

Murfreesboro Fire & Rescue Department

2011 Annual Report



Murfreesboro "Creating a Better Quality of Life"



... creating a better quality of life

MEMORANDUM

DATE: April 23, 2012

TO: Mayor Tommy Bragg
Members of the City Council
City Manager Rob Lyons

FROM: Fire Chief Cumbey Gaines

SUBJ: 2011 ANNUAL REPORT

I am pleased to present the 2011 Annual Report for the Murfreesboro Fire & Rescue Department. This report summarizes activities of the department from January 1, 2011 through December 31, 2011.

I am proud of the men and women that make up this department. Our department and its members continue to be recognized statewide as leaders of today's progressive fire service. Other departments, both local and across the state, frequently develop programs for their citizens based on the innovative ideas already implemented by the men and women of the Murfreesboro Fire & Rescue Department.

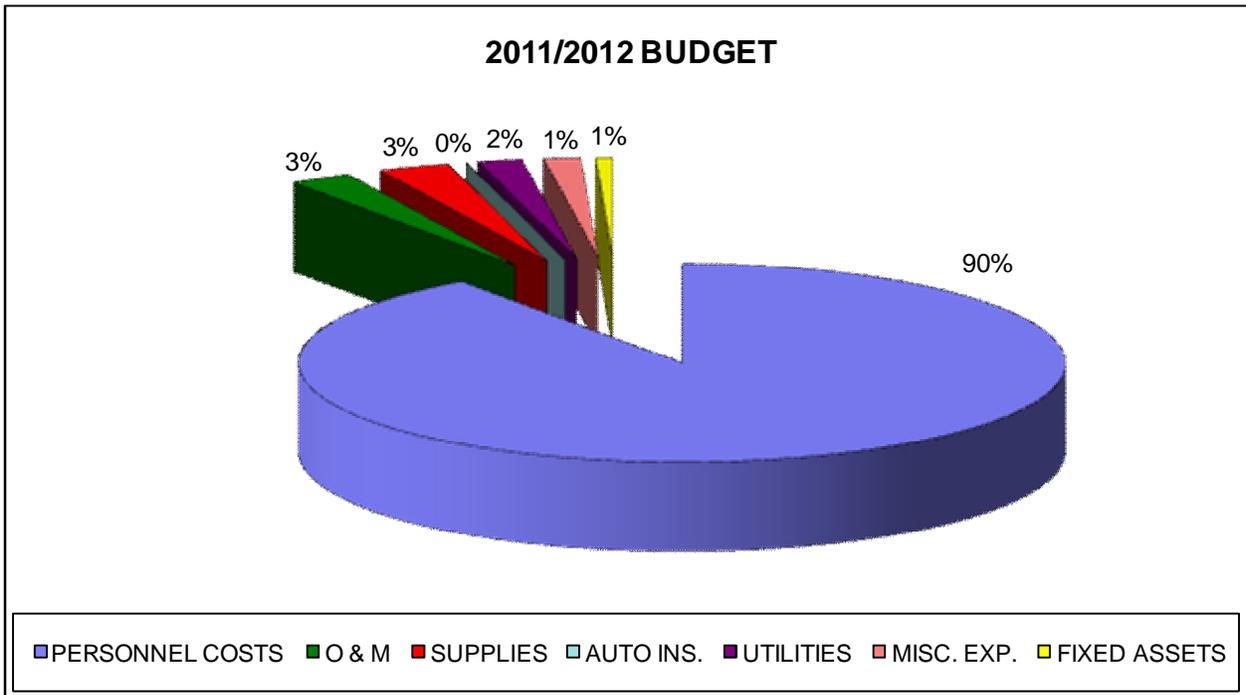
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Budget

The Murfreesboro Fire & Rescue Department's (MFRD) total budget for the fiscal year 2011/2012 is \$14,501,195. Budget figures do not include capital improvement projects.

DESCRIPTION	2009/2010 ACTUAL	2010/2011 ACTUAL	INCREASE/ (DECREASE)	2011/2012
PERSONNEL COSTS	\$12,206,172	\$12,456,952	\$629,150	\$13,086,102
OPERATION & MAINTENANCE	276,708	336,927	41,454	378,381
SUPPLIES	337,689	381,520	54,692	436,212
AUTO INSURANCE	74,383	78,119	(78,119)	0
UTILITY SERVICE	197,076	222,641	47,659	270,300
MISC. EXPENSE	78,809	333,858	(107,358)	226,500
FIXED ASSETS	145,694	213,009	(109,309)	103,700
TOTAL BUDGET	\$13,316,531	\$14,023,026	\$478,169	\$14,501,195



2011 Accomplishments

NAME CHANGE & DATE ESTABLISHED

Murfreesboro Fire Department officially changed to Murfreesboro Fire & Rescue Department (MFRD) on July 1, 2011. The department's name was modified to better reflect the services provided to the citizens of Murfreesboro. MFRD provides progressive fire protection for the City of Murfreesboro, as well as medical first responder and several types of technical rescue including water rescue, rope rescue, and urban search and rescue.

MFRD researched the origin and history of the department in correlation with the City of Murfreesboro's bicentennial celebration. MFRD personnel searched historical minutes and ordinances for information about the department. The earliest finding was an ordinance to establish the "Volunteer Fire Brigade of Murfreesboro" signed on December 1, 1880. An ordinance to "Establish a Paid City of Murfreesboro Fire Department" was passed on the third and final reading on November 5, 1902 thus providing the City of Murfreesboro with a full-time paid professional fire department.

FIREFIGHTER MEMORIAL DEDICATION

Firemen Winfred Vaughn and AC Cartwright of the Murfreesboro Fire Department lost their lives on March 1, 1939 while responding to an alarm. The fire truck collided with a pickup truck at the corner of Spring and Lytle streets. Winfred Vaughn was 36 years old and was a 13 year veteran of the department. AC Cartwright was 22 and had been employed with the department for almost three years.

The Rutherford County Fallen Firefighter Memorial was dedicated on Thursday, January 20, 2011. MFRD played an integral role in the establishment of the memorial. The memorial is located on the northwest side of the Public Square near the Rutherford County Court House. The memorial recognizes AC Cartwright and Winfred Vaughn for their ultimate sacrifice.



2011 Accomplishments

GRANTS

MFRD was awarded three grants in 2011. MFRD applied for and received the Assistance to Firefighters Grant (AFG) and the Fire Prevention and Safety Grant (FPS) from the Federal Emergency Management Agency (FEMA). MFRD also applied for and received a Safe Neighbors grant from State Farm Insurance.

AFG grant funds were awarded for the purchase and installation of two generators. FEMA reduced the total project cost from \$134,935 to \$108,300. The Federal share was 80 percent or \$86,640 of the approved amount, and the City's share was 20 percent or \$21,660. Bids for the purchase and installation of two generators were more than budgeted; therefore, only one generator will be purchased and installed in 2012 due to funding restrictions.

FPS grant funds were awarded for the purchase of 2,500 dual-sensor smoke alarms, 100 smoke alarms/detectors with a visual signal, and 100 bedside fire alarms with a motion device. The approved project cost totaled \$54,700. The Federal share was 80 percent or \$43,760 of the approved amount, and the City's share was 20 percent or \$10,940.

State Farm Safe Neighbors Grant funds of \$14,500 will be used to support disaster preparedness and recovery services. A 14 to 16 foot rescue boat with motor and trailer will be purchased in 2012. Matching funds are not required with this grant.

NEW EQUIPMENT

- 2006 Ford F-350
- 1997 Dodge Ram 3500 SLT for Haz-Mat Trailer
- Transponder Boxes & Software for All Stations & Dispatch
- Two Spotting Scopes for Haz-Mat
- Four TAC Electrical Sticks & Two Tripods for Spotting Scopes (Grant)
- 10 Throat Microphones for Haz-Mat
- Four RIT EZ-Scape Belts
- Three Pagers for Shift Commanders
- 14 Forcible Entry Tools
- Cutting Torch for Standby Rescue
- Six Computer Monitors, Two Printers, & One DVD/VHS Recorder
- Five Sections of 4" Hose
- iWalkie Software
- TV, Laptop, & Sound Bar for Training Room
- Five GPS units
- Hammer Drill for R-2
- One Medical Cabinet

2011 Accomplishments

HAZARDOUS MATERIALS

A hazardous materials truck and trailer were placed in service in 2011. The truck is a 1997 Dodge 3500 dually with a Cummins diesel. The trailer is 24 feet long, nine feet tall, and a little over eight feet wide. The trailer has a canopy and a roof mounted air conditioning unit. The front of the trailer has a desk area that houses the RAE system. The RAE system includes four area RAE monitors for remote monitoring, one mini RAE for entry monitoring, and one RAE computer to show readings of the monitors. The front of the trailer also contains 10 new handheld radios with throat microphones, a weather station, and a computer with CAMEO, MARPLOT, and ALOHA programs for hazard/chemical identification.

