

# RUSSELLVILLE, ARKANSAS FIRE DEPARTMENT

## 2014 ANNUAL REPORT



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## 2014 ANNUAL REPORT

HON. RANDY HORTON,  
*Mayor of Russellville,*

YOUR HONOR:

I present to you the 2014 Annual Report of the Russellville Fire Department. The report provides an overview of the department including its mission, scope of services, and a review of the year's activities.

Our firefighters continue to demonstrate a level of dedication to their profession and to those they serve, the citizens of Russellville. As with previous years, members demonstrated an ability and willingness to expand their expertise in the areas of fire prevention and suppression, delivery of emergency medical care, technical rescue, and hazardous materials. Every member of the department must retain a minimum level of knowledge, skills, and abilities that offer our citizens the best level of service available while working within the confines of a limited budgetary environment.

Throughout the year they used their skills during a variety of emergency and non-emergency conditions while presenting an ability to serve the public in the most proficient way. This being said, in the following year the department will continue to identify additional opportunities to further improve the efficiency and effectiveness of the services it provides to our citizens.

Respectively submitted,

John L. Cochran  
Chief of Department



# MISSION STATEMENT



***The Russellville Fire Department exists to enhance the quality of life in Russellville by minimizing the devastating effects of fires, medical emergencies, and disasters.***



# DEPARTMENT HISTORY

**Organized: 1905.** The Russellville Fire Department was organized in 1905 when the town fathers authorized the creation of a volunteer department along with the purchase of various firefighting equipment made up of a hand operated engine, hook and ladder truck, fire hose, and an assortment of related equipment .

**An Evolving Organization.** As the small community grew so did the department. For the first 60 years of its existence the department remained an all volunteer force. It wasn't until 1967 that the community identified a need to augment the volunteer force with paid drivers. For the next 40 years the department gradually evolved from an all volunteer department to the one today that is comprised of an all career force serving from four fire stations.



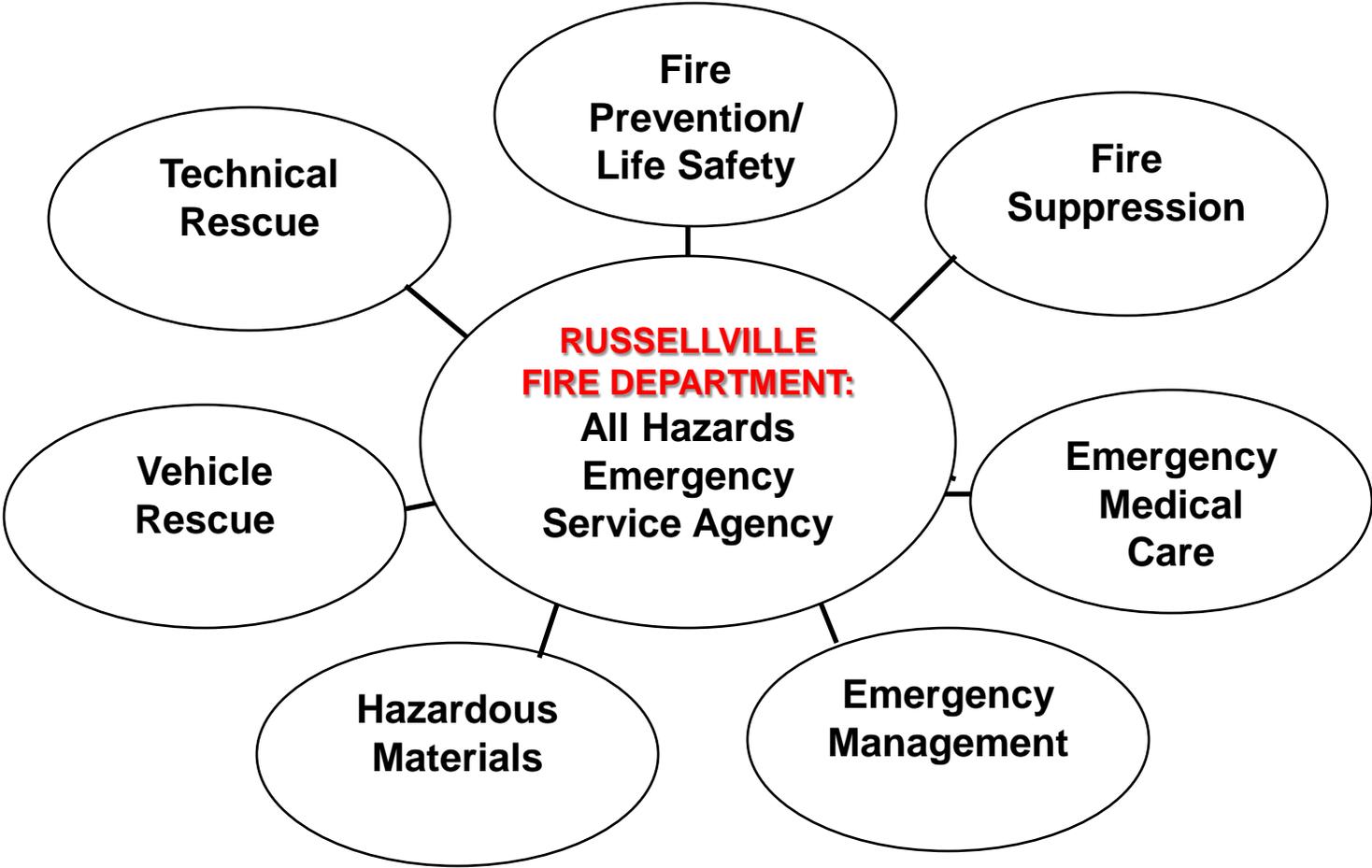
*Volunteer Firefighters, circa 1954*

## Department Highlights:

1905 – first organized 1905 as a volunteer department  
1906 – major fire destroys most of general business district  
1915 – first motorized apparatus placed in service – American LaFrance fire engine  
1925 – second ALF engine placed in service  
1927 – department moves into first permanent quarters  
1946 – volunteer fireman Frank Dodd killed in line of duty  
1967 – first career firefighters appointed  
1979 – first career fire chief appointed  
1980 – department responded to major wildland fires in the region due severe drought conditions

1981 – fire station 2 opens  
1990 – position of training officer added to the department  
1990s – department transitions into all career department with a total of 53 uniformed members  
1992 – fire stations 3 and 4 opened and fire marshal position added  
1993 – department begins augmenting life threatening medical emergency incidents  
2000 – Battalion chief position is created  
2002 – department begins providing hazardous materials response, assistant fire marshal position added  
2012 – fleet services position added, total uniform staffing is 56

# SCOPE OF SERVICES



# COMMUNITY ISO FIRE INSURANCE RATING

**The Insurance Services (ISO)** is a private organization that collects and disseminates risk and associated data on behalf of the property insurance industry.

**Community Survey.** As part of its services, it routinely surveys every town and city in the country with regards to the level and kind of public fire defenses are in place with regards to their ability to control structural and similar property fire losses.

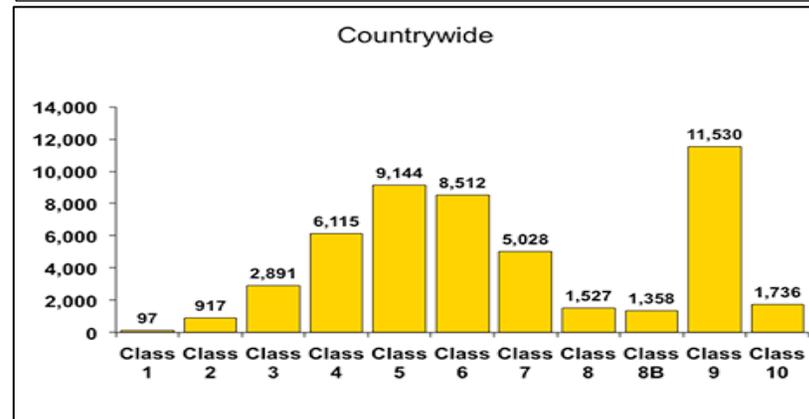
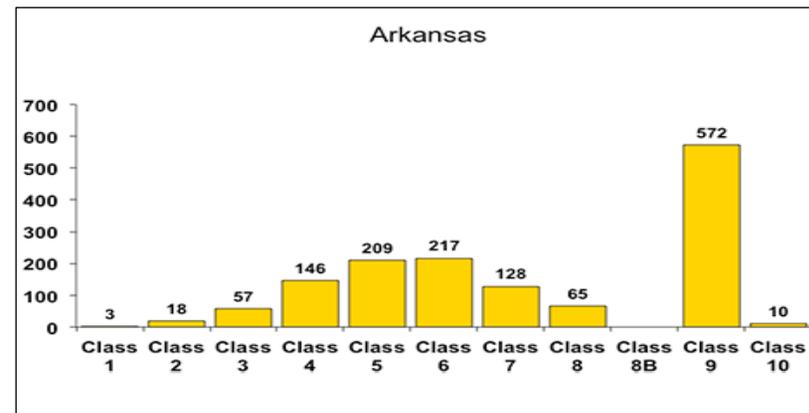
**Survey Breakdown.** A survey consists of the evaluation of a community's fire department, water utility, and 911 communications with a percentage weight of 50, 40, and 10 percent respectively.

**Class Ratings.** Subsequent to a survey, which typically occurs every 3-5 years, ISO then establishes a community's "class" rating on a scale of 1-10 with a class 1 being optimum protection and class 10 being no recognized protection.

