

Amarillo
Fire Department
Annual Report 2007

What is PUBLIC VALUE?

Is Public Value perceived to be expedient, professional and friendly customer service? Perhaps, measured through efficient government or through high levels of accountability? Of course it is!

But, the bottom line remains:

Public Value is realized through the passionate efforts of people who truly care and strive to make a difference on a daily basis providing care and service for our citizens. I believe the membership of the Amarillo Fire Department defines ***Public Value***.

Fire Chief Steve D. Ross

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Amarillo Fire Department Mission Statement

Our mission
is to protect lives
and property in our community
by providing the highest quality
of professional services.



VISION STATEMENT

Our charge is simple and straightforward. First and foremost, we strive to save as many lives, and improve the quality of life, for as many people as possible. Next, we protect and preserve as much property, as practical. We accomplish this, not by the foolish sacrifice of our own safety, but through the leadership of a structured and disciplined incident command system, the teamwork of a highly skilled and trained workforce, as well as the support of our community. We strive to maximize every resource available to us in our pursuit to serve. And most importantly, I attribute our successes to the tremendous dedication, character, and professionalism of the members of the Amarillo Fire Department. We will strive to insure that this tradition continues. However, the delivery of proficient emergency services represents only a percentage of the total public safety solution. By enhancing our relationship with the public, as well as promoting a personal safety attitude, within the community, through public education and business and home safety programs, the members of the Amarillo Fire Department will, as partners with the public, improve personal public safety. Through teamwork at the community level, Amarillo will continue to be an outstanding place to live. Therefore, the following vision for the Amarillo Fire Department addresses the strategic issues that will directly affect the ability to accomplish our mission to: protect lives and property in our community by providing the highest quality of professional services.

AMARILLO FIRE DEPARTMENT MAJOR GOALS AND OBJECTIVES

OBJECTIVES:

- 1. Maximize safety and wellness in all activities.**
- 2. Improve or preserve the quality of life through effective customer service.**
- 3. Preserve property values through effective customer service.**
- 4. Maximize service delivery through efficient and responsible financial management.**
- 5. Align decision-making to the mission of the department through the continual development and support of organizational management.**

STRATEGIES:

- I. Improve concentration, distribution, and staffing of emergency resources to provide reliable, consistent emergency services. Improve our ISO personal property classification from a 3 to a 2. Provide public protection consistent with NFPA 1710 (organization and deployment standard) that recommends a minimum of four fire fighters per apparatus with a six-minute total response time, 90% of the time. Provide public protection consistent with national organization, deployment, and response standards.**

TACTICS

- a. Renovate existing facilities to enhance capabilities.
 - i. Renovate or replace existing Central Fire Station to maximize capabilities to include an apparatus bay tall enough to house modern apparatus.
 - ii. Renovate existing Fire Station 3 to expand our capabilities to accommodate an additional company to improve resource concentration, as well as provide an apparatus bay of adequate size to support modern fire apparatus.
 - iii. Renovate Fire Station 9 to enhance and preserve our response capabilities.
 - iv. Replace Fire Station 8 to expand our concentration of resources, as well as accommodate an additional ladder company to support the distribution of ladder companies.
 - v. Renovate Fire Stations 2, 4, 5, and 6 to preserve and enhance our response capabilities.

- b. Continue the renovation of a facility to support emergency vehicles and trailers in the vicinity of the Central Fire Station.
- c. Increase the replacement fleet by one ladder apparatus, to assure that four ladders are continually available, thus assuring adequate concentration of ladder trucks to maintain our standard of coverage. Replace low-profile apparatus with standard size fire apparatus as quickly as the renovation of facilities allows.
- d. Construct and staff additional fire stations to protect the regions of the city after response times substantially increase beyond six minutes, 90% of the time to meet response criteria in areas of growth.
 - Locate and purchase land for additional fire stations located southeast in the vicinity of 58th and Georgia, Northwest in the vicinity of Coulter & Fairway, Southeast in the vicinity of 58th and Osage, West in the vicinity of 9th and Coulter, East in the vicinity of Lakeside and I-40, as well as Hillside and Soncy.
 - Increase staffing by a minimum of 5 additional fire fighters per year for the next fifteen years to place an additional company in service every three years. Thus, an additional engine or ladder apparatus placed in service every three years for the next fifteen years.
 - Maintain a 3 to 1 ratio of single company to multi-company fire stations to maintain adequate concentration of resources during periods of high service demands and training, thus, reducing response times.
- e. Increase our total response capabilities by one ladder-company to improve our concentration to allow consistent ladder coverage on all alarms when the renovation of Fire Station 3 is completed. Relocate the ladder company from FS #9 to the new FS #8. The resources would allow the capability of increasing the first-alarm response from 3 units to four units, thus allowing the capability of a first alarm assignment without having an open fire district.
- f. Renovate Fire Stations # 2,4,5 &6 to preserve and enhance our response capabilities.
- g. Publish response data to develop and submit a NFPA 1710 compliance report in regard to adequate staffing, station number and location.
- h. Utilize an apparatus committee to develop and enhance the current AFD apparatus specifications, which supports the dependability and capabilities of the fleet. Support a “learning organization philosophy” that continually modifies apparatus specifications to support the maintenance, capabilities and dependability of fleet.

II. Maximize the capabilities of all resources available to accomplish the mission of the department. Continually improve customer services through the involvement, participation, and development of department members to support the tradition of excellent performance.

TACTICS

- a. Continue the development of the new training center adjacent to the ARFF burn facility. Continue to construct a modern training facility capable of simulating real-life, practical situations, thus affording the AFD a more proficient and safer workforce.
 - i. Acquire additional propane burn simulators to improve training safety without sacrificing realism, as well as reduces number of line fire fighters required to conduct live fire evolutions.
 - Acquire ARFF simulator capable of providing realistic and safe tactical simulation.
 - Acquire car fire, ground spill fire and LP simulators capable of providing realistic and safe tactical simulation.
 - Complete infrastructure to include: lighting, classrooms, paving and hydrants.
 - Acquire a comprehensive Hazardous Materials, WMD, / Disaster simulator capable of providing realistic and safe tactical simulation.
 - ii. Pursue technologies that will enhance the learning experience remotely and interactively. By training remotely, the department could increase staffing by three engine companies and twelve fire fighters for the replacement of traditional didactic training sessions.
- b. Install pre-emption traffic control devices at thirty strategic intersections, thus reducing en-route times and improving response safety.
- c. Utilize mobile data capabilities in emergency vehicles to provide:
 - i. Automatic vehicle location (AVL) to reduce response time by dispatching the closest unit instead of by traditional districts.
 - ii. Status display allows responders to document status to improve communications and record documentation.
 - iii. Pre-plan survey information and diagrams to allow responders vital information prior to action.
 - iv. Track location of fire fighters at all times from the command post.

- v. Conduct an aggressive training program compliant with the official, published departmental procedures, as approved by the Support and Operations Chiefs.
 - vi. Evaluate and document the capabilities of all programs and members.
 - vii. All existing programs will continue to improve operational effectiveness through innovative administration, management and training.
 - viii. Continually revise all applicable documents to include: rules, procedures, operating guides, and the training manual.
 - ix. Develop, implement, and maintain competency-based company standards through a continuing education program. Determine proficiency of all members at least annually within all programs.
 - x. Seek opportunities to support interoperability and unify public safety programs with internal and external public safety partners.
- d. Complete the implementation of the IAFF/IAFC Fitness and Wellness Initiative. The ability of our members to mentally, physically, and spiritually perform our duties at a maximum level, not only enhances our ability to protect our city, but provides for a safer work environment as well.
- i. Complete the renovation and replacement program of the exercise equipment at the fire stations.
 - ii. Acquire the necessary evaluation equipment to measure and evaluate fitness levels in accordance with the initiative standards.
 - iii. Continue to implement strategies to improve the diversity of our workforce.
 - iv. Support and integrate safety into every aspect of AFD to maximize the safety and fitness of all members.
 - v. Implement CPAT evaluation for AFD physical evaluation.
- e. Transform the existing operational goal process to include an appraisal or evaluative tool, to not only determine the success of the goal, but also, what revisions, if any, are necessary to maximize our results and resources.
- f. Develop member incentive programs to support and encourage employee responsibility for competence, safety and wellness.

III. Enhance the department’s relationship with the public, as well as promote and support a personal safety attitude to assist the citizens with the improvement of their own personal safety.

TACTICS

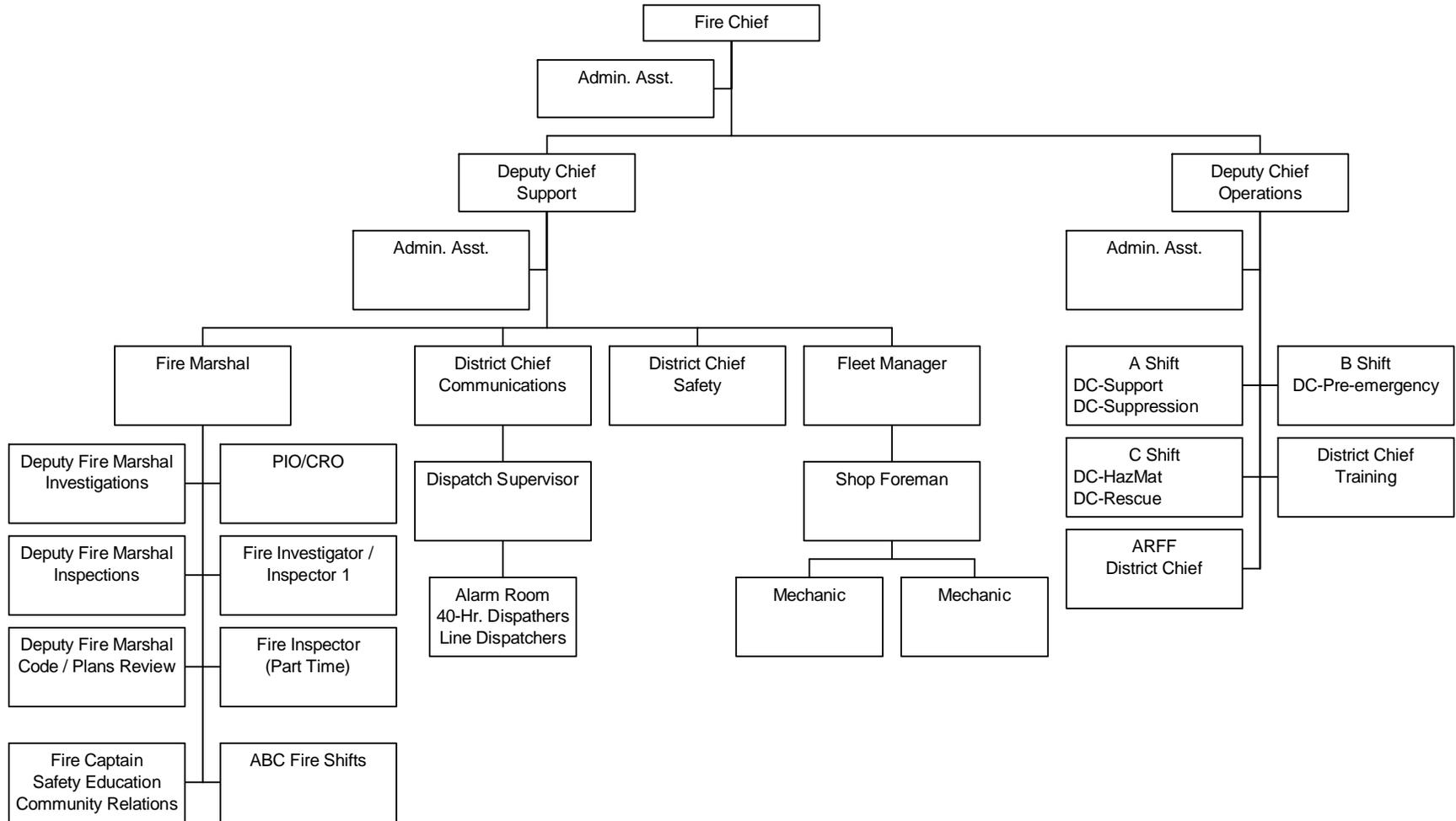
- a. Utilize the “Vision Committees” or solicit member participation in departmental planning to improve communications, both internally and externally, to market fire safety and public safety education using all available mediums.
- b. Continue to develop a self-home and business safety program to provide adequate support from all members to support the public in a way that allows them to protect themselves, as well as their property.
- c. Support responders with pre-emergency information, at both the strategic and tactical levels.
- d. In cooperation with suppression members, continue to deliver fire safety education presentations to target audiences.
- e. Continue to provide the community with information regarding Departmental activities.
- f. Conduct employment preparation courses to provide pre-employment information to target audiences.
- g. Develop & implement a “Public Safety Citizens Committee” to solicit feedback from our customers.

IV. Develop and implement a “mentoring” program to pass on our experience and traditions to promote an organizational team building philosophy.

TACTICS

- a. Implement a mentor program that places probationary employees, regardless of classification, with senior “mentors” to support and encourage their development.
- b. Develop the skills and abilities of junior members to perform the job functions of the job classification above their current work assignment through supervised on-the-job and formal training opportunities.
- c. Continue to develop the capabilities of the members training programs to include ICS, leadership, customer service and organizational development.
- d. Promote a cultural environment that supports an independent, self-leader mentality from all members through a participatory management, team-building philosophy.

Amarillo Fire Department



Personnel Summary

As of December 2007

Uniformed Members - 229

1	Fire Chief	35	Fire Lieutenants
2	Deputy Fire Chiefs	57	Fire Drivers
10	Fire District Chiefs	103	Fire Fighters
21	Fire Captains		

Classified Civilian Members - 11

1	Fire Marshal	1	Mechanic I
1	Fire Investigator/Investigator	2	Secretary III
3	Fire Investigator/Inspector II	1	Secretary II
1	Mechanic Foreperson II		
1	Mechanic II		

Part-Time/Hourly Members – 15

1	Fire Inspector	3	Telecommunication Supervisors
1	Fleet Manager	3	Messenger/Delivery Person
7	Telecommunication Operators		

Total Members – 255

2007 Personnel Changes

January 2007 through December 2007

Retirements

<u>Name</u>	<u>End Date</u>	<u>Years of Service</u>
Randy Larson	01/03/07	25
Mark Kroger	01/31/07	20
Arliss Johnson	05/31/07	11
Mike Richardson	09/25/07	24
Ken Cobb	12/21/05	30

Other Departures

<u>Name</u>	<u>End Date</u>	<u>Years of Service</u>
Kyle Mills	05/23/07	2
Matt Adams	06/03/07	<1
Jana Jobert	06/04/07	<1
Robert Ward	12/03/07	<1
Beau Hargrave	12/17/07	<1
Aaron Waterman	12/19/07	<1

New Employees

<u>Name</u>	<u>Date of Employment</u>
Brent Naylor	06/07/07
Waylon Bural	06/07/07
Beau Hargrave	06/07/07
Randall Johnson	06/07/07
Pepper Ramon	06/07/07
Adam Wilcox	09/27/07
Robert Ward	09/27/07
David Garcia	09/27/07

Chris Taylor	09/27/07
Matt Smith	09/27/07
Ryan Cox	09/27/07
Brent Goerend	09/27/07
Jana Jobert	04/19/07
Jared Johnson	04/19/07
Kevin Joy	04/19/07
Mike Stadler	04/19/07
Aaron Waterman	04/19/07
Bill Mantooth	10/01/07
Kathi Weger	10/01/07
Michelle Calvin	10/07/07
Kellie Simpson	12/17/07
Javier Alvarez	12/17/07
Dustin Dorman	10/01/07

Promotions

<u>Name</u>	<u>Date of Promotion</u>	<u>Rank</u>
Roy Deupree	01/04/07	Lieutenant
Jack Bell	01/04/07	Driver
Ted Winton	02/01/07	Driver
Clayton Mayo	07/05/07	Mech. Foreperson II
Tim Thornhill	09/27/07	Lieutenant
Jim Farrow	09/27/07	Driver
Craig Phipps	10/11/07	Captain
Brent Clark	10/11/07	Captain
Jeremy Hill	10/11/07	Lieutenant
Jaime Lucero	10/11/07	Lieutenant
Jason Mays	10/11/07	Lieutenant
Dee LaGrone	10/11/07	Lieutenant
Steve Detten	10/11/07	Driver
Shaun Jones	10/11/07	Driver
Jeff Carlile	10/11/07	Driver
Clay Gibson	10/11/07	Driver
Keith Horton	10/11/07	Driver
Gregg Gattis	10/11/07	Driver
Ryan James	10/11/07	Driver

AMARILLO FIRE DEPARTMENT

Emergency Services

EMERGENCY SERVICES

MISSIONS, GOALS, AND OBJECTIVES

MISSION STATEMENT: Protect lives and property in our community by providing the highest quality of professional services.

GOALS:

- Maximize safety and wellness in all activities.
- Improve or preserve the quality of life through effective customer service.
- Preserve property values through effective customer service.
- Maximize service delivery through efficient and responsible financial management.
- Align decision-making to the mission of the department through the continual development and support of organizational management.

DEPARTMENTAL OBJECTIVES:

- Provide public protection consistent with national organization, deployment, and response standards.
 - Determine compliance with all regulatory agencies, and maintain competency of the ICS system, as well as all tactical evolutions consistent with our existing SOGs.
 - Revise procedures and implement Candidate Physical Ability Test.
 - Upgrade our capabilities and certifications in every program, to include: WMD, rescue, as well as review, revise, and train our ICS procedures to include tiered incident command response and support with Command Teams and using NIMS.
 - Review and revise organizational employment processes to include: valid background and interview processes.

- Continually improve customer service through the involvement, participation, and development of department members to support a tradition of excellent performance.
 - Conduct an aggressive training program compliant with the official, published departmental procedures, as approved by the Support and Operations Chiefs.
 - All existing programs will continue to improve operational effectiveness through innovative administration, management, and training.
 - Continually revise all applicable documents to include: rules, procedures, operating guides, and the training manual. (100, 300, and the training manual)
 - Develop, implement, and maintain competency-based company standards through a continuing education program. Determine proficiency of all members at least annually within all programs.
 - Continue to develop and implement terrorism capability at all levels of response to include procedures, training, and response of decontamination unit.
 - Continue to develop and maintain an officers training program to include ICS leadership and NIMS.

- Enhance the department's relationship with the public, as well as promote a personal safety attitude with our citizens to improve their safety.
 - Support and assist with the development and implementation of a home and business safety program to include procedures and training.
 - Support responders with pre-emergency information, at both the strategic and tactical levels. Continue to develop and train contingency planning and readiness.

- Promote an organizational teambuilding philosophy through the implementation of a "mentoring" program.
 - Support and integrate safety into every aspect of AFD to maximize the safety and fitness of all members.
 - Implement a mentor program that places junior members, regardless of classification, with senior "mentors" to support and encourage their development and understanding of our values.
 - Develop the skills of the junior members to perform the job classification above their current work assignment through supervised on-the-job training.

DISTRICT CHIEFS:

- Supervise more calls for safety and correct procedures.