In the back of the trailer, there are eight air packs with one hour cylinders, a generator, and a salvage drum. The rest of the trailer has shelves that hold level A and B suits, a decontamination shower, sampling kits, chlorine kits, and other equipment. The implementation of this new equipment and trailer has vastly expanded our department's capabilities and efficiency on hazardous materials responses.

TECHNICAL RESCUE

A technical rescue truck and trailer were placed in service in 2011. The trailer that served as the hazardous materials trailer was converted to the technical rescue trailer. The truck is a 1996 Ford Crew Cab 3/4 ton diesel. The truck can carry a multitude of equipment and up to six personnel to an incident. Shelves and compartments were added to the trailer to store water rescue equipment and ropes.

In the future, MFRD will be equipping the trailer with inside and outside lights, a generator that will provide the electrical supply for the lights, and operational provisions for up to 48 hours to be used when responding to mutual aid incidents. MFRD will also utilize this truck and trailer for Homeland Security District 5 activations.



**HAZARDOUS MATERIALS
TRUCK & TRAILER**



**TECHNICAL RESCUE
TRUCK & TRAILER**

2011 Accomplishments

STATION/BUILDING PROJECTS

- Administration - Replaced Front Door Sign and Water Heater; Constructed Closet in Training Room; Replaced Sinks and Added Cabinets to Restrooms
- Headquarters - Remodeled and Added a Women's Locker Room; Replaced Washing Machine, Grill, TV, One Mattress, Kitchen Cabinets and Appliances; Installed Carpet in Shift Commanders' Office
- Station 2 - Replaced Emergency Lights, Stove, TV, Floor Fan, Seven Mattresses, and Washing Machine; Painted Gutters and Flag Pole
- Station 3 - Replaced Lawnmower, Kitchen Cabinets, Windows and Bay Door; Painted Trash Bin Area
- Station 4 - Replaced Engine Room Heaters and Four Mattresses; Tinted Bedroom Windows; Painted Doorways and Varnished Trash Bin Area
- Station 5 - Replaced Dishwasher, Stove, Washing Machine, Blower, and Window; Repaired Sidewalk
- Station 6 - Replaced Stove, Washing Machine, Dryer, Five Mattresses, and Floor Fan; Repaired Gutters and Flashing
- Station 7 - Replaced Microwave, One Box Spring, and Tile in Front Area; Added Turnout Rack for R-7; Repaired Roof
- Station 8 - Replaced Blower and Seven Mattresses; Removed Tree and Mulched Area
- Station 9 - Replaced Stove, Gas Grill, Floor Fan, and Seven Mattresses; Repaired Curb
- Station 10 - Replaced Two Thermostats and Air Conditioning Coil

FUTURE PROJECTS AND EQUIPMENT

- Staff Fire Station 10
- Install a Generator at Headquarters (Grant)
- Replace Ladder Truck
- Purchase a Water Rescue Boat (Grant)
- Waterproof Basement at Station 6
- Replace Porch Columns at Station 7
- Repair Damaged Roof and Gutters at Station 8

2011 Accomplishments

PUBLIC RELATIONS EVENTS

- Annual Smoke Detector Program
- National Night Out
- 9/11 Remembrance Ceremony
- Rutherford County Christmas Parade
- Toys for Tots Campaign
- Hosted Fire Safety Inspector's Conference
- Hosted the Tennessee Advisory Committee on Arson Conference
- Hosted the Tennessee Public Fire and Life Safety Educators Association Conference
- Leadership Rutherford Emergency Services Event
- Dairy Day Annual Milking Contest

MISCELLANEOUS

- Public Service Announcements on Fire Safety Produced & Aired on CityTV
- MFRD Honor Guard Presented Colors at 17 Events
- Firefighter of the Month Award
- Hired Two New Personnel to Replace Employees that Retired, Resigned, or Terminated



**HONOR GUARD
PREPARE TO FOLD FLAG
FOR PRESENTATION**



**PERSONNEL
PARTICIPATE IN DAIRY
DAY CONTEST**

Personnel Acknowledgements

YEARS OF SERVICE AWARDS PRESENTATION

The First Annual Years of Service Awards Presentation was held on September 13, 2011 at Patterson Park Community Center. Employees with 20, 25, 30, and 35 years of service received an award for their accomplishment. Captain/Training Officer Ronald Jones (35 years) and Training Coordinator Billy Vinson (37 years) also received a special plaque for their years of service.



35+ YEARS

(L to R) 1st Row: Ronald Jones and B. Vinson. 2nd Row: R. Toombs, C. Gaines, and Mayor T. Bragg.



30-34 YEARS

(L to R) 1st Row: W. Daniel, J. Thomas, W. Murray, K. Honeycutt, D. Maynard, T. Underwood, Joe Barrett, and W. Reed. 2nd Row: R. Toombs, C. Gaines, and Mayor T. Bragg.

Not Pictured: M. Black, and Ricky Jones.

Personnel Acknowledgements



25-29 YEARS

(L to R) 1st Row: Randy Jones, M. Madding, E. Mitchell, T. Lehew, K. Richmond, L. Holladay, M. McCluskey, S. Benford, R. Alsup, and K. Bratcher. 2nd Row: R. Toombs, C. Gaines, and Mayor T. Bragg.

Not Pictured: J. Black, J. O'Brien, and R. Rae.



20-24 YEARS

(L to R) 1st Row: T. Pertiller, S. Thompson, K. Jernigan, R. Vaughn, K. Elrod, V. Anderson, Terrence Thomas, J. Bratcher, K. Cobb, and Jimmy Barrett. 2nd Row: C. Gaines, G. Matthews, L. Douglas, M. King, T. Ellis, L. Alsup, D. Rivait, S. Melton, R. Nobles, T. Swann, M. Mitchell, and Mayor T. Bragg. 3rd Row: C. Whitaker, B. Decker, E. Todd, M. Adams, A. Swader, D. Alexander, C. Walls, and R. Toombs.

Not Pictured: J. Avaritt, J. Day, T. Gannon, L. Isaac, B. Sauls, Troy Thomas, R. Vaughtner, and D. Wade.

Personnel Acknowledgements

FIREFIGHTER OF THE MONTH

January

David Frost

February

Joe Pennington

March

Gary Farley

April

James Bryant

May

Alvin Brandon

June

Robert Alsup

July

Jerry McGregor

August

Larry Shelton

September

Jamie Bigelow

Greg Burt

Jeff Irvin

October

Raleigh Marlin

Adam Petrig

Shan Womack

November

Terrence Thomas

December

Leon Isaac

Josh Oliver

SPECIAL AWARDS

Travis Bryant

Keith Elrod

Jeremy Morris

Ted Pertiller

*Engine Company 3's Crew Received Awards for Life Saving Efforts
Baird Lane Structure Fire on December 3, 2011*

FIREFIGHTER OF THE YEAR - EXCHANGE CLUB

David Frost

*Received for Preplan Work, Calculations and Drawings on Aerial Placement,
Participation in the Fire Prevention Program, and Grant Assistance*



LIFE SAVING AWARDS



FIREFIGHTER OF THE YEAR

Personnel Acknowledgements

PROMOTIONS/TRANSFERS

Firefighter to Driver

David Bricker
Joel Patnode
Adam Petrig
Randy Shaw

Driver to Captain

David Sloan

Captain to Assistant Fire Marshal

Tracy Summar

Assistant Fire Marshal to Captain/Shift Inspector

Nora Smith

Captain/Shift Inspector to Assistant Fire Chief

Kaye Jernigan

NEW EMPLOYEES

Ryan Battle
Jeff Clementi

RETIREMENTS

Gary Farley
Jerry McGregor
Larry Shelton

Incident Responses

MFRD uses the Tennessee Fire Incident Reporting System (TFIRS) to report each emergency incident. TFIRS is a member of the National Incident Reporting System (NFIRS). Our incident response statistics are compiled with all other Fire Departments at the state and national level. These statistics can be utilized to focus on current problems and to predict future ones within the fire service.

The average travel response time for the first arriving apparatus on an incident was approximately four minutes (4:11). The estimated property and content loss for the City of Murfreesboro was \$2,981,671; the estimated property and content value saved was \$6,580,212. The three most extensive fire losses (property and contents) were a commercial business fire on Butler Drive at \$754,000, a house fire on Baird Lane at \$180,800, and a house fire on Londonderry Drive at \$161,700.