**Insurance Premiums.** All cities fall somewhere within the scale. Local property owners fire insurance premiums are then set by local insurance carriers based the community's class rating.

## City of Russellville Ratings: 1957-Present

	<u>Class</u>	<u>Population</u>
1957	7	8,166
1967	6	9,500
1994	4	22,000
2000	3	24,000
2012	3	28,000



➤ Scope of ISO Survey:

- Fire Dept. 50%
- Water Utility 40%
- 911/Dispatch 10%

➤ Fire Suppression Rating Schedule (Grading Schedule) was revised in 2013. Revisions include:

- Expansion of available points from 100 to 105.5
- Greater emphasis on fire department operations and deployment
- Greater emphasis on fire prevention and mitigation
- Will require fire department to place greater emphasis on certification and staffing of prevention and related services

*Next ISO review possibly due in 2015-17*

**1980-2012**

Receiving and Handling Fire Alarms		
Item	Description	Max Credit
414	Telephone Service (911)	2
422	Operators (dispatchers)	3
432	Dispatch Circuits	5
440	Total	10

Fire Department		
Item	Description	Max Credit
513	Engine Companies (pumpers)	10
523	Reserve Pumpers	1
532	Pump Capacity	5
549	Aerial Ladder/Service Co.	5
553	Reserve Ladder/Service Trucks	1
561	Distribution of Companies (stations)	4
571	Personnel (staffing levels)	15
581	Training	9
590	Total	50

Water Supply		
Item	Description	Max Credit
616	Supply System (tanks, pumps, reservoir, mains)	35
621	Hydrant & Valve Specif./Installation	2
631	Hydrant Inspection & Condition	3
640	Total	40

<b>TOTAL POINTS AVAILABLE</b>	<b>100</b>
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**2012-Present**

Emergency Communications		
Item	Description	Max Credit
414	Emergency Reporting (911)	2
422	Telecommunicators (dispatchers)	3
432	Dispatch Circuits	5
440	Total	10

Fire Department		
Item	Description	Max Credit
513	Engine Companies (pumpers)	6
523	Reserve Pumpers	0.5
532	Pump Capacity	3
549	Aerial Ladder/Service Co.	4
553	Reserve Ladder/Service Trucks	0.5
561	Deployment Analysis (stations)	10
571	Personnel (staffing levels)	15
581	Training	9
730	Operational Considerations	2
590	Total	50

Water Supply		
Item	Description	Max Credit
616	Supply System (tanks, pumps, reservoir, mains)	30
621	Hydrant & Valve Specif./Installation	3
631	Hydrant Inspection & Condition	7
640	Total	40

Additional		
Item	Description	Max Credit
1000	Community Risk Reduction (fire code enforcement, plans review, public education, fire scene investigation, etc.)	5.5

<b>TOTAL POINTS AVAILABLE</b>	<b>105.5</b>
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# SCOPE OF SERVICES

## Fire Prevention/Life Safety

The department mitigates fire and related hazards through a series of prevention related services that as a whole serve to reduce fire and related hazards within the community.

- Fire Inspections
- New Construction Plans Review
- Public Education



# SCOPE OF SERVICES

## Fire Suppression

Fire related emergency responses cover a variety of hazards including:

- Buildings
- Brush/Grass
- Vehicle
- Aviation
- Mobile properties



# SCOPE OF SERVICES

## Emergency Medical Care

When available, the department augments Pope County EMS for all “life threatening” medical emergencies within the city through the “First Responder” program. The program consists of two levels of service:

**Basic Life Support (BLS)** – at the Emergency Medical Technician (EMT) level. At a minimum, all members of the department must retain EMT certification as a condition of employment.

**Advanced Life Support (ALS)** – Approximately one third of the department members are licensed as Paramedics.

The department delivers the First Responder Program by dispatching the closest fire engine in conjunction with an ALS ambulance from Pope County EMS.



# SCOPE OF SERVICES

## Technical Rescue

The department serves as local industry's provider for rescue services in unique conditions. This includes trapped workers in below grade confined spaces such as sewer systems or elevated locations such as multi-story structures, river bluffs, and rock quarries.

Members undergo annual training that meet OSHA and other nationally recognized requirements and standards.

The department is a member of the River Valley Safety Alliance. In doing so, the department is recognized as several of the represented industry's technical rescue responder.



# SCOPE OF SERVICES

## Vehicle and Industrial Rescue

In conjunction with its emergency medical services, the department provides extrication services at vehicle and industrial accidents.

Every engine company in the city is equipped with an assortment of extrication tools including hydraulic spreaders known universally as the ‘Jaws of Life.’”



# SCOPE OF SERVICES

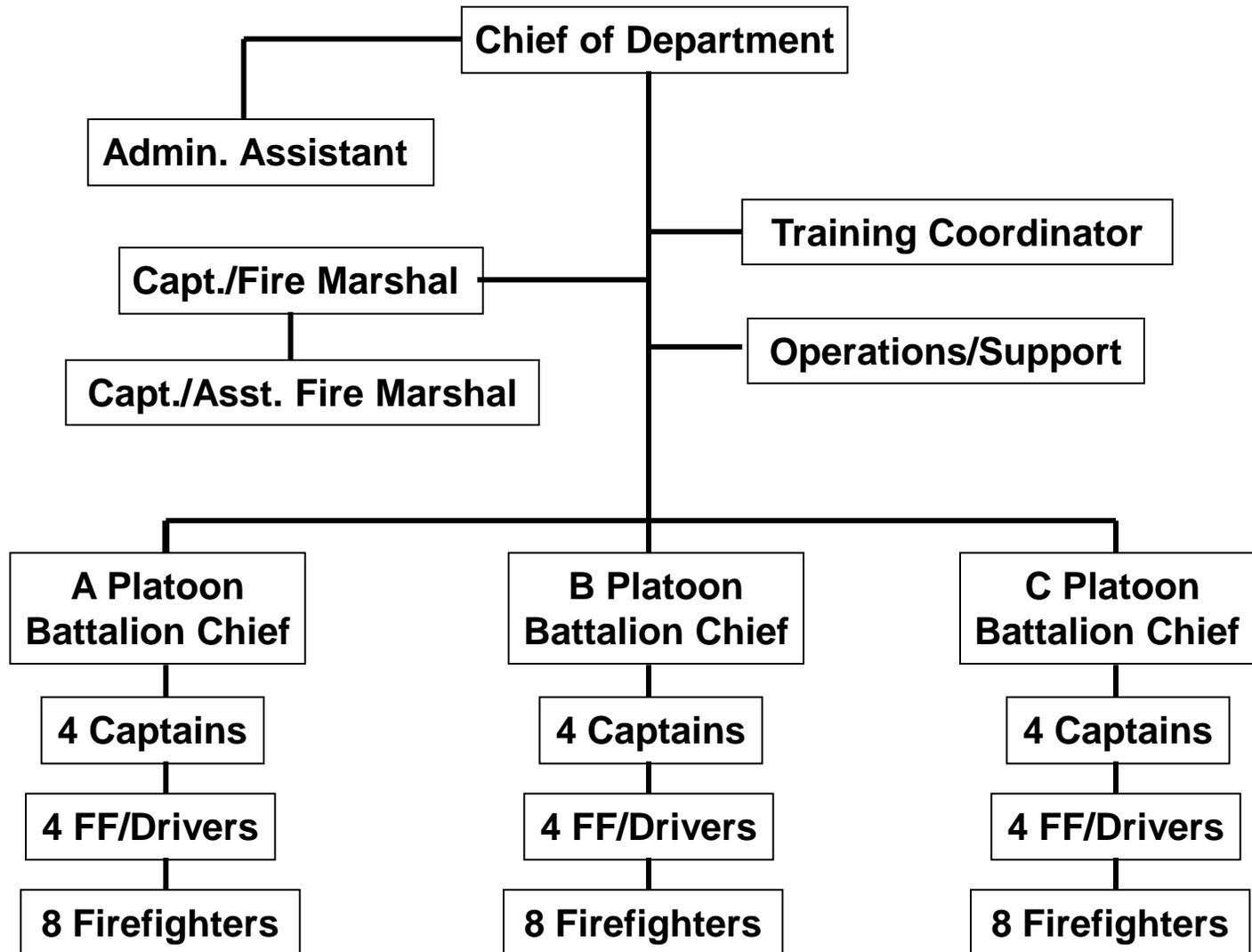
## Hazardous Materials

The department serves as the primary responder for HazMat spills for not only our city, but Pope and the five adjoining counties.

The services provided are highly technical in nature with approximately one third of members being certified at the “Technician” level.



