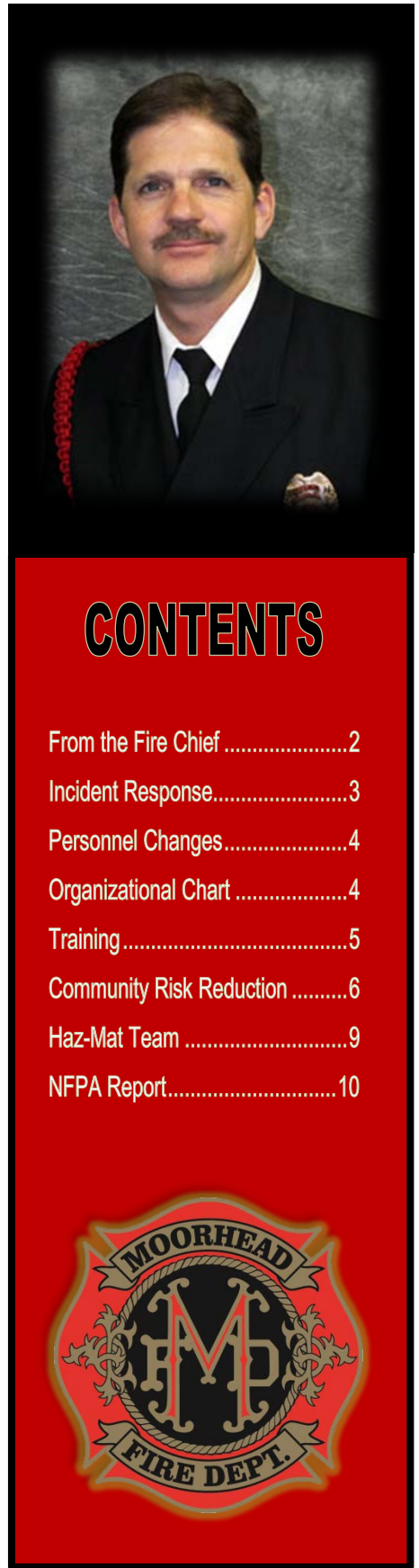




MOORHEAD FIRE DEPARTMENT ANNUAL REPORT 2018



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MESSAGE FROM THE CHIEF

On behalf of the members of the Moorhead Fire Department, I am pleased to present our annual report for 2018.

Within this document you will find a list of highlights and accomplishments which reveal the outstanding work which occurred this past year. These details do not tell the entire story of our efforts, because we are not just about programs, numbers, and activities. We're about the people we serve.

Over the past year, the Moorhead Fire Department has taken opportunities to work each day utilizing our collective talents to serve a growing and thriving community. We believe it's the small things that matter most; those that don't show up on a piece of paper or in a report. Actions supported by an attitude of caring which knows no boundaries and does not discriminate. Whether it's an emergency situation or not, the desire of our members is to reflect this value. Having a positive impact on the life of another wherever and whenever we are able is what counts. I am proud to say that our firefighters embrace this concept consistently.

The Moorhead Fire Department has a reputation of over one-hundred years of professional quality emergency service delivery and remains committed to providing exceptional customer service. We will continually adapt to the community needs and seek ways to improve our processes.

Finally, no successful outcomes are achieved alone. Whether local or regional, internal or external, all of our partnerships play an important role in support of our overall mission to make a difference. We are thankful for their contributions which come together to serve the greater good.

We are extremely grateful for the unwavering support from our community. In the year ahead our team is motivated to serve those in need and are dedicated to meeting the expectations of those who live, work and visit the City of Moorhead!

Sincerely,

Rich Duysen
Fire Chief

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INCIDENT RESPONSE

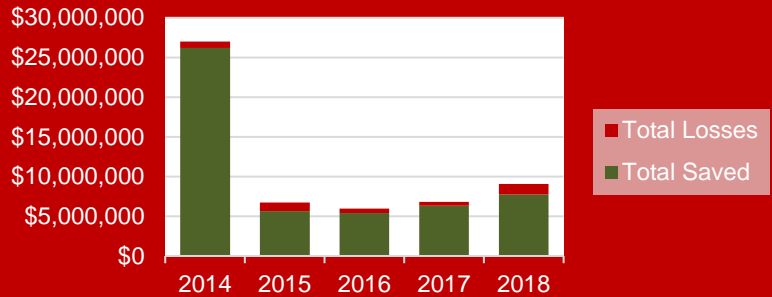
In 2018 we responded to 3,810 calls for service as shown in the chart below. This averaged just above 10 calls for service each day. Of those, 64.8% were related to medical and rescue calls, the remaining 35.2% were related to fires, hazardous materials, and other incidents. A more detailed breakdown can be found in the 2018 NFPA Report in the Appendix on page 10.