The Fire Prevention Division investigated 47 structure fires. Eleven (11) of the 47 fires were ruled incendiary. Two arrests were made in 2011. The other incendiary fires are still being investigated. There were no fatal fires in 2011. Eighty-eight percent (88.29%) of structure fire causes were determined by personnel, leaving only 12 percent (11.71%) undetermined. Cooking fires were the highest ranked cause at 39.64 percent.

The City of Murfreesboro entered an agreement to provide full fire suppression services for the Veterans Administration Tennessee Valley Healthcare System, Alvin C. York Campus, on June 1, 2001. In accordance with this agreement, the VA pays monthly for fire suppression service. The Murfreesboro Fire & Rescue Department also performs inspections of fire department connections and conducts hydrant flow tests.



**PERSONNEL
ESCORT CHILDREN
TO SAFETY FROM
DAYCARE FIRE**



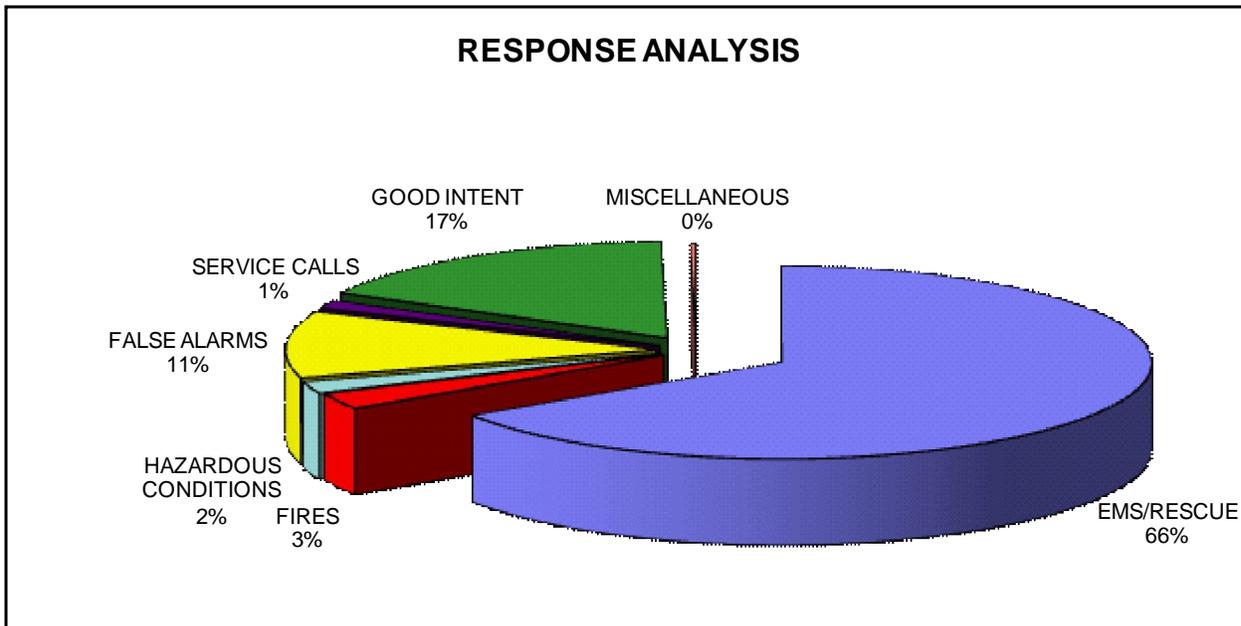
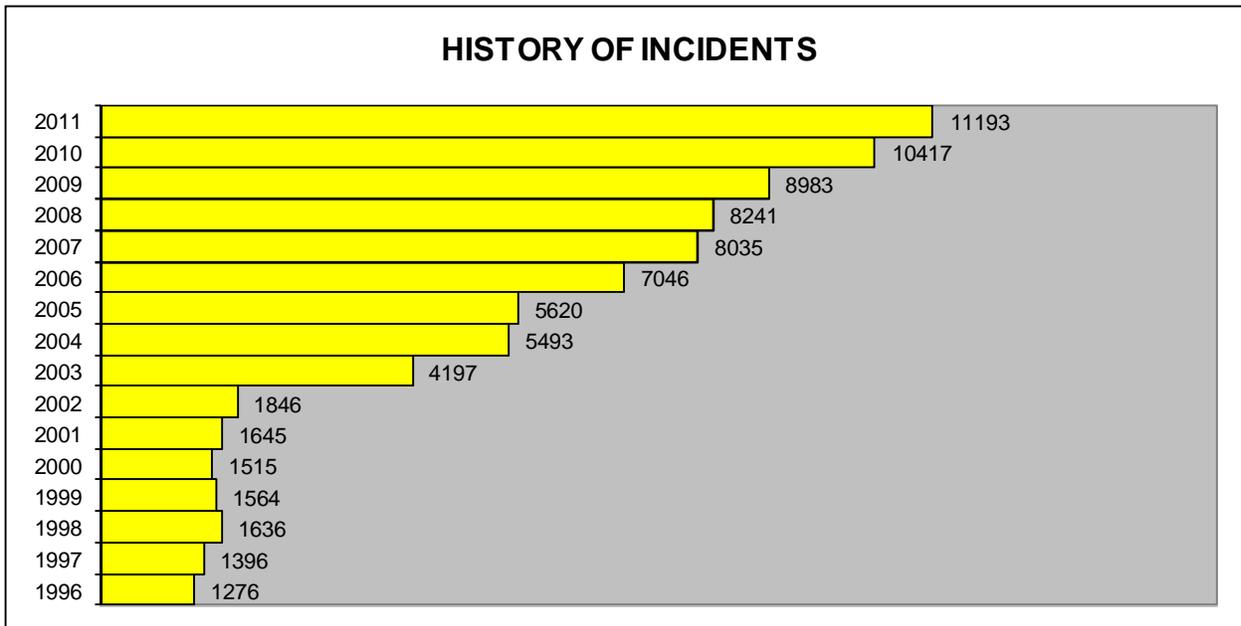
**PERSONNEL
RESCUE VICTIM AND
BATTLE A HOUSE
FIRE ON BAIRD LANE**



