambulance trip billing; grow from \$82,627 (10.3%) in 2009 to \$555,895 (40%) in 2016. Closely monitoring fees and contracts has allowed MFRD to continue to see a positive fund balance.

MFRD had previously developed an Apparatus Replacement Schedule with the assistance of the City's Finance Director and City Administrator, to minimize the financial impact in these large ticket purchases. This schedule saw MFRD ordering a new aerial in 2016 with delivery scheduled for the summer of 2017.

With these changes, we will continue to provide the residents of the city of Marshfield with the type of fire and emergency medical services they expect and deserve.

Summary

Overall, I am very pleased with the progress the department has made in 2016. In 2017, we will continue to evaluate and improve upon the services we provide and we are looking forward to the challenges of the future. We have planned another ambitious year and we will continue to seek improvements to serve our citizens in the most cost-effective and equitable manner as possible.

Respectfully,

Robert P. Haight III, Fire Chief
Marshfield Fire and Rescue Department

ANNUAL REPORT TABLE OF CONTENTS

Letter from Chief Haight i-ii

Table of Contents iii-iv

Fire and Rescue Department Profile 1 - 2

Mayor, Administrator, and Common Council 3

Officers of Fire and Rescue Department Organization 4

Personnel – Administrative Staff 5

Personnel – Green Shift 6

Personnel – Blue Shift 7

Personnel – Red Shift 8

Data Involving Fire and Rescue Department Personnel..... 9

Fire Service Coverage/Ambulance Service Coverage10

Statistics – City and Rural11

Financial Statement12

Emergency Medical Services Program Overview 13 - 14

Public Education Report..... 15 - 16

Fire Prevention Activities 17 - 18

UST/AST Program..... 19 - 20

Safety Committee Report21

Response Overview (Non-Emergency Medical Services)22

Fire Investigation Report..... 23 - 24

Hazardous Incident Response Program..... 25 - 26

Summary of Emergency Operations Group27

Training Overview28

Summary of Apprenticeship Training Program.....29

Ambulance Statistics – Patient Contacts per Month.....30

Ambulance Statistics – EMS Runs By District/Type.....31

Ambulance Response Statistics32

Ambulance Emergency Response – Percentage of Calls by Minutes – 2016.....33

Ambulance Emergency Responses – Percentage of Calls by Minutes – 2012 to 2016.....34

Marshfield Area Population by Percentage of Age.....35

Ambulance Responses by Age – 2015 to 2016	36
Ambulance Contacts by Age Group Comparison – 2015 to 2016.....	37
Patient Level of Care Provided	38
Yearly Fire Inspections.....	39
Causes of Fire Alarms – City.....	40 - 41
Fire Loss Comparison – 2012 to 2016	42
Fire Emergency Response – Percentage of Calls by Minutes	43
Carbon Monoxide Incidents – 2012 to 2016	44
Apparatus Value and Depreciation Schedule	45
Apparatus Mechanical and Maintenance.....	46
Fire Apparatus Replacement Schedule.....	47

FIRE AND RESCUE DEPARTMENT PROFILE

Emergency 911

Non-Emergency 715-486-2094

Personnel

- 37 full-time members.
- Governed by a five member police and fire commission.

Services Provided

Emergency Medical Service

- Advanced Life Support (ALS) and Basic Life Support (BLS) services for the city of Marshfield and thirteen townships and villages in the central Wisconsin area (314.895 square miles).
- Neonatal transports, pediatric transports, and paramedic intercepts for Ministry Saint Joseph's Hospital Spirit of Marshfield program.
- Falls prevention program.
- Emergency medical services education/internship for students from three technical college districts.
- Emergency medical services for special events.

Fire Prevention

- Fire inspections for the city of Marshfield businesses and multi-family residences (approximately 2,500 annually).
- Fire prevention perspective of development plan reviews for new construction.
- Pre-fire planning.
- Fire prevention education.
- Juvenile fire safety program for Marshfield and surrounding areas.
- Fire investigation services for Marshfield and Wood County.
- Under ground and above ground storage tank program (UST/AST) coordination.
- Sprinkler plan review.
- Emergency site plan development and updating for local businesses.

Fire Protection

- Fire suppression for the city of Marshfield (13.692 square miles).
- Hazardous materials response for the northern half of Wood County.
- Hazardous materials response for State of Wisconsin as a type III response.
- Fire protection education/internship for students from three technical college districts.
- Fire protection for special events.
- Co-management of Marshfield emergency management program.
- Special response rescue for central Wisconsin (confined space, trench collapse, elevated extrication, and collapse).
- Foam suppression units for central Wisconsin flammable liquid fires/releases.

Financial Overview

- 2016 Fire and Rescue Department Expenditures
- 2016 Fire and Rescue Department Revenues

Service Area

- Fire Service – City of Marshfield – 13.692 square miles
- Ambulance Service – City of Marshfield, three villages and ten townships, 314.895 square miles, population 31,948

Typical Annual Response (five year average)

- 255 Fire Related Responses
- 2,563 Emergency Medical Responses

2016

MAYOR, CITY ADMINISTRATOR, AND MEMBERS OF THE COMMON COUNCIL

Mayor

Chris L. Meyer

City Administrator

Steve Barg

Alderspersons

1 st District		Michael Feirer
2 nd District		Alanna Feddick
3 rd District		Chris Jockheck
4 th District	(President)	Gordon Earll
5 th District		Ed Wagner
6 th District		Tom Witzel
7 th District		Jason Zaleski
8 th District		Rebecca Spiros
9 th District		Tom Buttke
10 th District		Peter Hendler

2016

OFFICERS OF FIRE AND RESCUE DEPARTMENT ORGANIZATION

Police and Fire Commission

President	Andy Keogh
Vice President	Mike Meyers
Secretary	Nate Mueller
Commissioner	Terry Frankland
Commissioner	Randy Gershman

Fire Fighters Local 1021

President	Brad Breuer
Vice President	Lance Christopher
Secretary/Treasurer	Peter Fletty
Executive Board	Vacant
Executive Board	Ben Griesbach
Executive Board	Erik Jonas

ADMINISTRATIVE STAFF



Fire Chief Robert Haight
Date of Hire 06/10/1990
Paramedic



*Deputy Chief Ed Erickson
Date of Hire 01/14/1990
Fire Prevention Coordinator



*Deputy Chief Scott Owen
Date of Hire 07/08/1996
EMS Coordinator



Sue Berger
Administrative Assistant III
Date of Hire 11/15/1995

*Denotes one or more committee

GREEN SHIFT



* Deputy Chief Craig DeGrand
Date of Hire 02/25/1986
EMT
Department Training Officer
FTO/Apprenticeship Coordinator



* Lieutenant Jon Lucareli
Date of Hire 11/07/1994
EMT
Special Response Team



* Fire Fighter Jeff Barth
Date of Hire 06/17/1996
EMT
Relief Lieutenant
Special Response Team



* Fire Fighter Jason Foth
Date of Hire 06/26/1998
Paramedic
Special Response Team



* Fire Fighter Brian Barnes
Date of Hire 08/28/2000
Paramedic
Relief Lieutenant
Field Training Officer
Special Response Team
Child Passenger Safety Tech.



* Fire Fighter Jim Meyer
Date of Hire 01/05/2004
EMT
Special Response Team



* Fire Fighter Ben Griesbach
Date of Hire 02/25/2008
Paramedic
SCBA Fit Test Tech.



* Fire Fighter Lucas Frydenlund
Date of Hire 09/07/2010
Paramedic
SCBA Fit Test Tech.



* Fire Fighter Jeni Sadauskas
Date of Hire 06/23/2014
Paramedic



* Fire Fighter Stephen Annen
Date of Hire 09/23/2015
Paramedic



Fire Fighter Tyler Hines
Date of Hire 07/11/2016
Paramedic

* denotes being a member of one or more committees

BLUE SHIFT



* Deputy Chief Jody Clements
Date of Hire 09/03/1993
EMT
Safety Committee Chair
NFPA 1989 Compliancy Officer
UST/AST Program Coordinator



* Lieutenant Brad Breuer
Date of Hire 09/09/1992
EMT



Fire Fighter Dave Patton
Date of Hire 10/27/1997
Paramedic
Sprinkler/Alarm Maint.



* Fire Fighter Pete Fletty
Date of Hire 12/08/1997
Paramedic
Relief Lieutenant
UST/AST Tank Inspector
SCBA Fit Test Tech.
Field Training Officer
Special Response Team



* Fire Fighter Troy Weiland
Date of Hire 08/02/1999
Paramedic
Relief Lieutenant
Field Training Officer
Fire Investigator IAAI-CFI
Special Response Team



Fire Fighter Joe Vanden Elzen
Date of Hire 08/26/2002
EMT
Field Training Officer



Fire Fighter Lance Christopher
Date of Hire 01/20/2003
EMT
Field Training Officer



* Fire Fighter Erik Jonas
Date of Hire 02/26/2007
Paramedic
Falls Prevention Coordinator
JFS Coordinator



* Fire Fighter Jon Altman
Date of Hire 10/13/2008
Paramedic
Child Passenger Safety Tech.
SCBA Fit Test Tech.



Fire Fighter Matt Karnowski
Date of Hire 03/24/2014
Paramedic



* Fire Fighter Anthony Luchini
Date of Hire 08/10/2015
Critical Care Paramedic

* denotes being a member of one or more committees

RED SHIFT



* Deputy Chief Roy Dolens
Date of Hire 01/02/1988
EMT
Incident Management Team
Fire Investigator IAAI-CFI
Haz-Mat Coordinator
Specialized Rescue Coordinator



* Lieutenant Kelly Esker
Date of Hire 09/15/1995
EMT
Fire Investigator IAAI-CFI
UST/AST Tank Inspector
Special Response Team



* Fire Fighter Rodney Bauer
Date of Hire 05/05/1997
EMT
Field Training Officer
Special Response Team



* Fire Fighter Steve Bakos
Date of Hire 07/13/1998
Paramedic/Relief Lt.
Elevator Fire Service Maint.
Field Training Officer
Special Response Team



* Fire Fighter Pete Winistorfer
Date of Hire 09/24/2001
Paramedic
Relief Lieutenant
Child Passenger Safety Tech.
Special Response Team



* Fire Fighter Everett Mueller
Date of Hire 06/28/2004
EMT
Special Response Team



* Fire Fighter Jason Schad
Date of Hire 04/03/2006
Paramedic
Field Training Officer



Fire Fighter Bjorn Gilbertson
Date of Hire 06/16/2008
Paramedic



* Fire Fighter Nate McNamara
Date of Hire 07/06/2009
Paramedic
Extinguisher/SCBA Hydro
Maint.