- Complete the Incident Report any time they have taken command.
- Complete a Response Review on all major structure fires, major 10-50s, Haz-mats and rescue calls.
- Evaluate competency in assigned areas.
- Develop their command presence and techniques.
- Leadership development with sets and reps at Officer Meetings.
- Support fitness at all levels.
- Review all NFPA Standards and OSHA regulations to ensure SOG compliance.
- Support the implementation of Command Teams.

PROGRAM OBJECTIVES:

- The suppression program will administer with emphasis on:
 - Continue to develop and implement competency-based CE program for all suppression personnel.
 - Emphasize emergency scene communications and accountability to include proficiency in attack sequence (2 in, 2 out), and proper support of fire attack to include RIC capabilities.
 - Emphasize emergency escape procedures to include SCBA proficiency and consumption capabilities.
 - Evaluate effectiveness of the CE program through continual evaluation of operational effectiveness, as well as company evaluations to include: SCBA, ladders, and hose evolutions.
 - Above and below grade structural capabilities.
 - Fire Studio for each station.

- The medical program will administer with emphasis on:
 - Continue the competency-based CE program for all suppression personnel through the T.D.S.H.S. and the evaluation of skills this annum.
 - In order to insure competency for the T.D.S.H.S. we will continue giving a written test to everyone that is near to re-certification date.
 - Continue competency-based training by including T.D.S.H.S. skill sheets with Tri-Mester Lesson Plans when applicable.
 - Develop a video class for Patient Assessment and Reporting.
 - Learn all training and reporting requirements and procedures currently performed by the Compliance Secretary.
 - Maintain medical inventories.
 - Develop an in house instructor class.
 - Update SOGs and Training Manual.

- The rescue program will administer with emphasis on:
 - Develop and implement competency-based CE program for operational and technician level personnel, as well as rescue team personnel.
 - Bring all personnel up to the awareness level in machinery extrication, structural collapse, rope rescue, confined space, water rescue, wilderness SAR and trench rescue.
 - Develop SOGs for new rescue truck.
 - Update SOGs, Training Manual, and Lesson Plans.
 - Develop long-range goals for the Rescue Program.
 - Write Response Procedures for the USAR Trailer.

- The hazardous materials program will administer with emphasis on:
 - Continue to develop and implement competency-based CE program for all suppression personnel, as well as hazmat technician personnel.
 - Utilize tier II information into the pre-emergency and the CAD capabilities.
 - Continue to develop and implement Weapon of Mass Destruction (terrorism) program to include operations certification and decon capabilities for all members. Train SOGs for a WMD incident.

- Continue to develop SOGs and train personnel to be able to use all new equipment.
- Update SOGs and Training Manual.
- Evaluate all personnel.
- Design and develop Haz-Mat Training Field.
- The pre-emergency planning program will administer with emphasis on:
 - Continue to develop a fire flow strategic plan with water distribution to include target areas with inadequate water flow, formulate required water flow by district and by target hazard, and coordinate needs with water distribution.
 - Continue to pursue the utilization of pre-emption technology with the Traffic Engineering Department.
 - Train the Amarillo Emergency Response Plan.
 - Develop preplan programs to include:
 - Identify, design and provide critical pre-emergency data to engines in-route within 30 seconds.
 - Update the pre-plan survey process.
 - Identify, design and provide comprehensive pre-plan data to the IC within 5 minutes of inception of incident.
 - Establish a program for continuous updating of all response maps.
 - All target hazards shall be identified and pre-fire planned (with completed hazardous abatement forms) every three years, minimum.
 - Develop SOGs and Training Manual for Pre-Planning.
- The ARFF program will administer with emphasis on:
 - Continue to revise the ARFF portion of the training manual and SOP's.
 - Continue to develop and implement competency-based CE program for all ARFF personnel.
 - Continue to develop and implement ARFF tactics and evaluate competency.
 - Pursue the development of mock-ups to support training.
 - Support the new training facility.
 - Develop and implement Airport Exercise

- Support transition phase at Amarillo College.
- Support the TFFMA Convention.
- The Training program will administer with emphasis on:
 - Maximize all practical training dates when scheduling training activities.
 - Develop and implement a Tex-Com compliant Fire Officer curriculum for both new and existing officers.
 - Organize and develop the AFD Training Video Library.
 - Support training and development of the Incident Command System.
 - Develop SOP's for systems at the new training facility.
 - Develop Tactical/Strategy classes for officers.
 - Review and revise Probationary Procedures.
 - Learn policies and procedures performed by the Compliance Secretary.
 - Fire Studio in all stations.
 - Revise Training Manual.
 - Look at getting FETN in all stations.

Fire Suppression



The fire suppression program supports and coordinates the fire fighting capability of the department. District Chief Mike Campbell is the program director and is tactically supported by the members at Fire Station #5. Captain Bill Risner on “A” shift is the program manager/leader and is supported by Lt. Troy Waller on “B” shift, and Lt. Mike Vest on “C” shift.

This program’s responsibilities have become more diversified due to equipment maintenance needs of the department. Some of the program responsibilities are:

- Research and development of new equipment
- Needs assessment
- Writing and testing SOP’s
- Program lesson plans
- In Service training of department members
- In Service Company Evaluations
- Development of CBT practical exercise
- Hose maintenance, repair and record keeping
- Ladder maintenance, repair and record keeping
- Thermal Imaging Cameras, (TIC) maintenance repair and record keeping
- Large g.p.m. and small g.p.m. nozzle maintenance, repair and record keeping
- Truck standardization

Performance Target(s)

- A general alarm suppression assignment capability consisting of seven engines, three ladders, and two command vehicles, with a total of 42 firefighters, can respond to an emergency leaving four engines, one ladder and one command vehicle, with a total of 21 fire fighters, remaining to respond to emergencies. (Two of the engines and one command vehicle are staffed by call-back personnel)
- A first alarm suppression assignment capability consisting of three engines/ladders, one command vehicle, with a total of 13 fire fighters with a response time of the first arriving unit within 6 minutes, 90% of the time. The balance of the first alarm assignment shall arrive within 10 minutes.
- Whenever practical, conduct aggressive interior fire attacks, in as safe a manner as practical, to support the search and rescue of occupants and then, confine the fire damage to the room of origin 90 % of the time.
- Conduct defensive fire attacks, in as safe a manner as practical, when structures are not tenable, to prevent the spread of the fire to other property and confine the fire to the structure of origin 90% of the time.
- Contain wild-land fires, in as safe a manner as practical, to minimize the threat to life and property.
- Suppress all unwanted and/or illegal fires involving vehicles, trash, and other property, in as safe a manner as practical, to remove the threat to life and property.

Required Certification(s)

As a minimum, all members shall maintain a Basic Fire Fighter certification, by the Texas Commission on Fire Protection.

Actual Suppression Certifications

Basic – 102

Intermediate – 36

Advanced – 36

Master – 45

Accomplishments for 2007

- We conducted an 8-hour training class for ladder truck operations, vertical ventilation operations, large bore hand-line fire attack, and rapid intervention operations in commercial structures at Western Plaza.
- We conducted a 4-hour classroom lecture/discussion on lessons learned at Western Plaza class and operations at strip mall fires; including fire attack, ventilation, and forcible entry.
- We continue to develop and conduct an ongoing annual eight-hour formal training course for rule of thumb, high-rise flow requirements, and master streams. All courses included practical exercises.
- Company Officers continue to conduct their annual competency-based training during in-service continuing education training to include: ventilation principles, SCBA, power tools, respiratory protection, ladders, and friction loss calculations.
- We continue to develop and conduct an eight-hour formal evaluation of the competency-based skills trained during continuing education sessions.
- Began change out to new nozzle technologies capable of improving our initial gallons per minute per fire fighter. We are moving towards fixed flow and pressure adjustable pattern nozzles; replacing our older automatic nozzles.
- Continued work on revising existing SOGs, specifically car fires, rapid intervention, and high-rise.
- We began change-over to newer thermal imaging technology, moving from ISG K-90 to ISG K-1000 cameras.
- We placed in service Class B Foam trailer capable of flowing up to 500 gpm of AFFF for large spill fires.

Goals for 2008

- We continue to have an, “A” shift “Saturday Officers Training School” that will cover SOP’s, SOGs, strategy and tactics, personnel issues, and extensive “What if?” scenarios. This will probably expand to the other shifts this year.
- Continue to develop and implement competency based CE program.
- Emphasize emergency scene communications and accountability to include proficiency in attack sequence (2in, 2out) and support of fire attacks to include rapid intervention team capabilities.

- Emergency escape procedures to include SCBA proficiency and consumption capabilities, firefighter survival training, etc.
- Evaluate effectiveness of the CE program through continual evaluation of operational effectiveness, as well as company evaluations to include: SCBA, ladders, and hose evolutions.
- Above and below grade structural capabilities.
- Continue to conduct strategy and tactics practical exercises for company officers. This would include scenarios from basic residential to commercial and high-rise. Scenarios would use models and computer generated fire situations.
- Continue to coordinate and complete repair and testing of department hose and nozzles.
- Continue to coordinate and complete repair and testing of department ground ladders.
- Conduct extensive live fire training with all of our crews including strategy and tactics for residential, commercial, high-rise, and below grade fires.
- Conduct extensive training using our new nozzle and hose systems.
- Become proficient in use of RIT system for fire fighter rescue by conducting training exercises, concentrating on commercial building searches, and hose layouts, etc.
- Conduct TIC (thermal imaging camera) training during fireground training situations.

EMERGENCY MEDICAL SERVICES



The Amarillo Fire Department responds to all life threatening emergencies in the City of Amarillo. The members responded to 8,895 Emergency Medical calls during 2007. The AFD average over 24 medical responses per day in 2007. This was a 10.4% increase over the number of responses in 2006. Emergency medical responses represented 64.4% of total responses in 2007. The Emergency Medical Program supports and coordinates the first responder capability of the department. District Chief Greg Mayes is the program manager and is tactically supported by the members at the Central Fire Station, who are led by EMS Coordinator Captain Dennis Eaves.

Performance Target(s)

Deliver, as a minimum, one engine/ ladder company in accordance with the targeted emergency response criteria identified at a first responder level to life threatening emergencies under the medical control of a designated Medical Director following established protocols within 6 minutes, 90% of the time.

Required Certification(s)

All members shall maintain an EMT-B certification or higher. An exception has been made for one Driver working at the airport who does not have patient contact and the 2 ECAs currently employed by the AFD. EMT-B certification is one of the current prerequisites for employment with the Amarillo Fire Department. Certifications are with the Texas Department of State Health Service.

Actual EMS Certifications

ECA – 1
EMT-B – 217
EMT-I – 3
EMT-P – 7

Accomplishments

- Continued an E.M.T. re-certification testing program to assure members competency.
- Company Officers conducted 26 hours of competency-based training during in-service continuing education training for their crews that included; Patient Handling and Patient Assessment, Traumatic Injuries, Ethics and Legal Issues, Pharmacology and Environmental Emergencies. The lesson plans incorporated protocols, skill sheets and power point presentations when applicable.
- Conducted 4 hours of formal classroom studies for all members of the Department.
- Placed new Zoll Automatic External Defibrillators (AEDs) in service that were purchased in 2006 and delivered in January of 2007.
- Utilized a comprehensive AED program to achieve maximum survivability for patients in cardiac arrest. The AEDs were used 79 times and allowed 20 of those patients to be shocked. Of the 20 patients shocked in the field, 6 of them converted to a survivable heart rhythm. Use of the AEDs and/or CPR resulted in 18 viable patients being delivered to area hospitals.
- Reviewed 100% of the Emergency Medical responses that required use of an AED for quality assurance and proficiency.
- Continued an EMS fanny pack policy for Personal Protective Equipment.
- Arrived on scene at Medical Emergency responses within 6 minutes 88.61% of the time.
- Worked in committee with several city departments to research and purchase 45 AEDs to be used in various buildings throughout the city.
- Facilitated and assisted in training multiple CPR/AED classes for City of Amarillo employees.

Goals

- Continue the competency-based CE program for all suppression personnel through the Texas Department of State Health Service.
- Continue the EMT re-certification testing program to insure competency.
- Maintain protocols manual and incorporate protocols into the CE program.
- Continue the exposure control program and evaluate for compliance to include potential WMD threats.
- Conduct 8 hours of formal competency-based training classes for all members that include AED use.
- Review all AED calls and evaluate proficiency of crews.

RESCUE



The Rescue program supports and coordinates the rescue capabilities of the Amarillo Fire Department, at the awareness level for engine/ladder companies, as well as with a Technical Rescue Team capable of more specialized rescues. The Rescue program provides the capability to remove trapped or lost occupants from life threatening situations. The Fire Department as a whole responded to 8,962 E.M.S. calls of which 1,749 calls were reported vehicle accidents. The number of vehicle accidents that required patients to be extricated from vehicles was 68. There were also 18 other types of rescues. These included rescues from anything from elevators, machinery, buildings, trenches, to water rescues. All of these figures are independent of search and rescue operations at fires. Those rescues are listed as fire suppression activities.

District Fire Chief Marvin Ray is the program manager and is tactically supported by Captains Sam Baucom, Steve Barrera, Louie Black, and Mark Ward, as well as Lts. Joe Ward, Darrell Johnson, Mark Hanke, Wes Hall and M.D. Kelley.

Performance Targets

- Each engine/ladder company shall, within 5 minutes, 90% of the time, initiate, support, and conduct confined space, vehicle, water, building collapse, trench, and rope rescues in as safe a manner as practical and at an Awareness level as identified under National Fire Protection Association, (N.F.P.A.) 1670.

- Each engine/ladder company shall begin vehicle extrications in as safe a manner as practical to provide emergency medical care and rescue of occupants within 5 minutes, 90% of the time.
- A Technical Rescue Team capability consisting of 2 engines, one ladder, a special response vehicle, and a Command vehicle with a total of 13 firefighters shall, within 12 minutes, 90% of the time, initiate and conduct tactical rescues involving rope rescue at a Technician level as identified by N.F.P.A. 1670.
- A Technical Rescue Team capability consisting of 2 engines, one ladder, a special response vehicle, and a Command vehicle with a total of 13 firefighters shall, within 12 minutes, 90% of the time, initiate and conduct tactical rescues involving structural collapse, trench collapse, and water rescue at an Operations level as identified by N.F.P.A. 1670.
- Each division can support infrared search capability within 5 minutes, 90% of the time.

REQUIRED CERTIFICATIONS

No agency certifications required basic firefighters credentialing; however, all members should meet the training standards for an Awareness level in Confined Space, Rope, Trench, Collapse, and Swift Water Rescue as defined in N.F.P.A. 1670.

ACCOMPLISHMENTS

- Developed and implemented lesson plans that conform to N.F.P.A. 1670 so the Technical Rescue Team on Tactical Wednesday can in-house document classes that enable certification of training through Amarillo College in the six disciplines of rescue.
- Developed and conducted Vehicle Extrication Training classes Department wide at Technician Level.
- Completed 14 hours per member of informal Rescue Training Department wide. Included was: Awareness Level - Confined Space Training.
Awareness Level - Responding to Water Incidents
Review Vehicle Extrication Articles
Review Res-Q-Jacks Operations
- The Technical Rescue Team conducted one 8-hour tactical training course per shift to enhance proficiency in Technical Water Rescue and Support for APD's Dive Team Operations and Swift Water Entering the Water.
- The Technical Rescue Team completed an 8-hr. class per shift on Awareness Machinery Training.
- The Technical Rescue Team completed an 8-hr. class per shift on Technical Trench Rescue.

- The Technical Rescue Team completed a total of 24-hrs per shift on Technical Structural Collapse Training.
- Performed a 4-hr. Rescue Evaluation of each member on the Technical Rescue Team.

GOALS

- Develop and implement a competency-based Continuing Education program for the Awareness, Operational, and Technician level personnel as well as the Rescue Team personnel.
- Complete 8-hrs of comprehensive Vehicle Extrication Training per AFD Member.
- In association with the Pampa Fire Department, film, edit and produce a Vehicle Extrication Training video.

HAZARDOUS MATERIALS



The Amarillo Fire Department Hazardous Materials Program is tasked with the development, implementation and coordination of all hazardous materials training, and emergency response for the City of Amarillo and surrounding areas. The Hazardous Materials Team consists of twenty-five State of Texas certified Hazardous Material Technicians. An additional ninety-nine Technician level and eighty seven Operations level state certified engine/ladder company Firefighters compliment the response capabilities of the Amarillo Fire Department. District Fire Chief Charles Ledford serves as the Hazardous Materials Team Program Manager and is tactically supported by Captains Kevin Brown and Keith Upchurch in concert with Lieutenants, Mike Goodson, Jerome Drerup, Greg Herndon, and Raymond Craddock.

Required Certifications

All members of the Amarillo Fire Department Hazardous Materials Team meet the training standards for the Hazardous Materials Operations level as defined in NFPA 472. In addition, Special Response Team members are or are working towards State of Texas Technician level certification.

Current Amarillo Fire Department Hazardous Materials Credentials:

Texas Commission on Fire Protection,
124 State of Texas Technician level responders
87 State of Texas Operation level responders
40 Weapons of Mass Destruction Technician level Responders

Performance Goals

- A Special Response Team capability consisting of one engine company dedicated to hazardous materials response, one ladder or additional engine company as

determined by Amarillo Fire Dispatch personnel, the Amarillo Fire Department Hazmat Special Response Unit, and a Command Unit for operational scene control will initiate technician level operations as identified in NFPA 472.

- Each engine/ladder company will be trained to support hazmat operations as deemed appropriate by the on scene Commander. Each engine/ladder company will be given familiarization training in hazmat operations as well as on the equipment needed to safely and effectively function in a hazardous materials environment.
- The Hazardous Materials Team will continue to seek out all educational opportunities within budgetary constraints, including specialized training in Weapons of Mass Destruction (chemical, radiological, biological and explosives recognition and management).
- The Amarillo Fire Department Hazardous Materials Team will take advantage of every opportunity to participate in joint training exercises with area hazmat teams in order to create a coordinated regional effort to better manage the hazardous materials problems that may arise.
- The Amarillo Fire Department Hazardous Materials Team fosters a multi discipline approach in the management of hazardous materials incidents to include Law Enforcement, Environmental Health, Industrial Waste, The Department of Energy, Emergency Management, various State and Federal agencies, area industries, as well as an extensive medical community.

Accomplishments

- Company Officers working with the Hazardous Materials Team have conducted one thousand plus departmental wide hours yearly in structured literary and competency-based hazmat training as a part of on going in-service continuing education, to include Fixed Facility Contingency Planning, Reception Center Procedures, Response to Railroad Emergencies, Hazardous Materials Incident Management, Weapons of Mass Destruction Mitigation Procedures, and Materials Safety Data Sheet familiarization.
- The Special Response Team works to take advantage of the newest technology to aid in hazmat mitigation as well as improving the safety of all involved to include updated reference materials for expanded research options, GPS to pin point incident position to better predict the hazards associated with plume dispersion. Computer programs such as the Cameo, Aloha programs are in use to predict chemical dispersion direction and speed and will benefit fixed facility preplanning.
- Hydrogen Cyanide monitors have been added to Fire Command Units One and Two to be used before fire overhaul operations to ensure safe working atmospheres.
- All Hazmat SOGs are continually reviewed to ensure correct and up to date information is available to first responders.