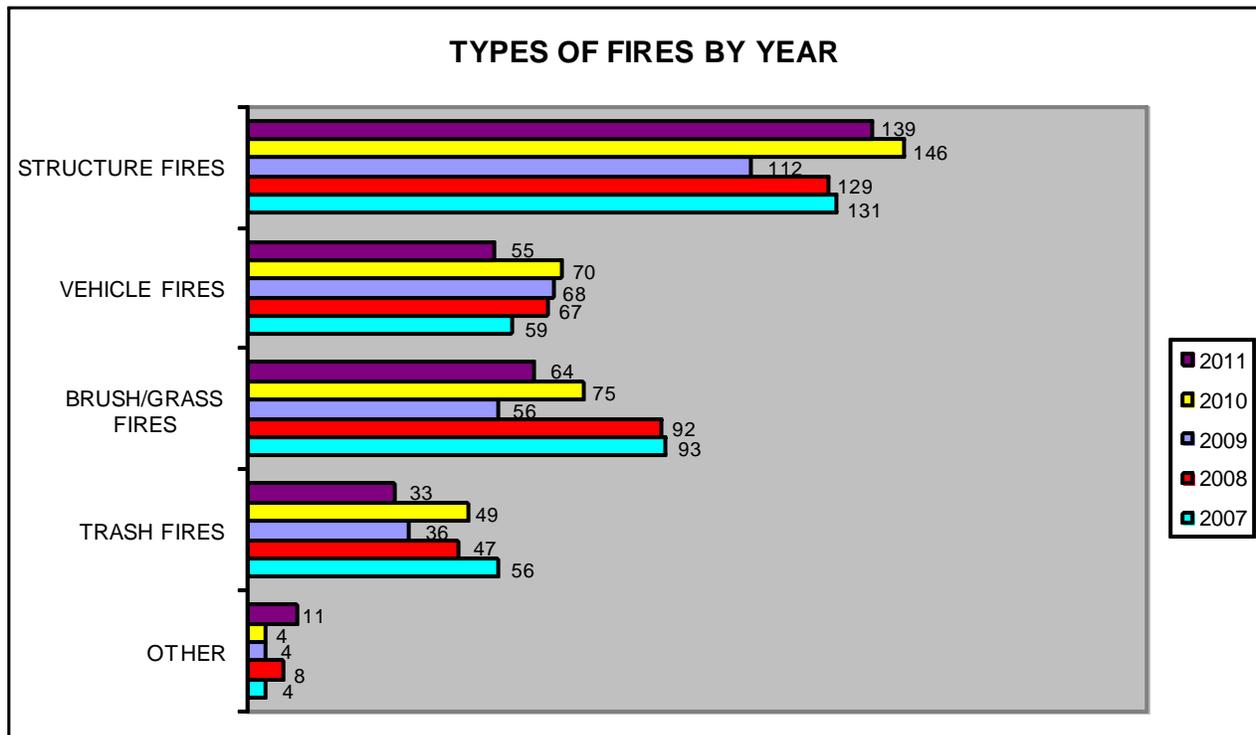
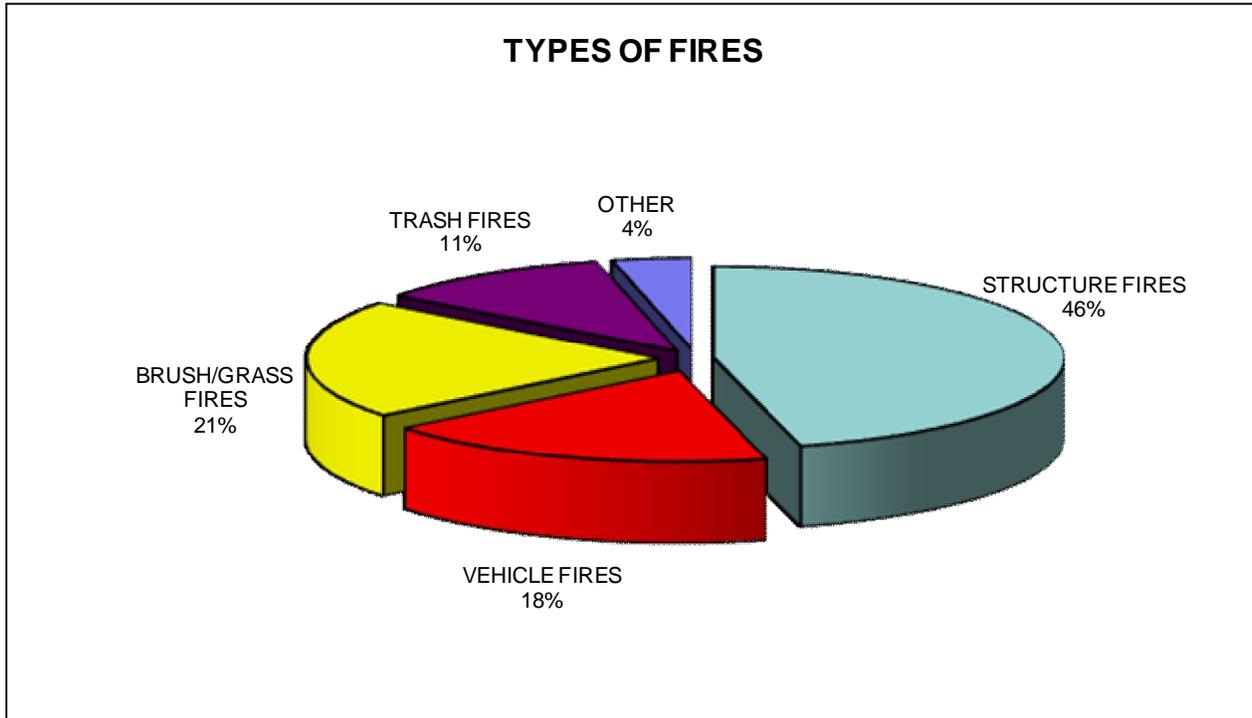
**PERSONNEL
ELEVATE AIRPLANE
AFTER LANDING
GEAR COLLAPSE**

Incident Responses

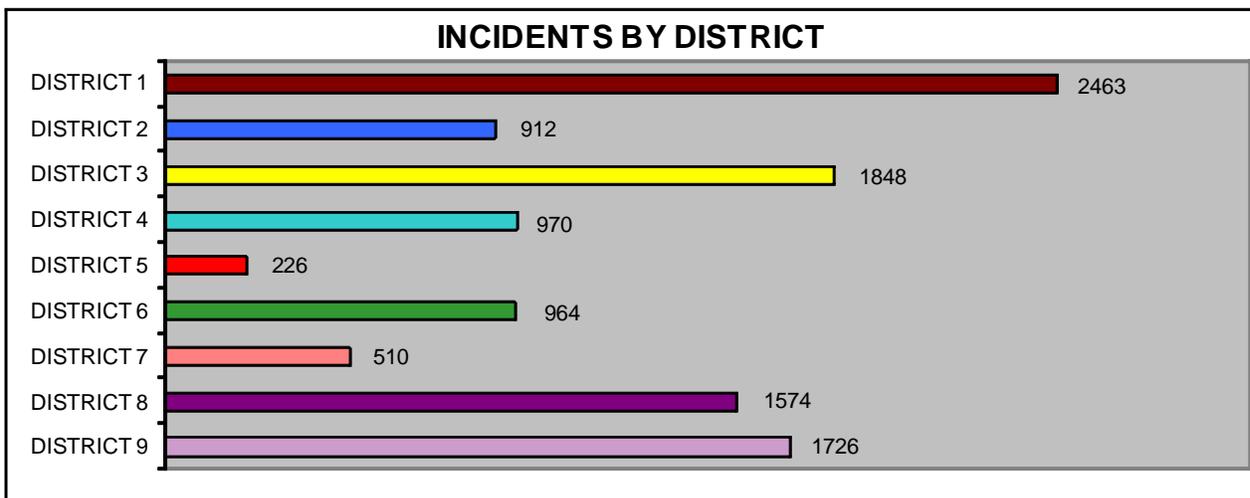
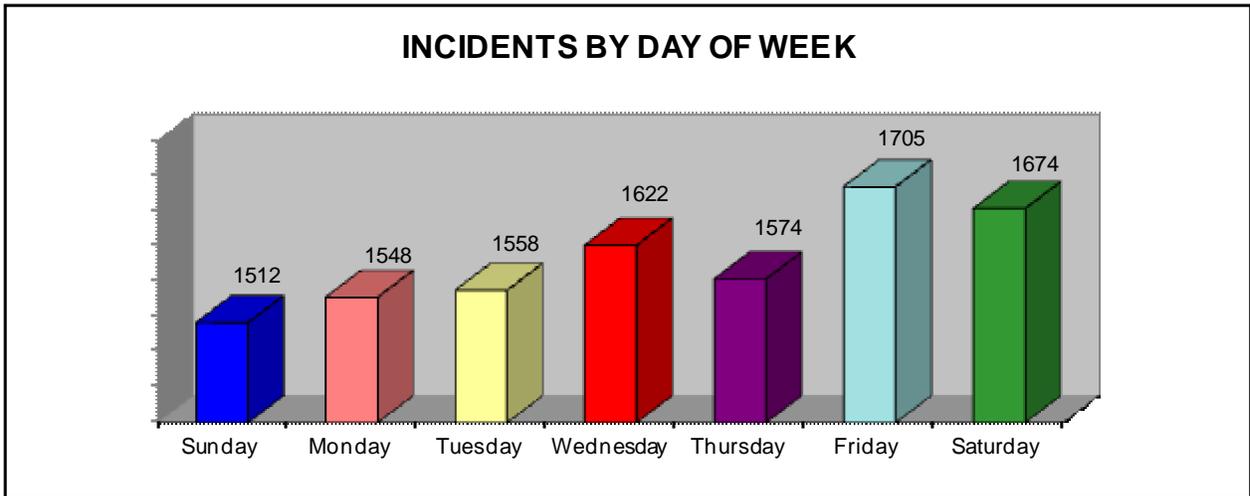
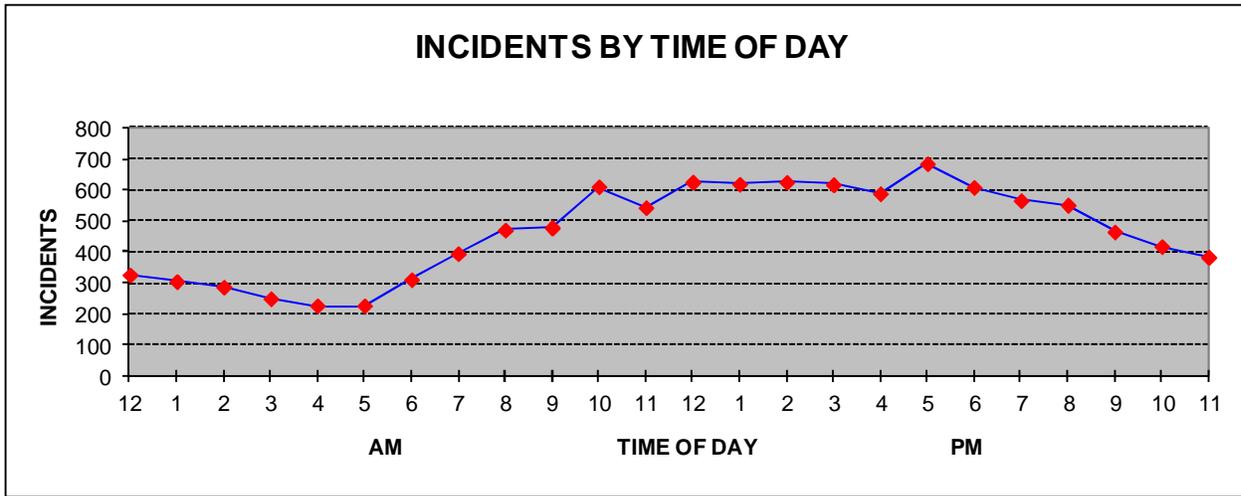
In 2011, the Murfreesboro Fire & Rescue Department responded to 11,193 incidents, including 7,349 EMS/Rescue calls. Thirty-five (35) victims were extricated from vehicle accidents. Total calls increased approximately seven percent (7.45%) from 2010, and 580 percent (580.4%) since 2001. The following charts illustrate the history of incidents; response analysis; various types of fires; the number of incidents by time of day, day of week, and district; and responses by apparatus; and false alarm analysis.