* Fire Fighter Zachary Miller
Date of Hire 07/20/2015
Paramedic



Fire Fighter Paul Tackes
Date of Hire 01/18/2016
Paramedic

* denotes being a member of one or more committees

DATA INVOLVING FIRE AND RESCUE DEPARTMENT PERSONNEL

Promotions

March 24, 2016	Fire Fighter/Paramedic Matthew Karnowski to Fire Fighter 2
June 30, 2016	Fire Fighter/Paramedic Jeni Sadauskas to Fire Fighter 2
July 20, 2016	Fire Fighter/Paramedic Zachary Miller to Fire Fighter 1
August 10, 2016	Fire Fighter/Paramedic Anthony Luchini to Fire Fighter 1
September 23, 2016	Fire Fighter/Paramedic Stephen Annen to Fire Fighter 1

Hired

January 18, 2016	Fire Fighter/Paramedic Paul Tackes
July 11, 2016	Fire Fighter/Paramedic Tyler Hines

Duty Incurred Disability

None

Retired

None

Resigned

April 14, 2016	Fire Fighter/Paramedic Eric Lang
----------------	----------------------------------

Terminated

None

Members Retired	0
Members Resigned	1
Members Hired	2
Total Number of Injuries	1
Total Number of Lost Time Injuries	1
Total Hours Lost Time Injuries.....	248 hours
Total Hours Lost Due to Sickness.....	4,094.75 hours
Total Hours Used for Family Leave.....	1,182.50 hours

FIRE SERVICE COVERAGE

<u>City</u>	<u>Population</u>	<u>Square Miles</u>
Marshfield – Wood and Marathon County	19,201	13.692

AMBULANCE SERVICE COVERAGE

<u>City</u>		
Marshfield – Wood and Marathon County	19,201	13.692

Villages

Auburndale	707	2.130
Hewitt	832	0.800
Milladore	276	1.063

Townships

Auburndale	843	30.200
Cameron	469	6.850
Fremont	1,272	36.000
Lincoln	1,572	34.132
Marshfield	776	16.726
McMillan	2,014	35.664
Milladore	685	32.938
Richfield	1,632	34.800
Rock	862	34.500
Sherry	807	35.400

TOTAL	31,948	314.895
-------	--------	---------

STATISTICS - CITY AND RURAL

Total Number of Fires Responded to in the City	39
Total Number of Hazardous Condition Alarms in the City	58
Total Number of False or Accidental City Fire Alarms	138
Total Number of Other Types of City Calls	73
Total Number of City Fire Related Calls	308
Total Number of Ambulance Calls (less false or accidental)	2,571
Total Number of Service Calls	7
Total Number of Good Intent Calls	56
Total Number of False or Accidental Ambulance Alarms	24
Total Number of Ambulance Calls	2,658
Total Number of Calls Received by this Department (includes fire and ambulance)	2,966
<hr/>	
5 Year Average "City Fire Loss" for which the Department was called	\$469,782.00
2016 "City Fire" Related Deaths	0
2016 "City Fire Loss" for which the Department was called	\$678,250.00
2016 Property Value Saved	\$1,681,800.00
2016 Estimated Fire Loss <u>Per Capita</u> for the City of Marshfield	\$35.32
Per Capita Cost of Maintaining the Fire Department	\$142.33
Per Capita Cost of Maintaining the Ambulance	\$0.00

Marshfield Fire and Rescue Department 2016 Financial Statement

	Budgeted	Actual (Before Closing)
Fire Prevention		
Personnel, Operation and Maintenance	\$655,607.08	\$680,328.60
Revenue	\$67,346.00	\$71,400.00
Actual Cost (Budget less Revenue)	\$588,261.08	\$608,928.60
Fire Protection		
Personnel, Operation and Maintenance	\$2,183,928.88	\$2,132,509.37
Revenue	\$22,488.00	\$20,439.00
Actual Cost (Budget less Revenue)	\$2,161,440.88	\$2,112,070.37
Total Actual Cost of Fire Protection & Prevention	\$2,749,701.96	\$2,720,998.97
Per Capita Cost of Maintaining the Fire Dept.	\$143.83	\$142.33

The Ambulance Service is an Enterprise Fund and is self-supporting. This service is not supported by Tax Funds.		
	Budgeted	Actual (Before Closing)
Ambulance		
Personnel, Operation and Maintenance	\$1,029,827.48	\$997,764.94
Revenue	\$1,389,246.00	\$1,295,800.93
Actual Cost (Budget less Revenue)	-\$359,418.52	-\$298,035.99
Total Revenue Over Cost for Ambulance	\$359,418.52	\$298,035.99
Per Capita Cost of Maintaining the Ambulance	\$0.00	\$0.00

If the Ambulance Service was supported by tax dollars then the Per Capita cost of maintaining the Fire & Rescue Department would be:		
	Budgeted	Actual (Before Closing)
Fire Prevention	\$588,261.08	\$608,928.60
Fire Protection	\$2,161,440.88	\$2,112,070.37
Ambulance	-\$359,418.52	-\$298,035.99
	\$2,390,283.44	\$2,422,962.98
Per Capita Cost of Maintaining the Fire Dept.	\$125.03	\$126.74

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Scott M. Owen, Sr., Deputy Fire Chief of EMS

DATE: January 6, 2017

SUBJECT: 2016 Emergency Medical Services Program Overview

Since 1996 the Marshfield Fire and Rescue Department has been providing paramedic-level service to the city of Marshfield and the surrounding areas. Department personnel strive to provide those we serve with the highest level of professionalism and pre-hospital care possible. Department Emergency Medical Technicians (EMTs) and Paramedics make every effort to decrease response times while increasing the level of care delivered to each customer. A high level of service is only able to be provided by offering organized training, dependable equipment, and sufficient resources while remaining fiscally responsible.

Department members are cross-trained in both fire services and emergency medical care. This duality of skills and equipment provides a very efficient model for providing both EMS and fire services to the community at a very high level. Response time requirements based on progression timelines for both critical medical events and fires are very similar which makes the medical response pair well with the fire department infrastructure. In 2016 the fire department responded to 2,965 calls for service with 2,658 (89.6%) of them being emergency medical responses. This is almost identical to the amount of calls the department responded to in 2015 (2,655 EMS calls).

The Marshfield Fire and Rescue Department continues to participate with area technical schools by providing ride along experience for EMT's, paramedics, and respiratory therapists in training. This program allows the students to learn from our ambulance crews and experience firsthand those skills they are learning in school.

The number of advanced life support (paramedic and EMT-I) calls in 2016 totaled nearly 59%, a slight increase when compared to 58% in 2015. The remaining 41% of calls in 2016 were at the EMT level. Marshfield has only 18% of its population over the age of sixty-five, yet this group accounts for 61% of our total ambulance calls. This group will account for over 74% of our total ambulance calls by the year 2030 based on the census bureaus projected population tables.

In the first quarter of 2016 the department switched patient care reporting programs to an electronic patient care report system. This switch allows EMS personnel to utilize tablets in the field for patient care documentation as well as obtaining signatures. EMS personnel now have the opportunity to have majority of the patient care reports completed before returning to the station. The ultimate goal for the department is to be paperless when it comes to patient care reporting and billing and this will continue to be worked on in 2017 and beyond.

This year the department added additional equipment for the safe transfer and transport of bariatric patients. Equipment purchased included a ramp and winch system, bariatric cot, retrofit to three of our four ambulance cots, as well as a few lifting devices. One ambulance was set up to be used as the bariatric ambulance as needed and a secondary one will be retrofitted to be the backup ambulance for bariatric transfers in the event the primary is out of service.

Marshfield Fire and Rescue Department is in its eighth year working closely with the Central Wisconsin Falls Prevention Coalition. This is a proactive approach to reducing the number of ambulance contacts that this department will have with the sixty-five and older population. This endeavor will also allow us to help in matching persons in this population with any agencies that may be of assistance for services and adaptive equipment.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Erik Jonas, Public Education Coordinator

DATE: January 31, 2017

SUBJECT: 2016 Public Education Report

Throughout 2016 the Public Education Committee has been busy with delivering quality educational programs to the citizens of Marshfield. These educational opportunities have been provided in our elementary schools, tours of the station, special events, and public service announcements. The goal of each of these opportunities is to make the city of Marshfield a safe and pleasant place to call home.

Pre-K and Grade School

Currently this age group receives the most educational opportunities as we offer a wide range of activities during fire prevention week at the schools. We also visit the daycares and pre-schools to deliver education as well as offering stand-a-lone educational programs such as the Rainbow Valley Fire Department Curriculum that supplement our visits. Tours of the fire station are conducted throughout the year with many of the participants being of this age group. While the public education committee is responsible for planning these activities its delivery is the responsibility of all personnel on the fire department.

Adult Education

Child Passenger Safety

The Marshfield Fire and Rescue Department has been a part of the National Child Passenger Safety Program for a number of years. Throughout 2016 we have offered education and assistance in the safe installation of child passenger seats at the department by appointment. The Marshfield Fire and Rescue Department has partnered with Wood County Safe Kids Coalition to provide multiple car seat clinics utilizing one of the apparatus bay. During these clinics, there are multiple technicians on hand to provide education and proper installation of car seats with no appointment necessary.

The department is very committed to ensuring that this program is sustainable, which will equate to a safer environment for the children who live in greater Marshfield area.

I would like to thank everyone involved for being supportive of this program. I truly believe this program is appreciated by the citizens we serve and is keeping children of the Marshfield area safer on the roads.

Falls Prevention

The Marshfield Fire and Rescue Department implemented the Falls Prevention Program in April of 2010 to address the rising number of people sixty-five years and older who are being injured or are dying as a result of falls within our service area. The Marshfield Fire and Rescue Department, along with the Aging and Disability Resource Center of Central Wisconsin, and the Pittsville Fire Department have partnered to form the Wood County Falls Prevention Coalition. The main goal of the Falls Prevention Program is to keep the target population living safely within their homes. The Marshfield Fire and Rescue Department continues to host the “Stepping On” course offered by the Aging and Disability Resource Center. This class highlights the importance of strength and balance training to prevent falls with the target age group. Current members of the Marshfield Fire and Rescue Department falls prevention team are Fire Chief Robert Haight and Fire Fighter/Paramedic Erik Jonas.

Conclusion

Thank you to all of the department members for your support of the Public Education Program and for your assistance in many of the program deliveries throughout the year. We would also like to thank the Marshfield Police and Fire Commission, the Common Council, and the Mayor for their support of this worthwhile program.

The last thank you goes to the truly dedicated members of this year’s Public Education Committee, consisting of Deputy Chief Ed Erickson, Deputy Chief Scott Owen, Fire Fighters Brian Barnes, Steve Bakos, Lance Christopher, Erik Jonas, Jonathan Altman, Jeni Sadauskas, Zack Miller, and Steve Annen. Without the commitment of these individuals the programs we provide would never be a success.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Ed Erickson, Deputy Fire Chief

DATE: January 5, 2017

SUBJECT: 2016 Fire Prevention Activities

Marshfield Fire and Rescue Department's Fire Prevention Program has six main focuses. The six focuses include fire inspections, building plan review, sprinkler plan review, pre-fire planning, annual evaluations for hydrants, and education. Each focus contributes to minimizing the city's fire loss. Fire affects more than just buildings. It routinely causes loss of business revenue, jobs, economic stability, health, personal property, and lives. It is with this knowledge that every member of this department continuously strives to strengthen the Fire Prevention Program.

The first focus of the program is fire inspections. In 2016, a total of 2,571 fire prevention inspections were performed. There were 894 violations found with 775 corrections. In 2016, we had a 86.69% clearance of violations.

The second focus is on plan review. We were able to accomplish this by being a member of the Development Review Team (DRT) for the city of Marshfield. The team consists of representatives from Planning and Economic Development, Zoning, Engineering, Building Services, Marshfield Utilities, and the Marshfield Fire and Rescue Department. With the combined efforts of each department, we have been able to meet with the developers and answer all the questions and concerns that they may have. The DRT met seven times in 2016 and provided input on seven projects or potential projects for the city of Marshfield. The program allows us to provide investors/contractors information up front as to what each department's requirements and concerns are.

The third focus is fire sprinkler plan review and permit approval. We have been able to ensure the safety concerns of the Marshfield Fire and Rescue Department through the sprinkler plan review process. We had nine applications for sprinkler permits in 2016.

The fourth focus is our Pre-Fire Plan Program. Pre-fire planning provides essential information by providing building drawings, a list of all hazards found in the building, water flow calculations, and suggested firefighting tactics. We have been utilizing the same process for our pre-plan program since 2003. This department has completed slightly over 200 pre-fire plans.