# ORGANIZATION



# ROSTER

*Chief of Department*  
**JOHN L. COCHRAN**

*Fire Marshal*  
**RICHARD SETIAN**

*Training Coordinator*  
**BRAD BARNHOUSE**

*Assistant Fire Marshal*  
**LEE WEATHERALL**

*Operations/Support*  
**MATT MORTON**

*Administrative Assistant*  
**CATHY JOHNSON**

## A PLATOON

*Battalion Chief*, BRENT HAMM  
ENGINE & TRUCK Co. 1  
*Captain*, S. Smart  
*Firefighter/Dr.*, J. Wilmoth  
*Firefighter/Dr.*, T. Wagner  
*Firefighter*, C. Chronister  
*Firefighter*, J. McConnell  
*Firefighter*, E. Harris  
*Firefighter*, A. Baumgartner

ENGINE Co. 2  
*Captain*, J. Threlkeld  
*Firefighter/Dr.*, T. Goates  
*Firefighter*, J. Robinson

ENGINE Co. 3  
*Captain*, C. Chappell  
*Firefighter/Dr.*, D. Metz  
*Firefighter*, A. White

ENGINE Co. 4  
*Captain*, B. Moix  
*Firefighter/Dr.*, M. Signor  
*Firefighter*, K. Davis

## B PLATOON

*Battalion Chief*, KIRK SLONE  
ENGINE & TRUCK Co. 1  
*Captain*, C. Vick  
*Firefighter/Dr.*, J. Moore  
*Firefighter/Dr.*, D. Davis  
*Firefighter*, A. Meier  
*Firefighter*, W. Mashburn  
*Firefighter*, K. Lederman  
*Firefighter*, R. Anderson

ENGINE Co. 2  
*Captain*, D. Roe  
*Firefighter/Dr.*, J. Davis  
*Firefighter*, J. Weaver

ENGINE Co. 3  
*Captain*, P. Pestel  
*Firefighter/Dr.*, J. Pitts  
*Firefighter*, S. Pannel

ENGINE Co. 4  
*Captain*, D. Taylor  
*Firefighter/Dr.*, T. Sigle  
*Firefighter*, M. Rinke

## C PLATOON

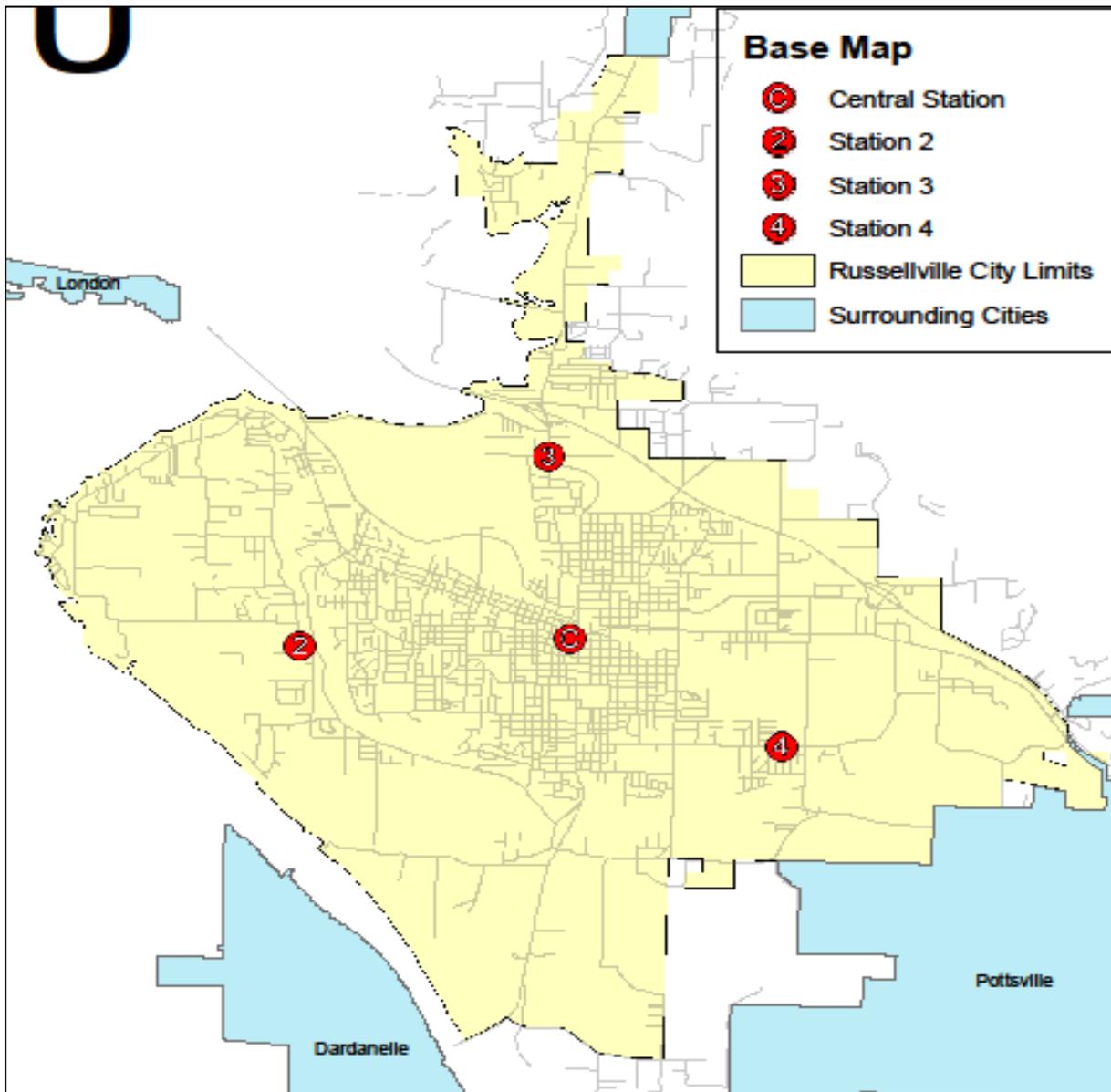
*Battalion Chief*, KURT MCBRYDE  
ENGINE & TRUCK Co. 1  
*Captain*, B. Aylesworth  
*Firefighter/Dr.*, R. Paul  
*Firefighter/Dr.*, J. Terrell  
*Firefighter*, J. Patterson  
*Firefighter*, J. Smith  
*Firefighter*, J. Browning  
*Firefighter*, J. Simcox

ENGINE Co. 2  
*Captain*, G. Widner  
*Firefighter/Dr.*, G. Sutterfield  
*Firefighter*, B. Graham

ENGINE Co. 3  
*Captain*, D. Lewis  
*Firefighter/Dr.*, J. Pipes  
*Firefighter*, B. Noland

ENGINE Co. 4  
*Captain*, K. Griffin  
*Firefighter/Dr.*, J. Isaac  
*Firefighter*, O. Picton

# FIRE STATION DISTRIBUTION



## Central Fire Station

203 W. 2<sup>nd</sup> Street

Area served: central city and back up to other stations.

Houses: Administrative Offices, Battalion 1, Engine and Truck Co. 1, Rescue 1, and Reserve Engine 5

## Station 2

109 Hill Top Drive

Area Served: Western section of city including Norristown Mountain.

Houses: Engine Co. 2 and Squad 1

## Station 3

1920 N. Arkansas Avenue

Area Served: Northern section of city including Arkansas Tech University

Houses: Engine Co. 3 and Hazmat 1,

## Station 4

2316 E. 16<sup>th</sup> Street

Area Served: Southeastern section city including industrial park.

Houses: Engine Co. 4 and Reserve Engine 6 , Brush 1

# NEW CENTRAL FIRE STATION PROJECT

During the fall of 2014 a Request for Qualifications (RFQ) was published for architectural firms to submit proposals for the design of the new Central Fire Station.

Eleven firms submitted proposals with four being selected for further review. The proposals were reviewed by a selection committee comprised of the following:

- Mayor
- City Council Liaison to the Fire Department
- Fire Chief
- Finance Director
- Chair, Downtown Master Plan Committee
- Local/non-competing Architect

**2. Who Benefits?**

**Local Citizens and Commuters**

- Improved response capability.
- More efficient effectiveness and efficiency of programs and

**4. Projected Costs**

Cost Area	Estimated
Hard costs @ \$250 – \$275 per sq ft	\$4,500,000 – \$5,775,000

**3. Design/Spatial Needs**

**1. Why the need for a new Central Fire Station?**

**A. Fire Insurance Rating.** Current facility may adversely affect Fire Department's ability in the future to sustain its current fire insurance rating due to non-compliance with current standards.

