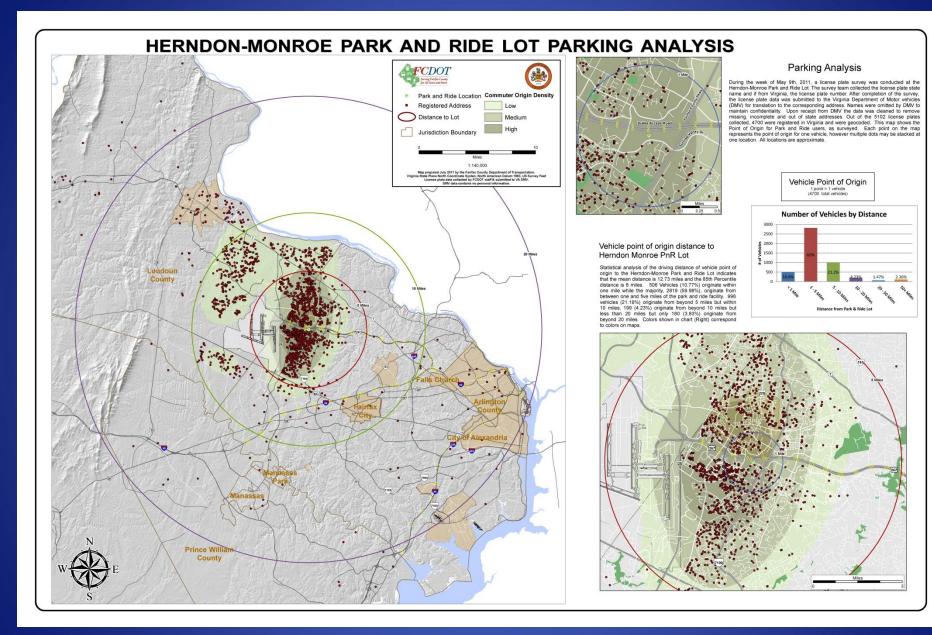
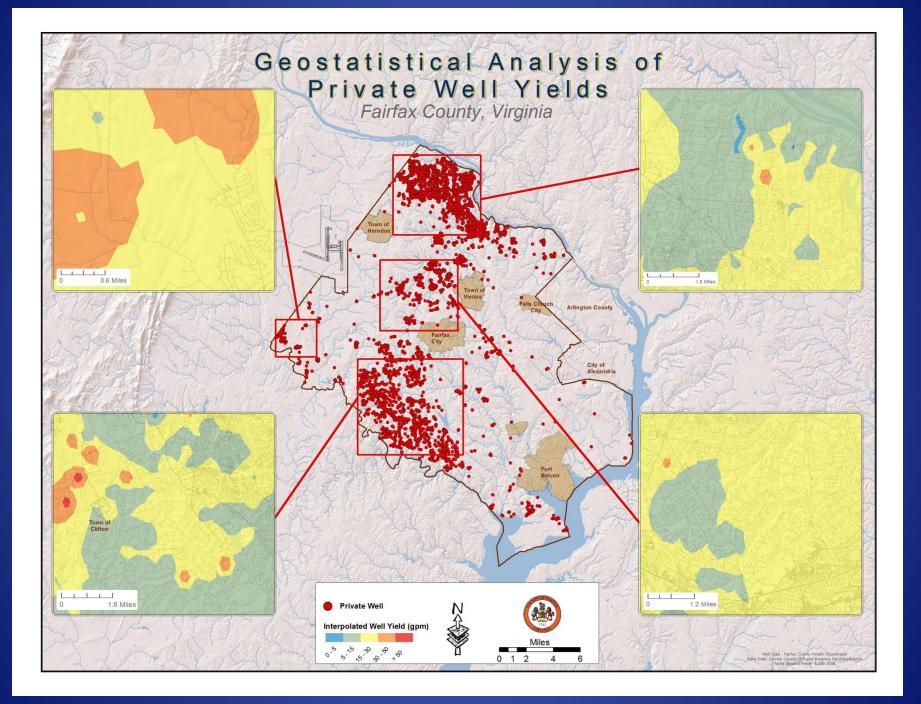
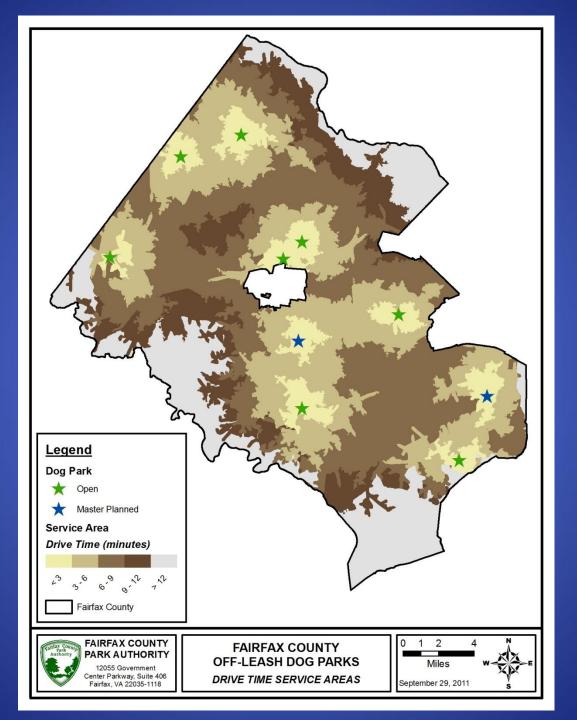


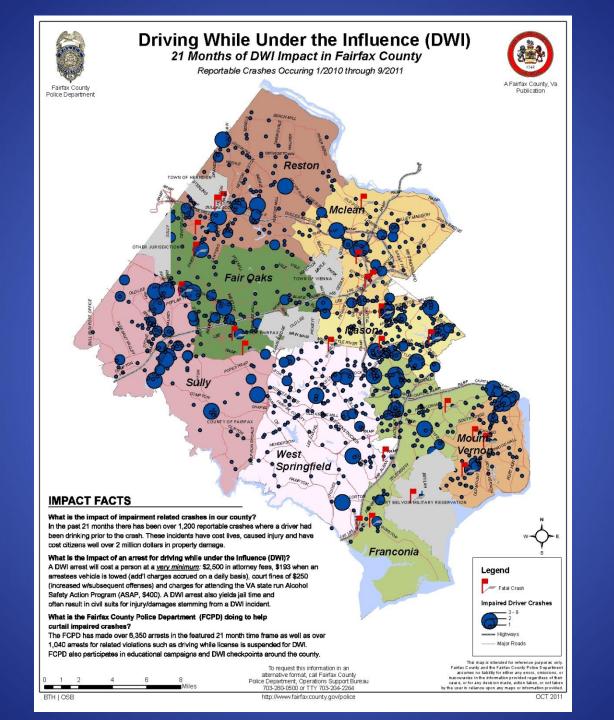
# Welcome to the GIS Excellence Awards 2011

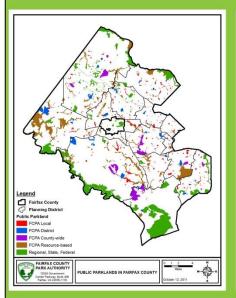
## Mapping Excellence in Fairfax County

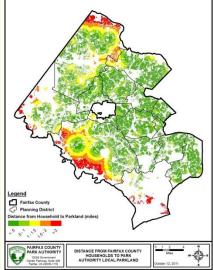


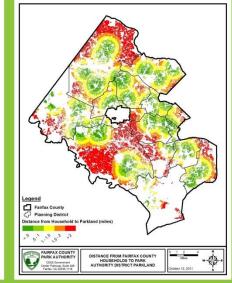


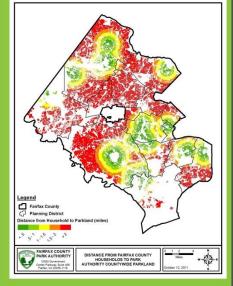










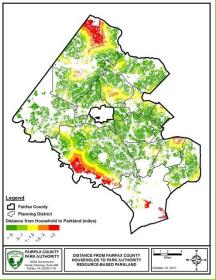


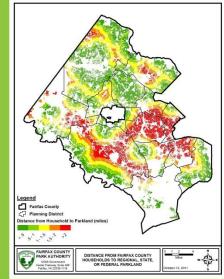
# How close to public parkland are Fairfax County residents?

