

## FACT SHEET

### FIRE AND RESCUE DEPARTMENT AND COUNTY PROGRESSION

#### FIRE STATION GROWTH

- June 2006: Fairfax Center
- May 2007: Crosspointe
- October 2013: Wolftrap

#### COUNTY GROWTH

County Growth Census Data	CY 2004	CY 2013	Difference	Percent Increase
Population*	1,022,300	1,111,600	89,300	8.74%
Housing Units	378,600	409,100	30,500	8.06%
Industrial Square Footage	41,150,059	44,513,908	3,363,849	8.17%
Office Square Footage	102,844,513	125,546,209	22,701,696	22.07%
Retail Square Footage	48,147,367	53,923,917	5,776,550	12.00%

\* Population density maps and breakdown of Population by Supervisor District attached

#### APPARATUS COST HISTORY

Vehicle Type	FY2003 - FY2004 Costs	FY2013 - FY2014 Costs	Difference	Percent Increase
Ambulance	\$138,418	\$284,591	\$146,173	105.6%
Engine	\$414,785	\$667,590	\$252,805	60.9%
Rescue	\$436,627	\$761,480	\$324,853	74.4%
Tower Ladder	\$568,804	\$734,988	\$166,184	29.2%
Aerial Ladder	\$588,257	\$1,104,196	\$515,939	87.7%
Tanker	\$284,423	\$519,601	\$235,178	82.7%

Increases are a result of a combination of three factors – emissions standards, safety regulations and material costs.

- **Emissions Standards** - more stringent EPA regulations governing diesel engine emissions took effect in 2007 and again in 2010. While these regulatory requirements caused diesel engine manufactures to change technologies, it also required apparatus manufactures to engineer major vehicle cab redesigns to accommodate new diesel engine emissions standards. Redesigns, combined with higher costs of EPA compliant diesel engines, increased the cost of an engine by \$20,000 in 2007 and another \$30,000 in 2012. Stricter emissions standards and fuel efficiency regulations continue to be phased in resulting in increasing costs.
- **Safety Regulations** - changes in National Fire Protection Association Standards for Automotive Fire Apparatus (NFPA #1901). The standard, revised in 2009, added requirements for vehicle data recorders, rollover stability, portable equipment and cab-integrity testing. These enhancements, adding an additional \$10,000 to vehicle costs, have made emergency vehicles safer for responding and operating at incidents.
- **Material costs** - escalations between three and five percent annually due to the rising cost of raw materials.