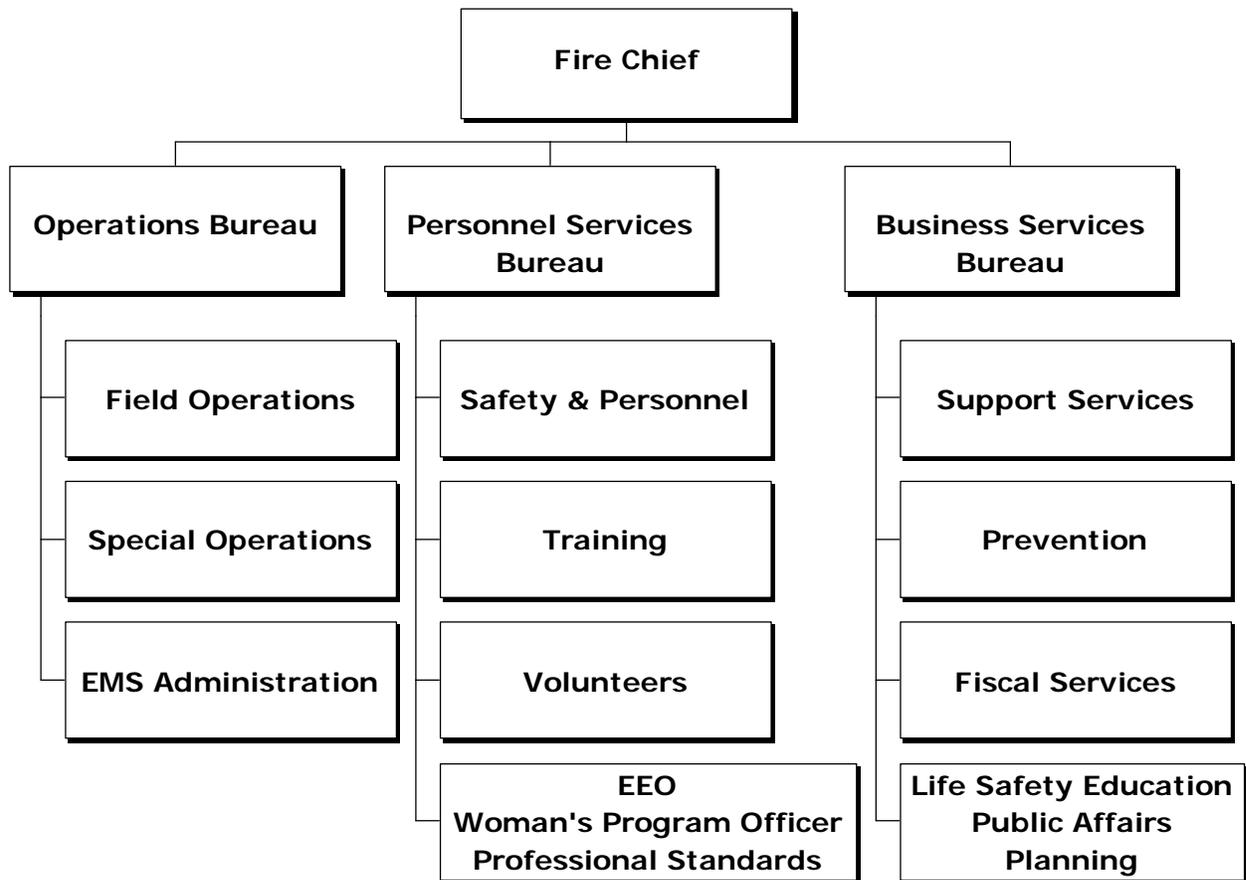


# Fire and Rescue Department



## Mission

To provide the highest quality services to protect the lives, property and environment of our community.