**B. Expansion.** Expansion includes increased capacity.

**C. Safety.** Current facility does not meet current safety standards.

**D. Incidents.** Current facility does not meet current incident response standards.

**E. Infrastructure.** Current facility does not meet current infrastructure standards.

**F. Response.** Current facility does not meet current response standards.

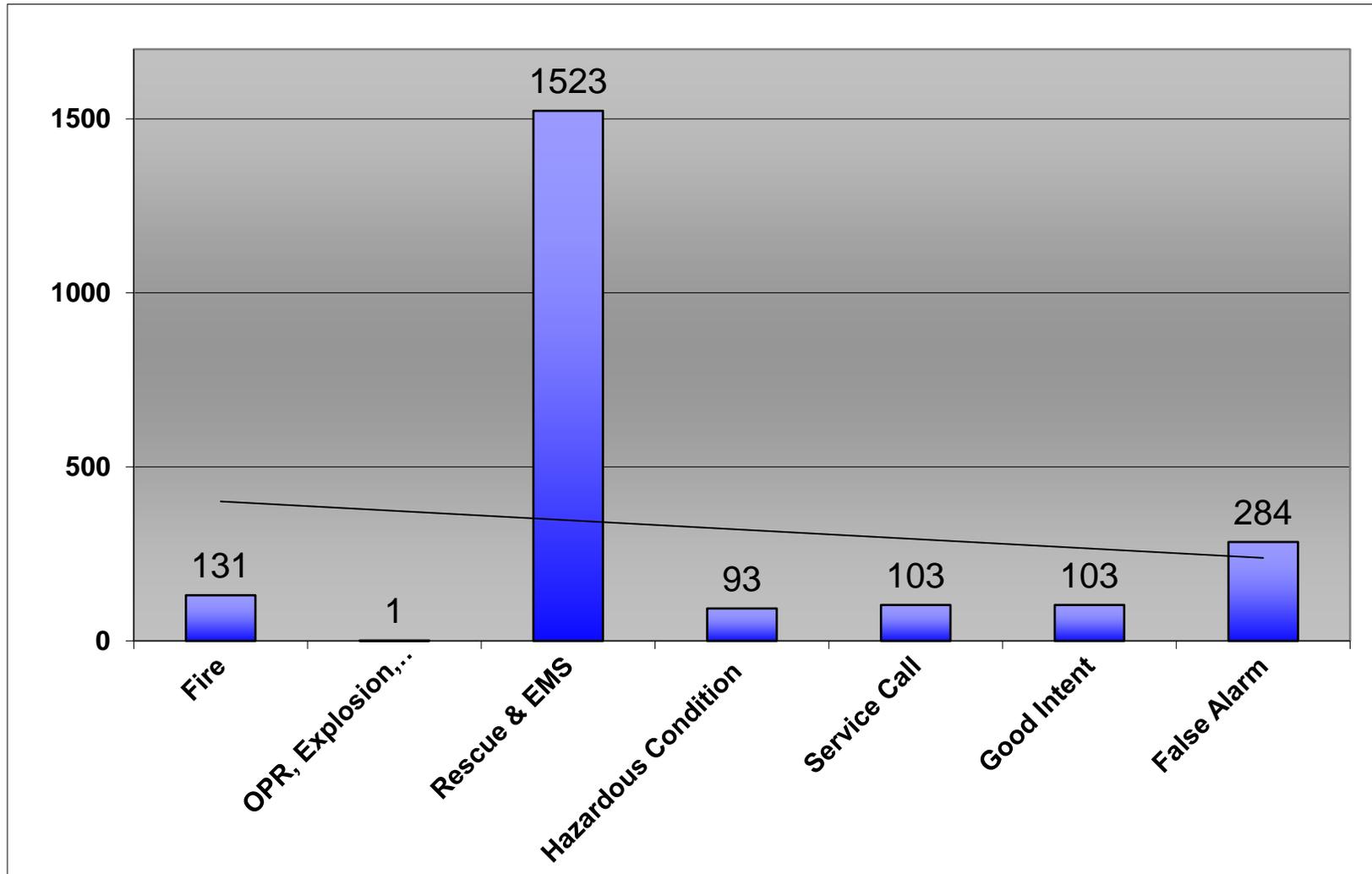
**Example 1 – Modern Central Fire Station Sausalito, CA, circa 2010**