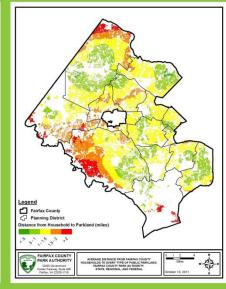
In order to answer this question, the Park Authority developed a GIS analysis methodology that calculated the linear distance from every residential home to every one of its offered park types: Local, District, Countywide, and Resource-Based.

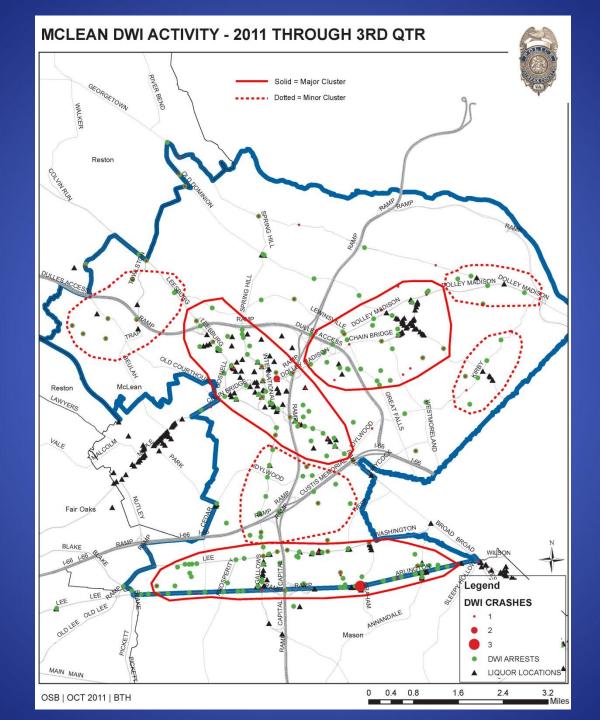
Regional, State, and Federal parks were also included to better illustrate the true accessibility of residents.

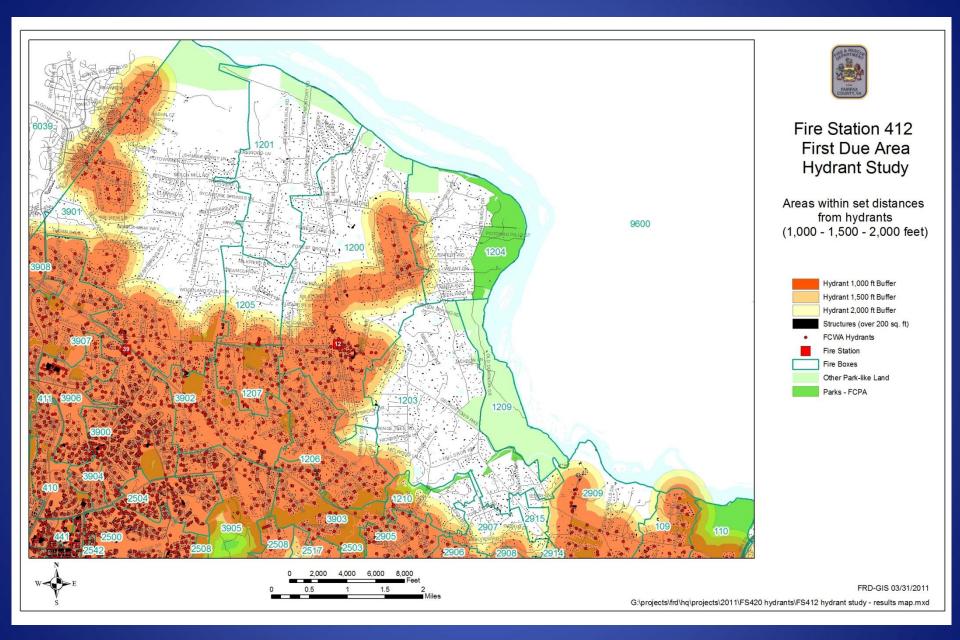
The results? It's pretty green in Fairfax County.