The total valuation of property involved in fire-related calls in 2018 totaled 9.08 million dollars. Fire damage was estimated at 1.34 million dollars resulting in just over an 85% save rate.

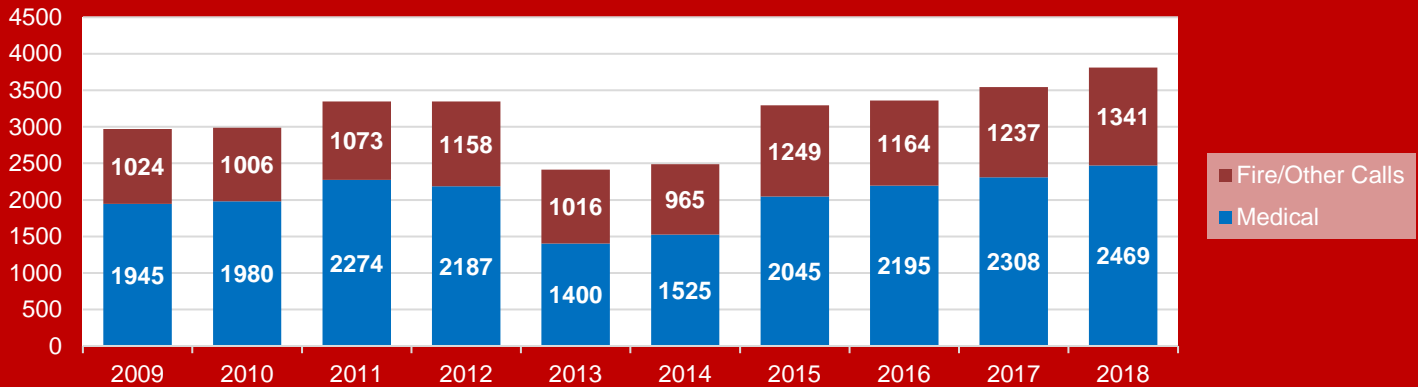
The Insurance Services Office (ISO) conducted an analysis of the City's fire protection capability and reaffirmed our ISO Class 3 rating (lower numbers on a 1 to 10 scale are better). This places the Moorhead Fire Department in a better rating bracket than 87.8% of fire departments in the United States. This generally translates into lower fire insurance rates for homes and businesses (2017 ISO statistics).