# Fire and Rescue Department



<b>AGENCY DASHBOARD</b>			
<b>Key Data</b>	<b>FY 2010</b>	<b>FY 2011</b>	<b>FY 2012</b>
1. Total incident responses	91,838	89,412	91,228
2. Total patients transported	47,228	47,840	48,990
3. AED response rate within 5 minutes (National Standard 90 percent)	58.32%	69.00%	56.47%
4. ALS transport unit on scene within 9 minutes (National Standard 90 percent)	82.60%	88.00%	85.04%
5. Engine Company on a structure fire within 5 minutes, 20 seconds (National Standard 90 percent)*	41.00%	60.00%	56.02%
6. 15 operational personnel on a structure fire within 9 minutes, 20 seconds (National Standard 90 percent)*	80.39%	81.52%	81.72%
7. Fire inspections conducted	15,468	19,251	17,917
8. Fire systems testing conducted	13,990	10,357	16,283
9. Total fire loss for commercial & residential structures (in millions)	\$16.4	\$16.6	\$6.0
10. Preschool and kindergarten students educated	19,500	21,364	21,773
11. Senior citizens educated	10,400	6,051	7,066
12. Preschool and kindergarten fire deaths	0	2	0
13. Preschool and kindergarten burn injuries	1	2	0
14. Senior citizen fire deaths	3	0	1
15. Senior citizen burn injuries	6	3	0

\* During FY 2011, the National Fire Protection Agency (NFPA) revised the standards adding 20 seconds to the turnout time measure for fire events. The measurement change was reflected in the FY 2012 performance measures, extending the metric of the 1st engine company on scene to a fire event to 5 minutes, 20 seconds and extending the measurement of 15 operational personnel on scene of a structure fire to 9 minutes, 20 seconds. The percentages from FY 2010 and FY 2011 reflect the previous standard.

# Fire and Rescue Department

## Focus

The Fire and Rescue Department (FRD) currently operates 37 fire stations. Fire stations are staffed full time by County personnel with supplemental services provided by volunteers. The department operates from an “all-hazards” platform and serves Fairfax County and its residents by suppressing fires; providing advanced life support; pre-hospital emergency medical care; rescue operations (i.e. searching for and rescuing persons who become trapped in fires, and extrication from vehicle accidents); and special operations, including the release or spill of hazardous materials, technical rescue (i.e. swift water rescue, building or trench collapse, high angle or rope rescue), marine operations (i.e. water rescue, boat fires, fuel spills) on the lower Potomac and Pohick Bay, and performing emergency planning. The Fire Marshal’s Office investigates fires, bombings and hazardous material releases. The department also supports regional, national, and international emergency response operations during disaster situations through maintaining and supporting the Urban Search and Rescue (USAR) Team (Virginia Task Force 1), the National Capital Region Incident Management Team, and other response groups.

Additionally, FRD provides critical non-emergency services such as educating the public on fire and personal safety issues, providing public information and prevention education, and enforcing fire

prevention and life safety codes in all public buildings. FRD also operates a number of facilities to ensure personnel are trained and prepared to perform the mission. The Fire and Rescue Academy provides firefighter, rescue, and emergency medical training and conducts citizen emergency response training. Two apparatus shops are staffed to ensure emergency response vehicles are safe and service-ready.

FRD actively engages at local, regional and national levels to meet the challenges of emergency response and prevention. Robust life safety education programs, concentrated enforcement of fire prevention codes and operational personnel dedicated to protecting lives were instrumental in the County achieving a zero fatality record in 2011; the first time this goal was achieved since the department was established in 1949. Regionally, FRD has built collaborative relationships with surrounding localities and organizations necessary for responding to emergency incidents regardless of jurisdictional boundaries and across public safety disciplines. The USAR Team is one of only two teams in the United States federally sponsored for international disaster response, last deploying internationally to assist the Japanese after the earthquake and tsunami of 2011.

Despite high demands for emergency services (over 91,000 incidents in FY 2012) and tightened financial resources, FRD has maintained its ability to meet core responsibilities while striving to remain on the cutting edge of safety and technological advancements. To fund many initiatives the department continually seeks alternative funding sources. During FY 2012, FRD was awarded in excess of \$6 million in grant funds. These funds are supporting a replacement of the electronic patient care reporting system, replacement of the vehicle extrication tool complement, installation of state-of-the-art interactive training systems in fire stations, and several regional initiatives aimed at achieving firefighter safety and interoperability with surrounding localities.