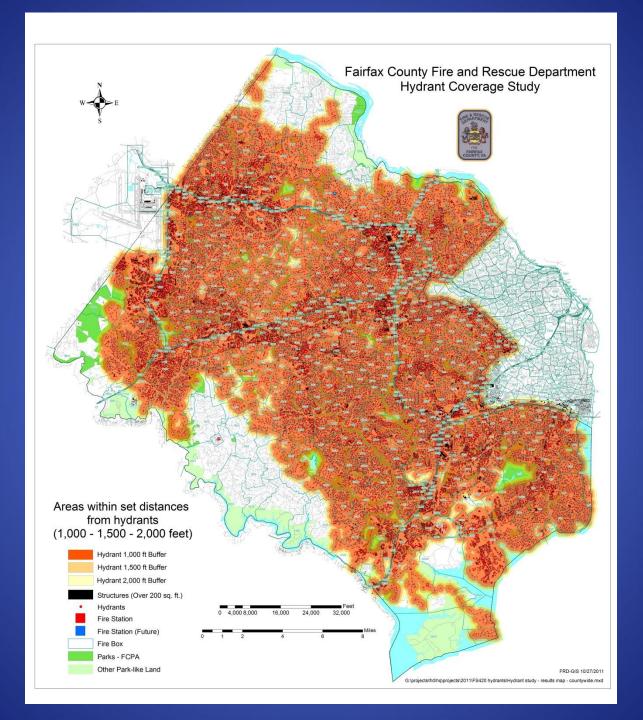


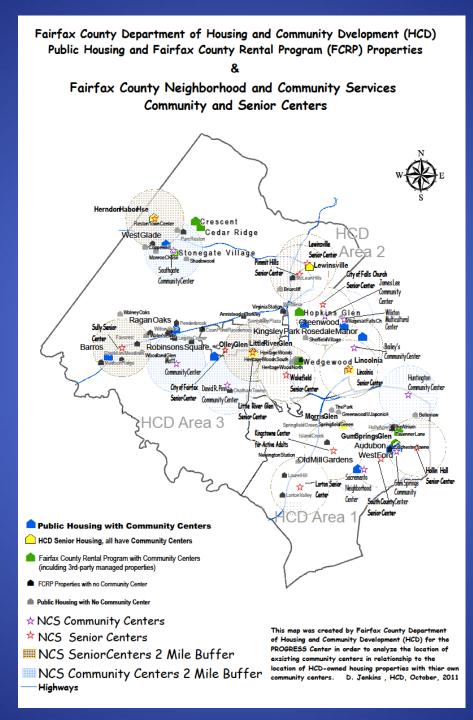


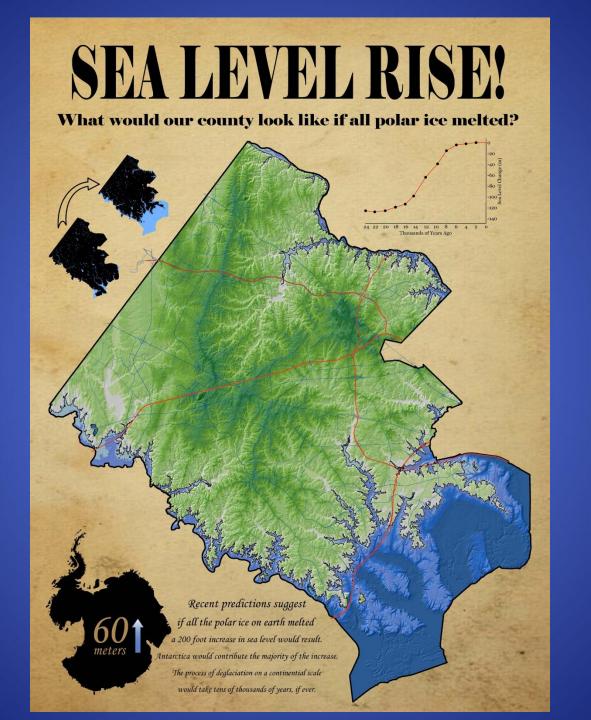




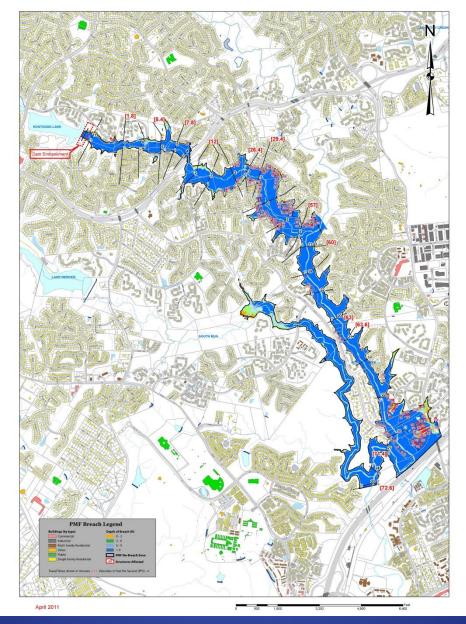








Huntsman Lake (Dam Site No. 8) Overtopping Breach Zone [PMF] Depths,Travel Times, and Velocities





#### Land Cover and Hydrologic Soil Group Acreage Estimation







Land Cover



Hydrologic Soil Groups

#### **Project Area Boundary**

The below groprocessing model was created to assist engineers in calculating pre-development runoff coefficient inputs to the Virginia Runoff Reduction Method.

Model Description

The model extracts land ever and hydrologic soil group (BSG) data within the defined project area o determine acreage of each tand ever exisgery and HSG combination. The final output is a table folling the acreage combinations above to the right. The area exclusions are then used as inputs for arther processing. All intermediate and final output is saved to a user defined gredatabase.

Land cover categories include impervious surface, managed turf and forest cover. Planimetric data makes up the imperviews surface data and the 2002 forest habitat investory is source for forest cover. All where area its the project series is assumed managed turf. Hydrologic soil group (A, B, C, D) data is sourced from the USDA.

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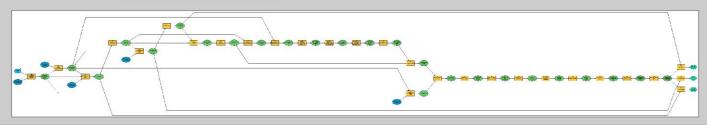
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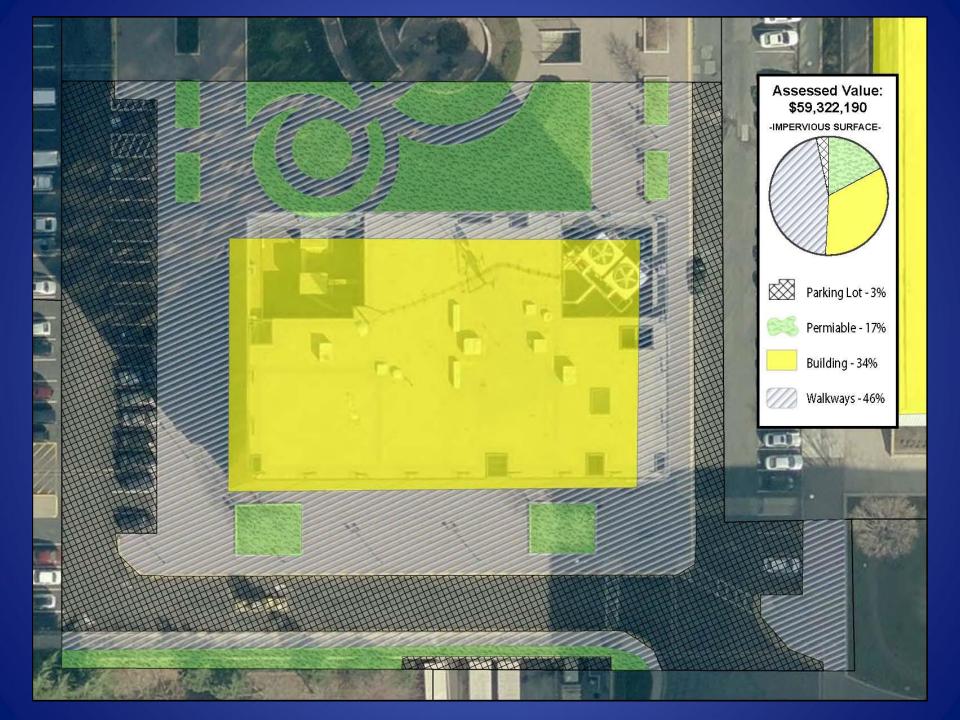
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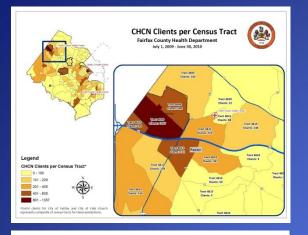
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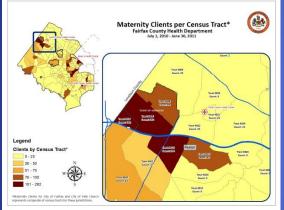
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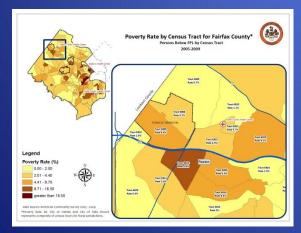
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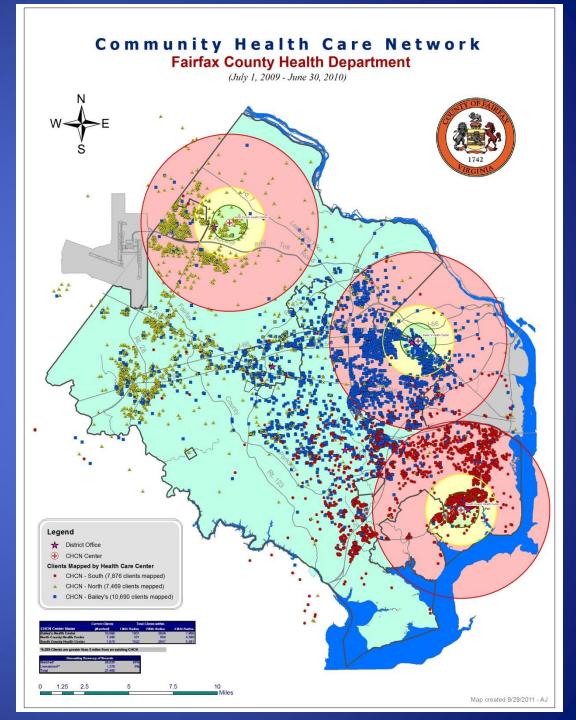














### **Food Insecurity in Fairfax County**

Anne Pickford Cahill, Chief Demographer, Fairfax County Neighborhood and Community Services Komail Khaja, Intern, Fairfax County Neighborhood and Community Services

Supplemental Nutrition

**Assistance Program (SNAP)** 

Nationwide, 52 percent of the households that re-

ceived Supplemental Nutrition Assistance Program

(SNAP) benefits were food insecure and 20 percent had very low food security (ERS, Sept, 2011). In

Fairfax County and the cities of Fairfax and Falls

Church, SNAP (formerly called food stamps) served

nearly 23,000 households in October 2011. Of those

households receiving SNAP benefits, half contained

children under the age of 18 years and a quarter con-

tained a senior age 65 years or older. Three-quarters

English at home, 15.3 percent spoke Spanish and 9.2

households receiving SNAP benefits was 2.40 per-

sons, smaller than the average household size of all

households in Fairfax County-2.75 persons.