Dollar Value of Property and Contents 2014-2018



Incident Responses 2009-2018



PERSONNEL CHANGES

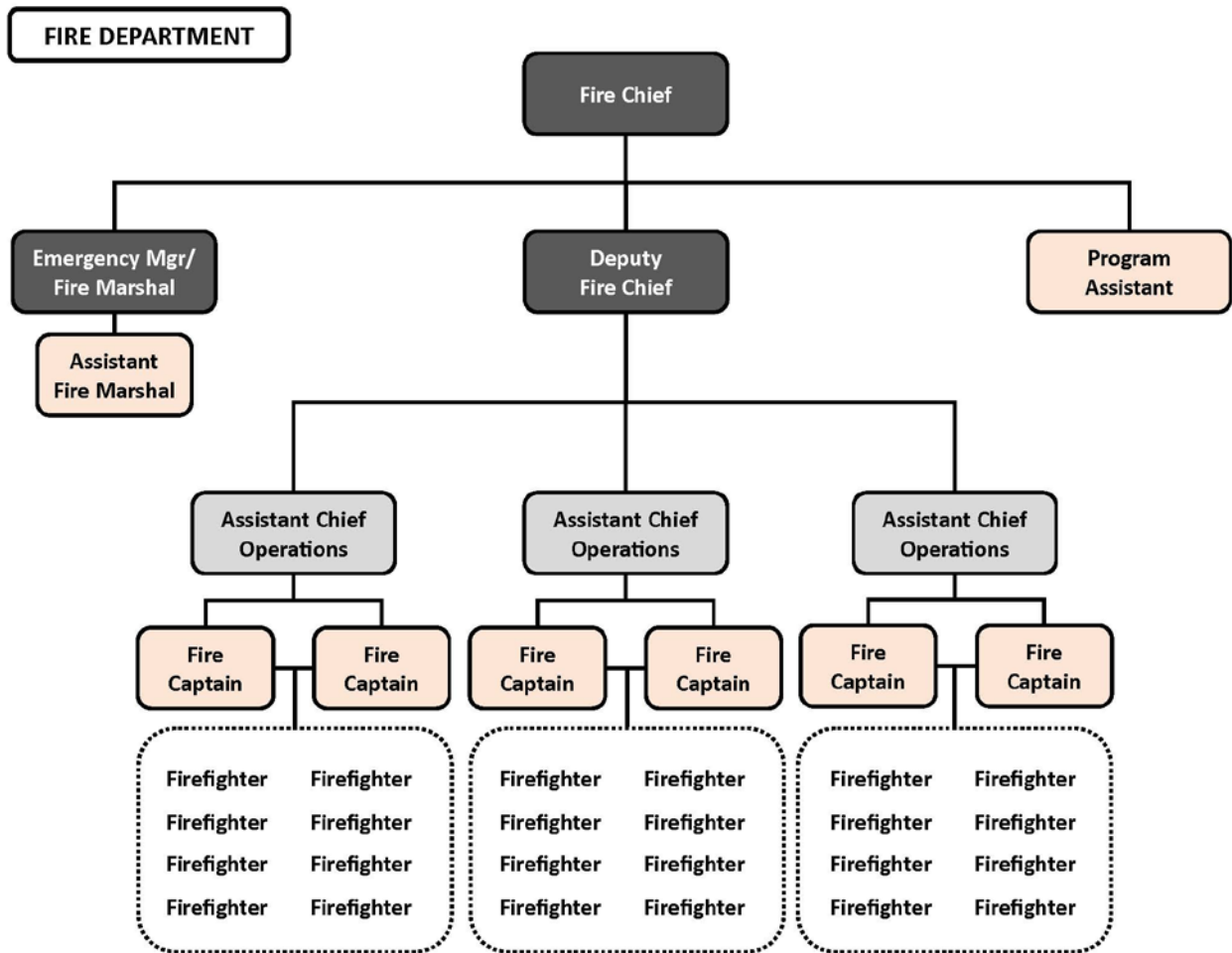


RETIRED

Firefighter Robert (Bob) Carney retired on April 27th, 2018. He started as a Firefighter on November 16th, 1989.

Thank you for over 29 years of service!

ORGANIZATIONAL CHART



TRAINING

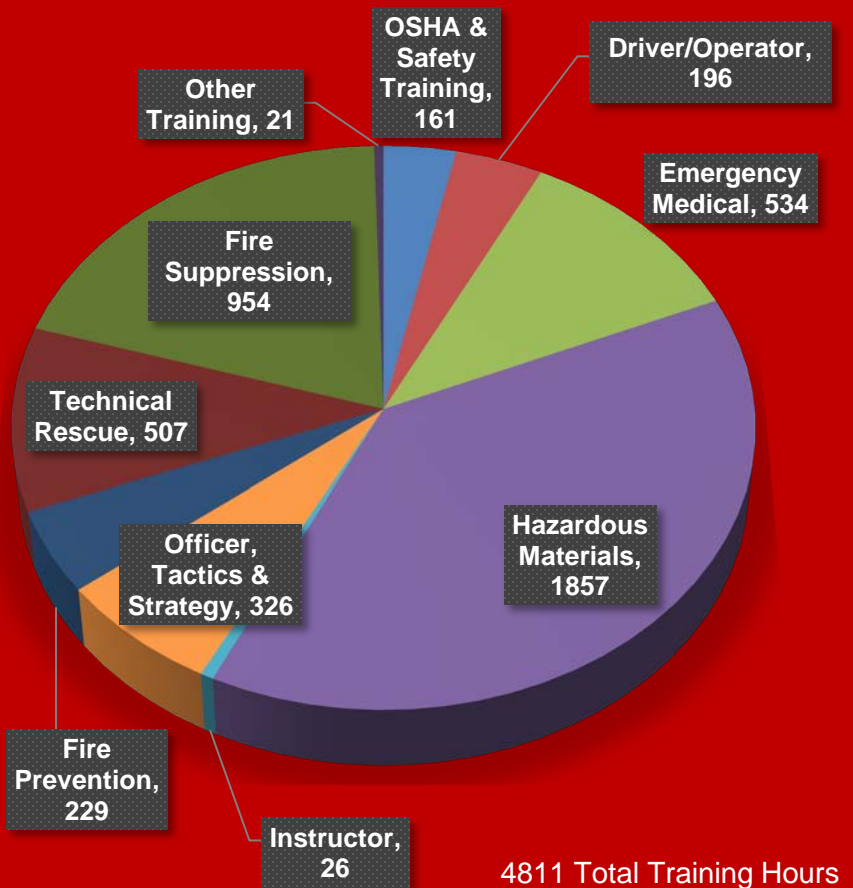
In 2018 our crews completed 4,811 hours of training to prepare for a wide variety of emergency calls. This averaged out to 133.6 hours per member.