### The Fire and Rescue Department supports the following County Vision Elements:



***Maintaining Safe and Caring Communities***



***Creating a Culture of Engagement***



***Practicing Environmental Stewardship***



***Building Livable Spaces***

# Fire and Rescue Department

FRD is dedicated to being the best community-focused fire and rescue department and ensuring a safe and secure environment for all residents and visitors. To successfully meet challenges posed by increasing urbanization and a more densely populated response area, FRD will continue to be progressive in efforts to achieve economies of scale through regional cooperation, seek out innovative methods for keeping pace with technology, sustain programs to maintain a healthy workforce and adjust staffing configurations to meet the needs of future growth in Fairfax County.

## Budget and Staff Resources

Category	FY 2012 Actual	FY 2013 Adopted	FY 2013 Revised	FY 2014 Advertised
<b>FUNDING</b>				
Expenditures:				
Personnel Services	\$137,764,300	\$146,354,319	\$146,354,319	\$146,794,056
Operating Expenses	25,453,234	23,793,545	28,651,043	24,665,545
Capital Equipment	2,191	28,590	58,046	0
<b>Total Expenditures</b>	<b>\$163,219,725</b>	<b>\$170,176,454</b>	<b>\$175,063,408</b>	<b>\$171,459,601</b>
Income:				
Fire Prevention Code Permits	\$1,415,850	\$1,405,000	\$1,405,000	\$1,433,100
Fire Marshal Fees	3,548,364	3,600,000	3,600,000	3,654,000
Charges for Services	49,829	51,565	63,141	63,141
EMS Transport Fee	16,853,661	15,492,187	15,492,187	15,492,187
<b>Total Income</b>	<b>\$21,867,704</b>	<b>\$20,548,752</b>	<b>\$20,560,328</b>	<b>\$20,642,428</b>
<b>NET COST TO THE COUNTY</b>	<b>\$141,352,021</b>	<b>\$149,627,702</b>	<b>\$154,503,080</b>	<b>\$150,817,173</b>
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>				
Regular	1498 / 1498	1500 / 1500	1500 / 1500	1500 / 1500

This department has 18/18.0 FTE Grant Positions in Fund 50000, Federal/State Grants.

## FY 2014 Funding Adjustments

The following funding adjustments from the FY 2013 Adopted Budget Plan are necessary to support the FY 2014 program:

- ◆ **Employee Compensation** **\$2,048,056**  
 An increase of \$240,267 in Personnel Services in FY 2014 reflects longevity increases for uniformed employees. In addition, there is an increase of \$1,807,789 in Personnel Services to reflect the full year impact of FY 2013 compensation adjustments, including \$332,673 for merit and longevity increases for uniformed employees and \$1,475,116 for the 2.5 percent performance-based scale and salary increase, effective January 2013, for non-uniformed employees.
  
- ◆ **Large Apparatus and Ambulance Replacement** **\$1,000,000**  
 An increase of \$1,000,000 is required to support the first year of a multi-year process to gradually increase the annual contributions to the Large Apparatus Replacement Fund and Ambulance Replacement Fund. This funding is in addition to the department dedicating additional grant funds, additional baseline funds and one-time contributions in support of this effort. Additional contributions are required due to increasing cost of vehicles, some fleet growth, and a contribution level that has remained flat since FY 2007. Without additional funding, the replacement reserves will be depleted in FY 2016.