**RUSSELLVILLE FIRE DEPARTMENT**

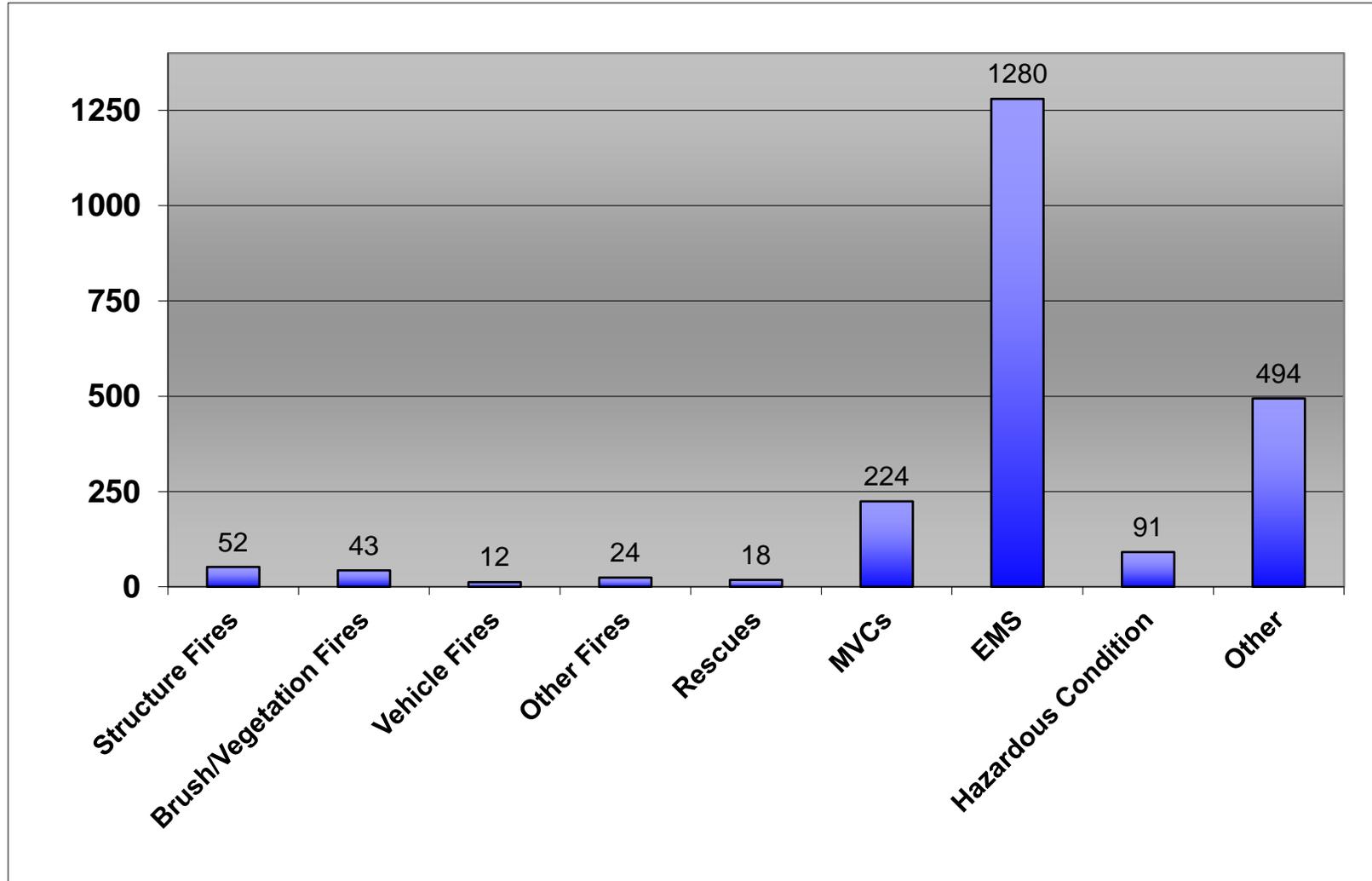
## NEW CENTRAL FIRE STATION PROJECT

Revised: August 2013

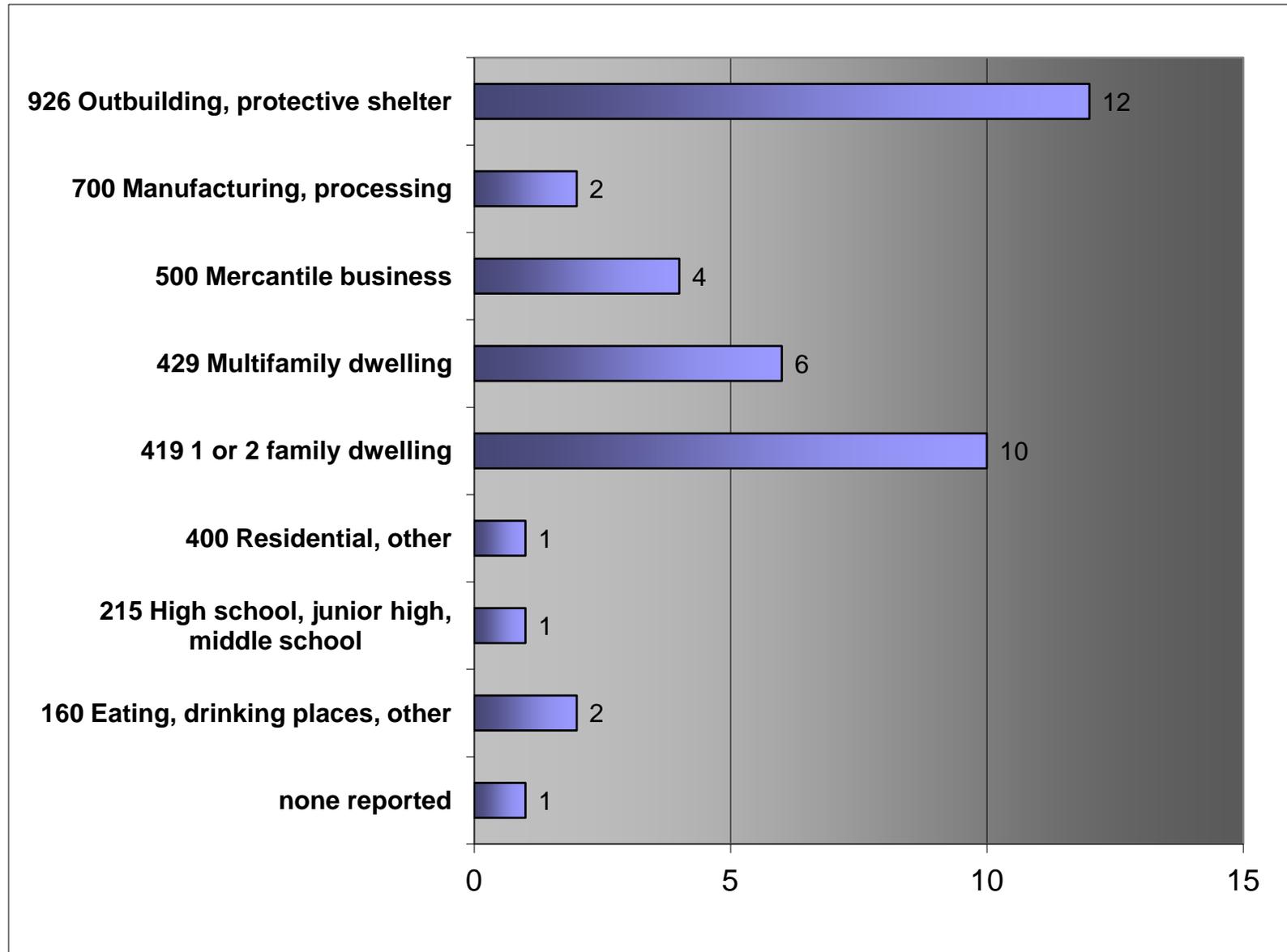
# EMERGENCY RESPONSES



# CALLS FOR SERVICE BY INCIDENT TYPE



# FIRE INCIDENTS BY PROPERTY TYPE USE

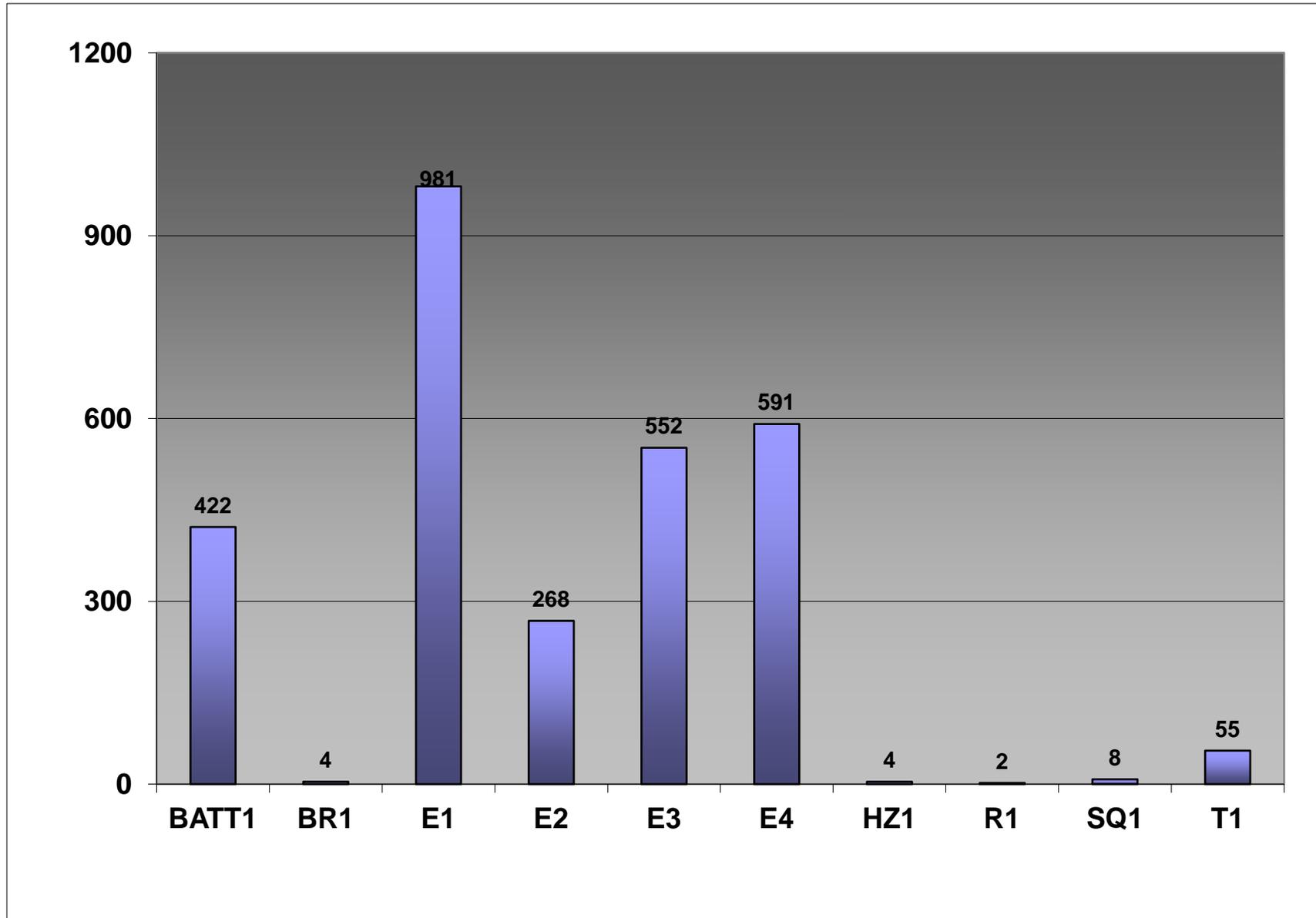


# PROPERTY VALUE SAVED & LOSS ANALYSIS

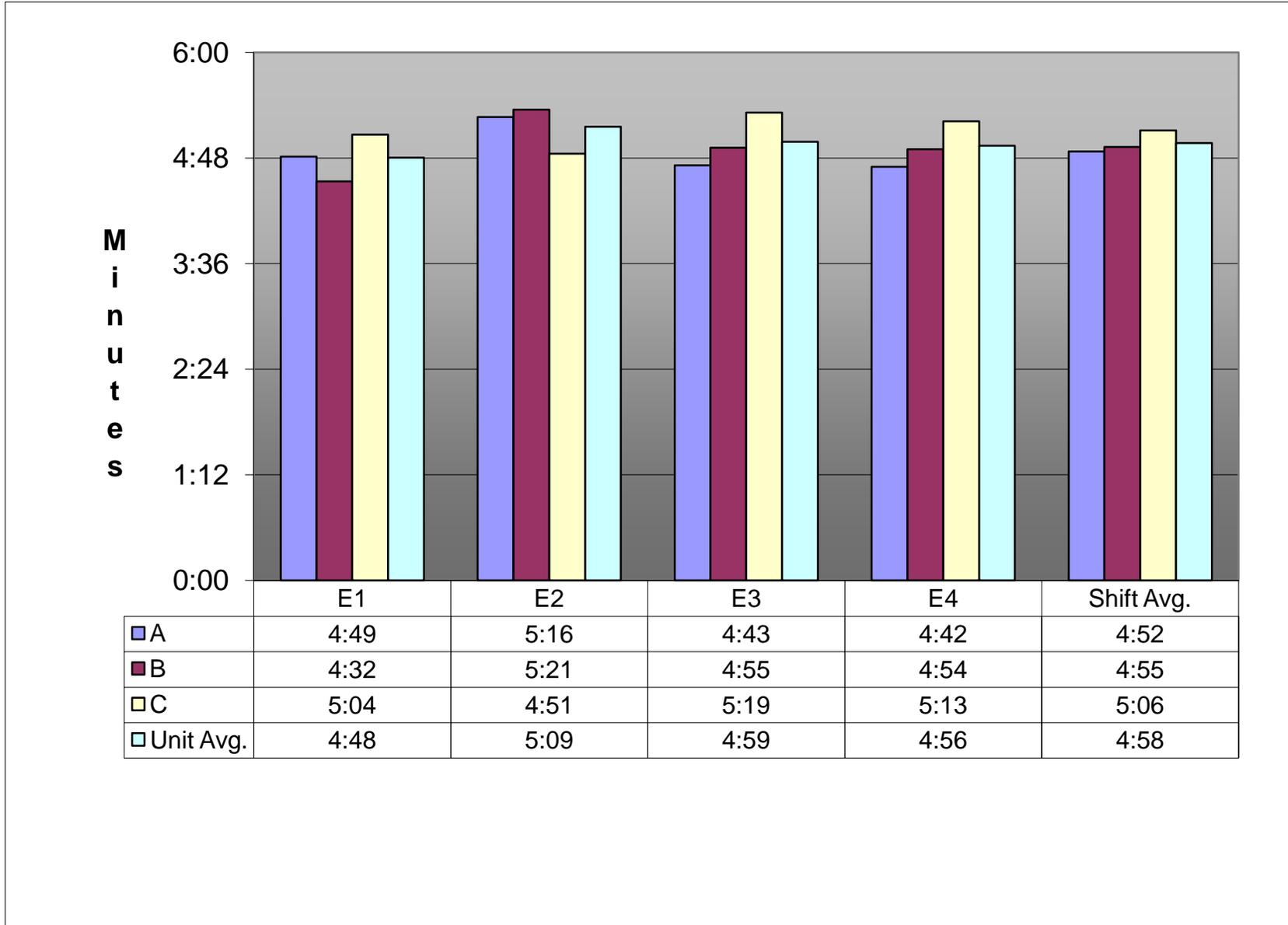
(Fire Threat Ratio)