Our crews conduct fire training to meet the continuing education requirements for maintaining their Minnesota Firefighter License and National Firefighter II Certification as well as accumulating credit to maintain our City's ISO rating.

We have staff members Nationally Certified in 18 different training categories that include firefighting, technical rescue, hazardous materials response, fire prevention, fire investigation, fire code enforcement, fire supervision and adult education. Over 82% of this training was conducted in-house by our own on-duty staff; a considerable cost savings.

Our Emergency Medical Technicians receive all required training in-house to maintain their licenses in a partnership with the MN Emergency Medical Services Regulatory Board and Sanford Health.

2018 Training Hours by Type



COMMUNITY RISK REDUCTION

The goal of the Fire Prevention Bureau is to minimize the risk of life and property loss through a proactive Community Risk Reduction Program. Community risk reduction combines prevention and mitigation strategies. Risk prevention involves anticipating potential hazards within the community and facilitating interventions to prevent occurrences. Risk mitigation involves anticipating potential hazards within the community and facilitating interventions to diminish adverse outcomes.

Community risk reduction is the sharing of responsibility between government and its citizens to create an environment where people live, work and invest in a safe community. The entire community (including citizens sharing in the responsibility for their own safety and preparedness) and the fire department collaborate to mitigate the fire risk within the community.

The Moorhead Fire Department supports this effort through a variety of programs such as emergency management and fire prevention.

FIRE CAUSES

In 2018 there were 84 reported fires within the City of Moorhead. Those include fires occurring in homes, apartments, businesses, vehicles, and outside areas such as grass and dumpsters. For structure fires, the most common areas of origin were kitchens and garage spaces. The next leading locations were tied between laundry rooms, living rooms, bedrooms, and bathrooms. This year's data showed that fires occurred where people spend the majority of their time. Kitchen and garage areas have an increased risk of fire due to the activities that occur in those spaces.

The locations of where fires occur is only one part of the story. What caused the heat and fuel to join together to start a fire is the other important detail. In 2018, heat from equipment such as stoves and appliances caused 33% of the fires. Smoking materials like cigarettes and lighters caused 30% of the fires, which was the second leading heat source of fires. The third leading cause was heat from improper disposal of hot ash or embers, causing 10% of 2018's fires. Many times that was due to not properly extinguishing a charcoal grill, recreational fire, or a fireplace.

Between the known common locations of where fire occurred and the known heat sources which start the fire, it highlights steps people can take to prevent these fires. We encourage our residents to be vigilant and mindful when they are cooking and to always properly dispose of their smoking materials.

"An ounce of prevention is worth a pound of cure"
Benjamin Franklin



CODE ENFORCEMENT

- Rental Housing Inspections for Buildings with 5+ Units
 - 5,228 Units / 249 Buildings
- Commercial Inspections
- Hotel Inspections
- Plan Review
- 40 Daycare / Foster Care Facilities
- Permits
- Citizen Concerns and Complaints
- Campus Inspections

Top 3 Rental Housing Violations

- Smoke/Carbon Monoxide Alarms Missing or Inoperable
- Electrical Hazards
- Interior/Exterior Building Component Deficiencies

PUBLIC EDUCATION

Public education focuses on educating the community about the benefits of proper safety practices and eliminating hazardous conditions. Firefighters and fire prevention staff participated in station tours and delivering safety messages to area youth, businesses, and the community.