The fifth focus is an annual evaluation of Marshfield's yearly street construction plans for the year. This focus is on the street layout and hydrant placement for existing and new street construction.

The sixth focus of education is detailed in the "Public Fire Education" report.

For the year 2017, we will continue to strive for an inspection violation correction ratio of over 85%. We will be continuing to make some technological advancement to build our occupancy and pre-fire planning section of FireRMS. We plan to keep working closely with various governmental agencies and businesses for the advancement of fire safety. For general fire inspections, we will continue to focus on vacant buildings by evaluating their condition and making them as safe as possible. We will be providing information to the Wood County Dispatch with updated contact information for all commercial properties. As in the past, Marshfield Fire and Rescue Department fire prevention officers look forward to the challenge of making Marshfield a fire safe city.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Jody Clements, UST/AST Inspector
Kelly Esker, UST/AST Inspector
Pete Fletty, UST/AST Inspector

DATE: January 2, 2017

SUBJECT: 2016 UST/AST Program

In May of 1992, the Marshfield Fire and Rescue Department entered into a contract with the State of Wisconsin to assist in enforcing Wisconsin State Statutes ss. 101.02(15)(a) and 101.14(1)(a), Stats. These statutes are in place to provide fire and life safety through the safe storage, display, installation, operation, use, maintenance and transportation of flammable, combustible and hazardous liquids and the equipment, facilities, buildings and premises that are used to store, transfer and dispense them. As an agent of the state, we can provide these services more economically and efficiently under contract. The Marshfield Fire and Rescue Department is under contract to provide this service to the city of Marshfield, the villages of Arpin, Auburndale, and Hewitt, as well as the townships of Arpin, Auburndale, Cameron, Lincoln, Marshfield, Richfield, and Rock.

Our contract with the Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) provides the city of Marshfield with revenue that previously would have stayed at the state level. This program also provides our department with the control and knowledge of current systems, new products, and new systems that are entering the city of Marshfield and surrounding rural communities. We also provide services when systems are removed. Those services include, but are not limited to, environmental protection and public safety.

The UST/AST Program and its codes continue to be one of the most dynamic codes in the State of Wisconsin due to new technologies and the advent of biofuels. In February of 2009, the Wisconsin Department of Agriculture, Trade, and Consumer Protection, Comm. 10 (now ATCP 93) Flammable, Combustible and Hazardous Liquids Code, was updated and became law. Due to 2010 regulations, many tank systems required updates to maintain compliance. These upgrades include, but are not limited to, auto shut-off overfill protection, corrosive protection on

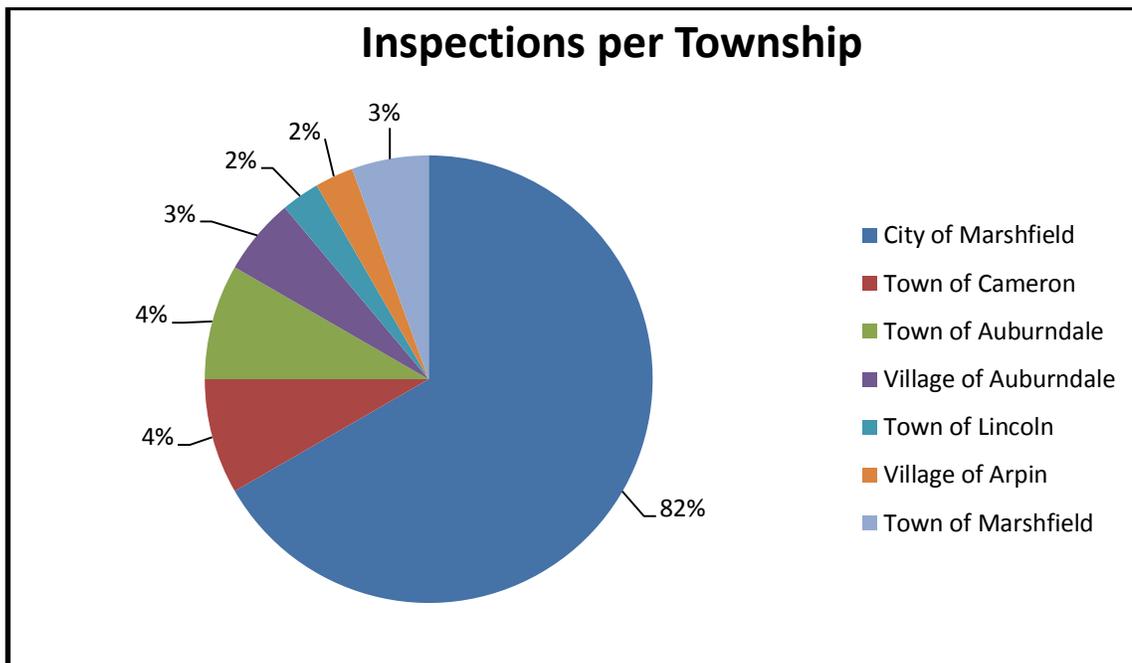
underground piping from an AST, leak detection and visual/audible alarms. On January 1st, 2012, the designation of Class A, Class B, and Class C operator was required.

The Marshfield Fire and Rescue Department presently has three licensed Liquid Petroleum Officers (LPOs). LPOs include Deputy Chief Jody Clements, Lieutenant Kelly Esker, and Relief Lieutenant Peter Fletty. LPOs Clements, Esker, and Fletty attended continuing education training needed for maintaining certification in Tomah in the spring and fall of 2016. This training is provided by Wisconsin DATCP employees. Clements and Esker are due for certification renewal by November 30, 2017 and Fletty is due for renewal by May 19, 2018.

The main goals of the UST/AST program include public safety, environmental safety, and knowledge of current and newly installed systems within our response area. In 2016, we met those goals and will remain diligent to meet those goals again in 2017. Due to state budget cuts we must continue to create ways to stay fiscally sound while being responsive to our customers. Many fire departments around the state have not renewed their contracts with the Department Agriculture, Trade, and Consumer Protection due to budget issues. The Marshfield Fire and Rescue Department has been able to maintain the program by being fiscally responsible. We will be reviewing the new contract from DATCP this spring, and hope to expand our inspection area in the future.

Marshfield's LPOs completed thirty-five tank system inspections, two removals, four new installations, and one upgrade to a previous tank system in 2016. The program continues to be proactive regarding the mitigation of violations.

The following pie chart indicates the percentage of inspections performed in each contracted area for 2016.



514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD
The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Jody Clements, Deputy Fire Chief

DATE: February 8, 2017

SUBJECT: 2016 Safety Committee Annual Report

The Safety Committee was established in 2005 to form a proactive group of employees to promote safety in the workplace. The committee meets on a quarterly basis to discuss safety concerns and potential hazards in the workplace, and receive some education to take back to their respective shifts.

The committee works to eliminate safety problems in and around the station as well as on emergency scenes. As problems or issues are found they are corrected, if possible. If immediate correction is not possible, the employees are made aware of the issues until a solution is found. The safety problems are usually found by the committee members conducting a walk around inspection of the premises or by reports from department members to their shift representatives.

The group reviews all workers compensation claims for the previous quarter looking at the nature of the injury and discusses ways of preventing the injury from occurring again, which has resulted in educational programs and/or adjusting protocols to prevent future injury.

The committee also reviews all new and revised Safety Data Sheets (SDS) for products brought into the fire station. These SDS's are reviewed for the products use, potential hazards, and the level of personal protection required to be used by the employees. Department members understand that when new products are brought into the station, they may not be used until all employees are aware of the hazards on the label, aware of the appropriate precautions to be taken, and the SDS is in the SDS library.

The committee continues to challenge itself in being proactive for the safety of all employees in every aspect of the job to help ensure they end their tour of duty unharmed and also have long term health beyond their years of employment.

The current members of the safety committee are:

Fire Chief Robert Haight III	Deputy Chief Jody Clements, Chair
Deputy Chief Ed Erickson	Deputy Chief Scott Owen
Lieutenant Brad Breuer	Fire Fighter Rodney Bauer
Lieutenant Kelly Esker	Relief Lieutenant Peter Fletty
Relief Lieutenant Brian Barnes	Fire Fighter Jim Meyer

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD

The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Scott Owen, Deputy Fire Chief

DATE: February 9, 2017

SUBJECT: 2016 Response Overview (Non-Emergency Medical Services)

Structure Fires, Vehicle Fires, and Carbon Monoxide Responses

The 2016 structure fire loss in Marshfield increased from the structure fire loss in 2015. 2016 saw a loss of \$678,250 on property valued at \$2,360,050 while 2015 saw a fire loss of \$157,400 on property valued at \$2,758,700.

2016 structure fires over \$10,000 damage:

<u>Address</u>	<u>Structure Fire Loss</u>
2207 East 5 th Street	\$300,000
301 West Marathon Street	\$273,600
306 West Cleveland Street	\$ 45,000
202 West Arnold Street	\$ 25,000

Vehicle fire loss for 2016 totaled \$12,800, which is an increase over the 2015 vehicle fire loss of \$8,050.

This is the 23rd year tracking carbon monoxide (CO) related responses. This area of service is triggered by various factors. First, homeowners have become more aware and are installing carbon monoxide detectors. Second, homes are more energy efficient which leads to less fresh air infiltration. This can lead to increased carbon monoxide buildup if a source develops in the home. The number of carbon monoxide calls has remained consistent over the past several years. This is largely due to improvements in equipment reliability and public education to the dangers of carbon monoxide. In February of 2011, a new carbon monoxide law took effect requiring carbon monoxide detectors to be installed in every residential structure. Newly constructed homes need to have the carbon monoxide detectors hard wired to the building electrical system.

Marshfield Fire and Rescue Department responded to 31 CO related calls in 2016. This is slightly more than the 28 CO calls in 2015. The level of CO detected is up from 2015 with 4 homes having more than 35ppm CO. The remaining CO related calls (27) included 15 responses where no CO was detected and 12 responses with malfunctioning detectors. More than 35 ppm requires immediate evacuation from the home. Fire fighters must wear self-contained breathing apparatus at this level of CO. Fire fighters will attempt to determine the source of the CO and notify service technicians to remedy the problem.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD

The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Roy Dolens, Deputy Fire Chief, IAAI-CFI
Kelly Esker, Lieutenant, IAAI-CFI
Troy Weiland, Relief Lieutenant, IAAI-CFI
Pete Fletty, Relief Lieutenant

DATE: January 5, 2017

SUBJECT: 2016 Fire Investigation Report

The Marshfield Fire Investigation Team conducted four special fire investigations for the year 2016. Special fire investigations are only conducted on a small percentage of the total number of fires that occur in the city during a given year. Special fire investigations are initiated in the event of a serious fire related injury or fatality, a large fire loss, or the lack of an immediately apparent origin and cause determination. The following is a summary of investigations conducted:

February 1, 2016	Structure Fire 306 West Cleveland Street Origin: Kitchen Garbage Container Cause: Careless Use of Smoking Materials Estimated Dollar Loss: \$45,000
April 21, 2016	Structure Fire American Mini Storage 2207 East 5 th Street Origin: Storage Unit #20 Cause: Gas Grill Estimated Dollar Loss: \$300,000
October 2, 2016	Structure Fire 301 West Marathon Street Origin: East Wall of Attached Garage Cause: Hot Charcoal Ember, Spark, and/or Coal Estimated Dollar Loss: \$273,600

October 14, 2016 Structure Fire
 202 West Arnold Street
 Origin: Kitchen Stove Top
 Cause: Over Heated Cooking Oil
 Estimated Dollar Loss: \$25,000

The total fire loss for 2016 special fire investigations is \$643,600. Dollar amount estimates are based on insurance company estimates and property valuation.