For this analysis, children are defined as persons

English at home and only 3.3 percent spoke a lan

younger than 18 years. Spanish (27.2 percent) was

more likely to be spoken at home among the house-

holds with children that receive SNAP benefits. Al-

guage other than English or Spanish. Very few of the

households with children contained a senior, age 65

years or older (1.5 percent). Nearly 60 percent of these households with children contained only one

adult, age 18 years or older. The average size of a

was 2.02 children.

evenly throughout the county.

household with children that received SNAP benefits.

was 3.53 persons and the average number of children

most 70 percent of the households with children spoke

percent spoke other languages. The average size of all

of the households receiving SNAP benefits spoke

The Economic Research Service (ERS) of the U.S. Department of Agriculture defines food insecurity as "limited or uncertain availability of nutritionally adequate and safe foods or limited or uncertain ability to acquire acceptable foods in socially acceptable ways without resorting to emergency food supplies, scavenging, stealing, or other coping strategies." Persons with very low food security include those where the "eating patterns of one or more household members were disrupted and food intake reduced because the household lacked money and other resources for food during a twelve month period."

lack households 25.1% children 25.4% 35.1% All households

Prevalence of Food Insecurity, 2010 A national study conducted by ERS in 2010 found that 14.5 percent of the households in the United States were food insecure at least some time during the previous year and 5.4 percent had very low food security. Single-parent households and households with Black or Hispanic heads were more likely to experience food insecurity. In addition, 59 percent of food insecure households reported that they had participated in one or more of the three largest Federal food and nutrition assistance programs - SNAP (Supplemental

Nutrition Assistance Program) formerly called food stamps; the National School Lunch Pro-gram; and WIC (Supplemental Nutrition Program for Women, Infants, and Children). (ERS, Household Food Security in the United States in 2010, Report No. 125, September 2011.)

#### Free and Reduced Lunch Program

25.1% to 50% 50.1% to 75% Genter than 75

Nationally 48 nercent of the households that received free- or reducedcost lunches were food insecure and 15.6 percent had very low food security (ERS, Sept. 2011). During the 2010-2011 school year, 44,018 (25.5 percent) Fairfax County Public School students received free- or reduced-price lunches More than half of these students (24 290) were in elementary school. Fairfax County has 139 elementary schools. In 28 of these ele mentary schools more than half of the membership received free- or reducedprice lunches. In five elementary schools, more than three-quarters of the children received free- or reduced-price lunches

Reduced- Price Lunches, School Year 2010-11

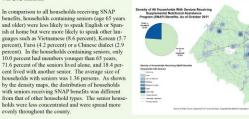
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Percent of Elementary Students Recieving Free- or









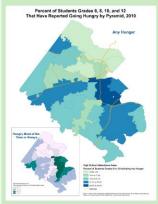
#### Sixth, Eighth, Tenth and Twelfth Grade Students Who Reported Going Hungry in the Past 30 Days



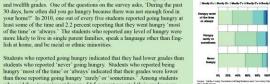
Source Facilies Country Department of Heigh

students who said they were hungry 'rarely' or 'sometimes,' 33.9 percent reported their grades were mostly A's; and among students who said they were hungry 'most of the time' or 'always,' 29.0 percent reported their grades as mostly A's.

School pyramids where the highest levels of hunger were reported were located inside of I-495 south of the City of Falls Church, along the I-95 and Richmond Highway corridors, and in the Centreville area.



### Fairfax County conducts an annual survey of students in sixth, eighth, tenth



Students who reported going hungry indicated that they had lower grades than students who reported 'never' going hungry. Students who reported being hungry 'most of the time' or 'always' indicated that their grades were lower than those reporting going hungry 'rarely' or 'sometimes.' Among students who said they 'never' went hungry, 54.5 percent reported their grades were mostly A's: among

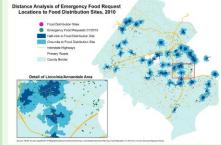
lish at home, and be racial or ethnic minorities

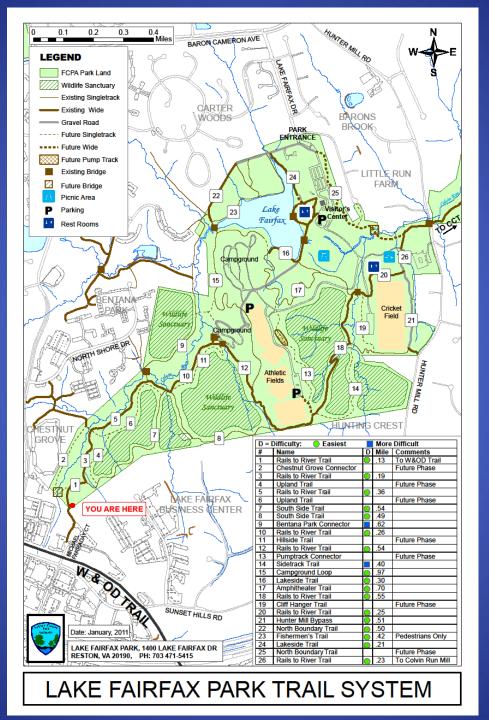
#### **Emergency Food Requests**

Coordinated Services Planning (CSP) was established to handle urgent human servicesrelated situations. CSP coordinators assess these situations over the telephone and connect residents with personal, community-based and public resources to meet their basic and immediate needs. During calendar year 2010, CSP received over 22,500 requests for basic needs

help; over a quarter of these requests (6,015) were for emergency food. Many of the requests for food are met using community-based resources such as food pantries and distributions from motor vehicles. In 2010, 14.2 percent of the food requests came from addresses within a half mile of a food distribution site and 42 percent were within a mile of a food distribution site







### THE DEPARTMENT OF PLANNING & ZONING



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#### Fairfax County Agricultural and Forestal Districts



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As part of DPZ's Historic Preservation efforts we utilized GIS to create a map that depicts the County's Historic Districts and the Inventory of Historic Sites Map..

The agency maintains the History Commission website on which we developed a Historical Roadside Markers Map via the use of GIS generated clickable maps for navigation

### The Department of Planning and Zoning (DPZ) Website

The Department of Planning and Zoning (DPZ) has focused on making the DPZ website increasingly user-friendly, providing quick access to important, relevant and timely information to the public in large part by using and incorporating GIS data throughout the site.



Fairfax County and Tysons Corner Active Zoning Applications Interactive Maps provide a geographic view of applications under review by the DPZ using the GIS server to create an interactive map of active zoning cases linking to Land Development System (LDS) information and staff reports for active zoning cases

As part of the County's Area Plan Review (APR) of the Comprehensive Plan Process, we developed GIS generated clickable maps which access individual nominations in both the North and South portions of the county.