In addition to delivering safety messages, fire prevention staff provided various groups the opportunity to use fire extinguishers. Groups are taught the different types of fire extinguishers, when to use them, and the proper techniques.



EMERGENCY MANAGEMENT

New Emergency Operation Center

Clay County constructed a new Law Enforcement Center which included classroom space that converts to Clay County or City of Moorhead Emergency Operations Center (EOC). The new facility includes plenty of space for supporting agencies, new electronic equipment with multiple screens for ease in viewing information, a dedicated press room, and a command and control room. To get a feel for the new EOC operational readiness an EOC functional exercise was conducted on October 24th for all EOC staff to see and operate in the new space.

FEMA Complex Coordinated Terrorism Attack Training

On February 5th through 8th, 2018 Emergency Management Directors from the Metro hosted over 130 first responders, support agencies, medical staff, and government workers for a FEMA course. This course specialized in how to prepare for complexities of a coordinated terrorist attack. This class was only one of a few classes offered throughout the United States and is a precursor for possible FEMA grants. Some of the areas identified for future improvement were community planning, increased information and intelligence sharing among area response agencies, improved operational coordination, and enhancement in coordination of area Public Health, Healthcare, and Emergency Medical Services through area command.

FIRE PREVENTION MONTH

October is fire prevention month. The 2018 Fire Prevention Week campaign theme was "Look. Listen. Learn. Be aware. Fire can happen anywhere."



Fire Prevention Month Activities

- Station Tours
- Block Parties
- Fire Truck Tours
- Fire Safety Presentations
- New Smoke Alarms Installed

EVENTS

Night to Unite is a nationwide event that builds and fosters community bonds between citizens, businesses, and public safety organizations, such as the Moorhead Fire Department. This annual celebration occurs on the first Tuesday in August and gathers neighborhoods and public safety personnel together for an evening to promote safe communities.

2018 Events

- 12 Fire Prevention Presentations
- 36 Smoke Alarm Installations
- 193 Smoke Alarm Battery Installations
- 8 Carbon Monoxide Installations
- 17 Fire Truck & Station Tours
- Night to Unite
- 249 Individuals Received Fire Extinguisher Training

On Sunday, October 7th, Moorhead Fire held their Annual Open House at the headquarters fire station. It was one of the most well attended open houses with over 780 individuals attending.

This year's theme was selected to provide a mix of fun for all ages, along with providing impactful fire safety messages. The following are a list of the events:

2018 OPEN HOUSE

- "Exit Drills in the Home" or E.D.I.T.H.
- Educational Material and Craft Projects
- Water Target House
- Finger Printing (Moorhead Police Volunteers)
- Virtual Reality Fire Goggles
- Honor Guard Demonstration
- Hot Dog Meal
- Smoke Detector Batteries
- Tours of the Fire Station and Equipment
- Extrication Demonstration
- Rollover Simulator (Moorhead Police Dept.)
- Deutscher Family Crashed Car Display
- 2nd Grade Poster Contest
- Picture with a Firefighter



HAZ-MAT TEAM

The Moorhead Fire Department works with MN Homeland Security and Emergency Management (HSEM) to provide hazmat response to the Northwest and West Central regions of Minnesota. The response area includes 14 counties, encompassing 13,560 sq. miles with a population of 278,337 (2010 Census). The Moorhead Regional Hazmat Response Team is designated by HSEM as both an Emergency Response Team (ERT) and Chemical Assessment Team (CAT). Incident complexities determine whether the ERT or CAT responds to an event. In brief, the difference between the two is the ERT responds with 10 personnel with emphasis on controlling a complex hazardous materials leak, whereas the CAT responds with 5 personnel and provides incident technical support and air monitoring.

Our 2018 Budget was \$60,000.00 for the Chemical Assessment Team and \$100,000.00 for the Emergency Response Team, funded by contracts with the State of Minnesota. We also were awarded \$22,000.00 in grants to support the team.