# Fire and Rescue Department

◆ **Reductions**

(\$1,736,319)

A decrease of \$1,736,319 reflects the following reductions utilized to balance the FY 2014 budget. In addition, while technically not a reduction, the opening of the Wolf Trap Fire and Rescue Station is being delayed for one more year, with a revised anticipated opening date of January 2015. The department will utilize the station for training during 2014. The necessary increases for staffing and equipment will be included in the FY 2015 budget:

Title	Impact	Posn	FTE	Reduction
Reduce Number of Students in Advanced Life Support School for One Year	In order for the department to provide existing ALS capability, 30 percent of all providers must be ALS certified. The department currently trains incumbent providers and actively recruits and hires already trained ALS providers in order to meet operational requirements. A \$1 million savings will require the number of participants to decrease from 15 to 6 in FY 2014. Based on current ALS numbers and paramedic hiring practices, FRD can sustain a reduction in ALS students for a one to two year period. Reductions continuing past the one to two year time frame will jeopardize FRD's ability to maintain the appropriate number of ALS providers. Without the adequate number of ALS providers, daily staffing will be compromised.	0	0.00	\$1,000,000
Realignment of Relief Positions	In order to ensure Fairfax County receives the same level of Fire and Rescue coverage daily, the department operates with minimum staffing levels. For FRD, the minimum staffing level is 334 personnel daily. This means there are 334 field personnel that must be on duty at all times. The proposed realignment would reclass 15 relief lieutenants to relief firefighters thus reducing the need for firefighter callback resulting in a reduction in callback overtime. This adjustment would have to be implemented through attrition, reclassing the positions as they become vacant. Based on the current department staffing configuration, leave usage, and injury rate trends, the Department projects that this realignment will net a cost savings. However, the relief pool is a dynamic and ever changing balance that is continually evaluated to ensure it is functioning optimally to maximize cost savings.	0	0.00	\$531,319

## Fire and Rescue Department

Title	Impact	Posn	FTE	Reduction
Fire and Rescue Department (FRD) Efficiencies	FRD has identified program efficiencies that will result in department-wide savings. The first efficiency is redesigning the overtime processes for Hazmat Logistics and Electronic Patient Care Reporting areas. A second efficiency is reducing uniform issuance to realize a savings. A third efficiency is redirecting a merit position to cover work currently covered by an existing Information Technology Contract. A fourth efficiency is eliminating Public Information Officer (PIO) on-call/incident presence, which is funded through overtime. As a result, FRD will no longer have a designated person "on-call" and available to respond to emergency incidents as the primary spokesperson to the press on large incidents. This process change will require officer's on-scene to respond to questions by the press. Because the primary function of officers' on-scene is to first mitigate the emergency incident, there could be a delay in responding to questions from the press resulting in a delay of information getting out to the public. A designated PIO would still be available Monday - Friday 8 hours a day, this reduction will impact after hours and weekend emergency incidents.	0	0.00	\$205,000

### Changes to FY 2013 Adopted Budget Plan

The following funding adjustments reflect all approved changes in the FY 2013 Revised Budget Plan since passage of the FY 2013 Adopted Budget Plan. Included are all adjustments made as part of the FY 2012 Carryover Review, and all other approved changes through December 31, 2012:

- ◆ **Carryover Adjustments** **\$4,886,954**  
As part of the *FY 2012 Carryover Review*, the Board of Supervisors approved encumbered funding of \$4,886,954 in Operating Expenses.

### Cost Centers

The four cost centers of the Fire and Rescue Department are Bureau of the Fire Chief, Operations Bureau, Business Services Bureau, and Personnel Services Bureau. The cost centers work together to fulfill the mission of the department and carry out key initiatives for the fiscal year.

# Fire and Rescue Department

## Bureau of the Fire Chief

The Bureau of the Fire Chief manages and coordinates all aspects of the Fire and Rescue Department which includes directing overall policy, planning and management of the department. The Fire Chief is the highest uniform position within the Fire Department and is responsible for the delivery of services to the community.