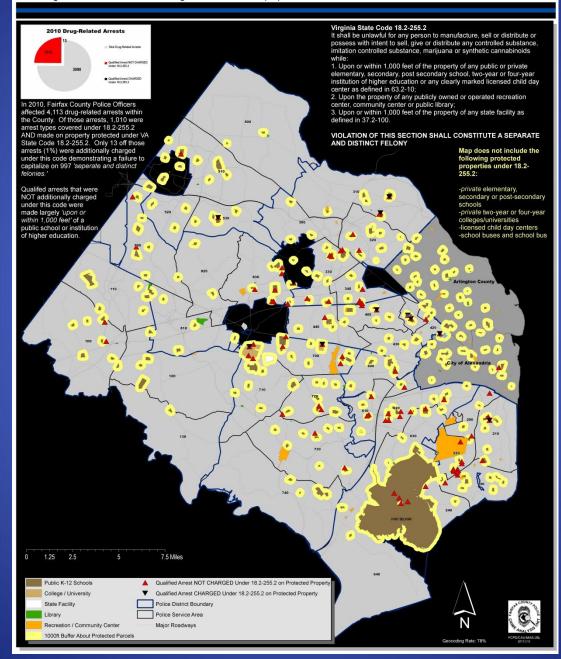


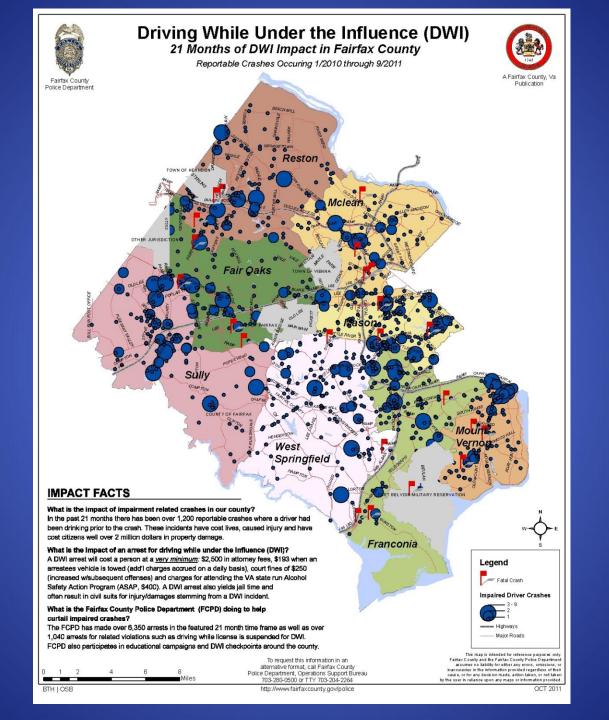


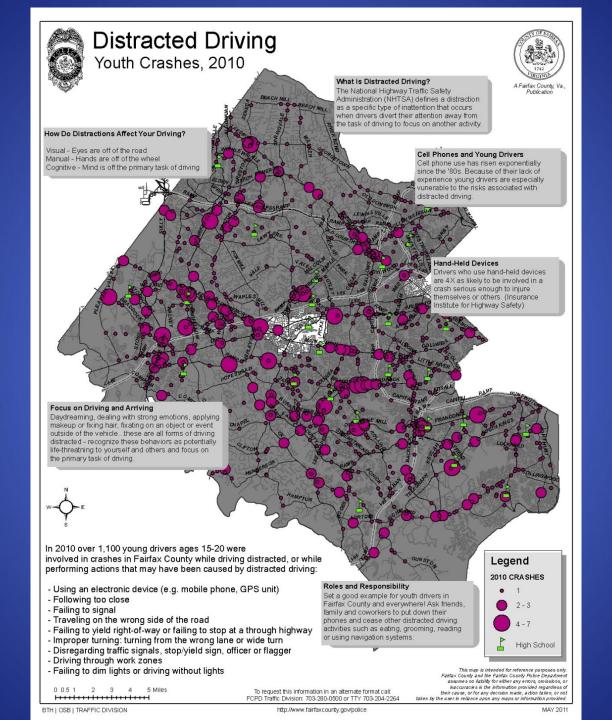


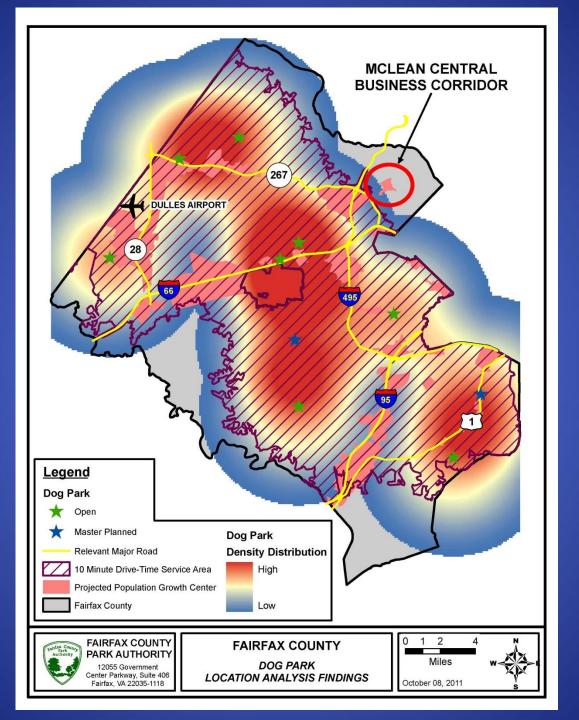
### 2010 Drug-Related Arrests and Felony Charge Disparity on Fairfax County Properties Protected by Virginia State Code 18.2-255.2

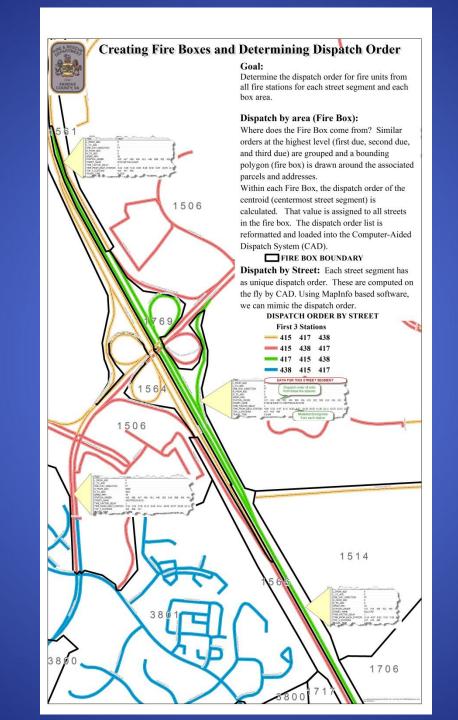
Prohibiting the sale or manufacture of drugs on or near certain properties