2018 Moorhead Hazmat Team HMEP Grant

Training Event	80% HMEP	20% Match Plus overages	Total Cost of Training
Cold Zone 2018	\$ 5,440.00	\$1,724.10	\$ 7,164.10
Baltimore Conference 2018	\$ 3,200.00	\$ 997.09	\$ 4,197.09
NFPA 472 Technician Class, MSCTC	\$ 6,800.00	\$1,700.00	\$ 8,500.00
Stevens County Drill	\$ 154.34	\$ 38.59	\$ 192.93
Hazmat IQ, Federal Resources	\$ 6,400.00	\$5,000.00	\$11,400.00
TOTALS	\$21,994.34	\$9,459.78	\$31,454.12

2018 Hazmat Responses:

67 Local Responses:

Five notable responses recorded with HSEM:

- Unknown container left behind in an apartment on the south side of Moorhead.
- Assist Perham Fire Department with an Anhydrous Ammonia leak.
- Assist Lake Park Fire Department by phone with a Carbon Tetrachloride release.
- Assist Fergus Falls Fire Department on a call to the YMCA for a chlorine smell by lending them State monitors.
- Assist Sabin Fire Department with a fuel leak on I-94 by providing them absorbent booms and pads.

1 State Response:

- Response to Mahnommen County on 04/30/2018, involving an unknown white powder at the Cenex Gas Station in the City of Mahnommen.

2018 Training Hours:

1371 hours of documented training amongst its 36 members over the 2018 calendar year.

APPENDIX – NFPA REPORT

The following are the applicable statistical sections of the 2018 NFPA report that are used by the Moorhead Fire Department.

NATIONAL FIRE PROTECTION ASSOCIATION FIRE EXPERIENCE REPORT MOORHEAD FIRE DEPARTMENT January 2018 to December 2018

Part II: MAJOR FIRES

Date	Name of Occupant or Owner, Property Use, and Address	Number of Civilian Fire Deaths	Property Loss
6/11/2018	1 or 2 family dwelling 6202 12TH ST N	0	\$160,000.00
6/20/2018	1 or 2 family dwelling 2906 29TH AVENUE CIR S	0	\$125,000.00
9/25/2018	1 or 2 family dwelling 722 5TH ST S	0	\$194,600.00

Part IV: BREAKDOWN OF FALSE ALARM RESPONSES

Types of False Alarm	Number of Incidents
1. Malicious, Mischievous False Call	18
2. System Malfunction	86
3. Unintentional	262
4. Other False Alarm	4

Part V: INTENTIONALLY SET FIRES IN STRUCTURES AND VEHICLES

	Number Of Fires	Number of Civilian Fire Casualties		Estimated Property Damage
		Deaths	Injuries	
1. Structure Fires Intentionally Set	4	0	0	\$93,150.00
2. Vehicle Fires Intentionally Set	0	0	0	\$0.00

Part III: BREAKDOWN OF STRUCTURE FIRES AND OTHER FIRES AND INCIDENTS

A. Fires In Structures By Fixed Property Use (Occupancy) (all in Section A are Incident Type 110-129)	Number Of Fires	Number of Civilian Fire Casualties		Estimated Property Damage
		Deaths	Injuries	
1. Private Dwellings	27	0	0	\$1,007,915.00
2. Apartments	14	0	0	\$221,902.00
3. Hotels and Motels	0	0	0	\$0.00
4. All Other Residential	0	0	0	\$0.00
5. TOTAL RESIDENTIAL FIRES	41	0	0	\$1,229,817.00
6. Public Assembly	1	0	0	\$7,500.00
7. Schools and Colleges	0	0	0	\$0.00
8. Health Care/Penal Institutions	2	0	0	\$2,100.00
9. Stores and Offices	1	0	0	\$1,150.00
10. Industry/Utility/Defense/Labs/Manufacturing	1	0	0	\$1,000.00
11. Storage in Structures	2	0	0	\$45,000.00
12. Other Structures	1	0	0	\$0.00
13. TOTAL STRUCTURE FIRES	49	0	0	\$1,286,567.00
14a. Highway Vehicles	13	0	0	\$53,347.00
14b. Other Vehicles	2	0	0	\$500.00
15. Non-Structure/Non-Vehicle	4	0	0	\$200.00
16. Brush/Grass/Wildland	7	0		
17. Rubbish/Dumpsters	8	0		
18. All Other Fires	1	0	0	\$250.00
19. TOTAL FOR FIRES	84	0	0	\$1,340,864.00
20. Rescue/Emergency Medical Responses	2,469			
21. False Alarms	370			
22. Mutual Aid Given	2			
23a. Hazmat Responses	47			
23b. Other Hazardous Responses	63			
24. All Other Responses	775			
25. TOTAL FOR ALL INCIDENTS	3,810			

	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	11	30
13. Structure Fires (line 13 above)	13	36