-
- The Amarillo Fire Department Hazmat Team continues to receive specialized training to include training by the Amarillo Special Response Team Bomb Squad to better prepare for events explosive in nature.
- The Amarillo Fire Department has actively participated in available Department of Justice programs “to include Response to Suicide Bombers” that were designed to maximize response readiness.
- The Amarillo Fire Department Hazardous Materials Team participates on an annual basis in structured exercises designed to strengthen homeland defense as well as to evaluate the capabilities and the operational readiness of the Special Response Team. The exercises are designed to provide realistic and challenging scenarios that mirror situations that are likely to be encountered.
- The Amarillo Fire Department in concert with the Hazardous Materials Team have prepared to provide specialized mass casualty decontamination of First Responders and potential victims of contamination from radiological, chemical, and biological incidents. The Hazmat Team has trained with federal agencies such as Pantex for radiological decon and the United States Post Office for a possible biological anthrax incident.
-

Hazardous Materials Response Team Statement

The Amarillo Fire Dept. Hazardous Material Response Team responds to incidents that present unique and challenging hazards. The Amarillo Fire Departments Hazardous Materials Special Response Unit is equipped to support responders for extended periods of time and to provide communications, as well as essential equipment in response to local and regional hazardous materials emergencies.

PRE-EMERGENCY PLANNING



The Pre-emergency Planning program supports and directs the preparedness of the dept.'s emergency response, as well as contingency planning within all operational areas of the department. This integral program takes a visionary approach to our service delivery by assuring adequate logistical support, such as adequate water supplies, in addition to providing pro-active emergency plans that should be trained prior to actual emergencies. District Chief Jim Henson is the program manager and is tactically supported by Captain Kurt Ecker, and Lieutenant Eugene Lofgren.

Performance Target(s)

- Develop a fire flow strategic plan with water distribution to include target areas with inadequate fire flows, formulate water flow by district and by target hazard, and coordinate needs with water distribution.
- Continue utilization of pre-emption technology with the traffic-engineering Department's new GPS traffic system extended into the downtown traffic system.
- Train the Amarillo Emergency Response plan
- Develop preplan programs to include: Identify, design, and provide critical pre-emergency data to engines within 30 seconds, update the preplan survey process, and identify, design, and provide preplan data to the IC within 5 minutes of inception of incident.

- Establish a program for continuous updating of Plug maps
- Continue to develop contingencies plans for all critical functions and train company officers at least 3 times annually.
- Review hydrant maintenance program.
- All target hazards shall be identified and pre-fire planned every three years.

Accomplishments

- Identified, evaluated and purchased new technology GPS preemption systems for the 24 most response restrictive intersections.
- Updated ISO documentation and prepared for possible 2008 ISO inspection.
- Crews tested 3,820 city and private fire hydrants and ISO flow tested 170 water main locations.
- Crews completed 2 fire drills at each school.
- Incorporated new satellite and aerial photography into preplans program. Started converting older preplans into newer format.
- Updated water main and hydrant map.

Goals

- Have each officer (except swing officers) complete average of ten preplans per year.
- Continue assisting Water Distribution dept. in replacing top ten poorest water distribution lines at priority target hazards list.
- Develop the new GPS preemption system and prepare for the next series of intersection controls adapted to the downtown traffic system.
- Continue to train the Amarillo Emergency response plan and one target hazard preplan at each group of officer meetings.
- Place completed preplans, apartment books, resource lists and plug books on command vehicle laptops. Have hard copy preplan and hydrant books in each vehicle. Train command officers to be able to use laptops.
- Assist in the completion and training of the state mandated city evacuation plan.
- Develop program for converting City's paper blueprints into digital formats.
- Improve the appearance of the city's hydrants.

- Prepare to move from the Fire Department hydrant mapping system to the City's GIS system by collecting each Fire Hydrant's GPS coordinates.

Aircraft Rescue and Firefighting



This report will help others understand the Program's mission and accomplishments of the previous year. We are proud of the service we provide and hope the training we do to get ready for a significant event never has to be utilized. If an event does occur on Rick Husband Amarillo International airport, WE WILL BE READY. The ARFF program supports and coordinates the aircraft fire fighting and rescue capability of the Amarillo Fire Department. The ARFF members must comply with the regulations and standards administered by the Federal Aviation administration.

The ARFF Program is based at Fire Station #10. The Program is administered by District Chief Monty Owens. He is supported by three 24 Hour shifts comprised of:

	A-shift	B-shift	C-shift
Captains	Tracy James	Mike Cummings	Bill Nolan
Lieutenants	Jim Hart	Barry Robinson	Mike Kelley
Drivers	Mike Hunter	Richard Thompson	Alan Teague
	Rusty Boman	Eric Swires	Johnny Saunders
	Dave Legrand	Doug Cooprider	Will Klusmeyer
Firefighters	J.B. Andrews	Lonnie Hollabaugh	Steve Williams
	Dale Alvarado	Chuck Straus	William Banks

Fire stations #6 (19th and Fairfield) and #7 (Amarillo Blvd. And Grand) make up the rest of the ARFF Program.

Station 6	1 Engine Company	1 Officer, 1 Driver, 2 Firefighters
Station 7	1 Engine Company 1 Ladder Company	1 Officer, 1 Driver, 2 Firefighters 1 Officer, 1 Driver, 2 Firefighters

The ARFF program is comprised of mostly experienced Firefighters and Officers. *All* personnel stationed at Fire Station 10 have at least 10 years of service. It is this unique amount of experience that makes this program so proficient.

Performance Target(s)

- Rick Husband Amarillo International Airport normally operates at an ARFF index B level in accordance with Federal Aviation Regulations, Part 139.
- The Amarillo Fire Department will respond to each emergency, for which procedures have been established in the Airport Emergency Plan, during periods of air carrier operations and will demonstrate compliance with response requirements when requested by the FAA. Within 3 minutes from the time of alarm, at least one required vehicle can reach the midpoint of the farthest runway serving air carriers from it's assigned post, or reach any specified point of comparable distance on the movement area which is available to air carriers, and begin application of foam or dry chemical.
- An initial alarm assignment consisting of two ARFF trucks, three Engine companies and two Command Vehicles with 16 fire fighters, staged in 15 minutes (90%) of the time.
- Support the new training field by providing back-up crews for training scenarios.
- Pass an annual inspection administered by the FAA. The inspection is comprised of Emergency Trial Runs with ARFF apparatus, Competency exams, and Practical tests.
- Provide records of training, foam testing, and ARFF equipment location.
- Conduct annual Emergency Plan Scenario. In June 2007 a full-scale exercise was conducted.
- Maintain the Rehab and Mass Casualty resources for the Amarillo Fire Department.

Accomplishments

- Developed and conducted two-eight hour formal training courses that included live fire burns designed to meet FAA requirements.
- Company Officers conducted competency-based training during in-service continuing education to include the eleven subject areas in ARFF required to meet the FAA guidelines, as well as the Texas Commission standards on practical skills.
- Satisfied the FAA requirements under Part 139 during the annual FAA inspection. This includes FAA mandated training requirements for training hours, response criteria, and live fire training.
- Support the hiring of trained personnel by assisting two ARFF Academies a year.
- Support the City of Amarillo by inspecting and filling the fire extinguishers for all departments.

Goals

- Develop and implement competency-based CE program for all ARFF personnel.
- Continue to revise the ARFF portion of the training manual and procedures to include tactical assignments. Emphasize Texas Fire Commission practical skills proficiency of all ARFF assigned personnel.
- Develop and utilize practical mock-ups and training aids to develop personnel. The Amarillo Fire department is fortunate to have the Live burn pit and the Boeing 727 for realistic training scenarios. We also have a stair truck that can reach any size airplane for off loading or boarding. In the future we plan on acquiring an interior fire simulator with engine fire and wheel fire emergencies to round out the capabilities of the ARFF firefighters. The Rick Husband / Amarillo International Airport has training mock-ups are rare at most airports of this size.
- Develop and implement an evaluation of the ARFF program independent of the FAA inspection to include practical capabilities.

Required Certification(s)

In addition to a Basic Fire Fighter certification, ARFF fire fighters are required to possess a Basic ARFF certification from the Texas Commission on Fire Protection.

Actual ARFF Certifications on the Amarillo Fire Department

Basic – 209

Training Division



2007 Certifications

The mission of the Amarillo Fire Department is to protect lives and property in our community by providing the highest quality of professional services. The primary objective of the Training program is to assure that all AFD members have the knowledge and skills necessary to safely and efficiently fulfill this mission.

The vast majority of the training the AFD does is in-house. District Chief Monty Owens directs the Training program under the supervision of Assistant Chief Rick Blandford. The Department has 88 personnel certified as Instructors by the Texas Fire Commission. This certification allows training to be conducted within the Fire Companies at their assigned Fire Stations. The Texas Fire Commission further certifies twenty-five of these instructors as Field Examiners.

The Department has 209 ARFF, 144 Haz-Mat, and 58 Driver/Operator certified personnel. In addition 10 of the Departments personnel are certified as Paramedics, 3 as EMT I, and 200 as EMT.

2007 Accomplishments

The Training program:

- Proctored and supported an entry test and four promotional exams.
- Conducted and facilitated two 80-hour new employee orientations.
- Evaluated and tested 17 probationary employees.
- Facilitated an 80-hour “Driver/Operator/Pumper” class.
- Facilitated eighteen 4-hour “EMS” classes.
- Facilitated a 48-hour “Instructor I” class.
- Assisted and facilitated nine 8-hour “Competency Based” evaluations for ARFF, Rescue, and HazMat.
- Assisted and facilitated eighteen 4-hour “EMS” evaluations.
- Facilitated eighteen 8-hour “Company” drills.
- Facilitated three 8-hour “Water Rescue” drills.
- Conducted eighteen 8-hour “Company” evaluations.
- Facilitated two 8-hour “New Dispatcher” classes.
- Facilitated one 4-hour “Tower Operator” class.
- Facilitated five 8-hour “Pantex Rescue” drills.
- Conducted one 8-hour “Driver Competency” drill.
- Facilitated two 8-hour “Owens Corning” drills.
- Facilitated three 8-hour “Xcel Tower” drills.
- Facilitated five 8-hour “Potter County” drills.
- Facilitated three 8-hour “Station 10 Tactical” classes.
- Conducted and facilitated seven “CPAT” exams.
- Facilitated one “Rules Committee” meeting.
- Conducted four three-hour “EMT” exams.
- Hosted a five-day “TxDOT Rodeo”.
- Facilitated six “Pit Fires”.
- Facilitated three 8-hour “Station 9 Tactical” classes.
- Facilitated three 8-hour “ARFF Tactical” classes.
- Facilitated four 8-hour “Dispatch” classes.
- Facilitated nine 8-hour “Tactical Rescue” classes.
- Facilitated nine 8-hour “Haz Mat I” classes.
- Facilitated two 8-hour “Rescue Trailer” classes.
- Facilitated three 8-hour “National Safety Stand Down” classes.
- Facilitated one 8-hour “APD Tactical” class.
- Facilitated one 8-hour “NIMS” class.
- Participated in one “WMD” tabletop.
- One hundred percent of shift personnel have completed IS-700 and IS-800 National Incident Management System.
- Coordinated with Amarillo Independent School District to set up the Cadet Program.
- Coordinated resources to support the Panhandle Firefighter’s and Fire Marshall’s Association Convention.
- Coordinated resources to support the State Firefighter’s and Fire Marshall’s Convention.

The training facility has improved the effectiveness and efficiency of our training program. The facility has also accommodated training by Potter County, Xcel Energy, Asarco, Pantex, APD, Owens Corning, TxDOT, and Randall County.

Goals

The Training program will:

- Continue to develop the competency based continuing education program.
- Continue the CBTs of Company Skills.
- Meet all NIMS required training.
- Continue to develop the SOPs and Evolutions for the Training Facility.
- Conduct seven additional HazMat drills, three additional Rescue drills, and three additional ARFF drills.
- Conduct live fire training exercises with area Fire Departments.
- Continue effectively and efficiently training and evaluating new employees.

2007 Additional

The Training program provides administrative assistance to the all-volunteer AFD Honor Guard. The Honor Guard represents the AFD during funeral services for past, current members of the Department.

The members of the Amarillo Fire Department Honor Guard are:

Captain Jeff Greenlee	Driver Dee LaGrone	FF DeWayne Huckaby
Captain Steve Barrera	Driver Jaime Lucero	FF Gregg Gattis
Lieutenant Jim Hart	Driver Phillip Thomas	FF Shaun Jones
Lieutenant Tony Robinson	Driver Chris Campbell	FF Brandon Stennett
Driver Rex Coleman	Driver Andy Carlson	FF Robert Lowery
Driver James Williams	FF Dale Alvarado	FF Michael Orr
Driver Larry Davis		

AMARILLO FIRE DEPARTMENT

Support Services

SUPPORT SERVICES

Support Services is responsible for the administration and support of all personnel, facilities, apparatus, and equipment on the department. Deputy Chief James Amerson is in charge of this effort and the budget process that supports these areas.

Support Services is further divided into several different programs. These programs are each managed by a supervisor that reports to Chief Amerson. The programs are:

- **Communications** – District Chief James Berry directed the communications program in 2007. .

This program includes the computer network between all fire facilities to enable information access and transfer. Additionally, various hardware and software systems, such as the Computer Aided Dispatch System (CAD), interact to collect, share and utilize data on fire department responses, training and operations. Information and data are utilized by or provided to supporting systems within the department and intergovernmental agencies, such as the 911-telephone system, state fire incident reporting collection agency, and the AFD facilities. The program also supports and provides first level PC support, implements new software solutions and modules and provides training for those systems. Carl Smith is now assisting Chief Berry as the IT liaison for Fire Department systems.

Communications also coordinates all other modes of communications including the radio systems and actual fire department response (Fire Dispatch). Lt. Roy Deupree is the Dispatch Supervisor and now assists Chief Berry in these areas.

- **Safety and Health** - The safety and wellness of our members is a leading focus for the department. Through the Department's Health and Safety Officer, the firefighters' physical and mental well-being is addressed. Insuring our personnel are healthy, fit, and have appropriate safety equipment improves the quality of life for each member and the effectiveness of our department. District Chief Bruce Tidmore heads the Safety program. Department personnel from Station 4, 6, 7, and 10, as well as the department's Safety Committee, support him. Captains at the above mentioned stations that deserve recognition for their effort in managing programs are; Capt. Robert Rhoton, Self Contained Breathing Apparatus (SCBA); Capt. Kerry Fahnert, Fitness; Capt. Mike Rhoads, Personal Protective Equipment (PPE); and Capt. Tracy James, Rehabilitation. Capt. Dennis Eaves also assists in the Health Program.

The AFD Safety Officer oversees seven programs within Safety:

1. Safety Officer (Health/Safety Officer and Incident Safety Officer)
 2. Safety Committee
 3. Self-Contained Breathing Apparatus
 4. Critical Incident Stress Management
 5. Personal Protective Equipment/Uniforms
 6. Rehabilitation
 7. Fitness Program
-
- **Fire Apparatus Maintenance**- Danny Dwight oversees the repair and maintenance of all the fire apparatus and fire equipment on the department. This program provides routine preventative maintenance and required annual tests of all engines and ladder companies as well as support vehicles. The program also makes recommendations for new equipment and assists with apparatus specifications, pre-construction conferences and final acceptance.

 - **Fire Prevention** - Fire Prevention is under the direction of Fire Marshal Terry McKinney. Fire Prevention supports our citizens in protecting their lives and property through fire code enforcement, arson and fire cause investigations, plans reviews for proposed construction projects, fire safety education, and community relations. Fire Prevention is also the point of release for fire incident information to the public and media.

 - **Support District Chief** – Marc Lusk is the Support District Chief. He writes specifications for fire apparatus with the assistance of the Apparatus Committee. He maintains the replacement schedule, supervises the purchase and construction of apparatus and other vehicles in the fleet. He also takes on “special projects” such as writing grants, coordinating our regional incident command team and developing a system to track fire equipment.

Communications

Major Goals

- Process emergency calls for assistance and initiate Fire Department unit response to emergency incidents according the following standards:
 - 75% of emergency calls received, processed and dispatched within 30 seconds
 - 90% of emergency calls received, processed and dispatched within 60 seconds.

Coincident with meeting the standards above, distribute available resources to obtain an estimated response time of 6-minutes or less within the city limits of Amarillo. This requires that units be dynamically relocated to cover for normal incidents, training, and multi-alarm fires.

- Maintain, and improve systems and procedures that will allow for the flow and retrieval of accurate, reliable and consistent information throughout the dept. This involves creating and submitting reports for fire incidents, fire training, fire equipment, and staffing. Personnel assigned to Communications also provide operational assistance and training for core fire dept. software applications (VisiCAD and RescueNet FireRMS).

Although not an identified Communications goal in 2006, the finalization of a funding mechanism and plan to remodel Central Fire Station necessitated moving Fire Dispatch to a new location. Permanently co-locating Fire and Police Dispatch centers in the basement of the Police Department building was determined to be the most desirable option and became a top priority for Communications personnel. Preparations for the move, which is now viewed as only the first step toward a combined, multi-agency PSAP and Dispatch Center, began in 2007 although the physical relocation of personnel and equipment was not completed until March 2008. As in past years, the “heavy lifting” for this and all Communications Program efforts were performed by a wide cross section of AFD personnel. AFD Firefighters continued their dual role as response personnel and as Dispatchers led by Lt. Randy Adams. In August 2007, Lt. Roy Deupree assumed the position of Dispatch Supervisor and continued the transition from Firefighter to Civilian staffing of Fire Dispatch.

The development of job descriptions and civilian oriented fire communications training, as well as the procedural modifications necessary to allow civilians to operate safely and efficiently in Fire Dispatch, consumed the majority of the time and resources available to the Communication program in 2007. This is especially true of the Dispatch Supervisors, whose numbers temporarily swelled to include Lts. Mays, Lucero and Hill. Under the supervision of these officers, the veteran Firefighters serving as dispatchers assumed the additional responsibilities of training and evaluating their civilian replacements. These personnel were instrumental in the relocation of AFD Dispatch and the staffing transition process. They are to be commended for their patience, cooperation and dedication during the transition period that continued into 2008. Firefighter Kevin McLeland and Driver

Greg Gattis made outstanding contributions by developing and conducting formal training on CAD software processes, departmental procedures and basic fire dispatch equipment operation.

Beginning in 2007, quality control of Incident reports was delegated to Lts. Goodson, Hill, Lucero, and Mays. This arrangement has improved the efficiency of the process and will enable more timely submission of the reports to the state authority. The success is due largely to their dedication to learning the process and consistently completing the daily assignment in a timely fashion.