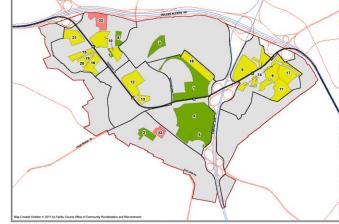




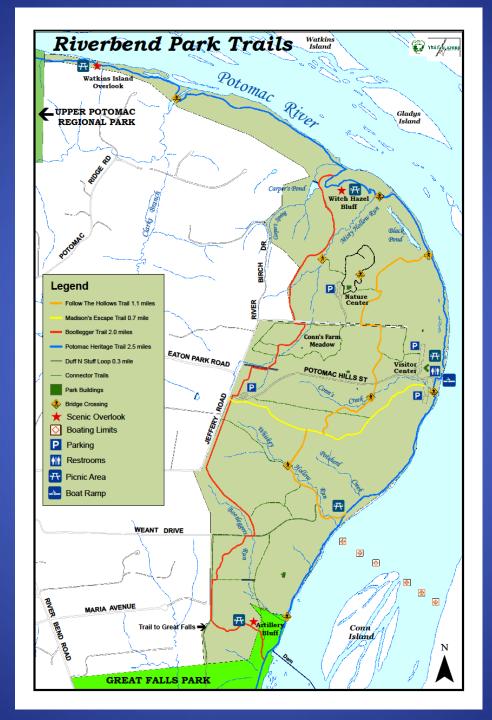




### **Tysons Corner Overview**



Gentile for Staff circulation only the hetriceds has electrony transpole interved Development Plan: Tyrees II (PCA 84:D-069-5) - CDPFDP Overall Plan: 9/19/2001 Boone Boulevard' Tycon Tower II & III (PCA C-597-04) - Prelamo Parkerent (FCA 2002-FR-016-02) - Site Plan : 4/99/2010 Tyrona Corner Center (RZ 2004-PR-044) - Overall Plan, 🛫 Towers Crescent (RZ 2006-PR-028) -Overall Landscape Plan : 9/17/2007 MITRE – Building 4 (PCA 93-P-001-7) – not depicted
 Spring IBB Stations (Georgelus) (RZ 2010-PE-014A) – Overall Plan – Update to staff: Jan, 2011 ipring Hill Station (Georgelas) (RZ 2010-PR-0148) - Overall Plan - Update to staff: Jan, 2011 pted Development Plans (as of August, 2011) Capital One (RZ 2010-PR-021) - CDP Master Plan: 6/30/2011 0. Spring Hill Station (Georgelas) (RZ 2010-FR-014C) – Overall Plan – Update to staff : Jan, 2011 11. MITRE - Beilding \$ (RZ 2010-PR-023) - CDP/FDP Plan : 7/15/2010 2. Solutions Plaza (SAEC/Dimese) (RZ 2010-PR-022) - CDP Illustrative Plan: 6/30/2011 3. Tytons Centrel (NV Commercial/Clyde's) (RZ 2011-PR-005)- CDP/PDP Plan: 10/29/2010 14. Scotts Ram Station (CityLine) (RZ 2011-PR-009/010/011)- Scotts Ran Vision - Master Plan : 8/31/201 5. Dominion Square (CARS) (RZ 2011-8M-012) - CDP - Overall Illustrative Plan : 3/72011 6. Dominion Square (CARS) (RZ 2011-8M-013) - CDP - Overall Illustrative Plan : 3/7/2011 17. The Commons (L\_COR) (82 2011-98-017) - Landscape Plan - Overall Plan : 1/14/11 18. Arbor Row (CityLine) (RZ 2011-FR-023) - CDP Illustrative Plan 7/22/2011 19. Percent Realty (RZ 2011 856-026) - Illustrative Plan, Scheme A - 6/13/2011 20. Sunburnt Hospitality Corp. (RZ 2011-HM-027) - Illustrative Plan, Scheme A - 6/13/2011 21. Tyrons West Promenode (JBG) (RZ 2011-0208)-- CDP Illustrative Plan: 6/30/11 eApplication Development Plans 22. Avalon Bay - Landscape Plan - Jan, 2011 3. Tyron: Ford – Typical Residential Level – December 12, 2010



#### LEGEND

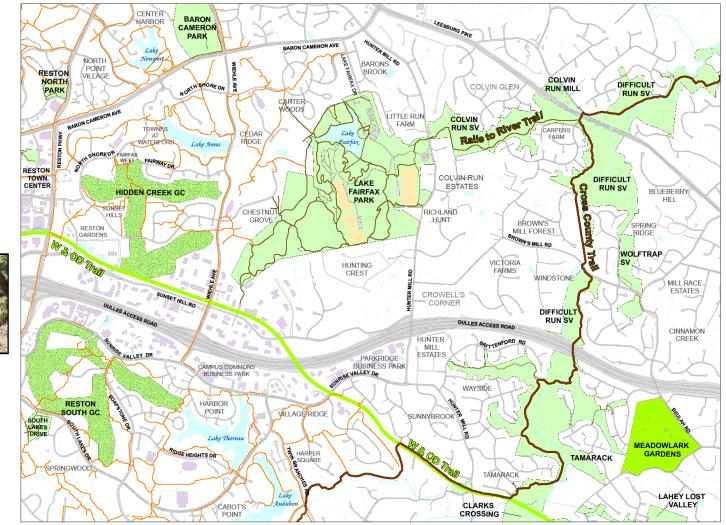


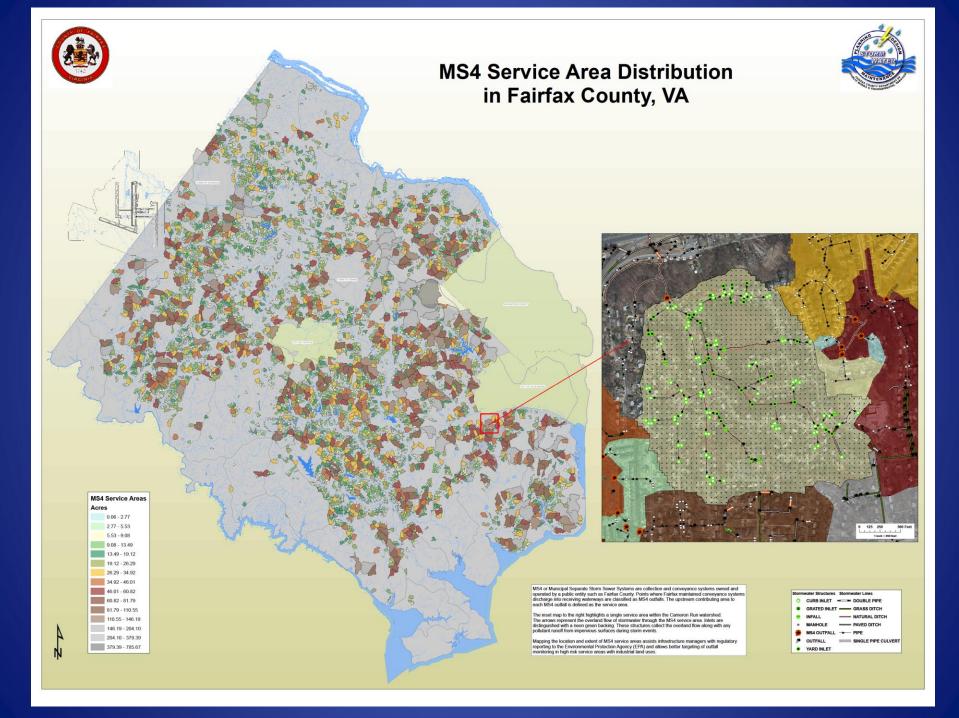


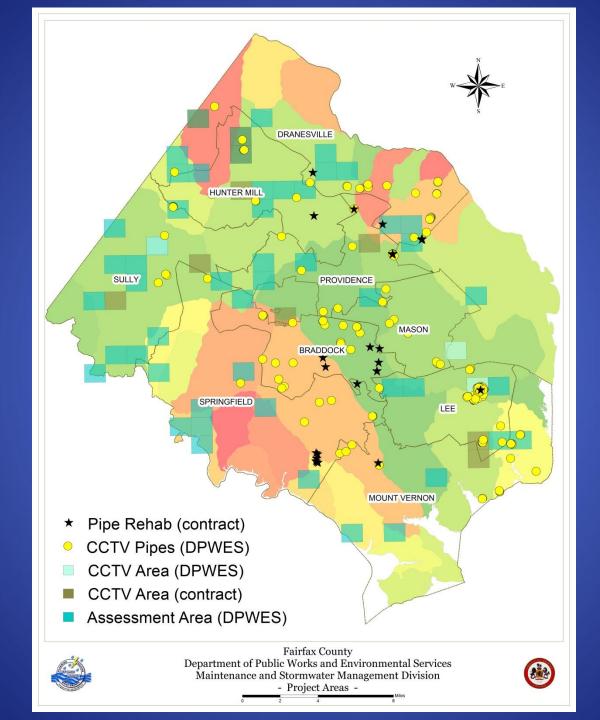
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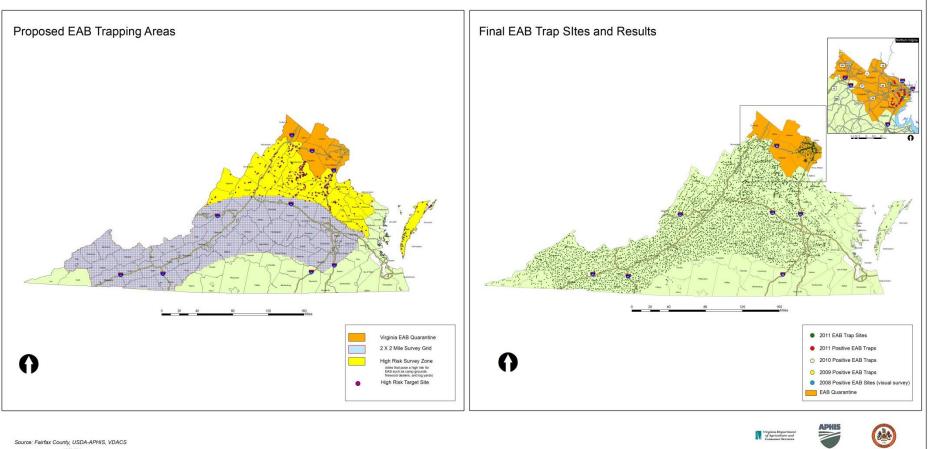