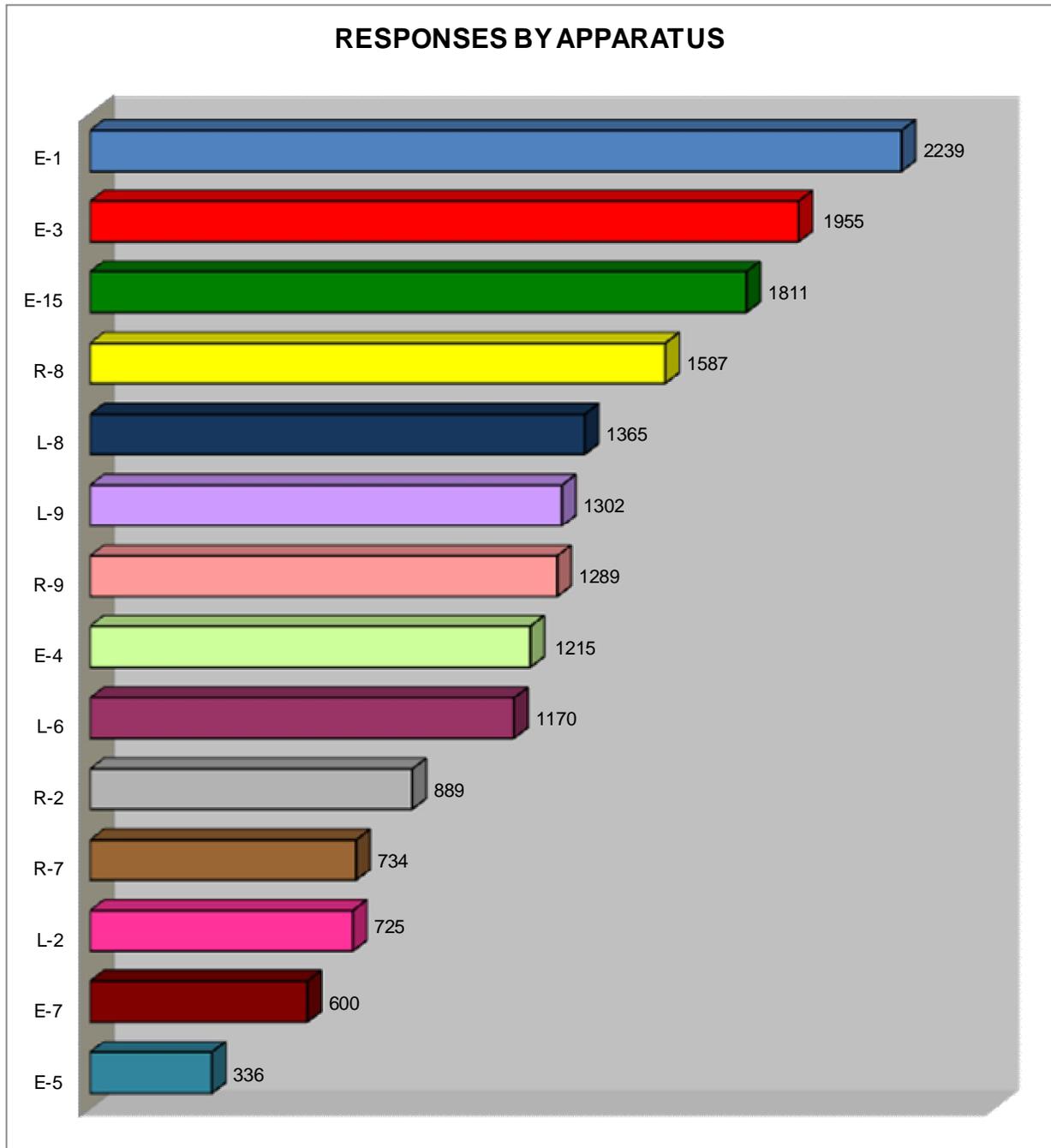
Incident Responses



Incident Responses



Incident Responses

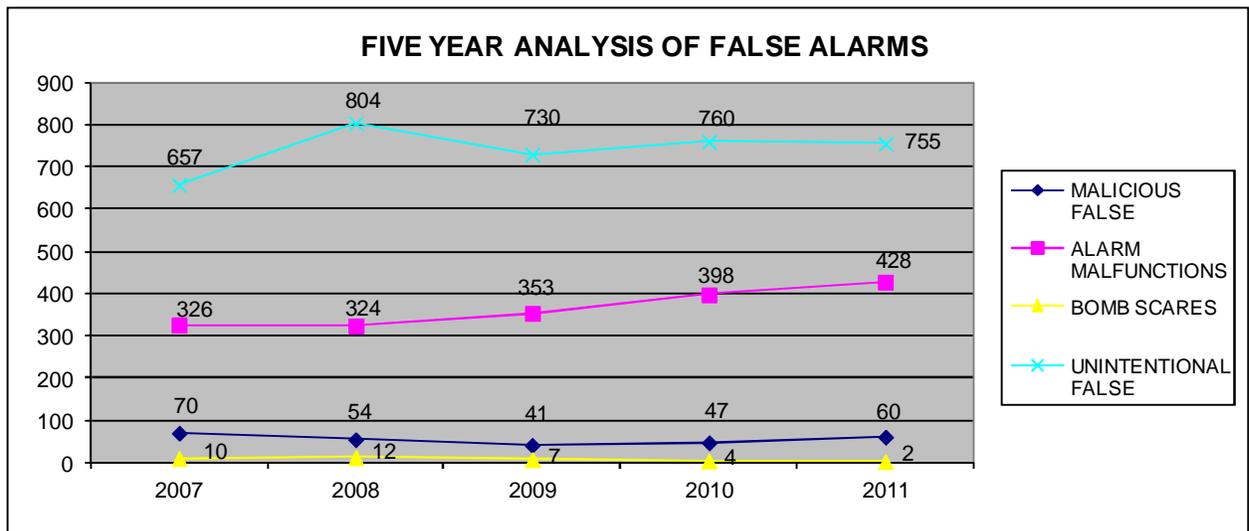
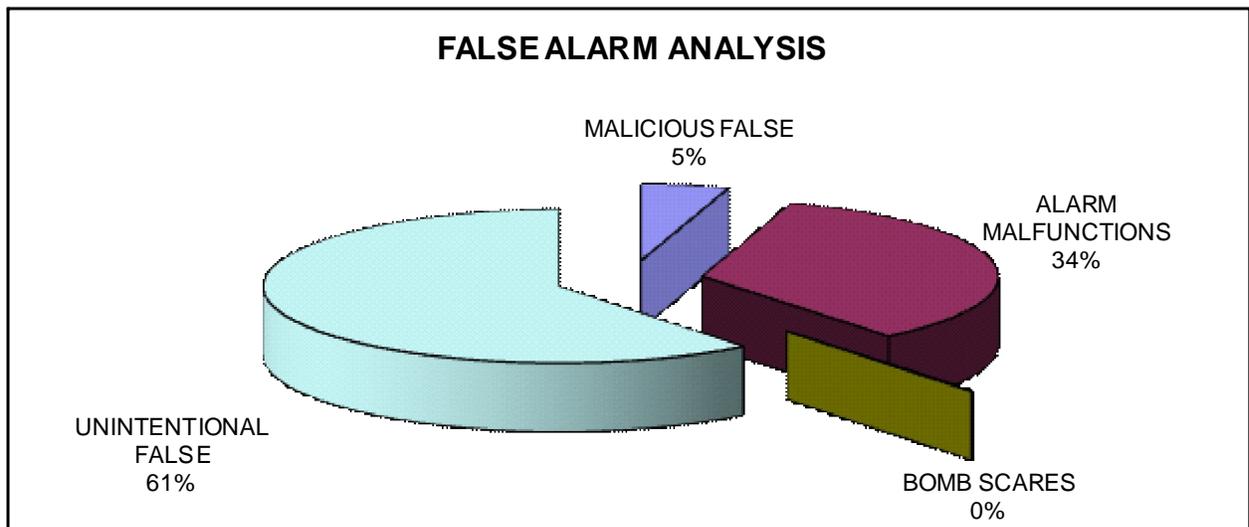