Accomplishments 2007

- Met dispatch time based goals-
 - 81.01% of incidents were answered and dispatched within 30 seconds
 - 94.26% of incidents were answered and dispatched within 60 seconds
- Dispatched and coordinated the AFD response to 13,818 calls for service involving 19,543 unit responses to 12,774 documented incidents.
- Upgraded VisiCAD Computer Aided Dispatch Software. Implemented plan to stay within 1 major release of current.
- Delegated and assign various Communications duties and tasks to available personnel to expand departmental capabilities and provide back up for critical functions.
 - Incident Report Review
 - Database, Network and Computer Systems maintenance and support.
 - Direct Supervision of Dispatch Operations.
- Developed and conduct training for new dispatchers/call-takers with emphasis placed on educating and equipping them to work cooperatively. Training curriculum was modified from the previous form as necessary to compensate for baseline knowledge differences between certified Firefighters and civilian personnel focusing on three major areas:
 - Basic and Fire Telecommunicator curriculum (Certification available thru APCO)
 - AFD Dispatch and Response Procedures
 - VisiCAD Use.
- Began transition from certified firefighters to qualified, trained civilian personnel to staff AFD Dispatch. This objective was fully accomplished by the first quarter of 2008.
- Standardized unit-naming/radio I.D. terminology to allow CAD management of all available AFD suppression resources to reduce confusion in Mutual Aid situations.
- Participated in the National Fire Incident Reporting System by submitting all required data on incident response to the Texas Fire Marshall's Office. This goal

was not met until June 2007 although the objective remains to submit reports quarterly or monthly.

- Participated in NFPA Survey of Fire Departments for United States Fire Experience.
- Participated in the development and updating of AFD SOG's and SOP's including Fire Alarm Response Procedures
- Assembled and distributed the AFD Annual Report covering 2005 & 2006. This objective was not completed until the 2nd quarter of 2007.
- Provided dedicated server hardware for VisiCAD testing/training to reduce workload and improve maintenance on both Fire Department file server and VisiCAD testing/training environment.
- Upgraded 911 phone systems and equipment to the same level as the other PSAP's in our area.

2008 Goals

- Complete the transition from Firefighter to Civilian Dispatch personnel.
- Move Fire Dispatch PSAP into co-location with Police Dispatch.
- Hire and train personnel necessary to create Civilian Dispatch Supervisor positions to provide 24-hour supervision for Fire Dispatch operations and assist Dispatch Lt. in training, procedure development and CAD system maintenance and utilization.
- Begin development of processes and software acquisition necessary to enable the creation of a combined emergency dispatch center for the City of Amarillo and surrounding area.
- Upgrade the fire records system (Zoll FireRMS) to within 1 major version of latest general release. – This has been a goal of Communications for several years but was allowed to slide lower in priority as more pressing issues demanded the available resources and time. This should remain a top priority for 2008 to realize full product functionality.
- Maintain CAD system software upgrade schedule current to within 1 major version of the latest general release available from vendor.
- Evaluate available portable radios to recommend quantity, model and associated accessories to support fire department communications and allow for enhanced safety of operating personnel.
- Submit incident reports to State authority on a monthly basis. Submission to be made not later than 30 days after month end.
- Complete and submit the annual *NATIONAL FIRE PROTECTION ASSOCIATION SURVEY OF FIRE DEPARTMENTS FOR UNITED STATES FIRE EXPERIENCE* by February 28th, 2009.
- Compile statistical information related to AFD responses and assemble Annual Report by March 15th, 2009.
- Develop and administer training for NFIRS/FireRMS incident report completion based upon informational needs of the department and reporting authority.
- Increase Civilian Dispatcher positions from 10 to 12 in order to reduce overtime and improve Fire Dispatch capabilities and responder safety.
- Adjust the salaries of Fire Dispatch personnel to levels comparable with surrounding PSAPs.
- Develop and conduct ongoing report review training for existing and future Incident Review personnel.
- Secure funding for “My Fire Rules” software to enhance QA process for RMS reporting.

SAFETY AND HEALTH

The safety and wellness of our members is a leading focus for the department. Through the Department's Health and Safety Officer, the firefighters' physical and mental well-being is addressed. Insuring our personnel are healthy, fit, and have appropriate safety equipment improves the quality of life for each member and the effectiveness of our department. District Chief Bruce Tidmore heads the Safety program. Department personnel from Station 4, 6, 7, and 10, as well as the department's Safety Committee, support him. Captains at the above mentioned stations that deserve recognition for their effort in managing programs are; Capt. Robert Rhoton Self Contained Breathing Apparatus (SCBA); Capt. Kerry Fahnert, Fitness; Capt. Mike Rhoads, Personal Protective Equipment (PPE); and Capt. Tracy James, Rehabilitation. Capt. Dennis Eaves also assists in the Health Program. Captain Brent Clark has been very helpful this year in the Chaplain / CISM Program. Capt. Steve Barrera assists with the Honor Guard.

The AFD Safety Officer oversees eight programs within Safety:

8. Safety Officer (Health/Safety Officer and Incident Safety Officer)
9. Safety Committee
10. Self-Contained Breathing Apparatus
11. Critical Incident Stress Management
12. Personal Protective Equipment/Uniforms
13. Rehabilitation
14. Fitness Program
15. Honor Guard/Dress Uniforms

SAFETY OFFICER

2007 Accomplishments

- **Continued to identify training needs and solutions within each Safety Program.**
- Sent Captain Robert Rhoton and Firefighter Pete Garcia to Indianapolis, In. for Fire Department Chaplain training.
- Sent Lt. Ed Selman and Firefighter Todd Peden to Dallas for Family Matters Seminar.
- Sent Members of the Honor Guard to National Firefighter Memorial in Emmetsburg, Maryland.
- Sent Driver Andy Carlson and Firefighter David Kouba to Carrollton, Texas for Peer Fitness Training.
- Completed physicals for all line personnel in less than three months. This was accomplished due to having the physicals scheduled on weekends.
- On June 29th, July 2nd and 5th the A.F.D. participated the National Firefighter Stand Down for Safety.
- Conducted TB Tests on all personnel.
- Continued Hepatitis A and B inoculation program.
- Continued Flu vaccine program.
- Served on the City Accident Review Board.
- Started research for new Self Contained Breathing Apparatus.

2008 Goals

- Continue to identify training needs and solutions within each Safety Program.
- Review and revise safety SOG's as necessary.
- Continue Stand Down for Safety as an annual event.
- Send three personnel to the Fire-Rescue Conference in Dallas for education and to meet with vendors. These three personnel should include representatives from the SCBA, PPE and Fitness Programs.
- Train fourteen personnel as Peer Counselors.
- Continue providing physicals to all personnel. Change provider of physicals from Concentra to City Care and Amarillo Family Physicians. Pay firefighters over time to come in off duty for physicals
- Test all personnel for TB.
- Administer flu vaccine to personnel requesting one.
- Continue Hepatitis A and B inoculation program.
- Monitor employee's ability and release to return to work.
- Conduct Consumption Evaluation on all personnel.
- Continue to serve on the City Accident Review board.
- Serve on City Safety Steering Committee.
- Continue to chair Safety Committee
- Monitor apparatus safety issues.

SAFETY COMMITTEE

The Safety Committee meets three times a year and as otherwise necessary. The Safety Committee is made up of different ranks and represents all major AFD Programs. In 2007 the members were; District Chief Bruce Tidmore, Chair; Larry Davis, ARFF; Lt. Raymond Craddock, Haz-Mat; DeWayne Huckaby, Suppression; Greg Gattis, EMS, Keith Horton, Rescue; Lt. Roy Deupree, Communications; Kevin McLeland, Union Representative and David Kouba, Fitness. Members of the AFD can contact any Safety Committee Member about any safety concern they may have.

2007 Accomplishments

- Continued accident review, research and practical recommendations.
- Reviewed and revised AFD procedures to maximize personnel safety.
- The members of the Safety Committee also served on the SCBA Selection Committee

2008 Goals

- Continue accident review, research and practical recommendations.
- Review and revise AFD procedures to maximize personnel safety.

CHAPLAIN / PEER COUNSELING PROGRAM

2007 Accomplishments

- Sent Lt. Robert Rhoton and Firefighter Pete Garcia to Indianapolis, In. for Fire Department Chaplain training.

2008 Goals

- Get fourteen people trained as peer counselors.
- Have one additional person trained as a Fire Department Chaplain.
- Get Chaplains Advance Chaplain training.
- Develop SOG for Chaplain / Peer Counseling program.

SCBA (SELF CONTAINED BREATHING APPARATUS) PROGRAM

2007 Accomplishments

- Pulled Scott Respirators off of the grass units to address liability and safety concerns.
- Researched Millennium Masks at Station 10. Documented expiration dates of cartridges.
- Donated remaining Magnum SCBA's to the Texas Forest Service.
- Located SCBA bottles belonging to Amarillo College and marked them to help keep them out of our system.
- Set the SCBA program up on a contact basis for the purpose of ordering parts.
- Assisted Safety Chief with research for new SCBA's

2008 Goals

- Develop a form to better track SCBA repair and flow testing.
- Develop a training class to inform the stations the proper way of filling out SCBA check off forms.
- Get personnel at Station 4 trained as SCBA Repair Technicians.
- Budget for and order all new SCBA's for the entire department, including individual masks for each member.
- Train all members on use of new SCBA's
- Re-pipe the air compressor system at Station 4.
- Develop trimester classes for Station 4 personnel and back ups to provide continued training and to keep each shift on the same page.

PPE PROGRAM

2007 Accomplishments

- Introduced DRD (Drag Rescue Device) in PPE coats into service.
- Rewrote specs to reflect industry and certifying agencies (NFPA 1971 and NFPA 1851) changes.
- Field tested 2 different brands of PPE and made evaluations.
- Updated NFPA 1851 record keeping system.
- Completed required NFPA 1851 Advanced inspections on PPE.

2008 Goals

- Maintain adequate stock of up to date PPE for issue.
- Remove PPE coat and pant over 7 years old from service.
- Perform puddle test and light test on all active PPE coat and pant.
- Research and obtain station uniform trousers that meet NFPA standards and will be available in all sizes.
- Perform 1 routine inspection and 1 advanced inspection on all PPE.
- Perform field tests on leather boots and gloves.
- Train new #7 officers pertaining to NFPA 1851.

REHABILITATION PROGRAM

2007 Accomplishments

- Updated operational procedures manual as needed.
- Updated expenditure spreadsheet as needed for year 2007.
- Purchased and stocked supplies as needed to replenish expendable stock.
- Reorganized the water and Gatorade stocking system to improve access and use.
- Purchased new book covering Rehab procedures.
- Purchased two coffee urns to replace old equipment.
- Purchased a pair of sway bars to replace one that was lost somewhere in transit

2008 Goals

- Update operational procedures manual as needed.
- Update expenditure spreadsheet as needed for year 2008.
- Purchase and stock supplies as needed to replenish expendable stock
- Read and evaluate new Rehab book for information we might use to update our program.
- Communicate with crews after large incidents to evaluate efficiency and effectiveness of the Rehab trailer to identify areas of improvement

FITNESS PROGRAM

2007 Accomplishments

- Maintained Continuing Education Credit (CEC) program through American Council on Exercise (ACE) for 5 Peer Fitness Trainers (PFTs) and recertified 3 (Fahnert, Robinson, and Garcia).
- Coordinated with Fitness Equipment of Amarillo to perform maintenance on their products (Universals, Landice treadmills, and Sports Art ellipticals).
- Coordinated with contacts at stations with Spirit treadmills to ensure deck cleaning and lubrication each trimester.
- Performed fitness evaluation on all personnel.
- Provided annual Fitness Evaluation Report with general results and individuals received year-to-year copy of their personal trend.
- Purchased soft mats and stability balls for each station to assist in core training.
- Worked with city's Wellness Program Committee to support Heart Walk, Healthy Points Program, Lunch-and-Learn Programs, etc.
- Assisted in administering the CPAT program.

2008 Goals

- Certify two Fitness Program personnel as PFT's and work towards having at least three per shift. Some of these personnel will work in other stations to help expand influence and to maintain equipment.
- Conduct Fitness Evaluations on all personnel and complete Fitness Evaluation Report.
- Modify fitness evaluations to reflect changes made by the national program.
- Recertify Kimbrell and Havlik as PFT's through ACE CEC program.
- Maintain contacts at all stations to ensure necessary maintenance of weight machines, treadmills, ellipticals, and steppers.
- Budget and lobby for replacement equipment and new equipment to replace aging treadmills, ellipticals, and bikes.
- Work with city's Wellness Program Committee to support citywide health improvement and facilitate information flow in our department.

APPARATUS AND EQUIPMENT MAINTENANCE

The apparatus and equipment maintenance program maintains our ability to perform the mission of the Amarillo Fire Department by providing dependable repair, and a proactive preventative maintenance program for all fleet apparatus and equipment. The program is administered by Deputy Chief James Amerson and is assisted by our Fleet Administrator Danny Dwight, Mechanic Foreman Clayton Mayo, and two mechanics, Les Holman and Dustin Dorman. Long time Mechanic Foreman Mike Richardson retired this year.

Performance Targets

- Perform and document preventative maintenance on all support apparatus and equipment twice annually and after each extreme use.
- Perform and document brake performance and condition on all emergency equipment quarterly.
- Perform and document preventative maintenance on all small equipment twice annually.
- Pump test all apparatus annually and document results.
- Ladder trucks will be tested per UL standards bi-annually or after major repairs.
- Perform and document compliance with the new NFPA 1911 requirements.

Goals

- Plan and complete repairs on front line equipment with a minimum amount of down time.
- Continue advancing Emergency Vehicle Technician certifications of shop personnel. Each mechanic is to receive 60+ hours training this year.
- Have all Mechanics trained and certified to ASE and EVT Master Level in the next 4 years.
- Comply with the new NFPA 1911 requirements. This includes weight verifications, voltage tests, and proportion tests for each apparatus.
- Maintain Fire operational fleet of 55 fire and support vehicles that include:
 - Fifteen (15) Engines
 - Six (6) Ladders
 - Five (5) Staff Vehicles
 - Six (6) Grass Vehicles

- Six (6) Fire Marshall/PIO Vehicles
- Seven (7) Fire Support Vehicles
- One (1) Hazmat Vehicle
- One (1) Heavy Rescue Vehicle
- One (1) Decontamination Vehicle
- Seven (7) Support Trailers

Accomplishments

- Met all Performance Targets listed above. Had 20% improvement in vehicle down time.
- Two mechanics are certified as Emergency Vehicle Technicians (EVT) and the third is on schedule in pursuing his certification. They each hold the American Service Excellence (ASE) certification. These certifications are recognized and meet all National Fire Protection Association (NFPA) performance standards.
- Participated in new apparatus design, specifications, and construction.
- Prepared 4 new apparatus for service (equipment mounting, lettering, performance testing)
- Trained part-time employee to enter work orders and assist in shop

Fleet consists of:

	AFD #	Vehicle Description	Year	Equip. #
1	PIO	Ford Taurus	2001	6019
2	462	Ford Crown Victoria	2005	6534
3	463	Ford Expedition	2004	6405
4	465	Ford Crown Victoria	2006	6720
5	464	Ford Crown Victoria	2000	5815
6	466	Ford Crown Victoria	1998	5558
7	Unit 4	Chevrolet Suburban	1999	5722
8	Unit 3	Chevrolet Suburban	2001	6072
9	Unit 1	Ford Excursion	2004	6375
10	Unit 2	Chevrolet Suburban	2005	6531
11	Red 1	Chevrolet Suburban	2006	6788
12	Rehab 1	Wells Cargo Trailer	2002	6206
13	Mechanic 1	Ford 1 ton utility	2005	6586
14	Mechanic 2	Ford 1 ton utility	2001	6431
15	Rehab	Ford 1 ton utility	2001	6022
16	Mechanic 3	Chevrolet 1 ton utility	2006	6738
17	Fire Safety	Ford 1 ton dually	1998	6849

18	Messenger	Chevrolet 1 ton utility	2001	6021
19	HazMat	American LaFrance	2001	6200
20	Grass 5	International 1000 gal. tank	2000	5701
21	Grass 7	International 1000 gal. tank	2000	5702
22	Grass 6	Ford 600 gal. tank	1992	4574
23	Grass 3	International 800 gal. tank	1993	4752
24	Grass 4	Ford 600 gal. tank	1994	4820
25	Grass 8	Ford 800 gal. tank	1994	5017
26	Engine 1	Ferrara 1250 Gpm Pumper	2006	6910
27	Engine 3	Ferrara 1250 Gpm Pumper	2006	6911
28	Engine 4	Int. 1250 gpm Pumper	1995	5148
29	Engine 5	ALF 1250 gpm Pumper	2004	6626
30	Engine 6	ALF 1250 gpm Pumper	2004	6503
31	Engine 7	Am.LaF. 1250 gpm Pump	2000	5853
32	Engine 8	ALF 1250 gpm Pumper	2004	6627
33	Engine 9	ALF 1250 gpm Pumper	2004	6474
34	Engine 10	Int. 1250 gpm Pumper	1995	5054
35	Engine 14	Sutphen 1250Gpm Pumper	1991	4553
36	Engine 15	Int. 1250 Gpm Pumper	1996	5231
37	Engine 16	Int. 1250 Gpm Pumper	1992	4698
38	Engine 17	Spartan 1250 Gpm Pumper	1995	5016
39	Engine 18	Sutphen 1250 Gpm Pumper	1991	4553
40	Engine 19	Sutphen 1250 Gpm Pumper	1988	3891
41	Ladder 21	Sutphen 1500 gpm 75'	1988	3722
42	Ladder 2	ALF 1500 gpm 75'	2004	6501
43	Ladder 9	Sutphen 1500 gpm 65'	1990	5489
44	Ladder 1	Am.LaF. 1500 gpm 75'	1998	5488
45	Ladder 7	ALF 1500 gpm 75'	2004	6502
46	Ladder 22	Am.LaF. 1500 gpm 75'	1998	4346
47	Decon Tractor	Freightliner FL70	1997	6340
48	USAR Tractor	Freightliner FL80	2005	6708
49	Decon 1	Aramsco	2004	6458
50	Training Trailer	Changzhou Nanxiashu	2004	6459
51	Fire Safety	Scotty	1998	5654
52	Shop Trailer	Trailer Auto Sales	1997	5531
53	Foam Trailer	Trailer	1983	3229
54	Rescue Trailer	WW Trailer	1993	4830
55	Rescue 1	Hackney	2005	6732

FIRE PREVENTION

The Fire Prevention Bureau provides services to assist the public with the prevention of fires through fire safety education, inspection and investigation. One educational program is the “Fire Safety House”, a partnership with the Junior League of Amarillo where elementary age children are taught fire prevention and how to respond correctly in emergency situations. Fire Prevention conducts business inspections and construction plan reviews. As the law enforcement agency of the Fire Department, the bureau investigates fires and actively pursues the prosecution of arson and other crimes related to fires. Fire Marshal Terry McKinney supervises the activities of the bureau and is supported by Investigator/Inspectors Terry Bible, Paul Bourquin, Dennis Gwyn, Gary Jackson and Fire Inspector Tom Keeler. Fire Captain Bob Johnson currently serves as the Community Relations and Public Information Officer for the department.