The Marshfield Fire Investigation Team consists of the following members:

<u>Fire/Rescue Personnel</u>	<u>Police Personnel</u>
Deputy Fire Chief Roy Dolens, IAAI-CFI	Detective Jason Parks
Lieutenant Kelly Esker, IAAI-CFI	Detective Kevin Hamill
Relief Lieutenant Troy Weiland, IAAI-CFI	
Relief Lieutenant Pete Fletty	

Marshfield fire investigators are members of the Wood County Fire Investigation Task Force, a multi-jurisdictional association that provides investigation assistance, education, and technical support. Relief Lieutenant Weiland serves as the president, Deputy Chief Dolens serves as the vice president, and Lieutenant Esker and Detective Parks serve on the executive board.

In 2016 Relief Lieutenant Pete Fletty was added to the investigation team in anticipation of Deputy Chief Dolens retirement in the coming year. This has allowed Investigator Fletty to receive experience and training to properly transition to the position of fire investigator. In April, Fire Investigator Fletty received valuable interview and interrogation training through the Reid School in Green Bay. In June, Investigator Fletty received basic fire investigation training at the International Association of Arson Investigators seminar held in Stevens Point.

In June, Fire Investigators Dolens, Esker, and Weiland attended the International Association of Arson Investigators Wisconsin Chapter spring seminar held in Stevens Point. Class topics included electrical fires, open source investigations, and lithium ion battery fires.

In September, Fire Investigators Dolens, Esker, Weiland, and Fletty attend the International Association of Arson Investigators Wisconsin Chapter fall conference held in Brookfield. Class topics included NFPA 921 updates, fire dynamics, and use of new technology towards fire investigation. Investigator Weiland was also appointed to the chapter's elections committee.

In December, Investigator Dolens attended the National Fire Academy in Maryland for a two week advanced training course in electrical fire causation. Investigator Dolens brought back the material covered and presented it to the other investigators.

These and other conferences coordinate experience and education to develop the skills and expertise necessary to accurately determine the origin and cause of a fire. Determining cause and origin helps to promote the development of improved fire prevention codes and practices and also helps secure the conviction of arsonists thus, making our community safer.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD
The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Roy Dolens, Deputy Fire Chief

DATE: January 18, 2017

SUBJECT: 2016 Hazardous Incident Response Program

The world we live in has become more and more hazardous. Each year thousands of new chemicals are developed. Current inventories number in hundreds of thousands of known chemicals.

The city of Marshfield has three major highways, four pipelines, one railway, and one airport. Each train car or tractor trailer you see with a diamond shaped placard alerts everyone to the fact that a potential for an accidental release exists. Several facilities utilize radioactive isotopes.

The Marshfield Fire and Rescue Department Hazardous Materials Response Team celebrated its twenty-third anniversary in 2016. October 1, 2014 the new Wisconsin Hazmat System went online. Marshfield is a Level III Team for the State of Wisconsin. This partnership with the state has provided additional funding and training for our team plus increased the resources available statewide. The team is also contracted to provide Level B response in conjunction with Wisconsin Rapids Fire Department to all of Wood County. During 2016 the department responded to twenty-six potential incidents, ten spills (mostly petroleum based from vehicle accidents), and also mitigated four chemical emergencies.

In 1998, Marshfield Fire and Rescue implemented a Confined Space Rescue Team whose original focus was primarily confined space rescues but continues to be expanded to include most technical rescues (elevated extrication, trench, and collapse). Several businesses in Marshfield enter confined spaces as part of normal operations. The confined space rescue team is required by OSHA whenever employees enter a defined confined space.

In 2016, we upgraded our five meters to Draeger four-gas meters. Our old meters were no longer going to be supported by the company. The new meters are more stable and should give us years of usable service.

Union Pacific Railroad provided funding to send Lieutenant Kelly Esker, MPO Jason Foth, and Fire Fighter James Meyer to the Crude by Rail training in Colorado Springs, Colorado. The training center is the largest in the country and utilizes actual rail cars and live fire with practical application of foam product. All costs were covered through this program.

In 2016, the annual hazmat refresher was conducted by Nicolet Technical College.

Thanks, in large part, to the additional state funding the department was able to send eight hazmat technicians to the annual Wisconsin Association of Hazmat Responders (WAHMR) conference in Stevens Point. Deputy Chiefs Dolens and Clements sit on the Wisconsin Hazmat System Coordinators work group.

2016 Hazardous Incident Response Personnel

Department personnel trained to Hazmat Awareness Level.....36
Department personnel who completed the E.P.A. Technician Level Course.....30
Department personnel who completed Confined Space Rescue and Ropes Rescue Training.....30

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD
The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Craig DeGrand, Deputy Fire Chief

DATE: January 4, 2017

SUBJECT: 2016 Summary of Emergency Operations Group

On July 27, 1999 the Common Council adopted Resolution 99-62 which resulted in the Marshfield Fire and Rescue Department being responsible for the city's Emergency Operation Plan. Section 1 of the resolution states... "That the City of Marshfield adopts the Emergency Operation Plan as written by the Marshfield Fire and Rescue Department"... . The Emergency Operation Plan is updated annually with updates being sent out in April to all plan holders.

The Emergency Operations Group is made up of different department heads throughout the city and some outside agencies like the Marshfield School District, Mid-State Technical College, Ministry Saint Joseph's Hospital, Marshfield Clinic, and others. The Emergency Operations Group is responsible for developing the annual disaster drills that are conducted. The intent of the drill is to show all city agencies just how taxing a disaster would be locally and if we would need help from the county, the state, and/or the federal government (FEMA).

In 2016 the Emergency Operations Group conducted a two day tabletop drill that required plan participants to be involved. The city of Marshfield functional exercise was conducted to allow an opportunity to demonstrate their capability to support and coordinate an emergency that overwhelms local resource capabilities. Emergency preparedness involves a cycle of outreach, planning, development of training, exercising, and improvement. Successful exercises lead to an ongoing program of process improvement. This exercise allowed for a unique experience by offering a two day format that focused on the initial response and the recovery aspects of a large winter storm. Participants found this type of presentation beneficial in simulating different operational periods. Participants were also encouraged to reach out for real world resources in real time allowing an opportunity to obtain realistic resources and gain a greater understanding of the capabilities and time frames associated with these resources. As a result of the exercise, there were strengths identified and several areas for improvement identified. By evaluating performance, the city of Marshfield can continue to build upon their experience and lessons learned to implement changes that can enhance their emergency management program.

The functional drill was put on by Pre-Emergency Planning, LLC through a grant received from Wisconsin Emergency Management and Wood County Emergency Management. We are looking forward to 2017 and continually preparing for all types of emergencies.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Craig DeGrand, Deputy Fire Chief

DATE: January 4, 2017

SUBJECT: 2016 Training Overview

The training for 2016 consisted of various fire and Emergency Medical Service (EMS) training that is required for all personnel. Continued training in department operations highlighted fire training. A constant training focus is the training of all current employees.

Fire training for 2016 included training of the two new recruits that started throughout the year. This training included utilizing the training center's burn building, confined space simulator, and training tower. 2016 seen the return of a contracted hazardous materials refresher class put on by Nicolet Technical College. This class is very valuable for the department due to the fact that we have very few hazardous materials incidents that require a full response. Without these refreshers personnel would lose the knowledge needed to mitigate an incident. The department was also able to send three personnel to Colorado for "Crude by Rail" training that is put on by the railroads. This training taught them how to deal with fires involving Bakken crude being transported across the railways.

A specific area of EMS training for 2016 was the specialized bariatric equipment training. The country's population is getting larger and the equipment needed to transport them is requiring us to invest in the appropriate equipment. This equipment includes the power load system that is designed to lift the bariatric patient into and out of the ambulance thereby reducing the stress on our personnel. The department also purchased a bariatric cot and upgraded the current cots to make them bariatric "friendly". Department personnel also continue to keep up to date on the changes that are being made in the medical field.

Department personnel completed a total of 4,000 hours of training in 2016.

514 East Fourth Street
Marshfield, WI 54449
PHONE (715) 486-2094
FAX (715) 384-8868
mfrd@ci.marshfield.wi.us



MARSHFIELD

The City in the Center

Robert P. Haight III
Fire Chief

FIRE & RESCUE DEPARTMENT

MEMORANDUM

TO: Robert P. Haight III, Fire Chief

FROM: Craig DeGrand, Deputy Fire Chief

DATE: January 4, 2017

SUBJECT: 2016 Summary of Apprenticeship Training Program

In January of 1981, the Apprenticeship Training Program for the Marshfield Fire and Rescue Department was put into service. This is a training program that was implemented by this department, with classes planned and records kept by the officers. This program is in accordance and cooperation with the Joint Council of Fire Service Organizations, the National Fire Protection Association of Fire Fighters Qualification Committee, the Bureau of Apprenticeship and Training, and the U. S. Department of Labor.

This training program operates in the following manner. All new entry level fire fighters, having successfully met all entrance requirements as established by the City of Marshfield Police and Fire Commission, would be required to serve and successfully complete the three year apprenticeship program. This includes on the job learning experiences and related technical instruction. This program has served as an excellent method of sharpening the skills of our current fire fighters.

Our Apprenticeship Committee has periodic meetings to evaluate the program. At present, Deputy Chief Craig DeGrand, Deputy Chief Scott Owen, Fire Fighter Pete Fletty, and Fire Fighter Jason Foth staff the committee.

Progress during 2016 was as follows:

- * On March 24, 2016 Fire Fighter/Paramedic Matthew Karnowski to Fire Fighter 2.
- * On June 30, 2016 Fire Fighter/Paramedic Jeni Sadauskas to Fire Fighter 2.
- * On July 20, 2016 Fire Fighter/Paramedic Zachary Miller to Fire Fighter 1.
- * On August 10, 2016 Fire Fighter/Paramedic Anthony Luchini to Fire Fighter 1.
- * On September 23, 2016 Fire Fighter/Paramedic Stephen Annen to Fire Fighter 1.

There were two fire fighters indentured into the apprenticeship program during 2016, they are Fire Fighter/Paramedics Paul Tackes and Tyler Hines.