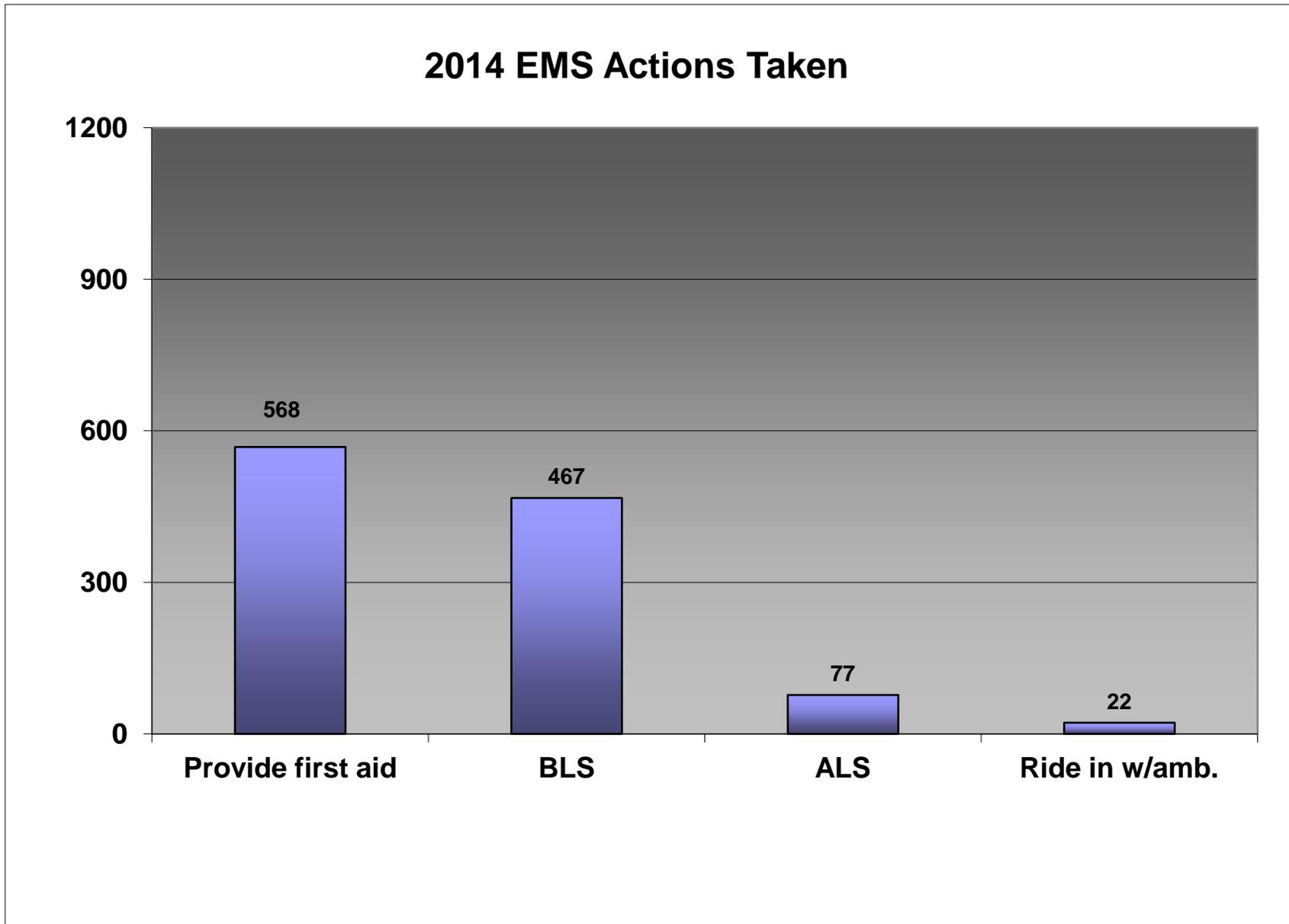
# RESPONSE BY UNIT



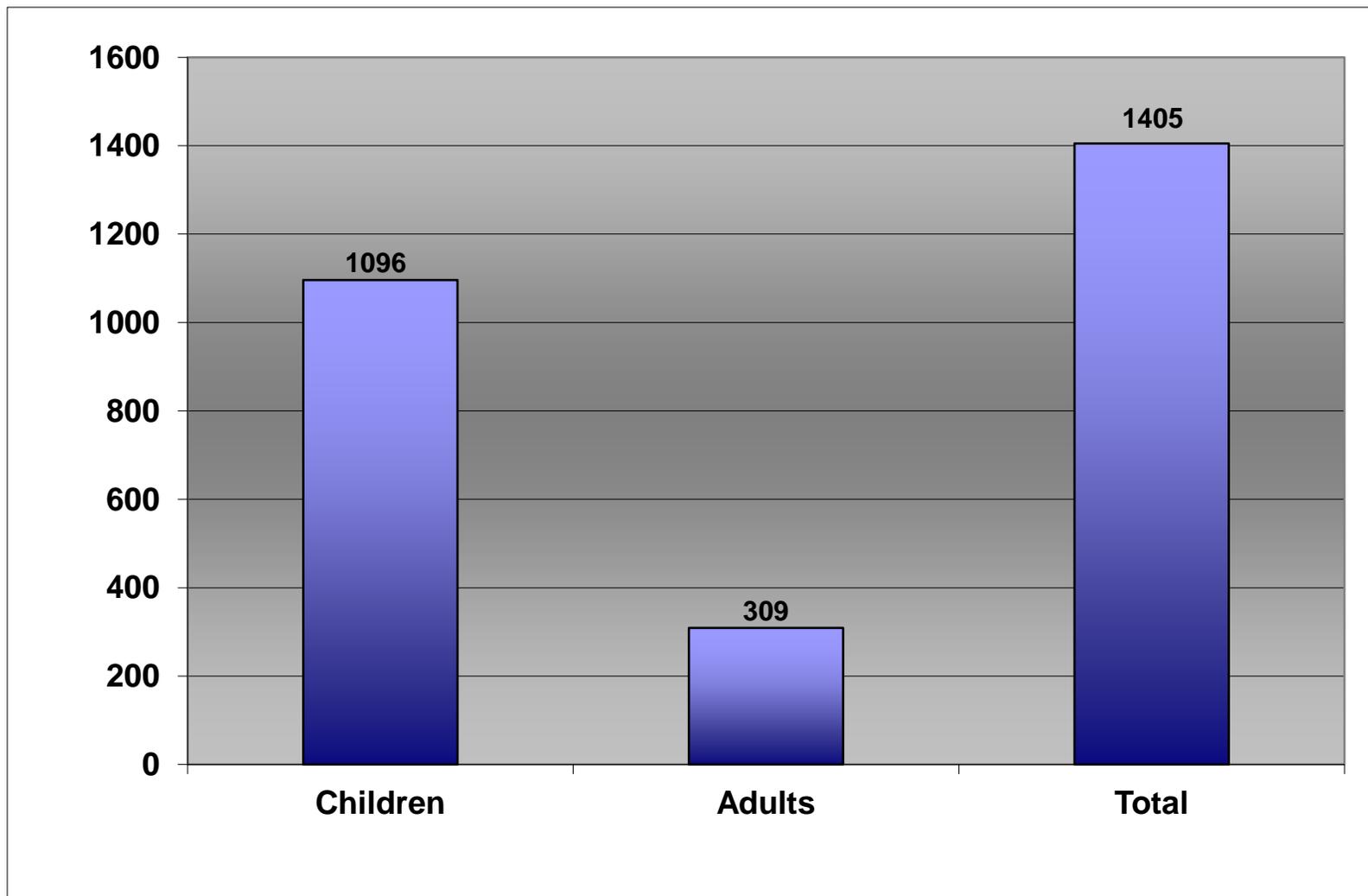
# AVERAGE RESPONSE TIME OF FIRST DUE



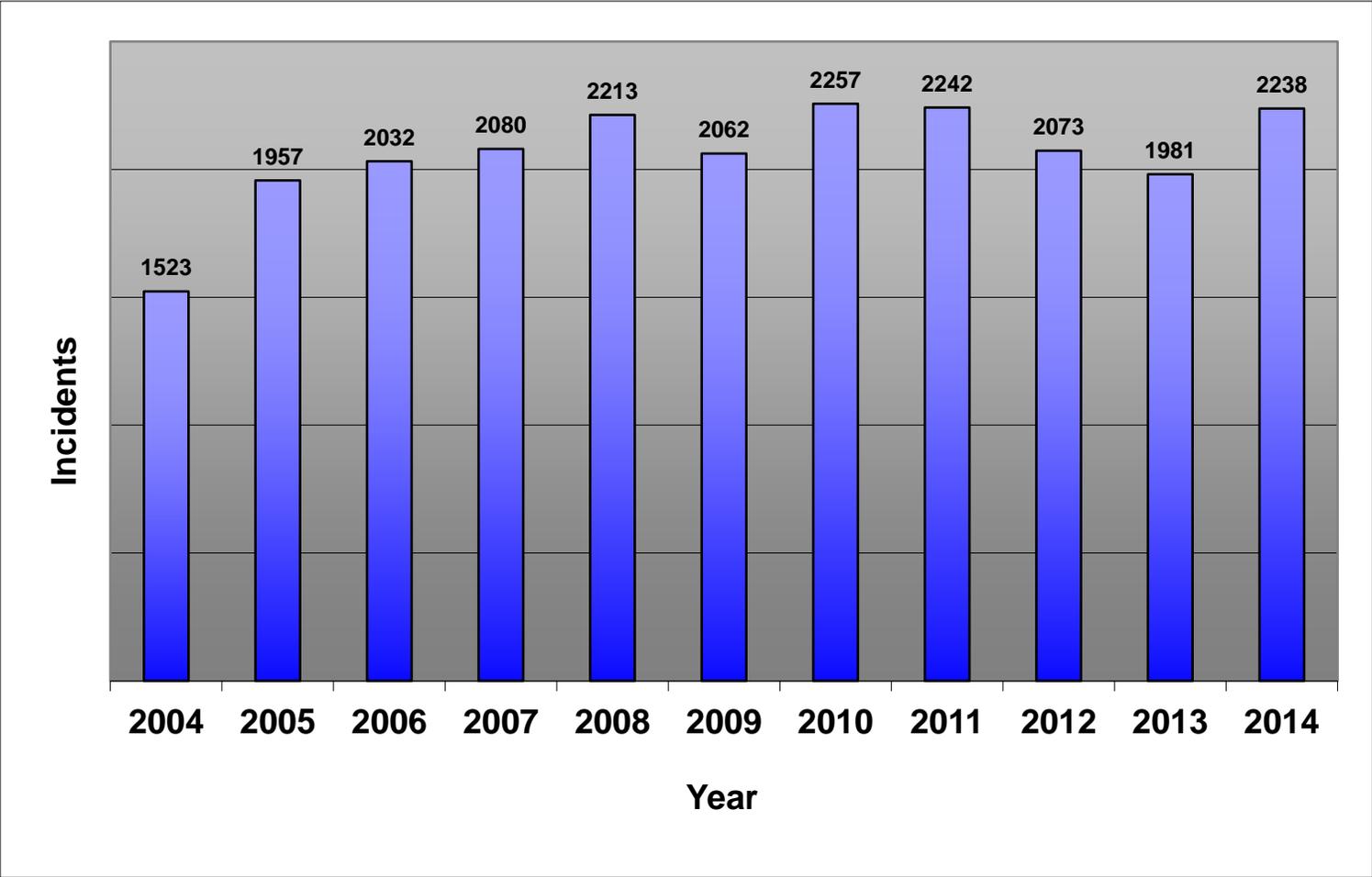
# MEDICAL EMERGENCY RESPONSE



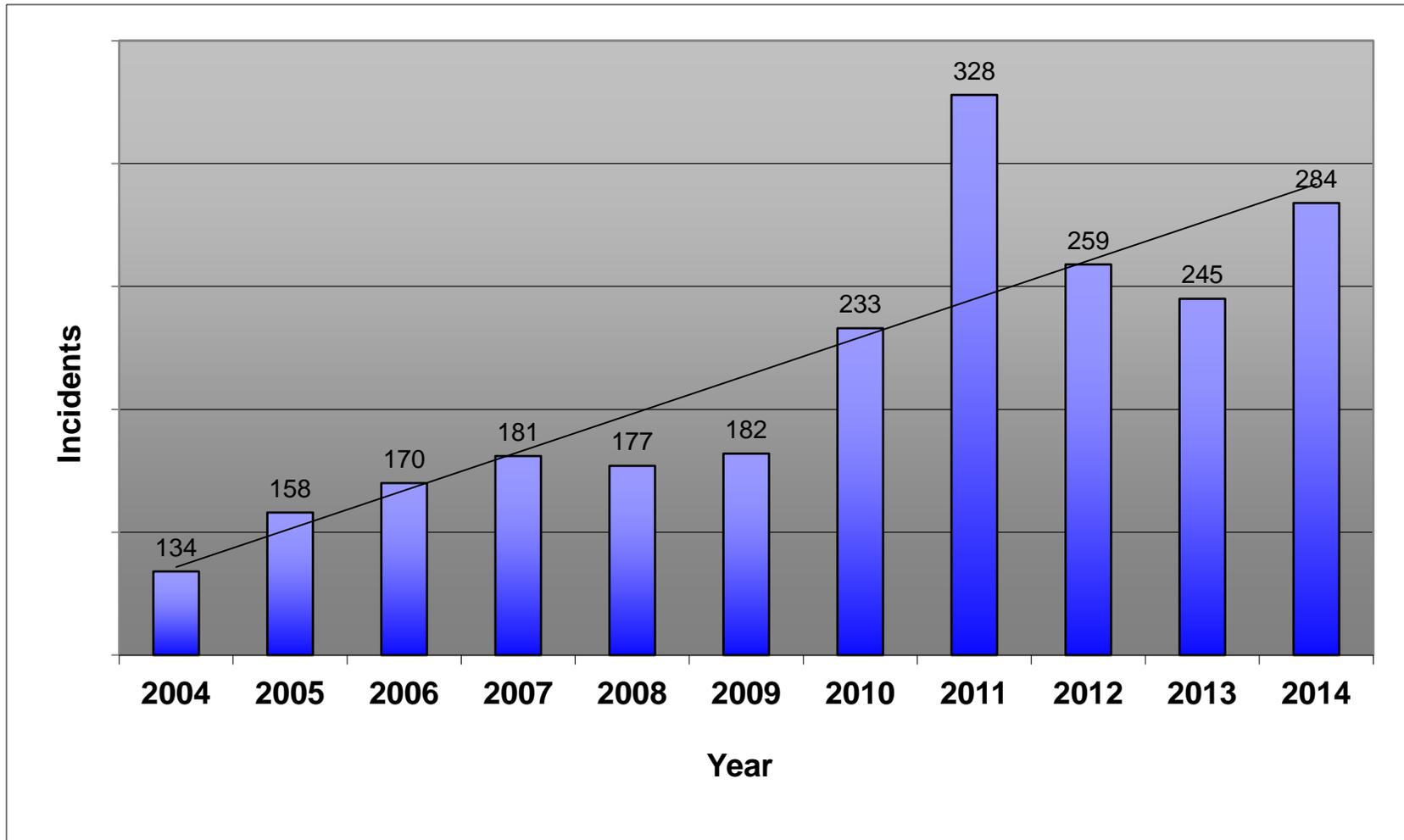
# PUBLIC EDUCATION CONTACT



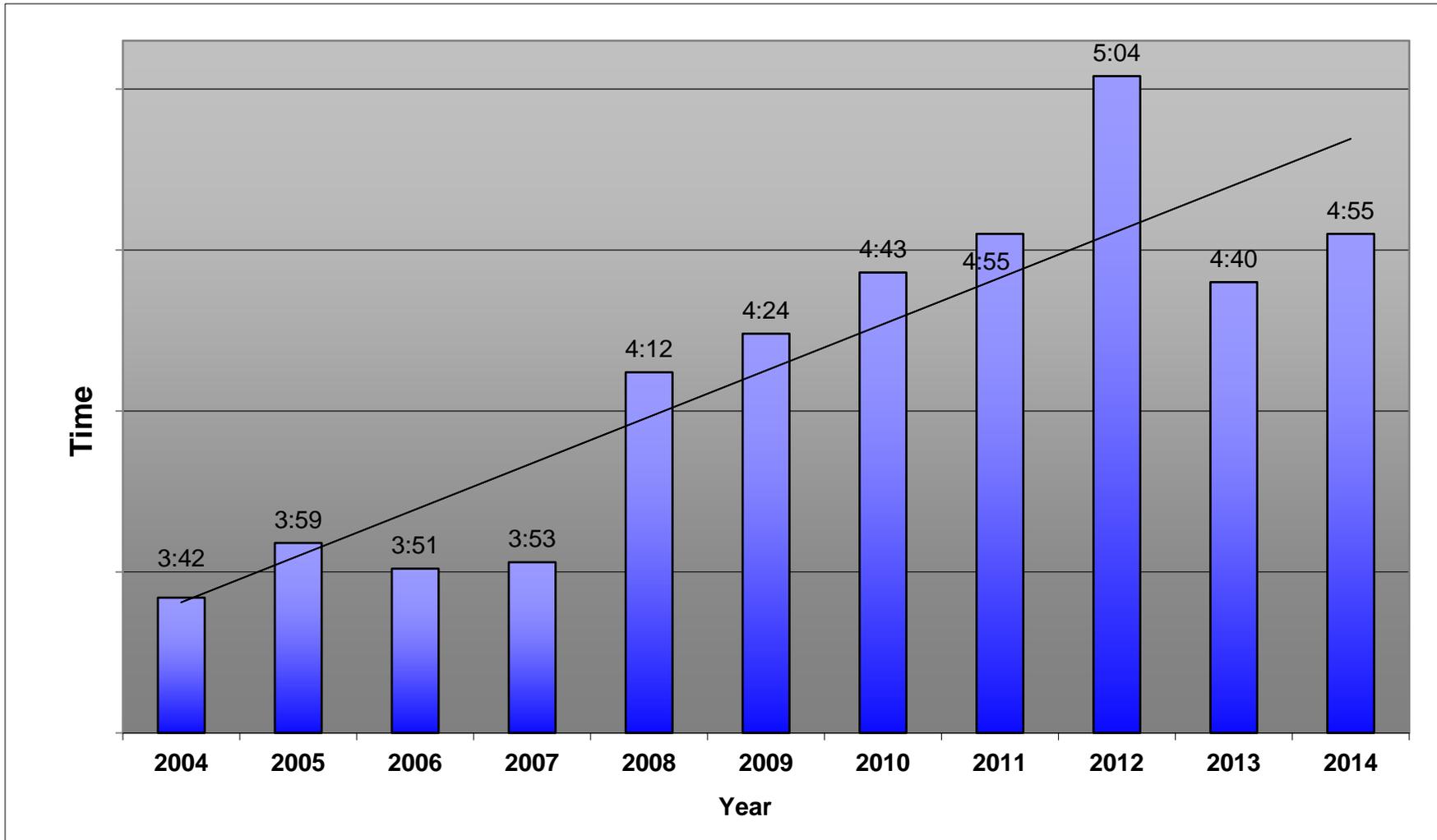
# ANNUAL INCIDENT COMPARISON



# ANNUAL FALSE ALARM COMPARISON



# ANNUAL AVERAGE RESPONSE TIME COMPARISON



# FIRE LOSS COMPARISON - 2013 vs. 2014

Incidents							
Series	# of Incidents to Date	% of Total Incidents	Previous #	Year %	Estimated \$ Loss	Estimated \$ Loss to Date	Previous
<b>100 - Fires</b>							
Structure (by property use)							
113 Electronic amusement center							
135 Aircraft fire							
161 Restaurant or Cafeteria	2	0.09%				\$ 101,000	
162 Bar or Nightclub	1	0.04%					
213 Elementary School or Kindergarten	1	0.04%				\$ 2,000	
215 High School or Junior High							
241 College, Adult Education							
311 Care Facility for the Aged	1	0.04%					
331 Hospital							
341 Clinic, clinic type infirmary							
342 Doctor/Dentist Office							
361 Prison/Jail							
419 Residential	25	1.12%	29	1.48%		\$ 489,000	\$ 529,100
429 Multifamily dwelling	9	0.40%	2	0.10%		\$ 3,600	\$ 1,000
449 Hotel/Motel							
459 Residential Board and Care	1	0.04%					
460 Dormitory type residence	1	0.04%					
519 Food & Beverage Sales							
529 Textile, wearing apparel sales	1	0.04%				\$ 200	
549 Specialty Shop	1	0.04%				\$ 150,000	
557 Personal services	1	0.04%					
569 Professional supplies, services			2	0.10%			\$ 170,000
571 Service station, gas							
580 General Retail, Other			1	0.05%			\$ 250,000
580 General Retail, Other							
592 Bank							
593 Office, Veterinary			1	0.05%			\$ 500,000
599 Business Office							
659 Livestock production							
700 Manufacturing	6	0.27%	2	0.10%	\$ 60,000	\$ 220,100	\$ 30,000
808 Outbuilding or Shed	1	0.04%	1	0.05%			\$ 11,000
816 Livestock, Poultry Storage							
891 Warehouse			1	0.05%			\$ 25,000
926 Outbuilding, protective shelter			1	0.05%			\$ 700
931 Open Land Fill	1	0.04%					
U00 Undetermined/None							
<b>Total for all Structure Fires</b>	<b>52</b>	<b>2.32%</b>	<b>40</b>	<b>2.04%</b>	<b>\$ 60,000</b>	<b>\$ 965,900</b>	<b>\$ 1,516,800</b>