Performance Targets

- Complete inspections of all “target hazards” annually.
- Complete one third of business inspections in a three-year goal.
- "Fire Safety House" program presented to 90% of the third graders enrolled in both public and private schools within the City of Amarillo.
- Permit applications processed within two business days.
- Review and process construction plans within five business days.
- Provide an accessible source for accurate information to our citizens utilizing the media and other available mediums concerning fire department activities in as timely a manner as practical.
- Investigate and determine fire cause in 75% of all incidents in which an investigator is requested.

Goals

- Complete investigation/inspection certification of all personnel assigned to Fire Prevention.
- Conduct fire inspections at all identified “target” or high hazard structures.
- Conduct inspections of facilities annually/bi-annually as required by other agencies for licensure.
- Conduct inspections in all legally operating businesses at a minimum of once every three years.

- Conduct inspections of schools, hotels/motels and major retail facilities during specific time frames.
- Implement work assignments maximizing all bureau personnel to successfully accomplish inspection program targets.
- Support the community with public education programs.
- Develop and implement a Smoke Detector marketing program utilizing fire apparatus, businesses and other tools.
- Develop and implement a juvenile fire setter program.
- Develop and implement competency-based minimum standard continuing education programs for personnel.
- Determine proficiency of all members at least annually within all areas.
- Write and implement program guidelines, goals, objectives and procedures for all Fire Prevention services.
- Review and process construction plans within five business days.
- Permit applications processed within two business days.
- Provide reliable release of information services.
- Investigate and determine fire cause in 75% of all incidents in which an investigator is requested.
- Be on scene when requested within 45 minutes.
- Implement Risk Watch Curriculum
- Update databases
- Develop and produce an annual report that outlines the goals, accomplishments, and statistics for Fire Prevention.

Accomplishments and Statistics

During 2007 fire inspections became an integral part of the beer/alcohol permit review process for businesses within the City of Amarillo. This change was necessary to prevent businesses with outstanding fire code violations from obtaining permits. Inspections of schools, hotels/motels and major retail facilities were conducted within specific time frames. Licensed premises such as nursing homes, hospitals and child-care facilities requiring inspections for licensure by another agency.

Fire Safety Education

	<u>2007</u>
• Programs	370
• Attendees	16,419
• Hazard Abatement Surveys	49
• Press Releases	65

Inspections

	<u>2007</u>
• Regular Inspections	1315
• Priority	516
• Re-inspections	246
• Licensing	206
• Complaints	26
• Fire Protection Systems	84
• Construction Final	102
• Beer/Alcohol	135

Plans

	<u>2007</u>
• Plans Reviewed	143

Plats

	<u>2007</u>
• Plats Reviewed	142

Permits Issued

	<u>2007</u>
• Fire protection systems	91
• Fireworks/Pyrotechnics	12
• Open burning	0
• Total	103

The following pages contain Fire Investigation Statistics for calendar years 2003 through 2007. There are two significant items in need of further consideration. First, the number of fires investigated decreased from the previous year. Second, the estimated dollar loss to property increased substantially over 2006.

The number of fires investigated decreased by approximately 19% in 2007. This was certainly an improvement when compared to the extraordinary year of 2006. When the most recent 5-years are examined we observe that the number of fire investigations trends upward with an overall increase of 33% for the period of 2003 - 2007.

The 2007 estimated dollar loss shows an increase of 69% over 2006. This estimate included six large-loss fires that accounted for \$8,650,000 of the total. The six fires were St. Mary's Church, Meridian Apartments, Horace Mann School, Khiva Hotel, Advo Company and a vehicle transport truck with luxury automobiles.

Historically, the numbers for intentionally set fires may rise and fall annually and 2007 numbers seem to continue that pattern of inconsistency.

The number of civilian deaths and injuries were both up for the year and the Meridian Apartment fire certainly contributed to that fact with 2 deaths and 8 injuries.

Further review and evaluation of multi-year statistics is certainly necessary to help determine if appropriate resources are being utilized to the most effective means, for the prevention of fires and the pursuit of fire criminals.

Amarillo Fire Department
Fire Marshal's Office
Fire Investigation Statistics 5 -Year Comparison

Year	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Fires Investigated	189	201	213	309	251
Estimated Loss	\$ 3,969,134	\$ 2,641,701	\$ 3,512,794	\$ 5,467,903	\$ 9,264,275
Accidental	62 (\$ 2,439,200)	61 (\$ 1,324,370)	60 (\$ 2,131,050)	98 (\$ 2,369,315)	77 (\$ 6,314,390)
Intentional	81 (\$ 1,045,839)	92 (\$ 445,480)	92 (\$ 584,021)	128 (\$ 1,041,457)	118 (\$1,173,717)
Undetermined	45 (\$ 484,095)	44 (\$ 761,851)	59 (\$ 741,223)	76 (\$ 2,057,131)	54 (\$ 1,776,168)
Other**	0	2 (\$ 100,000)	2 (\$ 56,500)	7 (\$0)	2 (\$ 0)
Unfounded	1 (\$ 0)	2 (\$ 0)	0	0	0 (\$ 0)
Civilian Fire Deaths/Serious Injuries					
Deaths	2	2	4	4	7
Serious Injuries	33	22	26	38	41
Intentionally Set Fires					
Felony Offenses	60	52	63	98	71
Misdemeanor Offenses	21	40	29	30	47
*Active Investigations	18 (22%)	16 (17%)	31 (34%)	53 (41%)	38 (32%)
*Cleared By Arrest	22 (27%)	16 (17%)	22 (24%)	22 (17%)	24 (20%)
*Exceptionally Cleared	2 (2%)	7 (8%)	11 (12%)	7 (6%)	8 (7%)
*Inactive	39 (48%)	53 (58%)	28 (30%)	46 (36%)	48 (41%)

Amarillo Fire Department
Fire Marshal's Office
Fire Investigation Statistics 5 -Year Comparison

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>
Persons Arrested in Cases CBA	35	23	31	25	32
Adult Felony Arrests	3	4	7	6	10
Adult Misdemeanor Arrests	4	7	9	6	14
Juvenile Felony Arrests	17	3	9	9	7
Juvenile Misdemeanor Arrests	11	9	6	4	1
Cases Exceptionally Cleared	2	7	11	8	8
Death of Offender	1	0	0	0	1
Prosecutor Declined	0	1	4	4	4
Juvenile Under 10 years old	1	3	3	4	3
Victim Refusal to Cooperate	0	3	4	0	0

Note: Percentages may not equal 100% due to rounding.

* -Active Investigations are investigations that were open at the end of the specified year. Cleared By Arrest is where a suspect(s) were placed in custody and a case filed with the appropriate court. Exceptionally Cleared means that the offender was identified but was not arrested or filed on due to certain circumstances. Inactive cases have no further leads to be followed-up on.

** - **Incidents where a fire was ruled accidental but was the result of a Fire Code violation or Amarillo PD initiated an Incident Report for a Fire Code violation or other non-fire offense and the Fire Marshal's Office was assigned the case.**

Support Officer

The Support Officer is a District Chief position at the Amarillo Fire Department. The person filling this position reports to the Deputy Chief of Emergency Response. The responsibilities of the Support Officer have been expanded, starting in June of 2008. The major responsibility of this position is to manage the non-salary portion of the AFD's budget.

In addition, the Support Officer is responsible for maintaining AFD facilities, developing specifications for and the purchasing of fire apparatus, and coordinating with other program managers to purchase equipment. The Fleet Supervisor in charge of the AFD's Fleet Maintenance Facility reports to the Support Officer.

Additional duties include special projects, such as grant writing, supporting the Incident Management Team as a Planning Section Chief, and teaching officer and chief officer development classes.

The Support Officers in 2007-2008 were District Chiefs Don Preston (October-June) and Marc Lusk (June-September.)

2008 Goals

- Budget
 - Manage 2008-2009 budget
 - Assist with 2009-2010 budget process/development
 - Coordinate with other AFD program managers to purchase equipment

- Facilities
 - Assist with moving Central Fire Station to temporary facilities
 - Support the remodeling of Central Fire Station
 - Support the building of new fire stations (8, 11, 12 are scheduled to be started during 2008-2009)
 - Manage ongoing building/facilities maintenance

- Apparatus
 - Purchase new fire apparatus due in Apparatus Replacement Schedule
 - Purchase equipment for new vehicles
 - Deploy new Ferrara engines, aerial, and wildland apparatus
 - Manage AFD Fleet Maintenance Facility
 - Train each AFD mechanic to full Emergency Vehicle Technician certification

- Provide training class for apparatus/driving using trained and qualified personnel
 - New Ferrara aerial apparatus operations
 - New Ferrara wildland apparatus operations
 - New driver/operator class for new/move-up drivers
 - Department-wide driver refresher course
- Grants
 - Spring – Write AFG grant
 - Summer – Write SAFER grant
 - Fall – Fire Safety and Prevention grant
 - If 2008 grant is awarded manage purchasing of equipment
- IMT
 - Work as Planning Section Chief for local Type 4 IMT
 - Shadow and deploy as Planning Section Chief for Texas Type 3 IMT
 - Sit on Texas Typed 3 IMT Credentialing Committee
 - Assist as course manager and instructor for IMT classes
 - Teach at PRPC Regional Response Symposium

2007 Accomplishments

- Transferred budgetary responsibilities from Deputy Chief of Emergency Response to District Chief of Support
- Formalized Apparatus Committee
- Managed purchase of three new fire engines
- Wrote specifications and managed bid purchase of new Ferrara 107' aerial apparatus
- Designed, wrote specifications, and purchased two new Ferrara wildland firefighting apparatus
- Wrote 2008 Assistance to Firefighters Grant
- Assisted with providing IMT training for City and Region
- Attended final year of Executive Fire Officer Program and wrote associated research paper

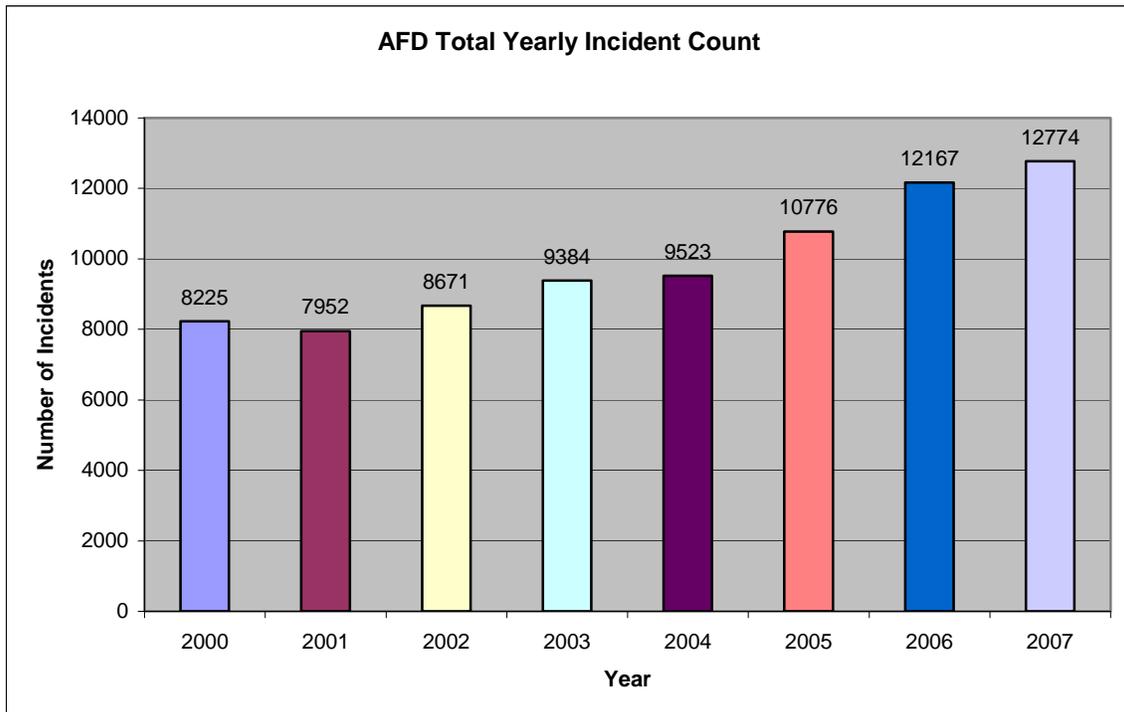
AMARILLO FIRE DEPARTMENT

Statistical Data

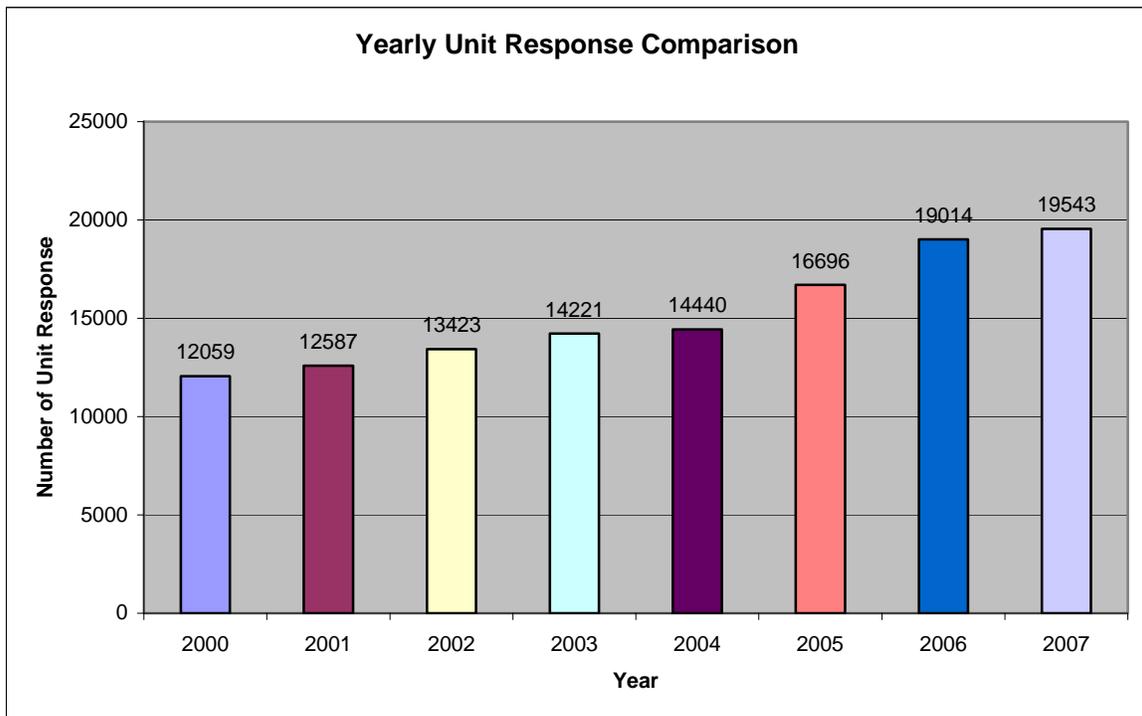
Total Incidents



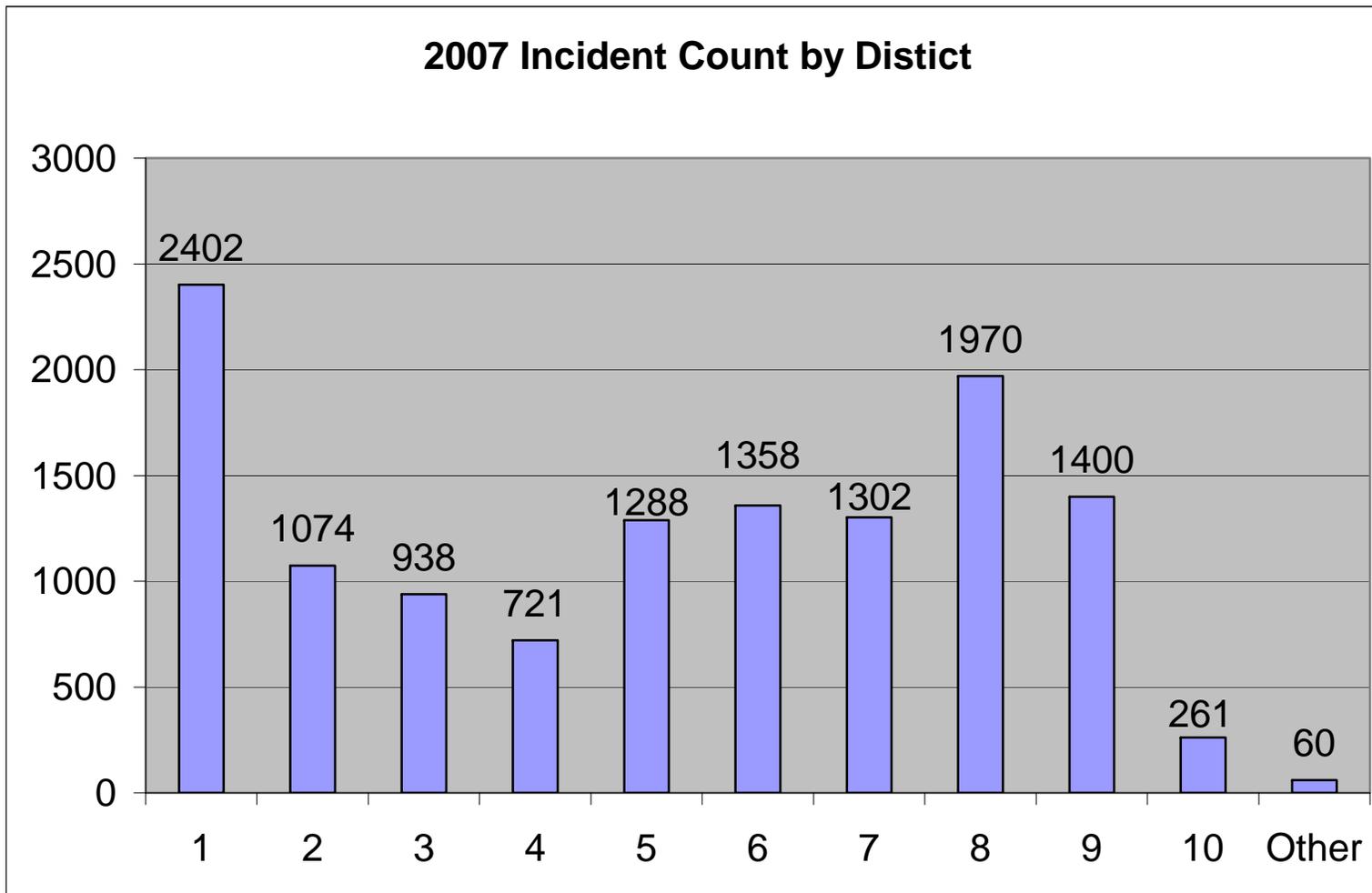
Since 2000, total call volume has increased by 55.3% with the most dramatic increases seen in 2005 and 2006.