AMBULANCE STATISTICS

2016 Patient Contacts

Month	Number of Patients	Loaded Miles	Accounts Receivable
January	224	1,093.5	\$124,791.50
February	161	1,476.2	\$87,290.30
March	227	941.6	\$130,845.70
April	209	992.0	\$113,135.50
May	221	880.0	\$126,344.20
June	200	802.8	\$108,550.40
July	216	1,237.2	\$118,372.40
August	228	890.6	\$135,417.60
September	225	1,015.2	\$128,174.10
October	266	1,042.7	\$152,282.00
November	241	871.1	\$125,680.90
December	240	938.5	\$131,474.40
Total	2,658	12,181.4	\$1,482,359.00

Number of Responses Not Including “No Pick-Ups”

	<u>2016</u>	<u>2015</u>	<u>2014</u>
City of Marshfield	1,566	1,597	1,547
Wood County Calls/Less City	330	359	385
Neo-natal Calls	7	21	19
Other County Calls	48	13	54
Out of Service Area	29	36	23
Intercepts	49	49	41
TOTAL	2,029	2,075	2,069

AMBULANCE STATISTICS

2016 EMS Runs by District/Type

	Total Contacts*	Total Transport Miles	Percentage (%) of Call Volume
City of Marshfield	1,566	3,574.5	58.92%
Township of Auburndale	12	132.0	0.45%
Township of Cameron	12	56.7	0.45%
Township of Fremont	13	209.2	1.35%
Township of Lincoln	36	158.0	1.28%
Township of Marshfield	34	165.0	0.38%
Township of McMillan	35	1,958.0	6.21%
Township of Milladore	10	157.5	0.49%
Township of Richfield	165	149.5	0.26%
Township of Rock	13	220.3	0.68%
Township of Sherry	7	121.1	0.79%
Village of Auburndale	18	38.4	0.08%
Village of Hewitt	21	165.3	1.32%
Village of Milladore	2	168.5	0.49%
Out of Service Area	29	3,225.8	23.66%
Intercepts	49	716.9	1.84%
No Pick Ups	629	309.1	1.09%
Neo-natal	7	655.6	0.26%
TOTAL	2,658	12,181.4	100.00%

* Includes False Alarms and Cancelled Calls

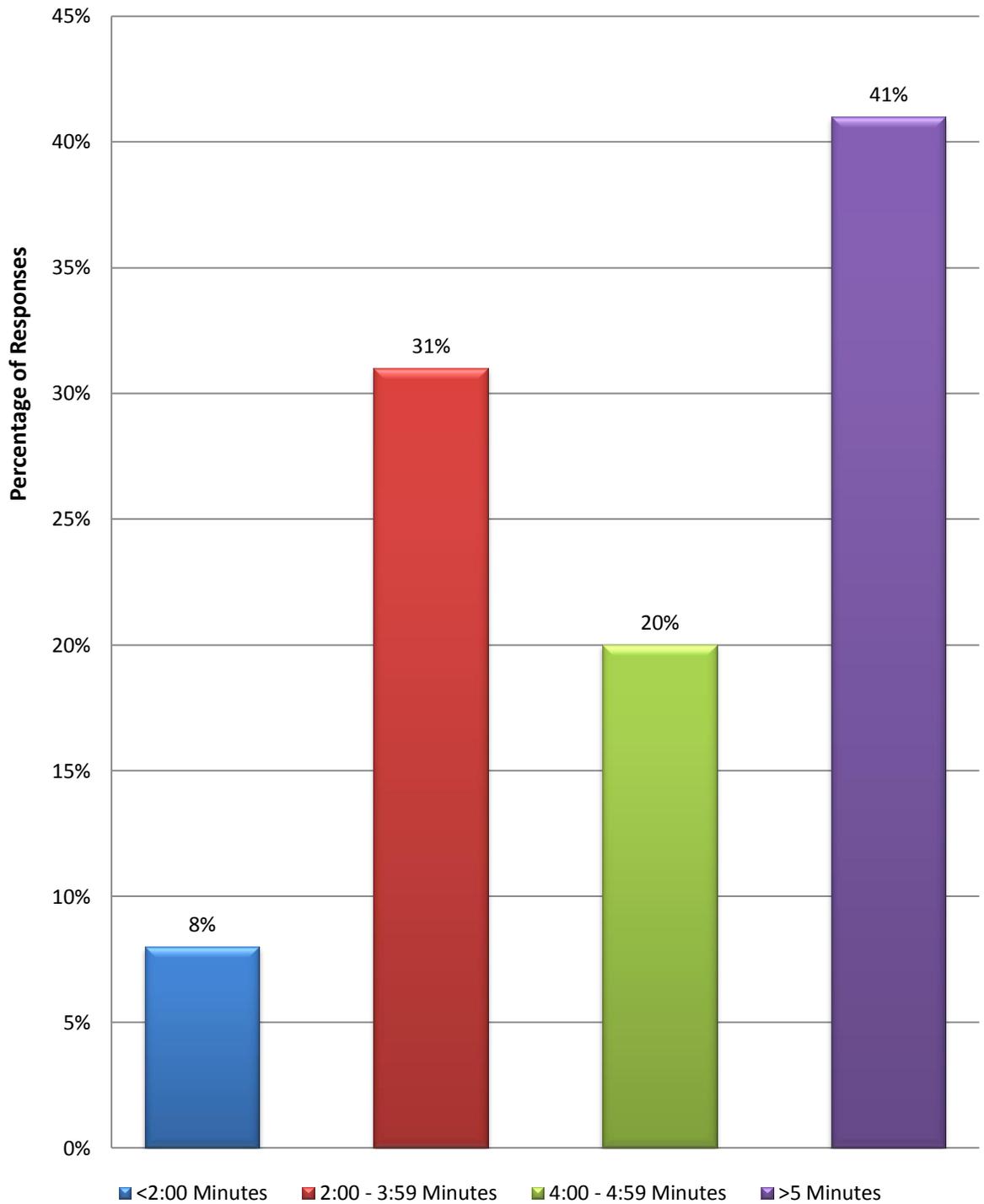
Marshfield Fire and Rescue Department

2016 Ambulance Response Statistics

<u>Causes</u>	<u>Incidents</u>
321 – EMS call, excluding vehicle accident with injury	2,458
3210 – Peds Critical Care Transport with transport team	1
3211 – ALS Intercept, excluding vehicle accident	44
3212 – Neonatal Transport	7
322 – Vehicle accident with injuries	45
3221 – MVC-ALS Intercept	5
323 – Motor vehicle/pedestrian accident	11
Total - Rescue & Emergency Medical Service Incidents	2,571
551 – Assist police or other governmental agency	1
552 – Police matter	1
554 – Assist invalid	5
Total - Service Call	7
611E – EMS: Dispatched & cancelled en route	54
622 – No incident found on arrival at dispatch address	2
Total - Good Intent Call	56
700 – False alarm or false call, other	7
712 – Direct tied to FD, malicious/false alarm	1
740 – Unintentional transmission of alarm, other	16
Total - False Alarm & False Call	24
Total <u>Ambulance</u> Responses for 2016	2,658

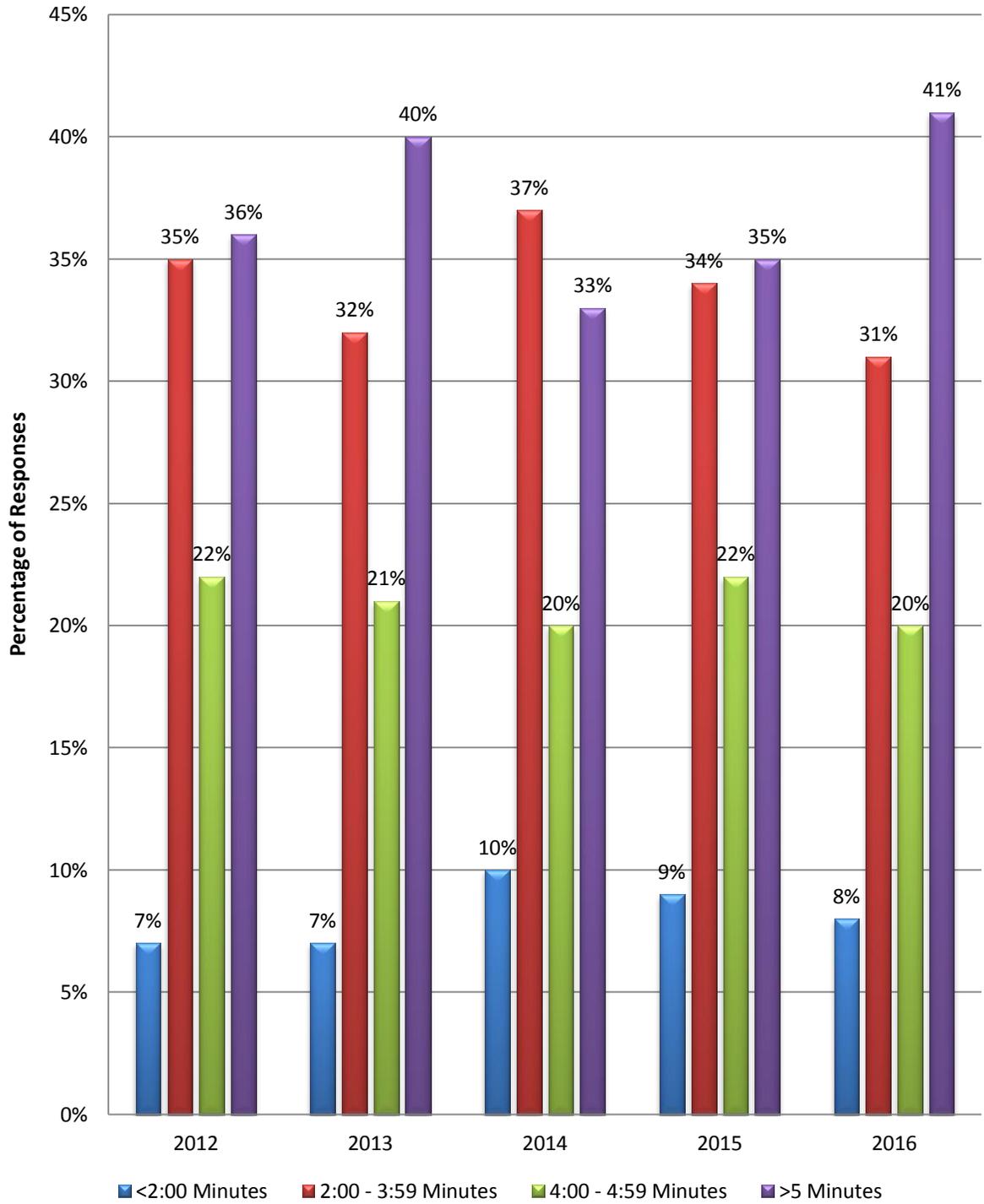
Marshfield Fire and Rescue Department

Ambulance Emergency Response -
Percentage of Calls by Minutes
City of Marshfield 2016



Marshfield Fire and Rescue Department

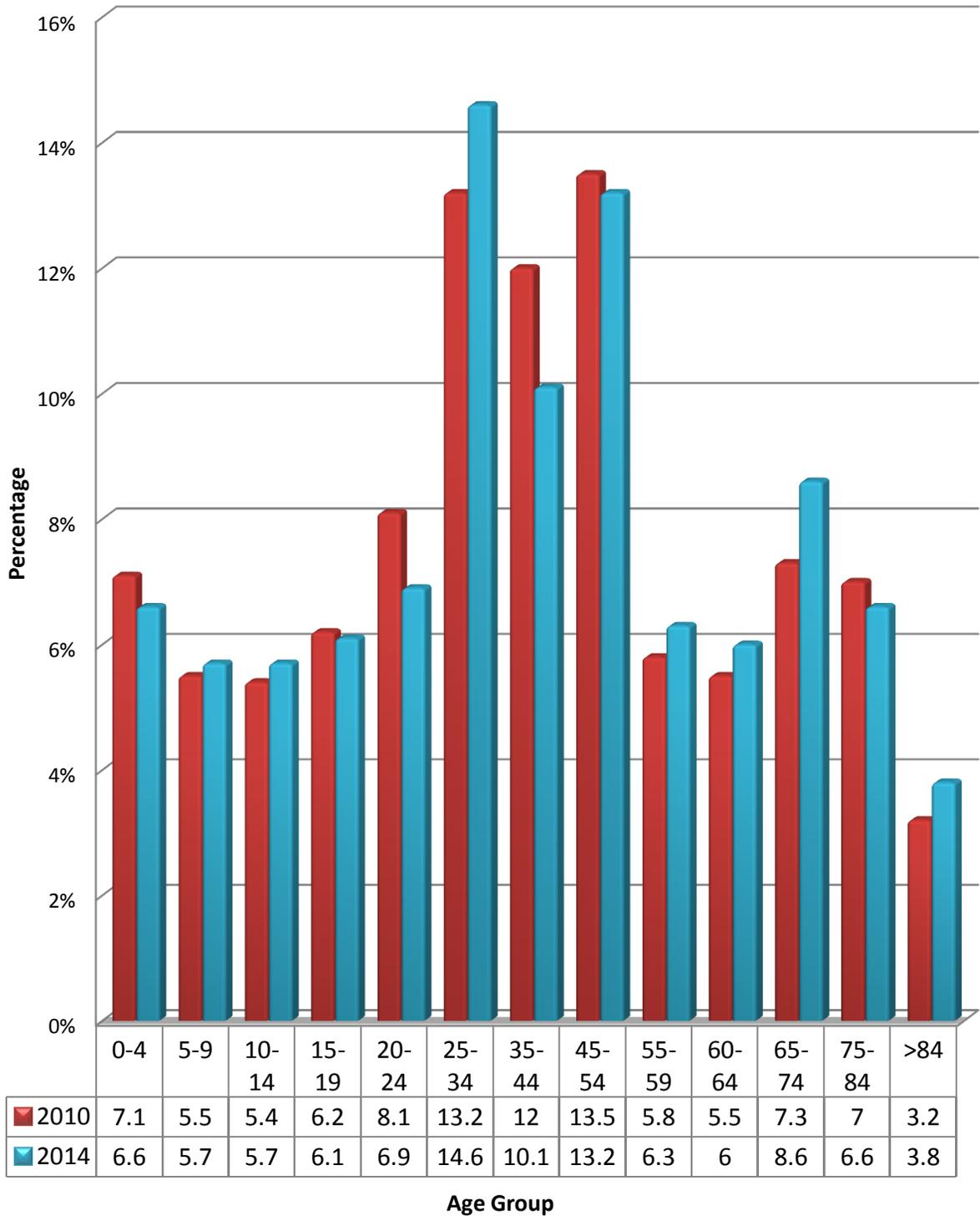
Ambulance Emergency Response -
Percentage of Calls by Minutes
City of Marshfield 2012 - 2016