Category	FY 2012 Actual	FY 2013 Adopted	FY 2013 Revised	FY 2014 Advertised
<b>EXPENDITURES</b>				
Total Expenditures	\$486,524	\$666,592	\$671,056	\$672,903
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>				
Regular	4 / 4	4 / 4	4 / 4	4 / 4
1 Fire Chief 1 Battalion Chief 1 Captain II 1 Administrative Assistant V				
<b>TOTAL POSITIONS</b>				
4 Positions / 4.0 FTE				
3 Uniformed / 1 Civilian				

## Operations Bureau

The Operations Bureau is comprised of the Field Operations Division, Emergency Medical Services Administration Division and the Special Operations Division. The goal of the Operations Bureau is to save lives and protect property by providing emergency and non-emergency response to residents and visitors of Fairfax County. The Operations division operates on three separate 24-hour rotation shifts. Each shift is led by a Deputy Fire Chief. The county is separated geographically into seven battalions, each managed by a battalion management team of a Battalion Fire Chief and EMS Captain. Fire suppression personnel and paramedics work in tandem to ensure the highest level of safety and care for residents and visitors of Fairfax County.

Category	FY 2012 Actual	FY 2013 Adopted	FY 2013 Revised	FY 2014 Advertised
<b>EXPENDITURES</b>				
Total Expenditures	\$130,853,646	\$137,929,286	\$139,504,194	\$139,163,493
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>				
Regular	1251 / 1251	1251 / 1251	1251 / 1251	1251 / 1251
1 Assistant Fire Chief                      214 Lieutenants, 3 AP                      3 Management Analysts I 5 Deputy Fire Chiefs                      550 Fire Technicians                      1 Administrative Assistant IV 23 Battalion Chiefs                      310 Firefighters                      2 Administrative Assistants III 59 Captains II                      2 Management Analysts III                      1 Material Management Assistant 79 Captains I, 2 AP                      1 Financial Specialist II				
<b>TOTAL POSITIONS</b>				
1,251 Positions / 1,251.0 FTE				
1,241 Uniformed / 10 Civilians				

AP Denotes Alternative Placement Program

# Fire and Rescue Department

## **Business Services Bureau**

The Business Services Bureau consists of the Fire Prevention Division, Fiscal Services Division, Planning Section, Public Affairs and Life Safety Education Section and the Support Services Division. Business Services functions are critical to ensuring the Operations Bureau has the resources needed to respond to emergency incidents. Life safety education and fire prevention activities support the department mission by providing programs and events to the community.

<b>Category</b>	<b>FY 2012 Actual</b>	<b>FY 2013 Adopted</b>	<b>FY 2013 Revised</b>	<b>FY 2014 Advertised</b>
<b>EXPENDITURES</b>				
Total Expenditures	\$19,408,579	\$19,615,048	\$21,843,991	\$19,570,468
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>				
Regular	180 / 180	182 / 182	182 / 182	182 / 182
1 Assistant Fire Chief 2 Deputy Fire Chiefs 4 Battalion Chiefs 5 Captains II 16 Captains I 14 Lieutenants 1 Fire Apparatus Supervisor 1 Asst. Fire Apparatus Supr. 9 Fire Technicians, 3 AP 9 Fire Apparatus Mechanics 3 Firefighters, 3 AP 1 IT Program Manager I 1 Management Analyst IV 1 Engineer IV 2 Programmer Analysts III 1 Business Analyst III 7 Engineers III	1 Network/Telecom Analyst III 1 Program and Procedure Coordinator 1 Public Safety Information Officer IV 6 Financial Specialists III 1 Geographic Information Spatial Analyst III 1 Management Analyst III 1 Network Telecom Analyst II 1 Geographic Information Spatial Analyst II 1 Programmer Analyst 1 Buyer II 2 Code Specialists II 1 Financial Specialist II 4 Management Analysts II 2 Network/Telecom Analysts I 5 Fire Inspectors III 2 Financial Specialists I 1 Inventory Manager	1 Management Analyst I 36 Fire Inspectors II 1 IT Technician III 1 Instrumentation Technician III 1 Vehicle Maintenance Coordinator 1 Administrative Assistant V 2 Instrumentation Technicians II 4 Administrative Assistants IV 2 Life Safety Education Specialists 3 Material Management Specialists III 5 Administrative Assistants III 3 Engineering Technicians I 2 Material Management Specialists II 1 Material Management Driver 1 Material Management Specialist I 1 Storekeeper 1 Truck Driver 6 Administrative Assistants II		
<b>TOTAL POSITIONS</b>				
182 Positions / 182.0 FTE				
54 Uniformed / 128 Civilians				

AP Denotes Alternative Placement Program

# Fire and Rescue Department

## Personnel Services Bureau

The Personnel Services Bureau includes the Safety and Personnel Services Division, Training Division and Volunteer Liaison's Office. This bureau strives to provide a representative work force through equal employment opportunity, active recruitment of qualified applicants and volunteers, basic training, professional certifications and continuing education. They are responsible for occupational safety, health and wellness, payroll and human resources functions.