## FIRE LOSS COMPARISON - 2013 vs. 2014

Series	# of Incidents to Date	% of Total Incidents	Previous #	Year %	Estimated \$ Loss	Estimated \$ Loss to Date	Previous
Mobile Homes	0	0.00%	2	0.10%			\$ 3,500
Vehicle	12	0.54%	28	1.43%	\$ 1,000	\$ 132,400	\$ 128,030
Brush/Grass	43	1.92%	33	1.68%		\$ 1,100	\$ 1,600
Rubbish	23	1.03%	18	0.92%		\$ 1,400	
Outside Storage	1	0.04%	1	0.05%			
Cultivated Vegetation							
<b>Total for all Fires</b>	<b>131</b>	<b>5.85%</b>	<b>122</b>	<b>6.11%</b>	<b>\$ 61,000</b>	<b>\$ 1,100,800</b>	<b>\$ 1,649,930</b>
200 - Overpressure, Rupture, Explosion,	1	0.04%	2	0.10%			
300 - Rescue/EMS	1522	68.01%	1282	65.31%			
400 - Hazardous Condition (no fire)	91	4.07%	84	4.28%		\$ 30,000	\$ 5,800
500 - Service Call	107	4.78%	106	5.40%			
600 - Good Intent Call	102	4.56%	124	6.32%			
700 - False Alarm	284	12.69%	241	12.28%			\$ 200
800 - Severe Weather & Natural Disaster			2	0.10%			
900 - Special Incident Type							
<b>Total</b>	<b>2238</b>	<b>100.00%</b>	<b>1963</b>	<b>100%</b>	<b>\$ 61,000</b>	<b>\$ 1,130,800</b>	<b>\$ 1,655,930</b>

### Casualties

	# of Casualties for 7-day period	# of Casualties to date	Previous Year
Civilian - fire related incidents only			
Injuries			1
Deaths			
Fire Service			
Injuries		7	4
Deaths			

# DEPARTMENT TRAINING



The department conducts an extensive amount of in-house training and external training. In recent years the training program has undergone extensive updates and expansion to the ever changing needs of the public.

Training is delivered through a combination of classroom time as well as hand-on drill work. Generally speaking, the delivery of training is divided into a variety of delivery avenues including:

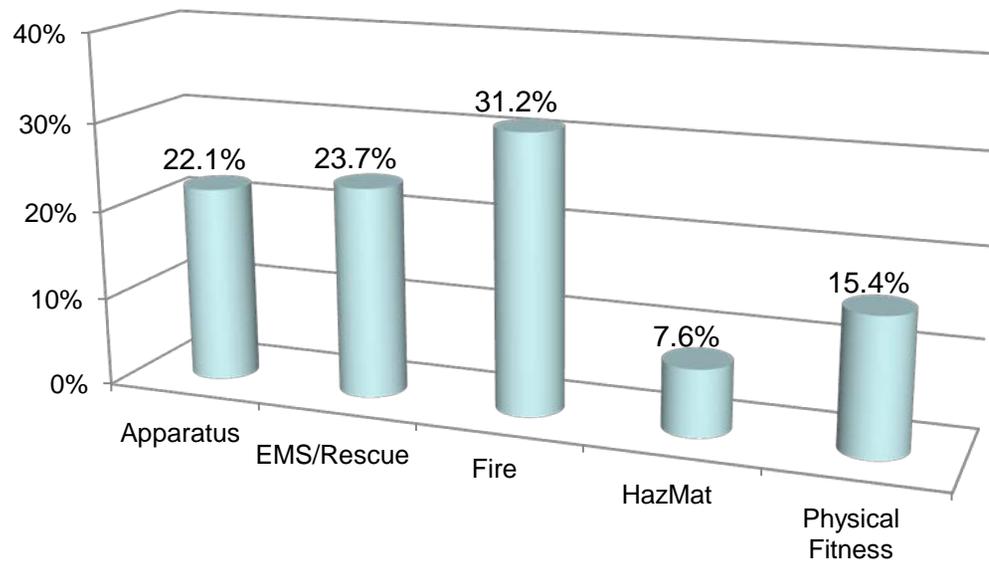
- Quarterly company drills
- Classroom instruction
- ISO/multi-company and night drills
- State/national level sponsored programs

The program has paid dividends in terms of more efficient and effective use of staffing and resources on the emergency scene while making the firefighter's job much safer.



# TRAINING HOURS BY CATEGORY

Apparatus	22.1%	3740.5
EMS/Rescue	23.7%	4018.0
Fire	31.2%	5287.0
HazMat	7.6%	1284.3
Physical Fitness	15.4%	2600.9
	100.0%	16930.8