Multiple apparatus respond to most types of incidents. Typically, only one apparatus responds to a medical call. The above chart depicts the number of incidents each apparatus responded to in 2011; the chart does not include responses of Cars 20 through 35, the brush truck, hazmat truck, or standby engines. Apparatus responses totaled 17,919 on 11,193 incidents.

Incident Responses

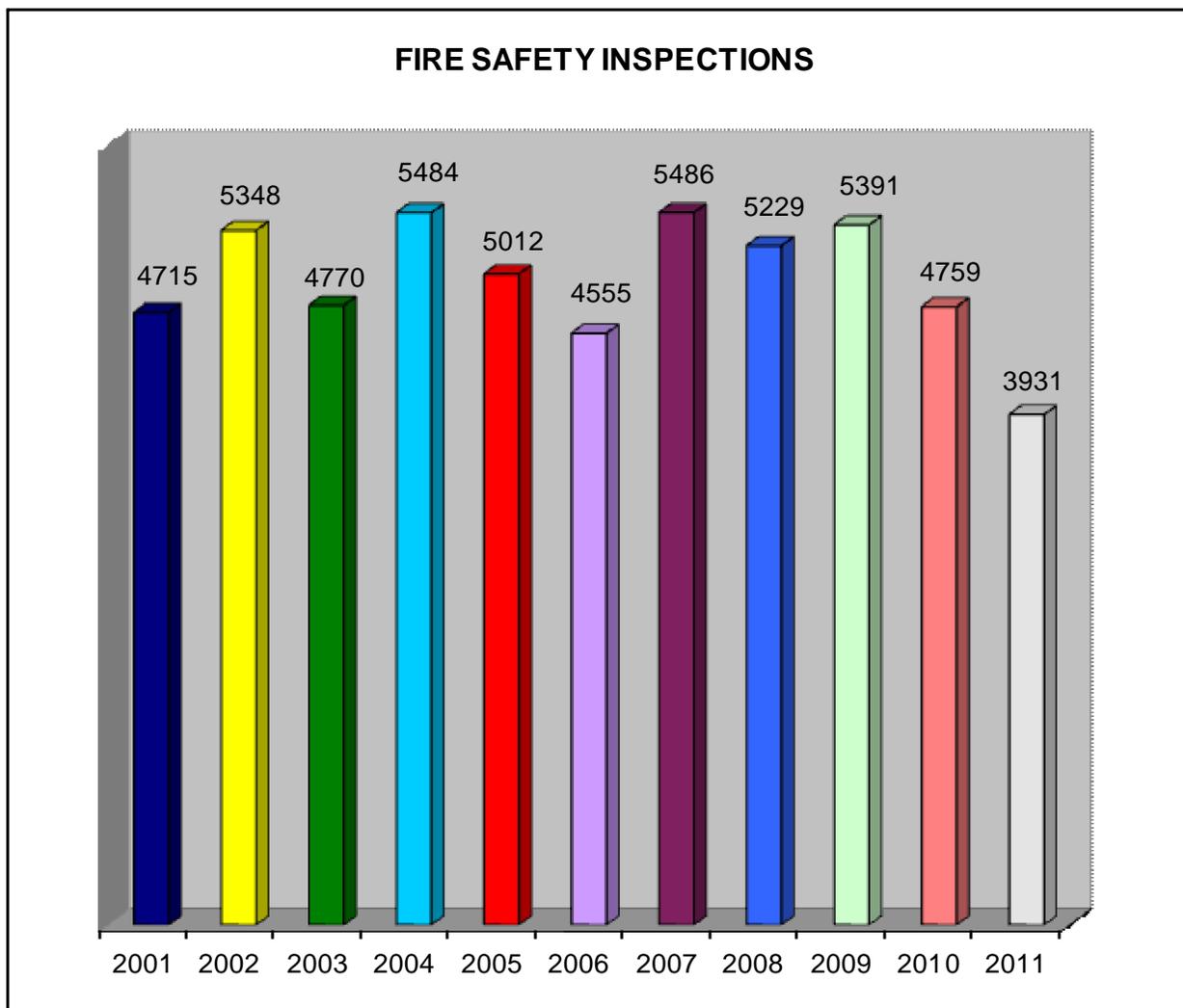
The Murfreesboro City Code regarding alarm systems was amended in 1999. The purpose of this ordinance is to encourage alarm owners to maintain their alarm systems and to eliminate any unnecessary emergency traffic. This ordinance is also designed to encourage better maintenance and proper installation of alarms. The Murfreesboro Fire & Rescue Department is making an effort to assist business owners in identifying and eliminating potential problems with their alarm systems.

The Murfreesboro Fire & Rescue Department received a total of 1,245 false alarms in 2011. False alarms represent 11 percent (11.12%) of the total calls for service. The types of false alarms are bomb scares, malicious false, alarm malfunctions, and unintentional false.



Fire Prevention

Fire Prevention is an essential function in reducing fire losses by decreasing the incidence of uncontrolled fires. Inspections help ensure life safety conditions within a structure. During inspections, a Fire Inspector checks for potential fire hazards and advises the owner of corrections needed. These inspections provide an opportunity to educate the public. In 2011, 3,931 fire safety inspections were conducted.



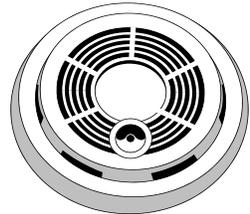
Fire Prevention

The Captain/Shift Inspectors conduct routine fire inspections on existing buildings. Items inspected are exit doors, proper operation of exit doors, proper number of exits, emergency lighting, hazardous materials storage, fire suppression systems, fire hydrants, and fire alarm systems. Assistant Fire Marshals go to construction sites to observe the installation of fire detection equipment, fire suppression systems, notification systems, fire pumps, access to the facility, proper fire hydrant location, and proper fire flows.

Site plans are reviewed biweekly in conjunction with the Planning and Water Departments. The Fire Marshal reviews the plans for proper access to the facility, number of fire hydrants, size of water main, and any hazards existing to hinder fire suppression activities. Comments are noted on the site plan for revision before going to the Planning Commission for approval. Architectural drawings are reviewed weekly with the Plans Examiner of the Building Codes Department to ensure that the building plans meet all code requirements for a safe building.

The Murfreesboro Fire & Rescue Department monitors open burning for the City of Murfreesboro. Individuals requesting information on open burning are informed of the State and EPA guidelines prior to burning. Approximately 165 requests were made in 2011.

The MFRD Fire Prevention Division receives and distributes smoke detectors annually. Since 1990, the MFRD Fire Prevention Division has given free smoke detectors to low income families, senior citizens on a fixed income, and burn out victims. In 2000, the MFRD started a city-wide smoke detector placement program called Project SAFE "Smoke Alarms for Everyone." Personnel went door to door installing smoke detectors and batteries free of charge. Personnel installed 1,395 detectors and 606 batteries during 2000. In 2011, personnel continued to install smoke detectors through Project SAFE when requested. The MFRD plans to revisit the idea of going door to door to further ensure that the citizens of Murfreesboro have working smoke detectors.



There are several ways the Fire Prevention Division learns names of individuals who need smoke detectors. During educational events, such as health fairs, career days, and safety classes, Assistant Fire Marshals ask individuals if they know of anyone who needs a smoke detector. Home nurses and aides also turn in names to our office. If the individual receiving the smoke detector needs assistance installing it, MFRD personnel will go to the home to help.