Category	FY 2012 Actual	FY 2013 Adopted	FY 2013 Revised	FY 2014 Advertised
<b>EXPENDITURES</b>				
Total Expenditures	\$12,470,976	\$11,965,528	\$13,044,167	\$12,052,737
<b>AUTHORIZED POSITIONS/FULL-TIME EQUIVALENT (FTE)</b>				
Regular	63 / 63	63 / 63	63 / 63	63 / 63

1 Assistant Fire Chief	2 Human Resources Generalists III	1 Business Analyst I
2 Deputy Fire Chiefs	1 Internal Affairs Investigator	2 Human Resource Generalists I
1 Battalion Chief	2 Management Analysts III	1 Administrative Assistant V
5 Captains II	4 Nurse Practitioners/Physician Assts.	6 Administrative Assistants IV
11 Captains I	2 Human Resource Generalists II	2 Administrative Assistants III
12 Lieutenants	2 Management Analysts II	1 Facility Attendant
2 Management Analysts IV		3 Administrative Assistants II

### TOTAL POSITIONS

63 Positions / 63.0 FTE  
32 Uniformed / 31 Civilian

## Key Performance Measures

Indicator	Prior Year Actuals			Current Estimate FY 2013
	FY 2010 Actual	FY 2011 Actual	FY 2012 Estimate/Actual	
<b>Operations Bureau</b>				
Patients transported	47,228	47,840	48,000 / 48,990	49,000
Percent ALS transport units on scene within 9 minutes	82.60%	88.00%	85.00% / 85.04%	85.00%
AED response rate within 5 minutes	58.32%	69.00%	60.00% / 56.50%	60.00%
Total incidents responded to	91,838	89,412	92,000 / 91,228	92,000
Fire suppression response rate for the arrival of an engine company on a structure fire within 5 minutes	41.00%	60.00%	60.00% / 56.02%	60.00%
Fire suppression response rate for 15 personnel within 9 minutes	80.39%	45.00%	80.00% / 81.72%	80.00%
Percent of cardiac arrest patients arriving at the Emergency Department with a pulse	35.0%	39.5%	30.0% / 51.4%	30.0%
Fire loss (millions)	\$16.4	\$16.6	\$25.0 / \$6.0	\$25.0
Fire loss as percent of total property valuation	0.01%	0.01%	0.01% / 0.00%	0.01%
Total civilian fire deaths	7	3	5 / 1	5
Civilian fire deaths per 100,000 population	0.67	0.28	0.50 / 0.10	0.50
Civilian fire-related burn injuries	23	39	25 / 7	25
Civilian fire-related burn injuries per 100,000 population	2.2	3.6	2.5 / 0.7	2.5