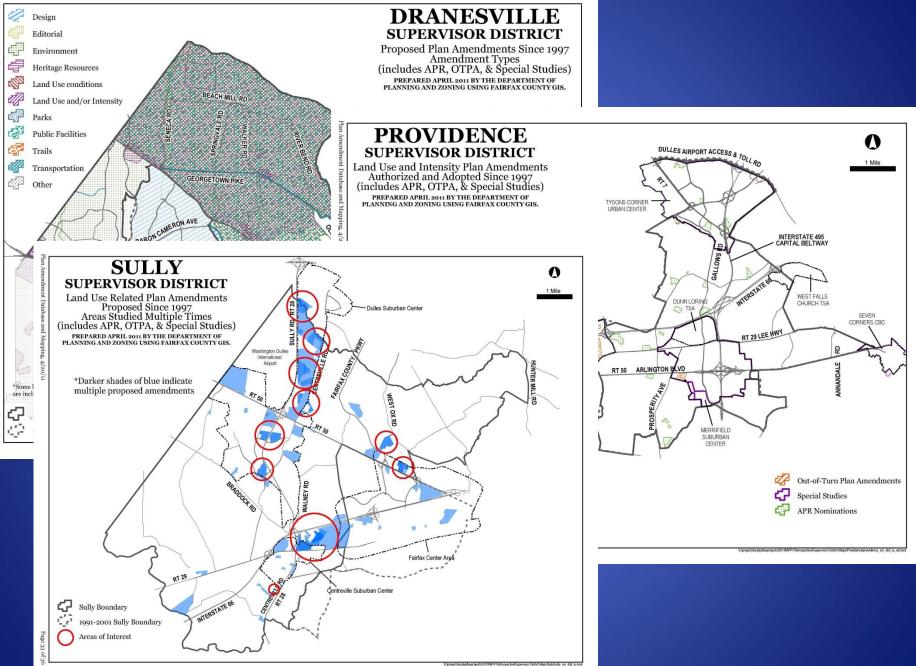




Virginia Emerald Ash Borer Trapping Project - 2011



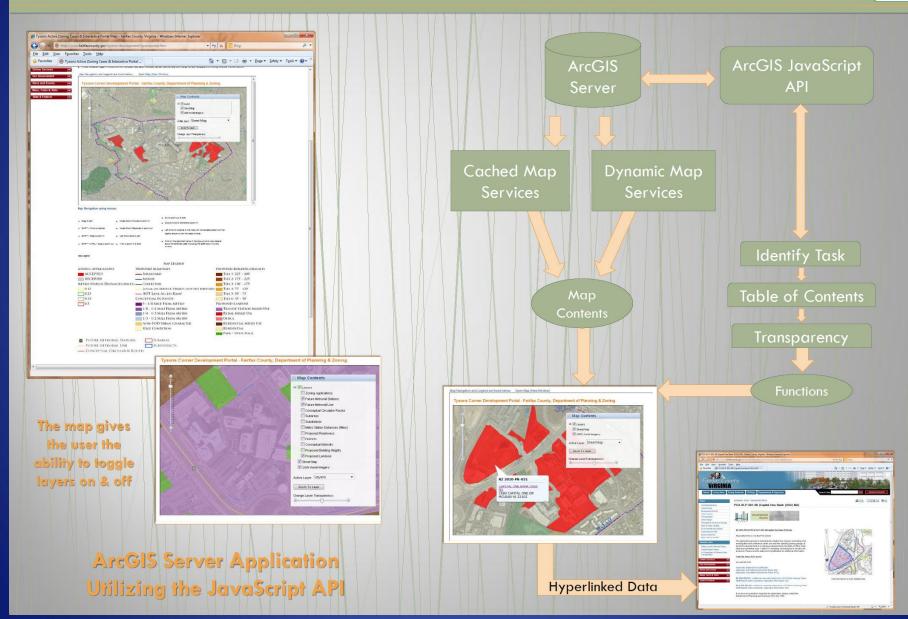
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# **Tysons Corner Development Portal**





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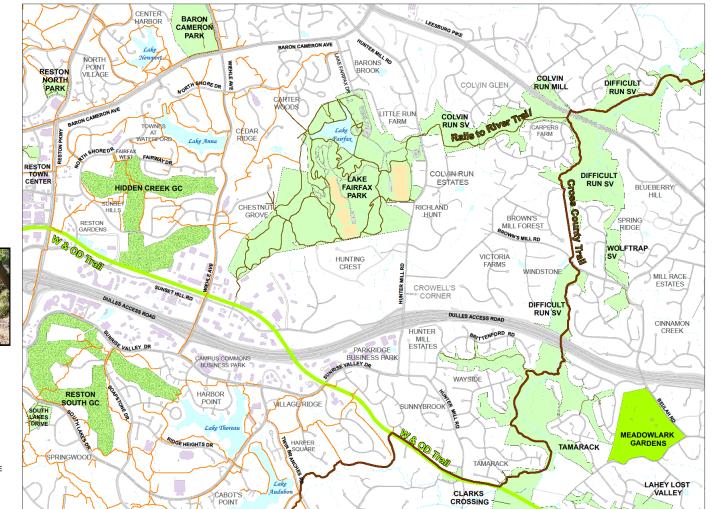