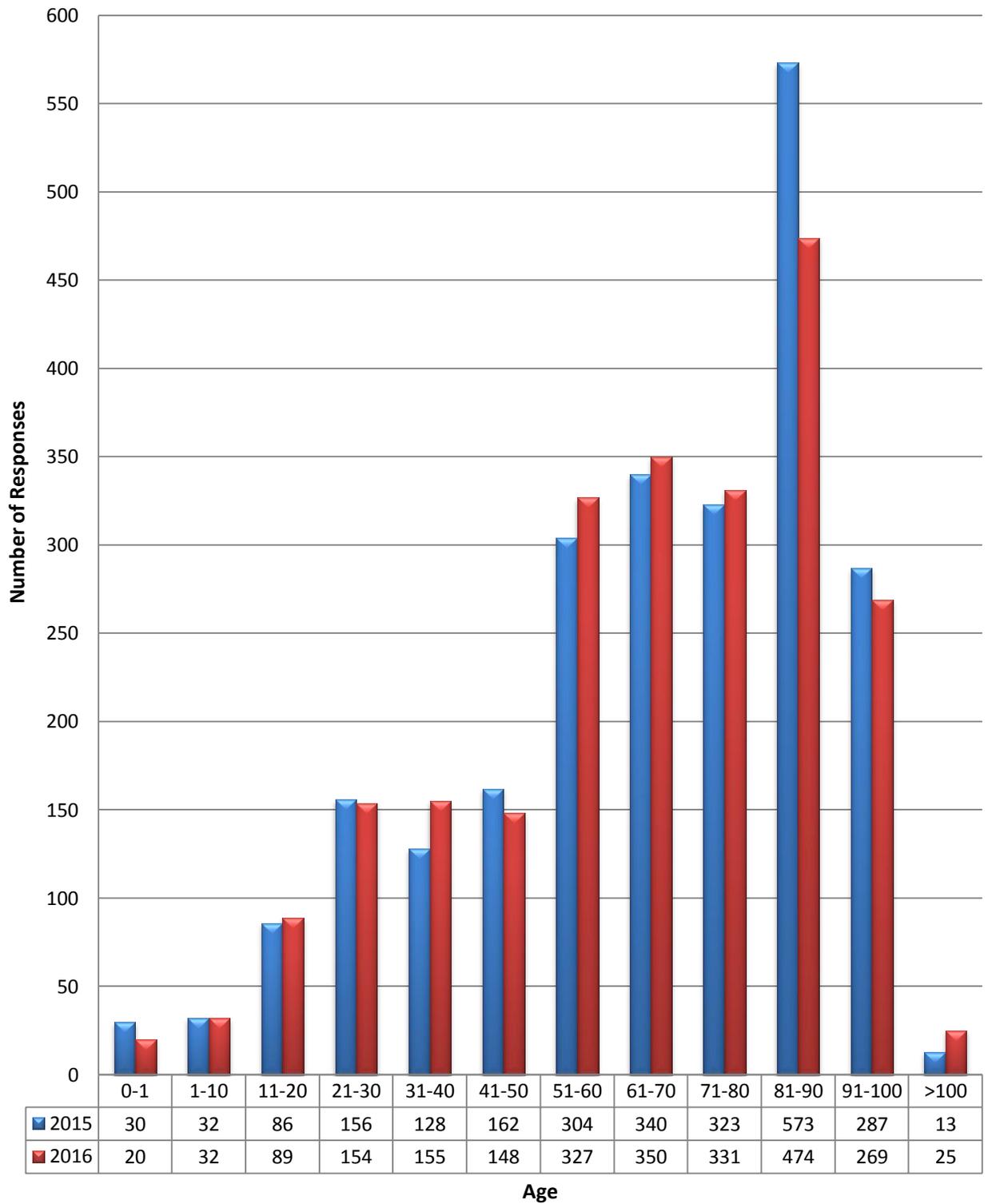
Marshfield Fire and Rescue Department

Marshfield Area Population by Percentage of Age

Source: US Census Bureau

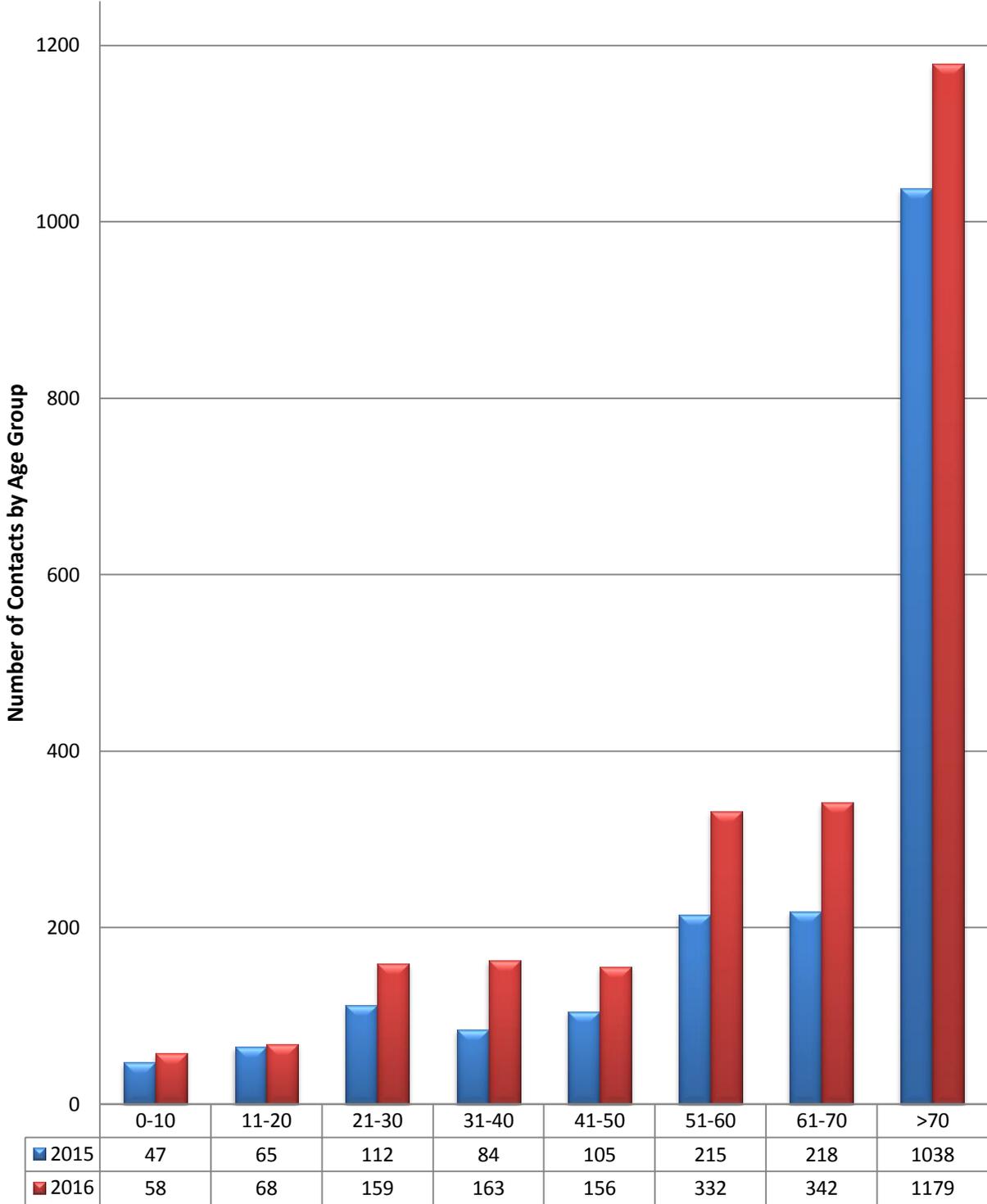


Marshfield Fire and Rescue Department Ambulance Responses by Age

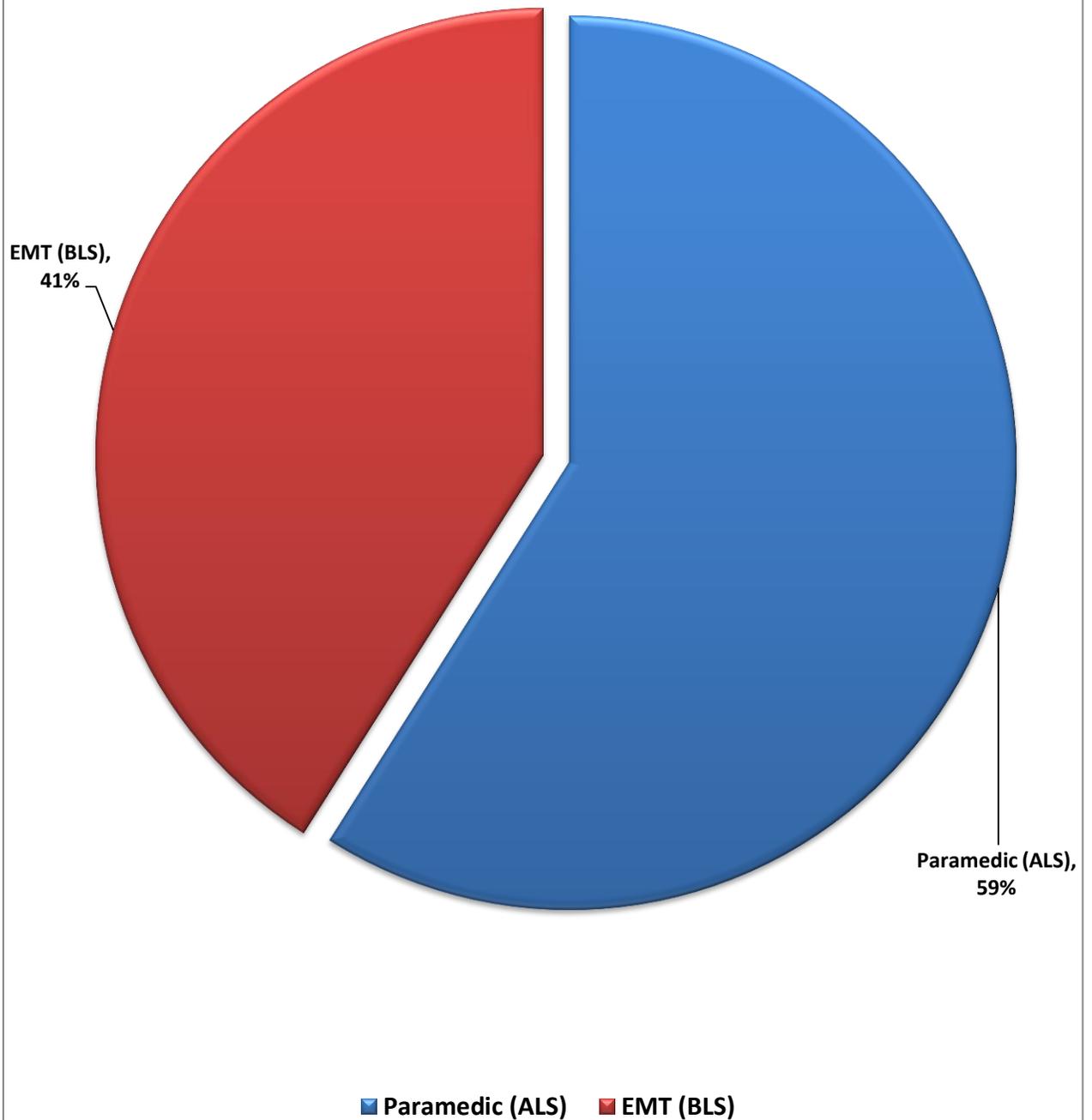


Marshfield Fire and Rescue Department

2015 to 2016 Ambulance Contacts by Age Group Comparison
(Does not include Citizen's Assist)



Marshfield Fire and Rescue Department Patient Level of Care Provided in 2016



2016

YEARLY FIRE INSPECTIONS

<u>Establishments</u>	<u>Inspect</u>	<u>Violations</u>	<u>Corrections</u>
Chapter 54 - Factory/Mercantile	1415	492	449
Chapter 55 - Assembly > 100 Capacity	92	43	30
Chapter 56 - Schools, Libraries	40	27	18
Chapter 57 - Residential	344	94	77
Chapter 58 - Health Care	18	0	0
Chapter 59 - Hazardous Occupancies	161	41	48
Chapter 60 - Child Day Care	16	4	7
Chapter 61 - CBRF – Over 8 Persons	20	14	15
Chapter 62 - Special Occupancies	46	11	17
Assembly - A-1, A-2, A-3, A-4, & A-5	38	17	16
Business - Group B	164	51	43
Educational - Group E	6	3	3
Factory & Industrial - F-1 & F-2	10	3	1
High Hazard - H-1, H-2, H-3, H-4, & H-5	0	0	0
Institutional - I-1, I-2, I-3, & I-4	12	2	3
Mercantile - Group M	51	24	23
Residential - R-1, R-2, R-3, & R-4	101	49	9
Storage - Groups S-1 & S-2	34	18	13
Utility - Groups U	2	0	0
	_____	_____	_____
2016 TOTALS	2570	893	772

Marshfield Fire and Rescue Department

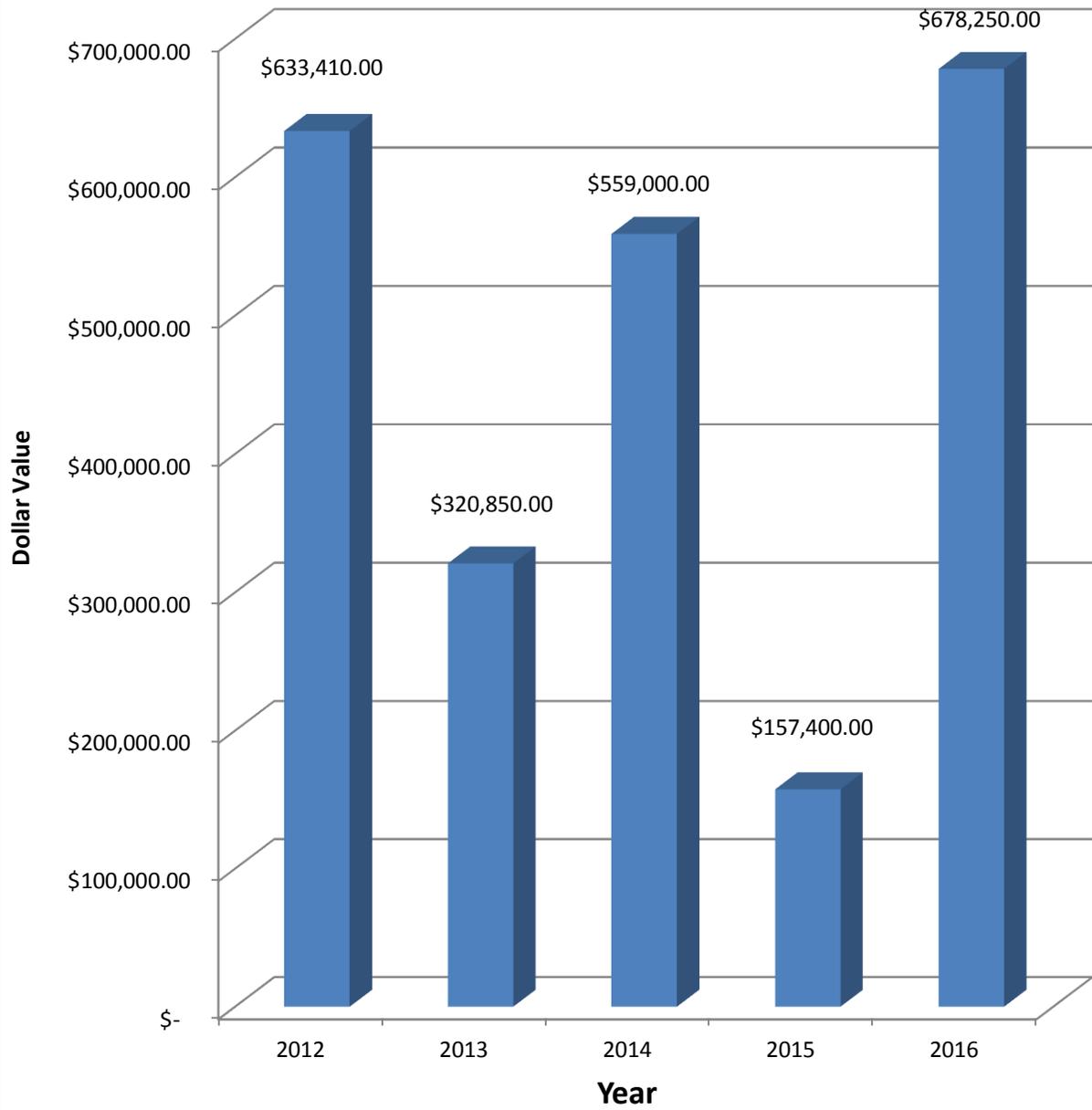
2016 Causes of Fire Alarms – City of Marshfield

<u>Causes</u>	<u>Incidents</u>
111 – Building fire	12
112 – Fires in structures other than in a building	2
113 – Cooking fire, confined to container	7
114 – Chimney or flue fire, confined to chimney or flue	3
118 – Trash or rubbish fire, contained	3
131 – Passenger vehicle fire	5
140 – Natural vegetation fire, other	1
150 – Outside rubbish fire, other	1
151 – Outside rubbish, trash or waste fire	2
154 – Dumpster or other outside trash receptacle fire	1
161 – Outside storage fire	1
162 – Outside equipment fire	1
Total - Fires	39
321 – EMS call, excluding vehicle accident with injury	2
324 – Motor vehicle accident with no injuries (No Ambulance)	4
340 – Search, other	1
341 – Search for person on land	2
350 – Extrication, rescue, other	1
353 – Removal of victim(s) from stalled elevator	4
381 – Rescue or EMS standby	2
Total - Rescue & Emergency Medical Service Incidents	16