## Fire and Rescue Department

Indicator	Prior Year Actuals			Current Estimate
	FY 2010 Actual	FY 2011 Actual	FY 2012 Estimate/Actual	FY 2013
<b>Business Services Bureau</b>				
Preschool and kindergarten students served	19,500	21,364	20,000 / 21,773	20,000
Senior citizens served	10,400	6,051	10,000 / 7,066	10,000
Children (5 years and under) deaths due to fire	0	2	0 / 0	0
Children (5 years and under) burn injuries	1	2	5 / 0	5
Senior citizen (over age 60) deaths due to fire	3	0	0 / 1	0
Senior citizen (over age 60) burn injuries	6	3	5 / 0	5
Fire investigations conducted (including arson cases)	312	306	300 / 260	275
Hazardous materials cases investigated	425	425	425 / 399	400
Fire inspection activities conducted	15,468	19,251	19,000 / 17,917	18,000
Systems testing activities conducted	13,990	10,357	11,000 / 16,283	16,200
Revenue generated for all inspection activities	\$3,095,183	\$4,167,960	\$4,217,000 / \$4,269,383	\$4,317,000
Percent of fire prevention services cost recovered	97.3%	98.7%	95.0% / 89.6%	83.8%
Percent total fire investigation cases closed (fires, bombings, threats and arson)	64.1%	66.0%	60.0% / 68.1%	60.0%
Percent arson cases closed	23.8%	49.2%	30.0% / 37.7%	30.0%
Percent hazardous materials cases closed	96.7%	60.0%	70.0% / 60.2%	70.0%
Total fire loss for commercial structures	\$3,876,924	\$2,872,040	\$2,500,000 / \$234,239	\$2,500,000
Transport billing (in millions)	\$14.2	\$14.1	\$15.4 / \$16.8	\$16.6
<b>Personnel Services Bureau</b>				
Hours of direct service	81,062	88,310	89,000 / 90,624	90,000
Times volunteer-staffed emergency vehicles are placed in service annually	1,680	1,681	1,680 / 1,683	1,700
Trained career firefighters added to workforce	19	29	54 / 51	54

A complete list of performance measures can be viewed at [www.fairfaxcounty.gov/dmb/fy2014/advertised/pm/92.pdf](http://www.fairfaxcounty.gov/dmb/fy2014/advertised/pm/92.pdf)

# Fire and Rescue Department

## Performance Measurement Results

Fairfax County Fire and Rescue Department has identified a four-pronged approach to a total community fire and life safety program:

- Public Fire and Life Safety Education
- Emergency Fire Response
- Emergency Medical Response, and
- Fire Prevention Inspections and Code Enforcement

In Virginia, fires are the fourth leading cause of unintentional injury or death. The Life Safety Education program educates high-risk populations including more than 21,000 preschoolers, 10,000 school-age children, and 7,000 older adults in an effort to eradicate fire deaths and burn injuries. In CY 2012, there were 0 fire fatalities, the first time this goal was achieved since the department was established in 1949.

In FY 2012, Operations responded to 91,228 incidents, a 2 percent increase over FY 2011. The Fire and Rescue Department reports cardiac arrest outcomes using the Utstein template, the international standard for cardiac arrest reporting, as it more accurately reflects the population of patients for whom pre-hospital interventions have the most impact. The strongest predictor of survival is the return of spontaneous circulation (a pulse) prior to arrival at a hospital; as reported by the National Association of EMS Physicians, the national average is 23 percent. The Fire and Rescue Department's performance outcome of 51.4 percent achieved in CY 2012 and the 30 percent outcome goal exceeds national averages.

The National Fire Protection Association (NFPA), a standard-setting organization for fire departments, adopts standards regarding response time objectives and staffing levels. The Service Quality indicators reported by the Fire and Rescue Department track the percent of time the department meets NFPA standards. NFPA response standards require the first engine company to arrive on the scene of a structure fire within five minutes, 60 percent of the time and 15 firefighters arrive on the scene of a structure fire within nine minutes, 90 percent of the time.

Fire Prevention Services Section activities are designed to minimize property loss in commercial (non-residential) fires through effective and comprehensive inspections that enforce all applicable codes. The FY 2012 commercial fire loss was \$234,239 which is significantly lower than the stated objective goal of less than \$2.5 million. However, this fire loss should be considered an anomaly. FY 2013 estimates for commercial fire losses are \$2.5 million.

Maintaining a well-trained fully staffed workforce is key to our ability to function as a department. The Training Division graduated 51 career firefighters during FY 2012 of which 26 were medics. Additionally, the volunteers have seen resurgence in community service which has created an opportunity to contribute a steadily increasing amount of direct service hours. The overall number of operational volunteers continues to increase, resulting in an all-time high for total service hours.