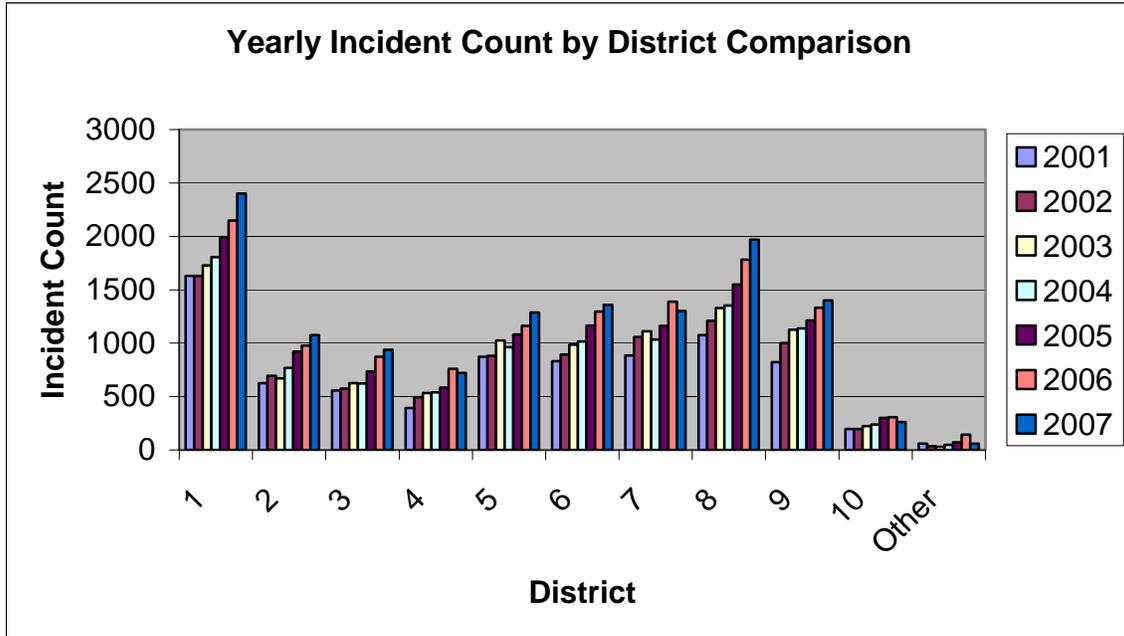
Total Unit Responses



Incidents by District

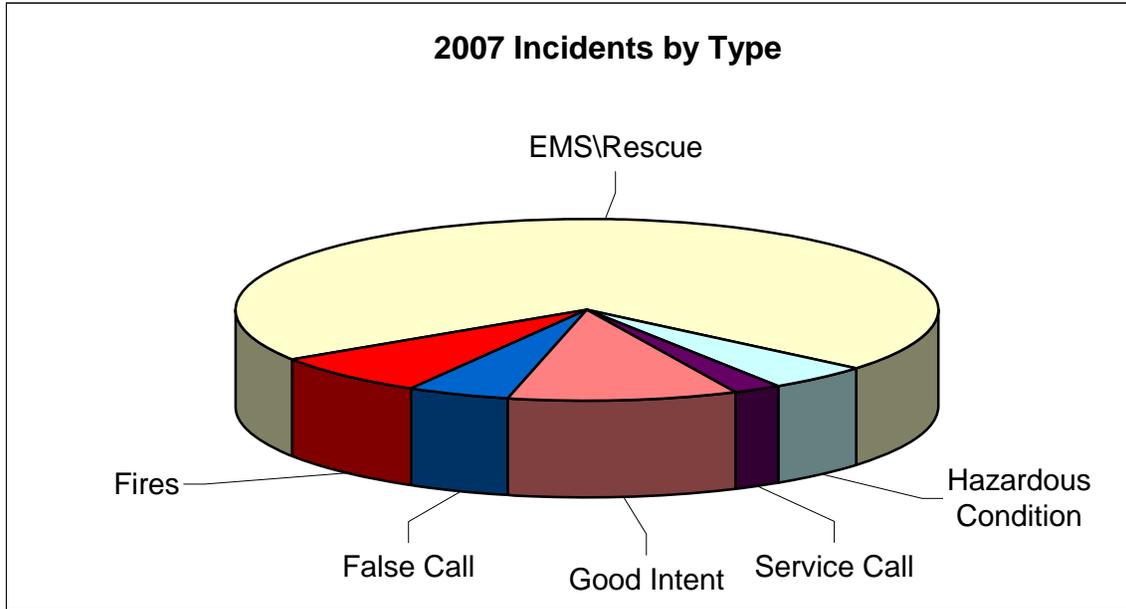


Incidents by District (cont'd)



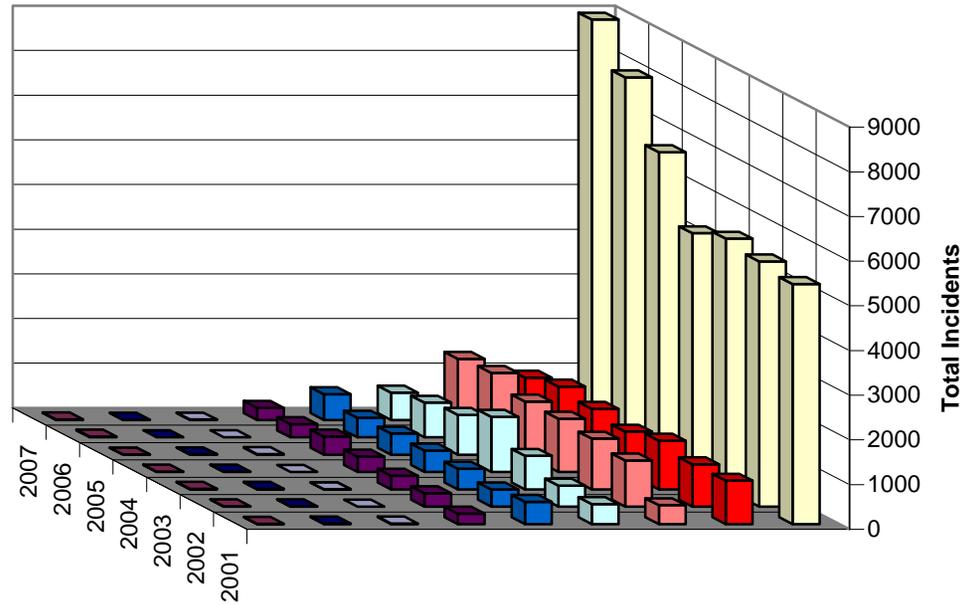
Calls per District	2001	2002	2003	2004	2005	2006	2007
1	1631	1629	1727	1806	1992	2148	2402
2	627	694	671	769	922	977	1074
3	558	576	627	622	736	872	938
4	393	495	532	538	583	760	721
5	872	882	1024	962	1082	1163	1288
6	831	893	985	1015	1165	1296	1358
7	886	1059	1112	1034	1161	1389	1302
8	1074	1210	1328	1354	1548	1782	1970
9	822	1000	1125	1137	1214	1332	1400
10	198	196	222	237	302	306	261
Other	60	37	31	49	71	142	60
Total	7952	8671	9384	9523	10776	12167	12774

Incidents by Type



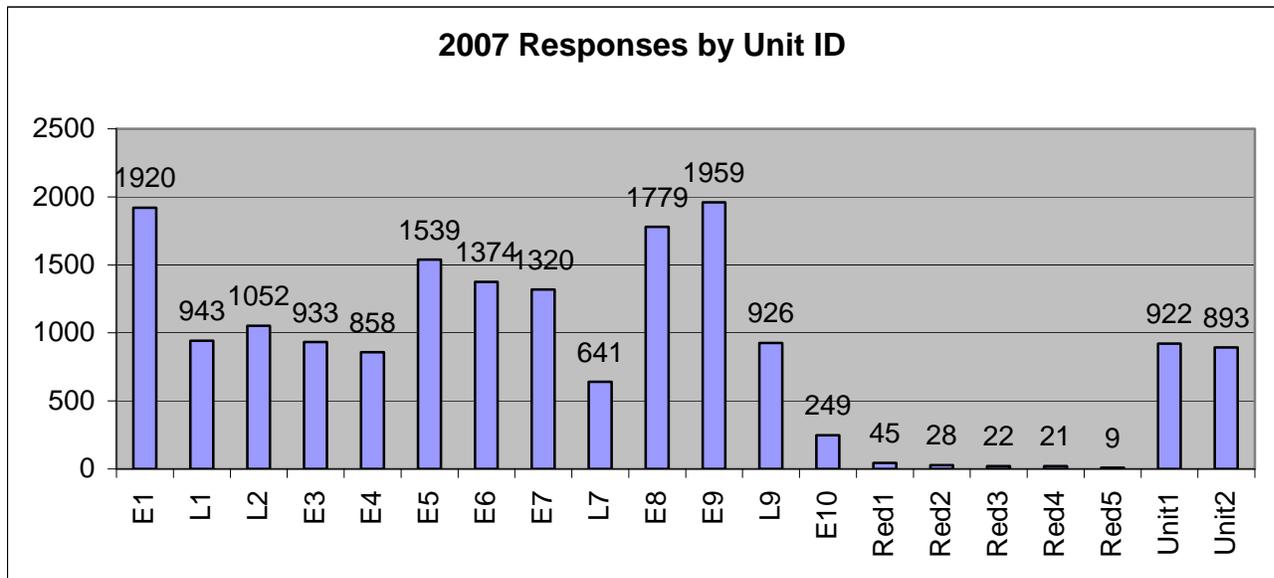
2007			
Count of Incident types	Count	Percentage of Calls	Avg Response Times
Fires	950	7.44%	04:46
Rupture/Explosion	14	0.11%	05:53
EMS\Rescue	8962	70.16%	04:23
Hazardous Condition	614	4.81%	05:05
Service Call	269	2.11%	04:44
Good Intent	1370	10.72%	04:55
False Call	579	4.53%	05:06
Severe Weather	10	0.08%	07:15
Other	6	0.05%	04:26
Incomplete or Invalid	0	0.00%	NA
Total	12774	100.00%	

Incident Type Trends



	2007	2006	2005	2004	2003	2002	2001
Rupture/Explosion	14	18	3	8	12	9	8
Other	6	2	10	9	11	11	10
Severe Weather	10	2	11	2	3	4	10
Service Call	269	295	405	344	306	301	234
False Call	579	439	473	481	461	386	495
Hazardous Condition	614	776	890	1236	751	475	450
Good Intent	1370	1445	1192	1194	1136	1038	423
Fires	950	1134	1024	904	1089	951	971
EMS\Rescue	8962	8056	6768	5345	5612	5491	5375

Responses by Unit ID



	2000	2001	2002	2003	2004	2005	2006	2007
Responses per Apparatus								
E1	1522	1658	1704	1847	1818	2044	1995	1920
L1	925	936	964	918	1009	1020	1145	943
L2	542	598	696	703	754	949	983	1052
E3	538	613	578	688	657	788	909	933
E4	503	499	614	624	649	718	902	858
E5	1066	1115	1082	1212	1217	1391	1504	1539
E6	951	909	970	1056	1096	1286	1409	1374
E7	1004	991	1179	1165	1152	1279	1508	1320
L7	562	498	601	592	556	601	707	641
E8	1172	1117	1209	1354	1354	1570	1735	1779
E9	1230	1383	1548	1622	1669	1891	2010	1959
L9	777	865	870	909	962	1057	1093	926
E10	223	193	218	222	236	291	323	249
Red1	39	27	35	37	33	70	64	45
Red2	44	36	33	43	43	67	42	28
Red3	50	36	33	39	44	64	47	22
Red4								21
Red5								9
Unit1	378	429	466	475	505	647	865	922
Unit2	248	382	389	428	458	616	801	893
Other	285	302	234	287	228	347	972	2109
Total Count of Response	12059	12587	13423	14221	14440	16696	19014	19542

Incident Types by District

2006 Incident Types	District											Totals
	1	2	3	4	5	6	7	8	9	10	Other	
Fire	218	56	65	87	111	136	147	153	75	17	69	1134
Rupture/Explosion	2	2	2	2	2	0	2	2	3	0	1	18
EMS \ Rescue	1451	626	585	513	739	860	959	1147	971	174	31	8056
Hazardous Condition \ Standby	87	56	64	41	116	99	71	113	66	62	1	776
Service Call	33	34	19	13	28	36	32	42	46	9	3	295
Good Intent Call	273	146	86	80	133	135	149	243	127	36	37	1445
False Call	84	56	50	24	34	30	29	80	44	8	0	439
Severe Weather	0	0	1	0	0	0	0	1	0	0	0	2
Other \ Invalid	0	1	0	0	0	0	0	1	0	0	0	2
Totals	2148	977	872	760	1163	1296	1389	1782	1332	306	142	12167

2007 Incident Types	District											Totals
	1	2	3	4	5	6	7	8	9	10	Other	
Fire	198	39	63	59	97	118	100	152	92	13	19	950
Rupture/Explosion	1	1	1	0	2	1	1	5	2	0	0	14
EMS \ Rescue	1685	719	678	539	919	957	983	1252	1056	154	20	8962
Hazardous Condition \ Standby	90	62	57	30	68	63	44	84	56	58	2	614
Service Call	38	17	16	24	33	32	27	48	26	7	1	269
Good Intent Call	279	146	77	57	122	122	122	279	128	21	17	1370
False Call	109	90	43	11	46	64	25	145	38	8	0	579
Severe Weather	2	0	3	0	0	1	0	2	1	0	1	10
Other \ Invalid	0	0	0	1	1	0	0	3	1	0	0	6
Totals	2402	1074	938	721	1288	1358	1302	1970	1400	261	60	12774

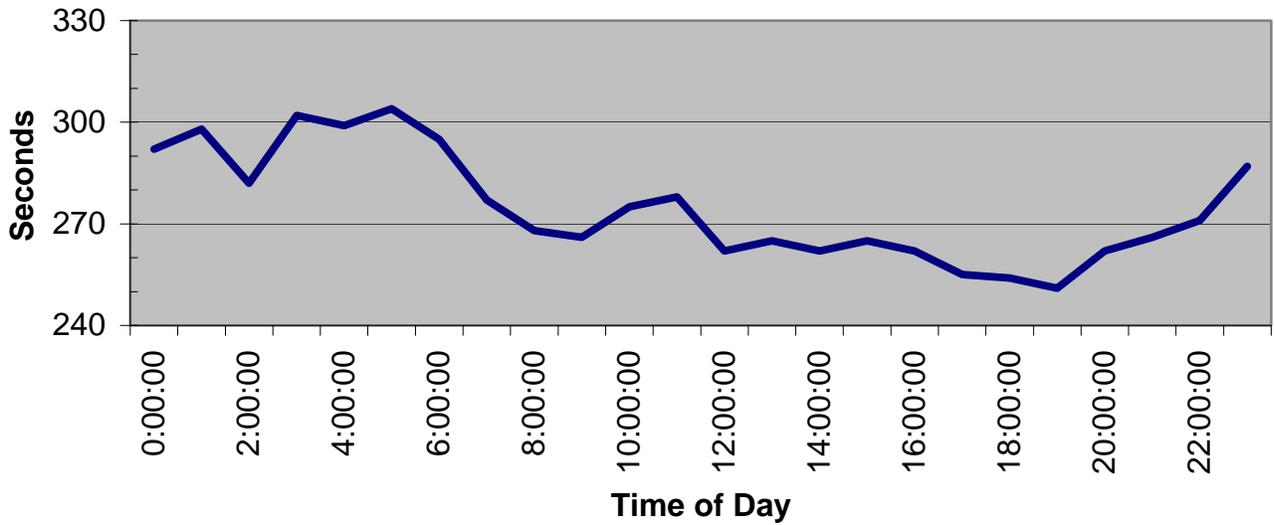
Average Response Time by Time of Day

Report Period: From 1/1/2007 To 12/31/2007

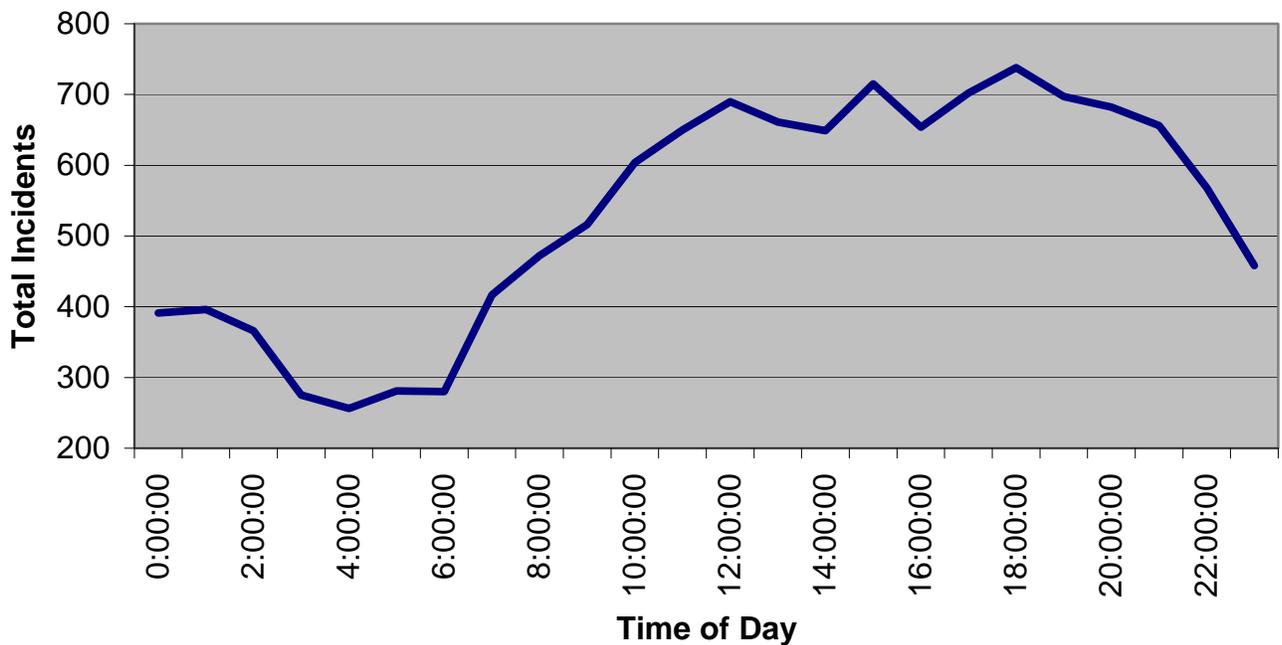
Time	Count	Count in Average	Average Response Time HHMMSS
00:00:00 to 00:59:59	391	333	00:04:52
01:00:00 to 01:59:59	396	328	00:04:58
02:00:00 to 02:59:59	366	295	00:04:42
03:00:00 to 03:59:59	275	224	00:05:02
04:00:00 to 04:59:59	256	223	00:04:59
05:00:00 to 05:59:59	281	234	00:05:04
06:00:00 to 06:59:59	280	227	00:04:55
07:00:00 to 07:59:59	417	350	00:04:37
08:00:00 to 08:59:59	472	406	00:04:28
09:00:00 to 09:59:59	516	430	00:04:26
10:00:00 to 10:59:59	604	515	00:04:35
11:00:00 to 11:59:59	650	551	00:04:38
12:00:00 to 12:59:59	690	602	00:04:22
13:00:00 to 13:59:59	661	556	00:04:25
14:00:00 to 14:59:59	649	549	00:04:22
15:00:00 to 15:59:59	715	616	00:04:25
16:00:00 to 16:59:59	654	575	00:04:22
17:00:00 to 17:59:59	702	628	00:04:15
18:00:00 to 18:59:59	738	661	00:04:14
19:00:00 to 19:59:59	697	605	00:04:11
20:00:00 to 20:59:59	682	590	00:04:22
21:00:00 to 21:59:59	656	567	00:04:26
22:00:00 to 22:59:59	568	500	00:04:31
23:00:00 to 23:59:59	458	393	00:04:47
Totals:	12,774	10,958	

Note: The incident count used in averages does not include the following:
Not completed incidents, Mutual Aid given, Other Aid Given, Cancelled in Route, Not priority, Fill-In Standby, No arrival and Invalid Dates/Times.