Fire Safety Education

Fire safety education is one of the Murfreesboro Fire & Rescue Department's primary goals. Fire safety education is the key to saving lives and is taught throughout the year. Our main focus is on home fire safety because over 80 percent of fire deaths occur at home. The Fire Marshal's Office also educates area business people on fire safety. In 2011, the Murfreesboro Fire & Rescue Department educated approximately 29,180 children and adults on fire safety.

"Freddie the Fire Truck," acquired in April 2006, is an excellent tool for teaching fire safety. Freddie is a fully animated robot which moves, speaks, winks, blinks, and sounds a siren all by remote control. Freddie maneuvers easily in school classrooms and is just the right size for teaching children. The combination sprinkler/fire safety house, acquired in March 2007 through a federal grant, is another valuable educational tool used to teach children and adults about fire safety and burn prevention. The combination sprinkler/fire safety house is a single story house with a kitchen, sitting area, bedroom and a burn area to show sprinkler operation and effectiveness. Personnel can demonstrate to home and business owners that residential and business sprinkler systems help prevent fires from spreading out of control.

Station tours are scheduled all during the year. During these tours, children learn about fire safety and prevention. Children get to look closely at fire engines, hear the sirens, watch a safety video, and much more. Children receive red plastic fire helmets, as well as, fire safety pamphlets to carry home. The Murfreesboro Fire & Rescue Department also participated in several public relations events that provided opportunities to educate individuals on fire safety. Information packets on fire safety were distributed, and personnel were available to answer questions on fire safety.



**PERSONNEL
DEMONSTRATED THE
AERIAL PLATFORM TO
THE YOUTH LEADERSHIP
RUTHERFORD CLASS**



**ASST. FIRE MARSHALS
TAUGHT THE LEADERSHIP
RUTHERFORD CLASS HOW
TO PROPERLY USE A FIRE
EXTINGUISHER**

Fire Safety Education

Fire Prevention Week was October 9 through 15, 2011. The national theme was “Its Fire Prevention Week! Protect Your Family From Fire.” During September and October, Murfreesboro Fire & Rescue Department personnel taught fire safety at each city school and county schools within the city limits by performing a musical called *Dante’s Dance*. Firefighters David Frost, Britt Gammon, Kevin Leonard, Clay Malone, Julia Pitt, and Lance Sutton, Driver Clay Estes (substituted), and Assistant Fire Marshals Michael Bartlett, Carl Peas, and Nora Smith enthusiastically performed in the musical. *Dante’s Dance* educates children about fire safety using songs and rhymes that are easy to remember. The musical revolves around a little boy, Dante, who burned his finger playing with matches therefore the first lesson learned is “don’t play with matches, don’t play with lighters, don’t play with anything that catches on fire.” Children are taught how to recognize the sound of a smoke alarm and how to react with the rhyme “don’t hide, go outside.” They are also taught “if you smell smoke, before you start to choke, fall to the floor and crawl out the door” and how to “stop, drop and roll.” The finale teaches children when to call 911.

PERSONNEL PERFORMED THE MUSICAL DANTE’S DANCE AT MITCHELL NEILSON PRIMARY SCHOOL



Competitions

HONOR GUARD COMPETITION

MFRD Honor Guard attended the Fire Department Instructors Conference (FDIC) on March 24-26, 2011 in Indianapolis to compete in the National Honor Guard Competition. This was the first competition for the MFRD Honor Guard. Honor Guard teams from around the country competed in a variety of Honor Guard functions. The competition promotes precision and execution. Teams were tested on inspection of detail, flag presentation (parade), posting of colors, and mock burial detail. A flag folding and presentation was also included. MFRD placed fourth in overall competition.



TUFF CHALLENGE

MFRD competed in the 8th Annual Tennessee Ultimate Fire Fighting (TUFF) Challenge on Saturday, September 24, 2011. The TUFF challenge is a fund raising event for the Tennessee Fallen Firefighter Memorial and is open to Tennessee firefighters and departments. MFRD entered one team and two individuals in the Paid category, and two teams in the Pro category. The Paid team placed first, and the Pro teams placed first and fourth. Competitors performed a series of tasks that represent the physical demands of a firefighter's job. Evolutions completed in each competition are the high-rise stair climb, hose hoist, forcible entry, hose advance, and victim rescue.



Firefighter Training

In 2011, 183 personnel trained 61,740 hours according to individual training records for a monthly average of approximately twenty-eight (28.11) hours per firefighter. Firefighters train a minimum of 20 hours per month to help maintain the City of Murfreesboro Insurance Services Office (ISO) Class Two Fire Rating. Firefighters receive training from MFRD Instructors, the Tennessee Fire Service and Codes Enforcement Academy (TFACA), the Tennessee Emergency Management Agency (TEMA), the National Fire Academy (NFA), the Tennessee Association of Rescue Squads (TARS), and numerous schools, agencies, on-line courses, and workshops. In 2011, personnel attended 90 specialized courses for a total of 8,160 hours.

MFRD uses the United States Department of Transportation and the United States Department of Health and Human Services First Responder: National Standard Curriculum for teaching Medical First Responder. The Medical First Responder course consists of 70 hours of cognitive and practical training. At the end of the training course, students must pass a National Registry First Responder test. Students passing the exam receive a state issued certificate allowing them to perform the duties of a Medical First Responder. A Medical First Responder certificate is valid for two years. MFRD firefighters receive 16 hours of emergency medical refresher training every two (2) years in addition to six (6) hours annually. In 2011, MFRD had 98 personnel certified in Medical First Responder, 69 Emergency Medical Technicians (EMTs), and six (6) Paramedics. Two (2) MFRD Firefighters/Paramedics and the Fire and Medical Training Coordinator/EMT are certified Medical First Responder Instructors and teach the MFRD Medical First Responder classes.

MFRD follows the Tennessee Association of Rescue Squads (TARS) Vehicle Extrication teaching curriculum for vehicle extrication training. The vehicle extrication training course consists of three days of training including one day in the classroom and two days at an auto salvage yard. At the salvage yard, the students practice stabilizing vehicles, removing doors, windows, and tops, and pushing dashboards off of victims. A written test is administered to evaluate the students. Personnel also attend the three day TARS Advanced Extrication course. TARS requires vehicle extrication refresher training every two years. In 2011, all MFRD firefighters had a TARS training certificate in vehicle extrication.

In 2011 Instructors from Progressive Rescue Solutions, Inc. taught a 40 hour Rope Rescue Technician I/II course to 13 MFRD personnel and a 40 hour Confined Space Rescue Technician I/II course to 12 MFRD personnel.

Five (5) personnel attended federally funded classes at the National Fire Academy in Emmitsburg, Maryland, the Center for Radiological/Nuclear Training at the Nevada National Security Site near Las Vegas, Nevada, and FEMA's Center for Domestic Preparedness in Anniston, Alabama.

Firefighter Training

In 2011 Instructors from the National Center for Biomedical Research and Training at Louisiana State University delivered a 24 hour, Introduction to Computer-Aided Management of Emergency Operations (CAMEO) Suite course to 17 personnel. CAMEO is a system of software applications used widely to plan for and respond to chemical emergencies. CAMEO was developed by the Environmental Protection Agency's Office of Emergency Management and the National Oceanic and Atmospheric Administration to assist front-line chemical emergency responders. The three day course was sponsored and paid for by the Department of Homeland Security (DHS).

In 2011 MFRD sent 15 personnel to a 32 hour Incident Response to Terrorist Bombings course. The classes were held at the Energetic Material Research and Testing Center at New Mexico Tech in Socorro, New Mexico. The four day, train-the-trainer course was sponsored and paid for by DHS. The course prepares emergency responders to react effectively, work cooperatively, and apply countermeasures in any incident involving explosives.