410 – Flammable gas or liquid condition, other	1
411 – Gasoline or other flammable liquid spill	3
412 – Gas leak (natural gas or LPG)	16
413 – Oil or other combustible liquid spill	3
420 – Toxic condition, other	1
4221 – Chemical spill or leak (Vehicle fluids not gasoline)	2
4241 – No Carbon monoxide found	15
4243 – Carbon monoxide found > 35 ppm, no transport	4
440 – Electrical wiring/equipment problem, other	3
441 – Heat from short circuit (wiring), defective/worn	1
444 – Power line down	2
445 – Arcing, shorted electrical equipment	3
461 – Building or structure weakened or collapsed	1
463 – Vehicle accident, general cleanup	3
Total - Hazardous Conditions (No fire)	8
500 – Service call, other	2
521 – Water evacuation	1
531 – Smoke or odor removal	1

550 – Public service assistance, other	1
551 – Assist police or other governmental agency	1
553 – Public service	4
554 – Assist invalid	8
555 – Defective elevator, no occupants	3
561 – Unauthorized burning	2
571 – Cover assignment, standby, moveup	1
Total - Service Call	24
600 – Good intent call, other	2
611 – Dispatched & cancelled en route	6
622 – No incident found on arrival at dispatch address	6
631 – Authorized controlled burning	2
632 – Prescribed fire	1
650 – Steam, other gas mistaken for smoke, other	2
651 – Smoke scare, odor of smoke	10
Total - Good Intent Call	29
700 – False alarm or false call, other	12
710 – Malicious, mischievous false call, other	1
712 – Direct tie to FD, malicious/false alarm	2
714 – Central station, malicious false alarm	1
730 – System malfunction, other	2
731 – Sprinkler activation due to malfunction	5
733 – Smoke detector activation due to malfunction	7
734 – Heat detector activation due to malfunction	1
735 – Alarm system sounded due to malfunction	10
736 – CO detector activation due to malfunction	12
740 – Unintentional transmission of alarm, other	31
741 – Sprinkler activation, no fire - unintentional	3
742 – Extinguishing system activation	1
743 – Smoke detector activation, no fire - unintentional	21
744 – Detector activation, no fire - unintentional	10
745 – Alarm system sounded, no fire - unintentional	19
Total - False Alarm & False Call	138
900 – Special type of incident, other	1
911 - Citizen complaint	3
Total - Special Incident Type	4
Total <u>Fire</u> Responses for 2016	309
Total <u>EMS</u> Responses for 2016	2,658
Total <u>Department</u> (Ambulance and Fire) Responses for 2016	2,967