2007 Average Response Time by Time of Day



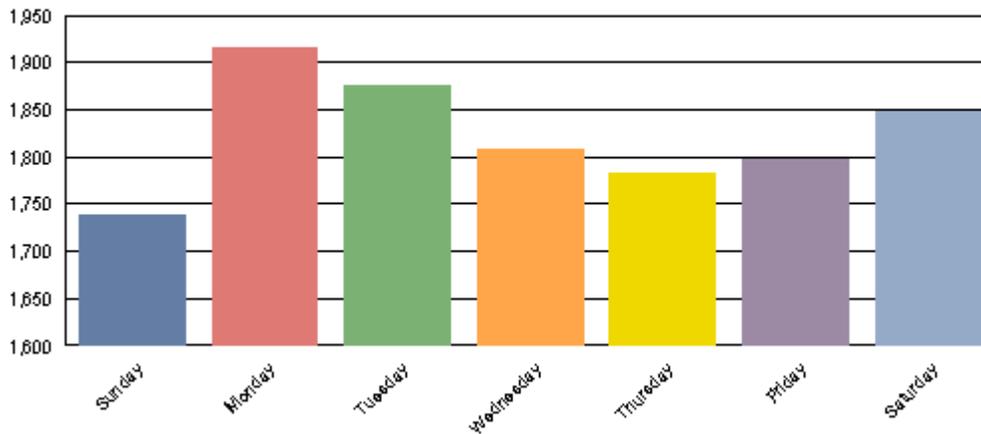
2007 Call Volume by Time of Day



Incidents by Day of Week

Date Range: From 1/1/2007 To 12/31/2007

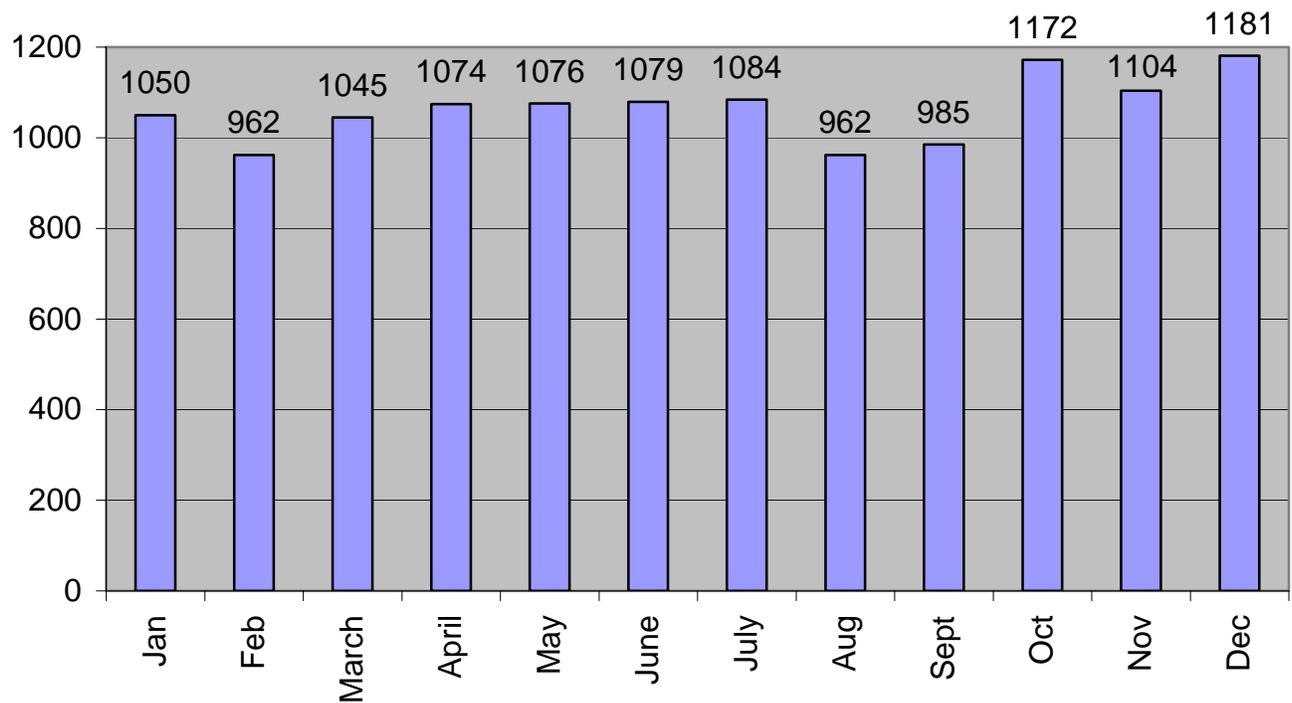
Day of the Week	Number of Incidents
Sunday	1,740
Monday	1,917
Tuesday	1,877
Wednesday	1,808
Thursday	1,784
Friday	1,799
Saturday	1,849
Total Incidents	12,774



Incidents by Month



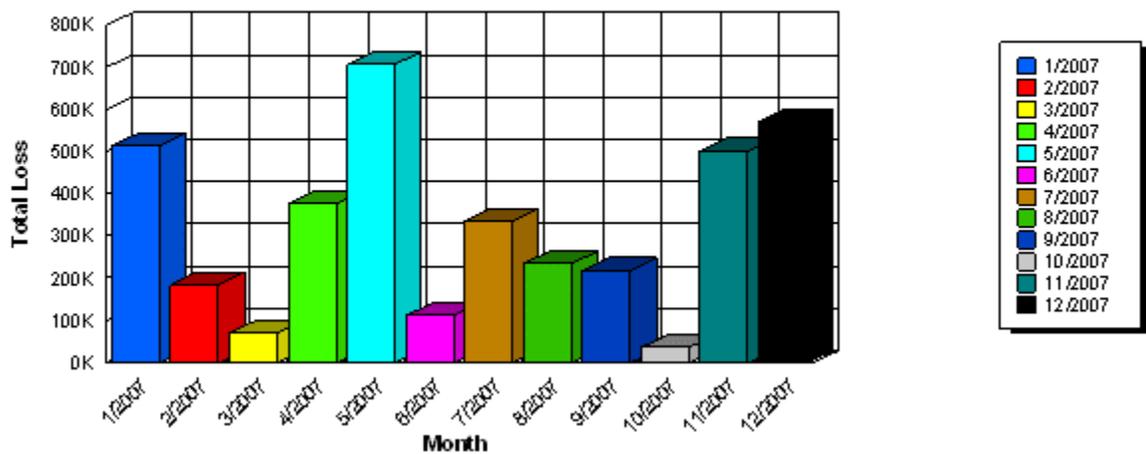
2007 Incidents Per Month



Residential Fire Loss by Month

Date Range: From 1/1/2007 To 12/31/2007

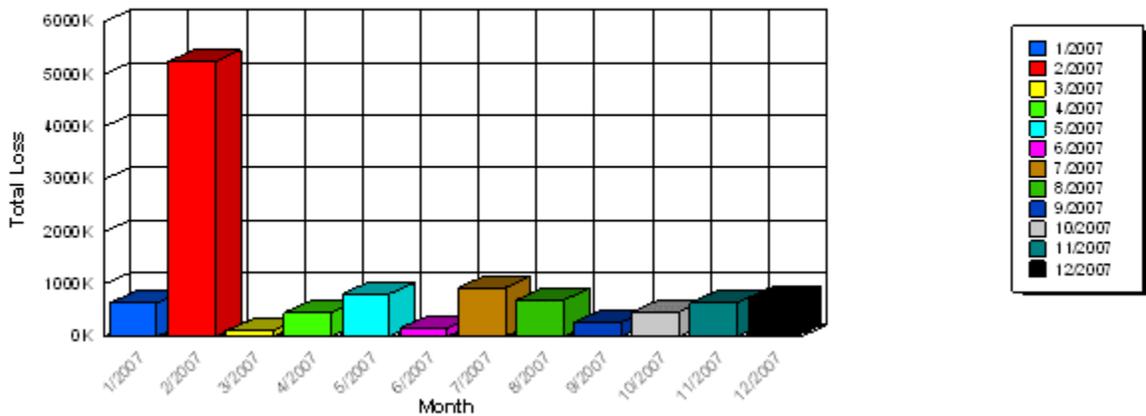
Month	Count of Fires With Loss	Total Loss	Total Value
1/2007	29	\$513,678.00	\$513,678.00
2/2007	17	\$185,633.00	\$185,633.00
3/2007	17	\$71,055.00	\$71,055.00
4/2007	14	\$377,685.00	\$377,685.00
5/2007	8	\$706,809.00	\$706,809.00
6/2007	16	\$112,001.00	\$112,001.00
7/2007	23	\$336,468.00	\$496,318.00
8/2007	18	\$235,214.00	\$235,214.00
9/2007	20	\$219,425.00	\$294,425.00
10/2007	14	\$36,892.00	\$36,892.00
11/2007	30	\$501,611.00	\$770,161.00
12/2007	19	\$571,533.00	\$1,120,783.00



Total Fire Loss by Month

Report Period: From 1/1/2007 To 12/31/2007

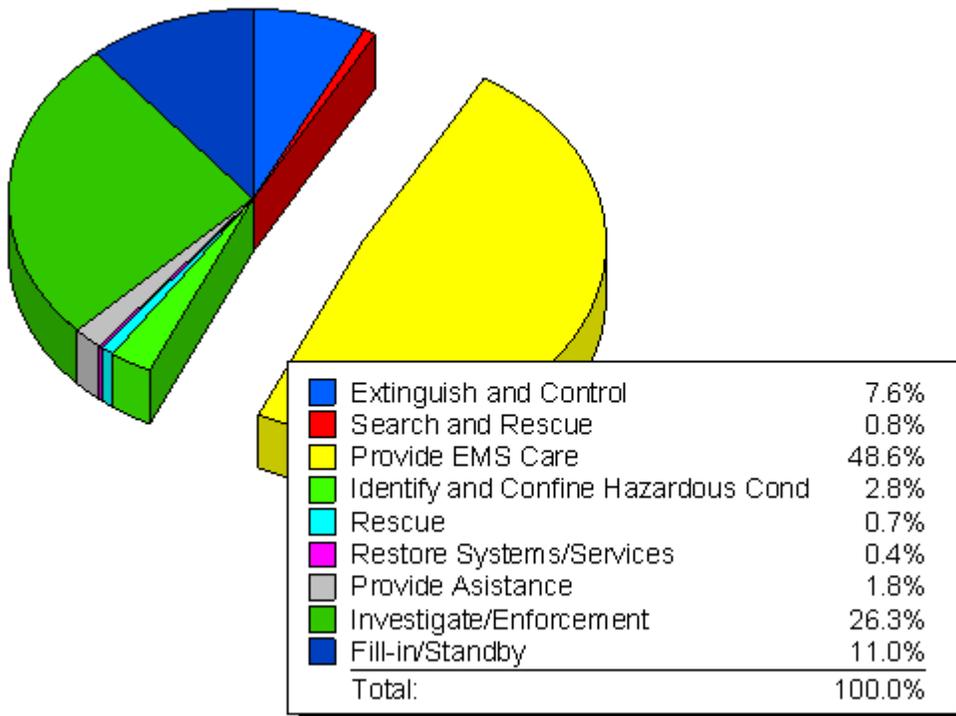
Month	Count of Fires With Loss	Total Loss	Total Value
1/2007	64	\$643,778.00	\$643,778.00
2/2007	46	\$5,239,212.00	\$5,239,212.00
3/2007	38	\$109,511.00	\$109,511.00
4/2007	51	\$456,663.00	\$478,563.00
5/2007	40	\$811,591.00	\$812,081.00
6/2007	40	\$158,031.00	\$158,131.00
7/2007	63	\$930,454.00	\$1,340,304.00
8/2007	41	\$694,563.00	\$745,563.00
9/2007	40	\$273,876.00	\$360,876.00
10/2007	49	\$470,860.00	\$476,660.00
11/2007	66	\$642,808.00	\$911,358.00
12/2007	53	\$740,993.00	\$1,340,243.00
Yearly Totals-		\$11,172,340.00	



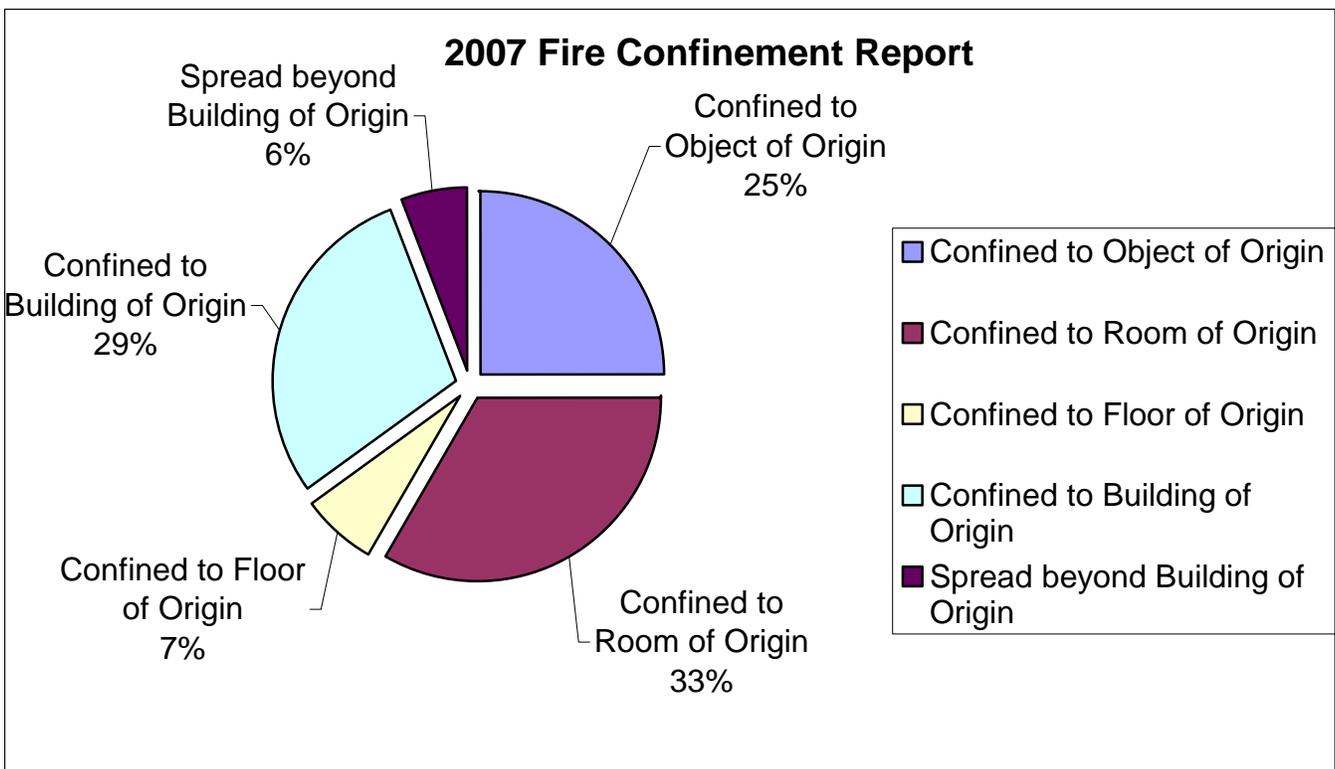
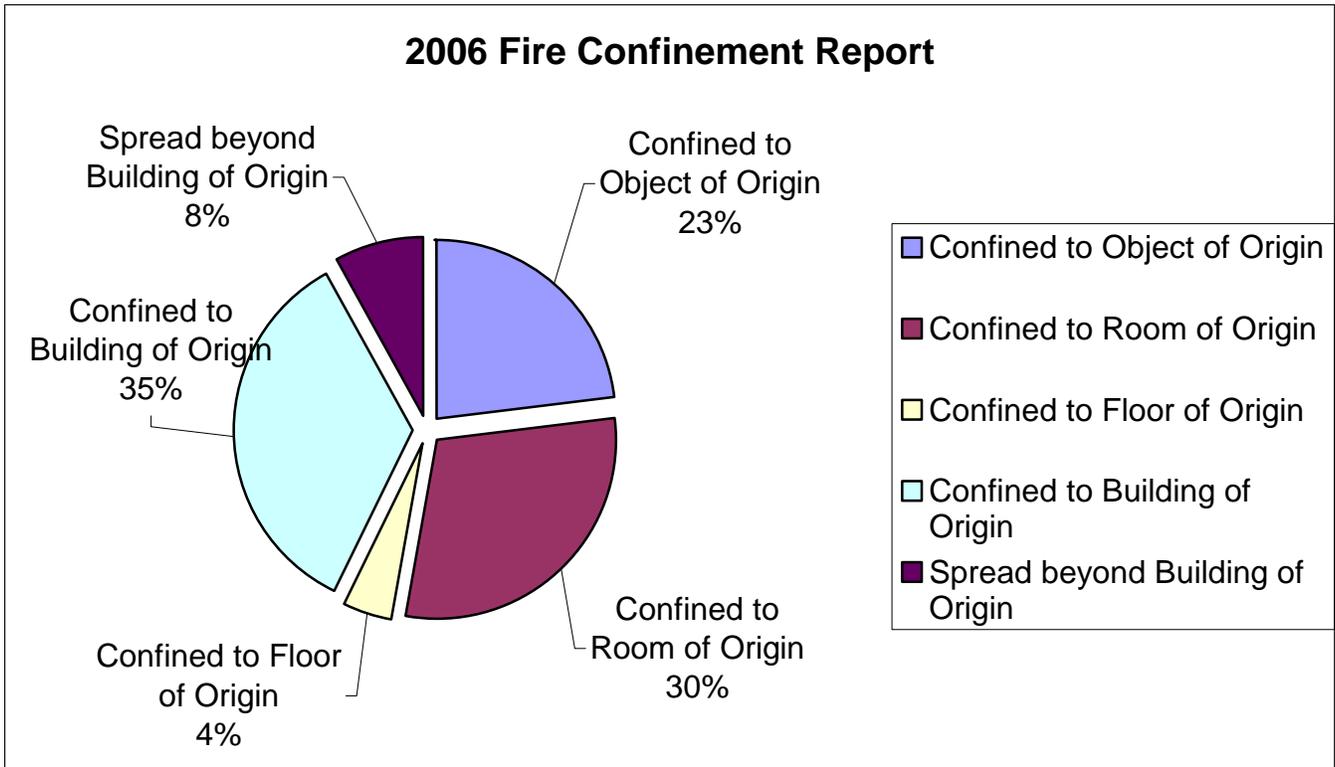
Actions Taken - Department Level (Chart)

Report Period: From 1/1/2007 To 12/31/2007

Description	Action 1	Action 2	Action 3	Total Actions	Percent of Total
Provide EMS Care	6,945	180	69	7,194	48.61%
Investigate/Enforcement	3,047	604	234	3,885	26.25%
Fill-in/Standby	1,405	182	42	1,629	11.01%
Extinguish and Control	720	292	106	1,118	7.55%
Identify and Confine Hazardous Cond	285	101	30	416	2.81%
Provide Assistance	200	45	25	270	1.82%
Rescue	70	29	10	109	0.74%
Search and Rescue	60	39	19	118	0.80%
Restore Systems/Services	42	12	6	60	0.41%
Totals	12,774	1,484	541	14,799	100.00%



Fire Confinement Report



Miscellaneous Data

General Information	2006	2007
<ul style="list-style-type: none"> • Average Response Time for all Emergency Incidents • (Elapsed time from unit notification to arrival) 	4:17	4:12
<ul style="list-style-type: none"> • Increase of incidents from previous year • Increase in total responses over previous year 	12.91%	4.99%
<ul style="list-style-type: none"> • Average Time on Scene (mm:ss) • Manhours on Scene of Emergency Incidents * 	20:46	15:13
<ul style="list-style-type: none"> • Automatic External Defibrillator (AED) Uses • Extrications Performed • ARFF Alerts (Incidents involving aircraft) 	18	21
Dispatch		
<ul style="list-style-type: none"> • Total Number of Incidents Dispatched • Total Number of Units Dispatched • % of calls answered and units dispatched in under 30 seconds • % of calls answered and units dispatched in under 60 seconds 	12,751	13,818
Firefighter Injuries		
<ul style="list-style-type: none"> • Incident Scene Injuries • Responding to or Returning from Incidents • Non-Incident related 	1	2
Multiple Alarm Fires		
Structure Fires with more than 7 units assigned with a property loss greater than \$500		
<ul style="list-style-type: none"> • Second Alarms • Third Alarm or Greater 	42	36
	13	20

* Previous years annual reports did not include EMS calls in this statistic.