**PERSONNEL
TRAIN ON
HAZARDOUS
MATERIALS**

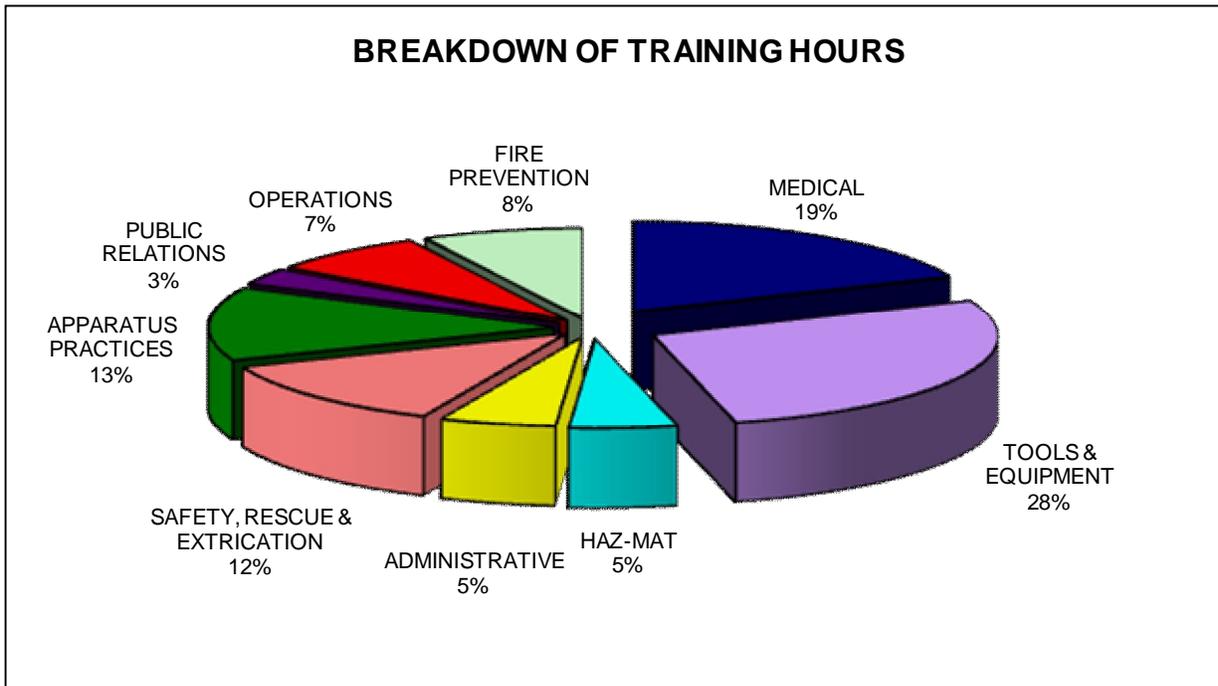
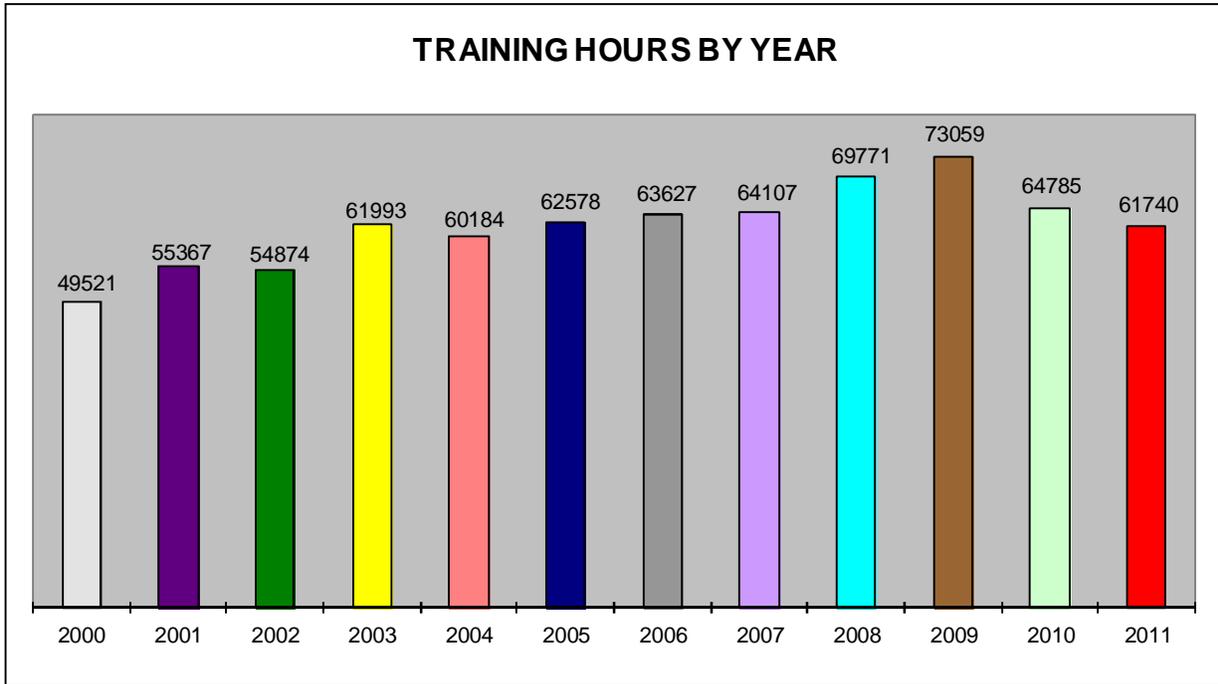


**PERSONNEL
ATTEND CAMEO
SOFTWARE CLASS**



**PERSONNEL
PRACTICE ROPE
RESCUE
TECHNIQUES**

Firefighter Training



Firefighter Training

OSHA regulations mandate facepiece fit tests be administered to each firefighter annually. The fit tests ensure that the facepiece fits properly. MFRD uses the Qualitative Irritant Smoke Protocol to fit test each firefighter's SCBA facepiece. OSHA also requires an annual respiratory evaluation on each firefighter. In 2011, a licensed doctor administered an annual breathing test to each firefighter.

MFRD Training Office oversees the maintenance of 126 self-contained breathing apparatus (SCBA) and 241 cylinders for the department. Regulations require that composite cylinders be hydrostatically pressure tested every five years. All MFRD SCBA regulators are tested annually by an outside source to ensure performance. MFRD maintains four breathing air compressor units and 32 6,000 pounds per square inch (psi) cascade cylinders that supply all SCBA breathing air for the department. The breathing air quality was tested quarterly in the air compressor units by an outside source in 2011. These tests ensure non-toxic air is being inhaled by our firefighters while using their SCBA.

MFRD Training Office keeps records of hazardous chemicals existing at facilities in Murfreesboro. The federal government requires businesses to annually submit a Tier II form to the Fire Department detailing any extremely hazardous materials stored at their facility. The Tier II form contains lifesaving information and is available for all personnel to study. Tier II information is incorporated into our dispatch system.

MFRD Training Office oversees the annual inventory check of all MFRD fire stations, apparatus, equipment, and fixed assets. In 2011, the MFRD had 10 fire stations, one administration office building, 24 fire apparatus, and 31 other vehicles. Each fire station and fire apparatus contains an array of relative equipment and when combined, sums up to thousands of fixed assets.



**PERSONNEL CONDUCT
SCBA FACEPIECE FIT
TEST**



**PERSONNEL
INVENTORY
EQUIPMENT**

Firefighter Training

MFRD training office maintains records of fire apparatus fire pump annual service tests. In 2011, the service test was performed on 16 MFRD fire apparatus. Most MFRD fire apparatus can deliver 1500 gallons of water per minute (gpm). Each pump system is tested according to the National Fire Protection Association (NFPA) Standard #1911 which requires a 20 minute capacity (1500 gpm) test at 150 psi pump pressure, a 10 minute 70 percent capacity test at 200 psi, and a 10 minute 50 percent capacity at 250 psi. MFRD performs the fire apparatus fire pump systems tests at the Smyrna Fire Department or Kittrell Volunteer Fire Department water-drafting pits. Nine aerial/ladder apparatus are certified annually to ensure safe operation.

MFRD training office oversees the annual fire hose tests. MFRD fire hose inventory consists of 1", 1.5", 1.75", 2.5", 3", and 4" fire hose that are 50-100 feet in length. The hoses are pressurized from 200 to 250 psi, depending on the hose material, for five minutes. In 2011, MFRD personnel tested approximately 51,500' of fire hose.

MFRD has participated in the State of Tennessee's Commission on Firefighting certification program since 1986. Currently, MFRD participates in 12 levels of certification. All tests consist of practical and written portions. In 2011, MFRD administered the practical part of the Fire Apparatus Operator, Instructor I, Fire Officer II, and Fire Safety Compliance Officer I and II tests. The Firefighting Commission administered the practical for their Firefighter I, Journeyman Firefighter/Firefighter II, Officer I, Instructor II, Safety Officer, and Public Fire and Life Safety Educator I and II tests. The Firefighting Commission administers all written certification tests. In 2011, the MFRD had 99 percent (98.88%) Firefighter I state certified personnel.

MFRD also participates in the Commission's State Educational Incentive Program. The program requires firefighters to complete a minimum of 40 hours of approved training per year. All State Educational Incentive Training is administered within MFRD and is subject to state audit. In 2011, firefighting personnel received \$108,600 for their 2010 State Educational Incentive Training.



**PERSONNEL
PERFORM
ANNUAL PUMP &
HOSE TESTS**



Firefighter Training