# IN-SERVICE TRAINING

- Annual Confined Space
- Auto Extrication
- Haz-Mat Equipment Review
- Fire Apparatus Pumping
- Apparatus Driving Test
- Meth Lab Awareness
- Rail Road Safety Class
- Haz-Mat training with the Army National Guard
- Preplan Class and Tour of ConAgra
- Hose Lays & Relay Pumping
- Sprinkler Impairment Class
- Basic Rope Rescue
- Hydrant Maintenance



- Aircraft Extrication and Firefighting
- Crime Scene Preservation with RPD
- Ladder Truck Operations
- EMT Refresher
- Thermal Imager Operations
- Drafting & Standpipe Operations
- Defensive Driving
- ACLS & Cardiac Emergencies
- Paramedic Refresher
- Thermal Imager Orientation camera
- Radiological Monitoring and Route Alerting

# QUARTERLY COMPANY DRILLS

Every quarter all companies are evaluated by their battalion chief and the training officer with regard to their efficiency in firefighting operations.

## Company Drill Topics

- Hose lays including water supply and attack lines
- Ground ladder carries and raises
- Heavy fire stream operations
- Fire sprinkler and standpipe systems
- Fire engine pump operations
- Self contained breathing apparatus
- Engine company tactics and strategy
- Aerial ladder truck tactics and strategy
- Fire ground and emergency scene management/Incident Command System



# OUTSIDE TRAINING CERTIFICATIONS

- CPR Instructor
- Railroad Emergencies
- Aerial Operations
- Hazardous Materials Basic/Advanced Monitoring
- Haz-mat Technician Level Trainer Refresher
- PALS / ACLS Instructor
- EMT Instructor
- Fire Service Leadership
- ICS 300 & 400
- Fire Officer 1



# TRAINING PROGRAM HIGHLIGHTS

- Driver certification
- Rope rescue
- Haz-mat refresher training
- Monthly safety messages
- EMT certification of probationary firefighters
- Paramedic certification of one firefighter
- CEUs awarded by the department of Health



# PROJECTS FOR 2015

- Launch new Central Fire Station Project.
- Begin review process for compliance with revised 2014 ISO Fire Suppression Rating Schedule.
- Continue to expand and improve upon training programs.
- Expand fire prevention and administrative functions.
- Implement fire company-based target hazard inspection program.
- Continue fire station and apparatus improvements and upgrades.