City of Amarillo Statistics

As of October of year indicated

	2006	2007
Estimated Population* (2000 Census – 173,627)	182,941	187,609
Miles of Streets	967.48	973.10
Paved	883.64	889.97
Unpaved	83.84	83.13
Miles of Alley	458.86	463.67
Paved	182.65	184.38
Unpaved	276.21	279.29
Number of Intersections	5,906	5,949
Total City Owned Acreage in Airport**	3,424	4,187
Number of Square Miles in City*	98.26	98.71
Number of Acres in City*	62,884.67	63,174.67
Miles of Water Line***	1,053	1,063
Number of Fire Hydrants	3,569	3,645

* The City of Amarillo Planning Department prepared this estimate

** The acreage for the airport property is taken from the City of Amarillo Property book

*** The City of Amarillo Water Department prepared this estimate

NFPA 1710 Compliance Analysis

NFPA 1710 is a standard that is used compare a fire dept. to a predetermined set of time based response objectives. A Fire Dept. is given the latitude to choose from two different methods to measure its fire response compliance. The standard sets criteria for both fires and EMS calls. The City of Amarillo has not adopted this standard, but has studied response times to see how we compare to those response objectives.

Fire Incidents- the dept. may choose which of these to meet.

- **First arriving unit within 6 minutes** - In each area or district, the initial arriving unit must arrive within 6 minutes. The 6 minutes is broken down into the following areas:
 - 1 minute dispatch time – the time it takes dispatch to get the information and notify the station that they have an alarm
 - 1-minute turnout time- the time from when the station receives the alarm from dispatch until they are enroute.
 - 4 minutes travel time – the time traveling to the call.

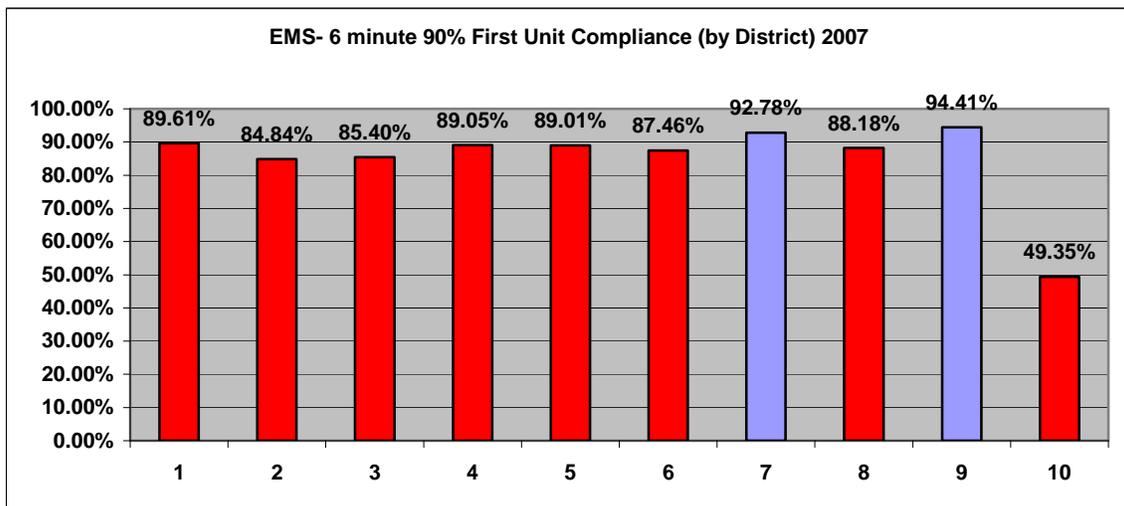
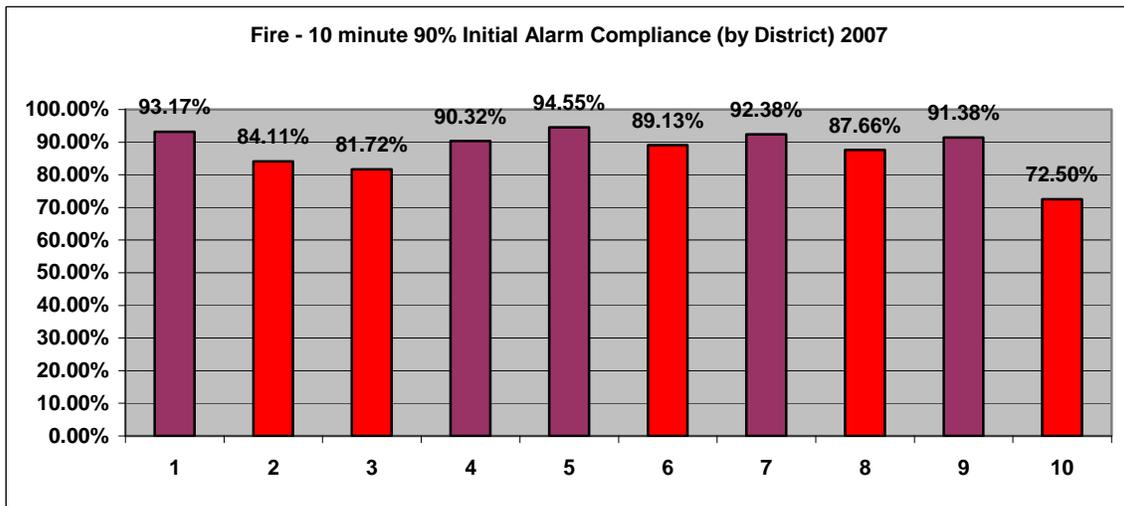
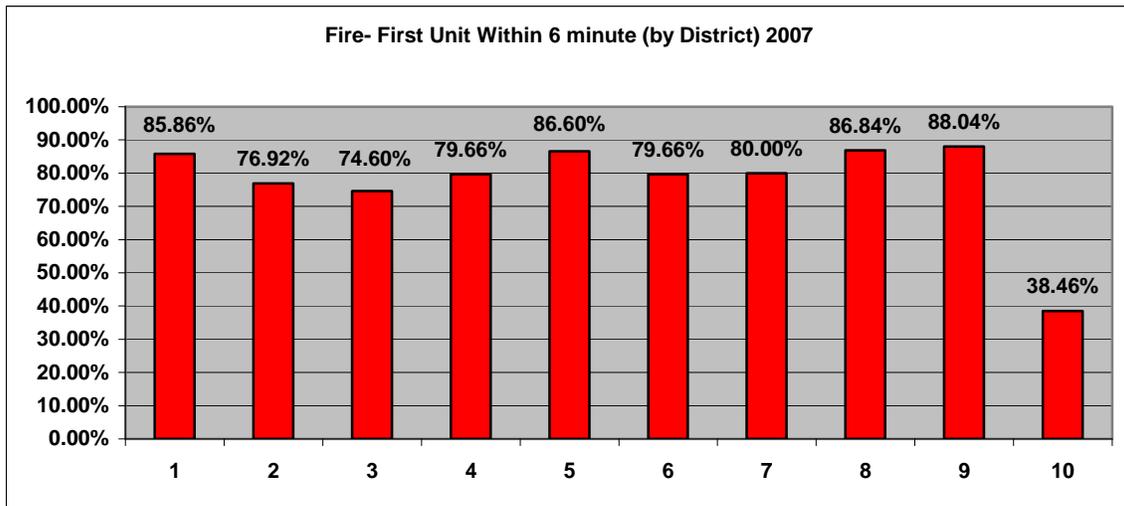
- **Initial assignment (first alarm) within 10 minutes** – According to the IAFC, the initial assignment should include 14 personnel, or 15 personnel if an aerial device is used. AFD, on its first alarm assignments, includes 12 firefighters and 2 district chiefs. At least one of the district chiefs will respond depending on the incident. No special allowance is made for aerial devices. This makes up a response of 13-14 personnel on an initial response. The 10 minutes is broken down into the following areas:
 - 1 minute dispatch time – the time it takes dispatch to get the information and notify the station that they have an alarm
 - 1-minute turnout time- the time from when the station receives the alarm from dispatch until they are enroute.
 - 8 minutes travel time – the time traveling to the call.

EMS incidents

- **First arriving unit within 6 minutes** - In each area or district, the initial arriving unit must arrive within 6 minutes. The 6 minutes is broken down into the following areas:
 - 1 minute dispatch time – the time it takes dispatch to get the information and notify the station that they have an alarm
 - 1-minute turnout time- the time from when the station receives the alarm from dispatch until they are enroute.
 - 4 minutes travel time – the time traveling to the call.

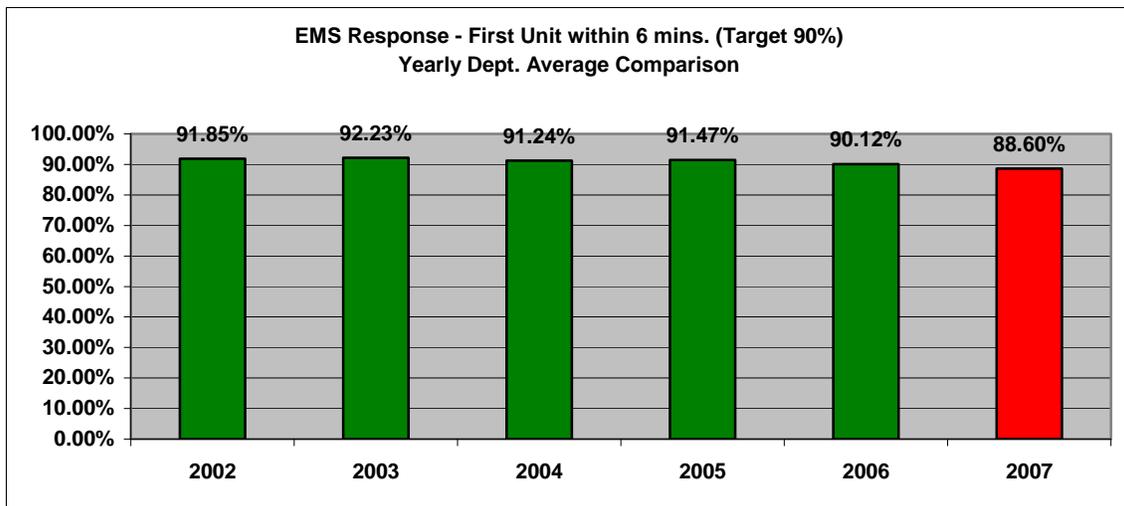
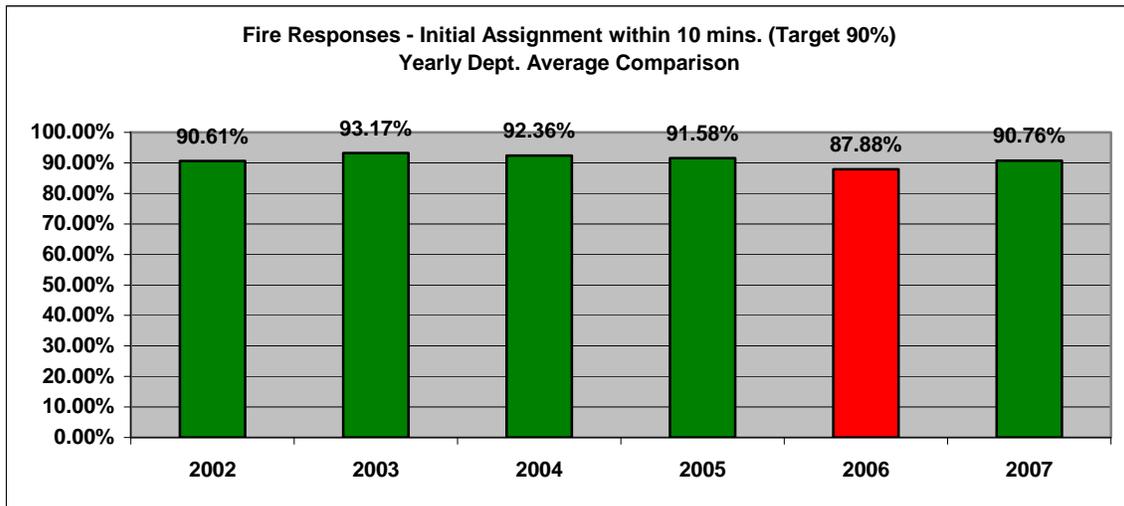
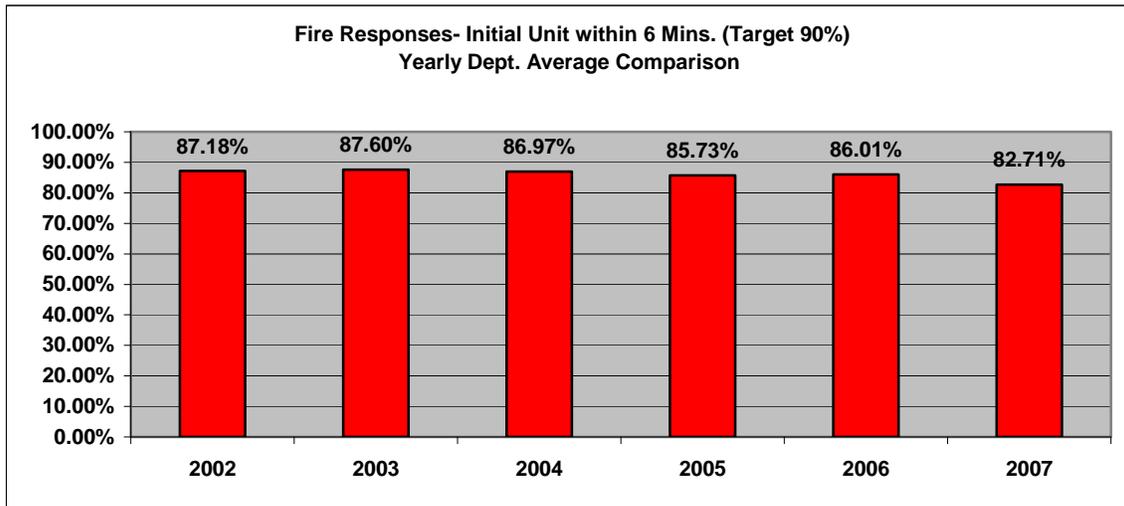
The following pages are data gathered from responses the calendar year along with charts breaking down those responses by district.

2007 NFPA 1710 Response Compliance



NFPA 1710 Compliance Comparison

Dept. Wide Average by Year



NFPA ANNUAL SURVEY

FDID-26762	2004	2005	2006	2007
Fire Service Personnel				231
Part I - Area and Population Protected				
Population of Primary Responsibility				187609
Square miles of Primary Responsibility				98.7
Part III - Fires and Other Incidents				
FIRES IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY)				
Private Dwellings including Mobile homes	198	205	267	186
Apartments	35	43	61	54
Hotels and Motels	4	4	3	4
All other residential (Dormitories, boarding houses, tents, etc)	1	4	6	3
Total Residential Fires (Should be sum of lines 1-4)	238	256	337	247
Public Assembly (church, restaurant, clubs, etc.)	16	21	19	21
Schools and Colleges	0	3	3	2
Health Care and Penal institutions (hospitals, nursing homes, prisons, etc.)	1	10	5	7
Stores and offices	19	14	21	17
Industry, Utility, Defense, Labs, manufacturing	2	7	3	3
Storage in structures (barns, vehicles storage garage, general storage)	18	18	26	21
Other Structures (vacant bldgs, bldgs under const, outbldgs, bridges)	6	21	21	27
Totals for Structure Fires (Should be sum of lines 5-12)	300	350	435	345
Fires in Highway vehicles (autos, trucks, buses, etc.)	127	132	140	126
Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles)	6	8	10	10
Fires outside of structures with value involved, but not vehicles. (outside storage, crops, timber, etc)	33	23	31	26
Fires in Brush, Grass, Wildland (excluding crops and timber), with no value involved.	89	144	141	97
Fires in Rubbish, including Dumpsters (outside of structures) with no value involved.	324	347	297	316
All other Fires (non structures not classified)	22	20	12	11
Totals for Fires (Should be sum of lines 13-18)	901	1024	1066	931
Rescue, Emergency Medical Responses (ambulance, EMS, Rescue)	5345	6768	8027	8942
False alarm (malicious or unintentional false calls, system malfunctions, bomb scares)	481	473	439	579
Mutual Aid or Assistance Responses	49	62	135	60
Hazardous material responses (spills, leaks, etc.)	301	328	331	315
Other Hazardous Responses (arcing wires, aircraft standby, bomb removal, powerlines down, etc)	960	562	444	297
All other responses (smoke scares, lockouts, animal rescues, not classified, etc.)	1535	1621	1725	1650
Total for all incidents	9523	10776	12167	12774
Residential fires - Confined				63
Residential fires - Nonconfined				184
Structure fires - Confined				77
Structure fires - Nonconfined				268
Breakdown of False Alarm Responses				
Malicious, Mischievous False Calls	95	63	36	25
System malfunction	144	168	117	158
Unintentional	130	170	247	443
Other False alarms	112	72	39	14
Total	481	473	439	640