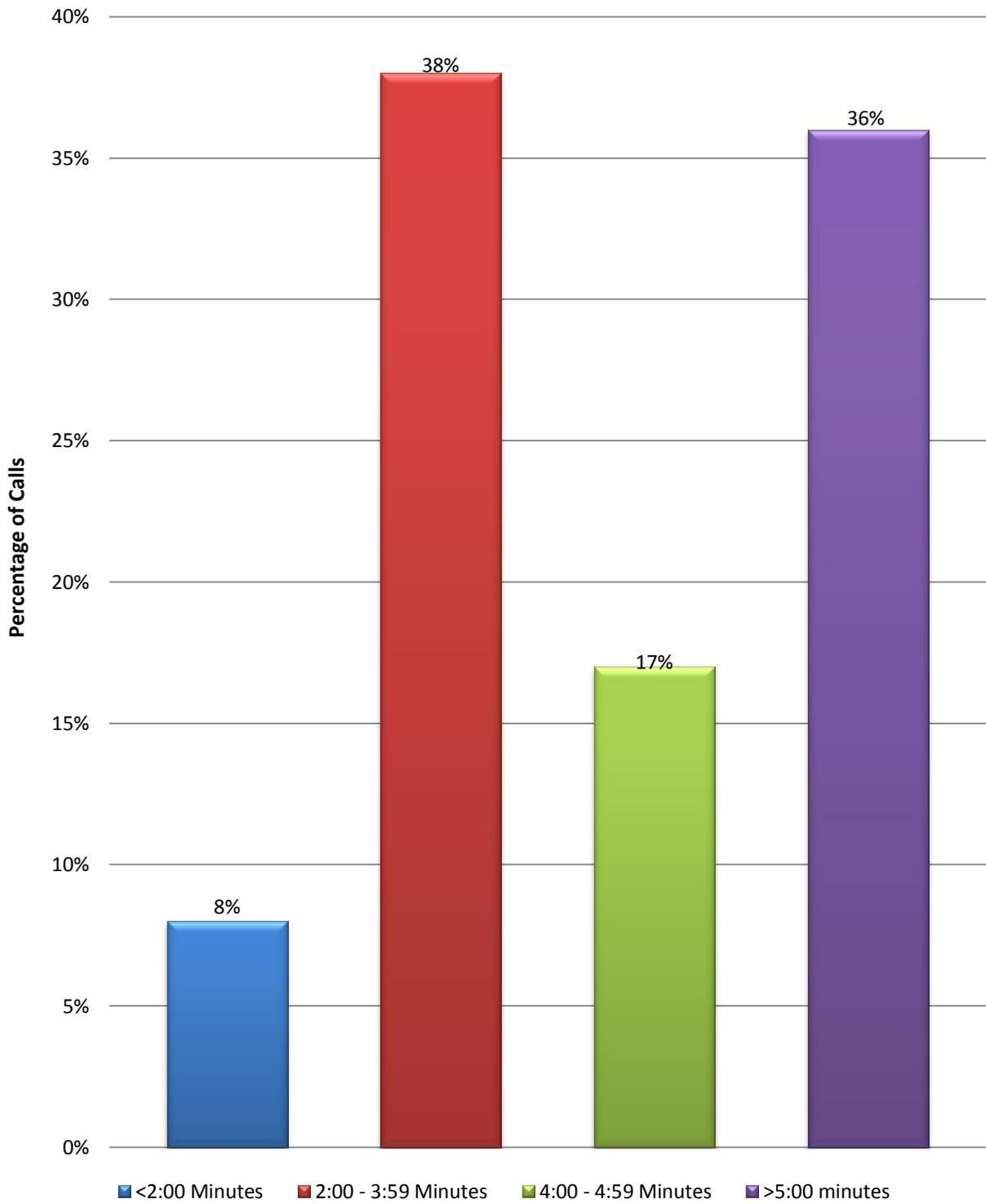
Marshfield Fire and Rescue Department

Fire Loss Comparison
2012 - 2016



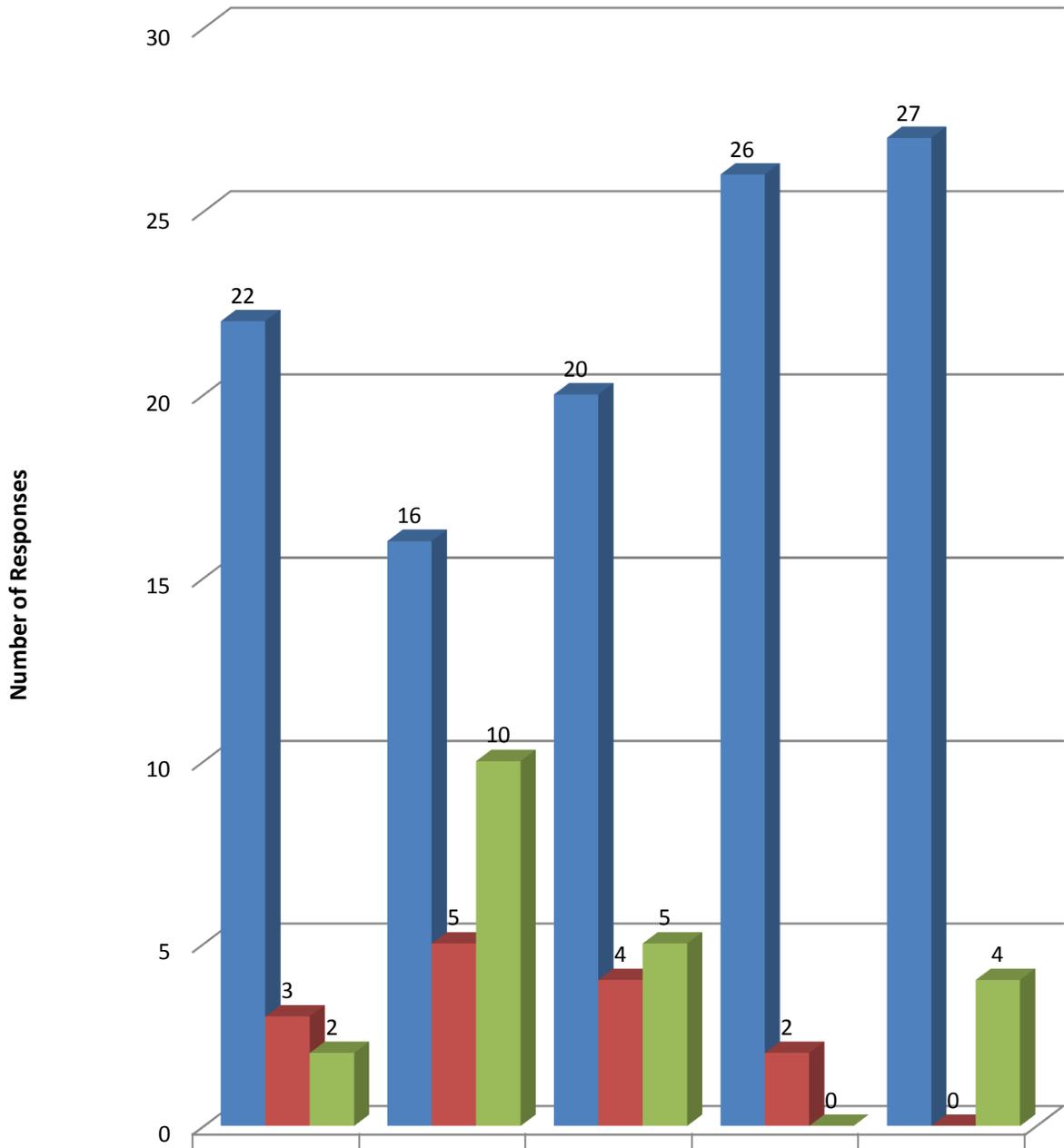
Marshfield Fire and Rescue Department

Fire Emergency Response - Percentage of Calls by Minutes
City of Marshfield 2016



Marshfield Fire and Rescue Department

Carbon Monoxide Incidents
2012 - 2016



No CO Found	22	16	20	26	27
<35 ppm CO	3	5	4	2	0
>35 ppm CO	2	10	5	0	4

2016

APPARATUS VALUE AND DEPRECIATION SCHEDULE

<u>Vehicle</u>	<u>Assigned</u>	<u>Original Cost (\$)</u>	<u>Date Purchased</u>	<u>Dep. % Factor</u>	<u>Book Value (\$)</u>	<u>Retire In .</u>
Smeal Engine/Quint	E-1	\$573,122	06/04/13	6.67%	\$456,746	2034
Spartan GPM Pumper	E-2	\$363,848	03/19/08	6.67%	\$149,582	2029
Smeal 1250 GPM Pumper	E-3	\$85,205	11/13/85	6.67%	\$0	2006
Pierce 1250 GPM Pumper/ 61' Water Tower	E-4	\$404,220	04/10/01	6.67%	\$0	2022
Pierce 100' Aerial Ladder Platform	TR-1	\$440,188	02/04/93	20%	\$0	2013
Hazmat 1 Rescue Squad	Squad 1	\$161,980	12/31/04	6.67%	\$51,463	2029
Ford Medtech Ambulance	Amb. 96	\$114,579	10/01/04	8.33%	\$4,919	2016
Ford Foster Coach Ambulance	Amb. 97	\$130,207	02/14/11	8.33%	\$75,638	2023
Chevy Marque Ambulance	Amb. 98	\$133,730	01/31/07	8.33%	\$39,005	2019
Ford Braun Ambulance	Amb. 99	\$154,050	12/02/13	8.33%	\$120,405	2026
2007 Chevrolet	Car 5	\$13,144	12/01/15	20%	\$10,723	2025
Ford F250	Car 6	\$36,389	02/07/06	20%	\$5,317	2016
Ford F150 XLT Crew Cab	Car 7	\$24,981	04/06/11	20%	\$3,747	2021

2016

APPARATUS MECHANICAL AND MAINTENANCE REPORT

<u>Year and Model</u>	<u>Type</u>	<u>2016 Miles</u>	<u>2016 Run/Hours</u>	<u>Total Run/Hours</u>	<u>Total Mileage</u>
2013 Smeal Engine 1	Diesel 1500 GPM Pumper	1,188	163	893	13,072
2007 Challenger Engine 2	Diesel 1500 GPM Pumper	1,809	208	2,070	20,240
1986 Ford Engine 3	Diesel 1250 GPM Pumper	225	0	4,244	46,066
2001 Ford Engine 4	Diesel 1250 GPM Pumper / 61' Water Tower	400	43	3,347	29,078
1993 Pierce Truck 1	100' Aerial Platform	468	113	3,212	14,724
2004 Sterling Acterra Squad 1	Medium Duty Rescue	79	25	474	2,315
2004 Ford Ambulance 96	Module	3,413	N/A	N/A	78,565
2009 Ford Ambulance 97	Module	7,661	N/A	N/A	63,625
2006 Chevrolet Ambulance 98	Module	111	N/A	N/A	69,267
2014 Ford Ambulance 99	Module	16,273	N/A	N/A	49,585
2007 Chevrolet 1500 Pickup	Station Car 5	8,296	N/A	N/A	142,323
2005 Ford F-250 Pickup	Station Car 6	2,137	99	1,897	49,748
2011 Ford F-150 Pickup	Station Car 7	7,593	N/A	N/A	65,369

Marshfield Fire Apparatus Replacement Schedule
Updated 2017

Year	Vehicle	Cost	5% year			
2017						
2018				Car 5		
2019	E-3 Engine	\$ 743,753.08				
2020				Car 6		
2021				Car 7		
2022						
2023	Squad 1	\$ 651,557.85				
2024						
2025						
2026	E-4 Quint	\$1,602,801.77				
2027						
2028				Car 5		
2029						
2030				Car 6		
2031				Car 7		
2032						
2033	E-2 Engine	\$1,472,580.23				
2034						
2035						
2036	Ladder 1	\$3,685,828.51				
2037						
2038				Car 5		
2039	E-1 -Quint	\$3,022,321.78				
2040				Car 6		
2041				Car 7		
2042						
2043						
2044	E-3 Engine	\$2,518,611.92				
2016 Vehicle Cost						
Engine		\$ 555,000.00				
Quint		\$ 850,000.00				
Ladder		\$1,200,000.00				
Squad		\$ 400,000.00				
Current Fleet	Year Purchased	Frontline	Reserve			
Engine 1	2013	2028	2038			
Engine 2	2007	2022	2032			
Engine 3	1985	2000	2010			
Engine 4	2001	2016	2026			
Ladder 1	2016	2036	N/A			
Squad 1	2004	2024	N/A			