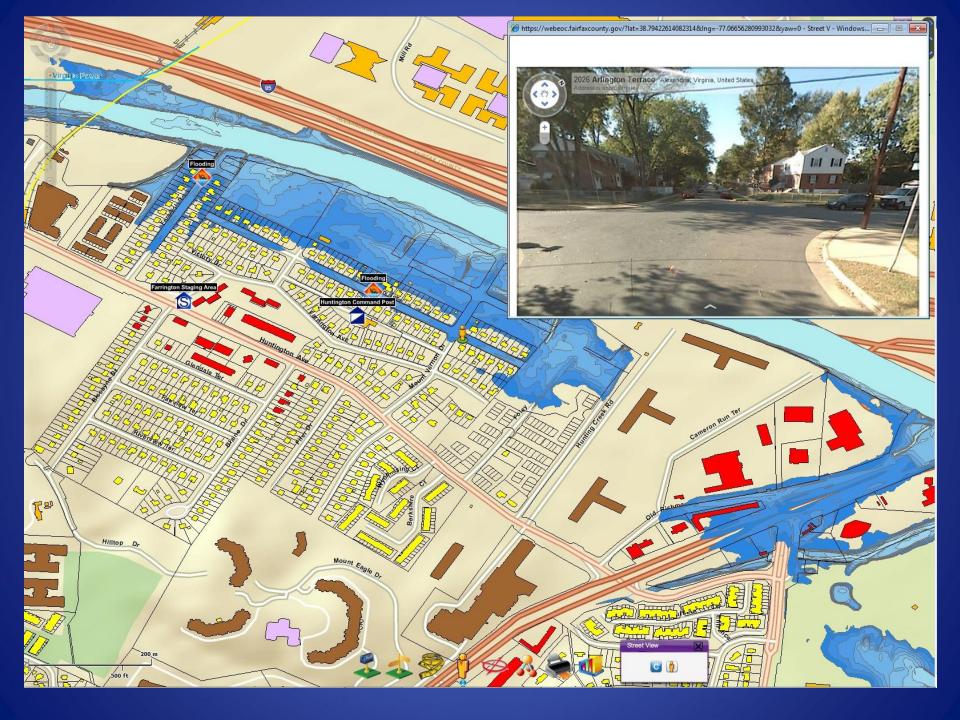


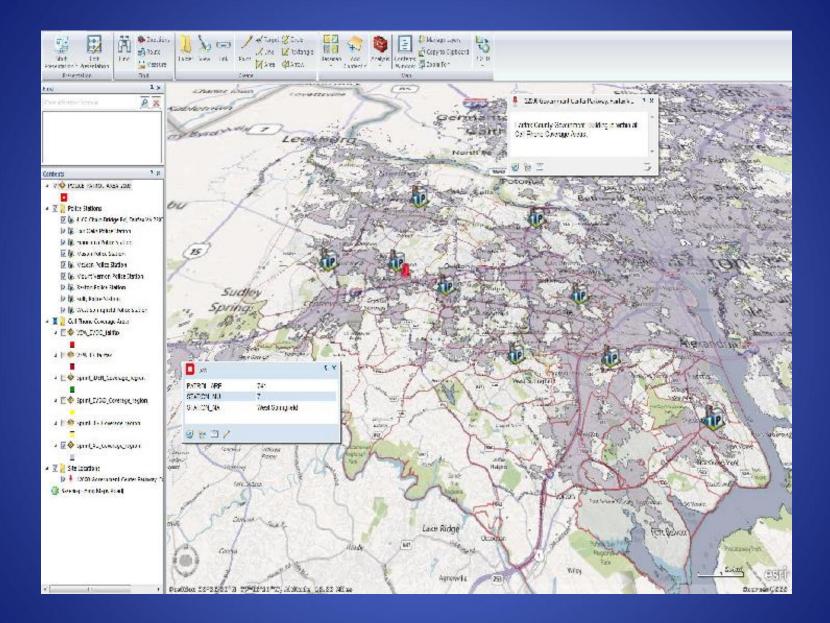


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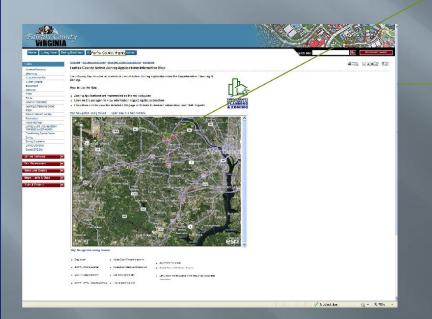


# THE DEPARTMENT OF PLANNING & ZONING

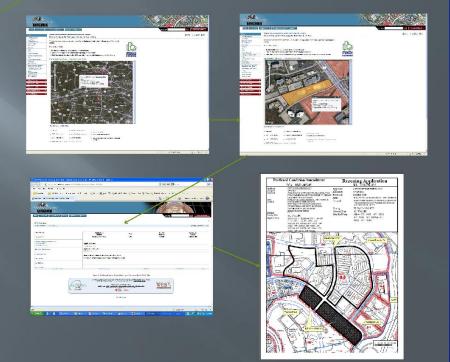


### The Fairfax County Active Zoning Applications Interactive Map

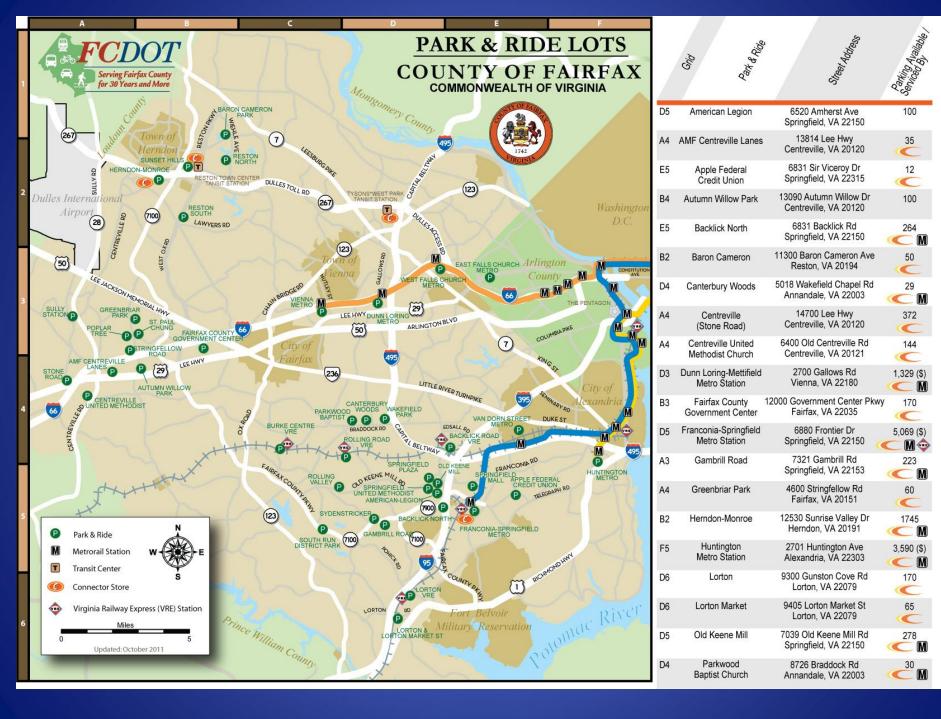
The Fairfax County Active Zoning Applications Interactive Map provides an interactive view of applications under review by the Department of Planning and Zoning using the GIS server to create an interactive map of active zoning cases which provides links to Fairfax County Land Development System (LDS) information and staff reports for active and pending zoning cases on demand at anytime.



Zoning Applications are represented as red polygons on the interactive county - wide map. The user can zoom in or out as necessary to find Zoning Applications of interest. By clicking on the polygon the user can detailed information about individual cases, such as hearing dates, staff reports and other information.



The Fairfax County Active Zoning Applications Interactive Map provides detailed data about the individual zoning cases on demand in real-time eliminating in most cases the need for citizens or interested parties to call or visit the DPZ offices to obtain the desired information



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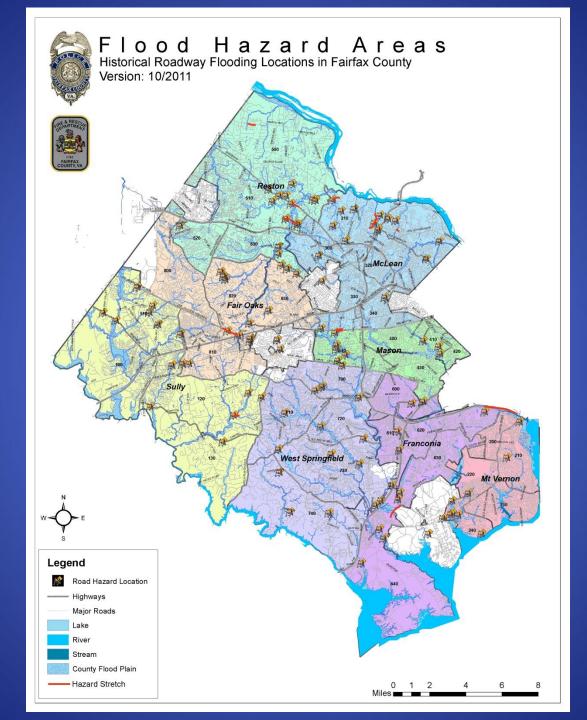
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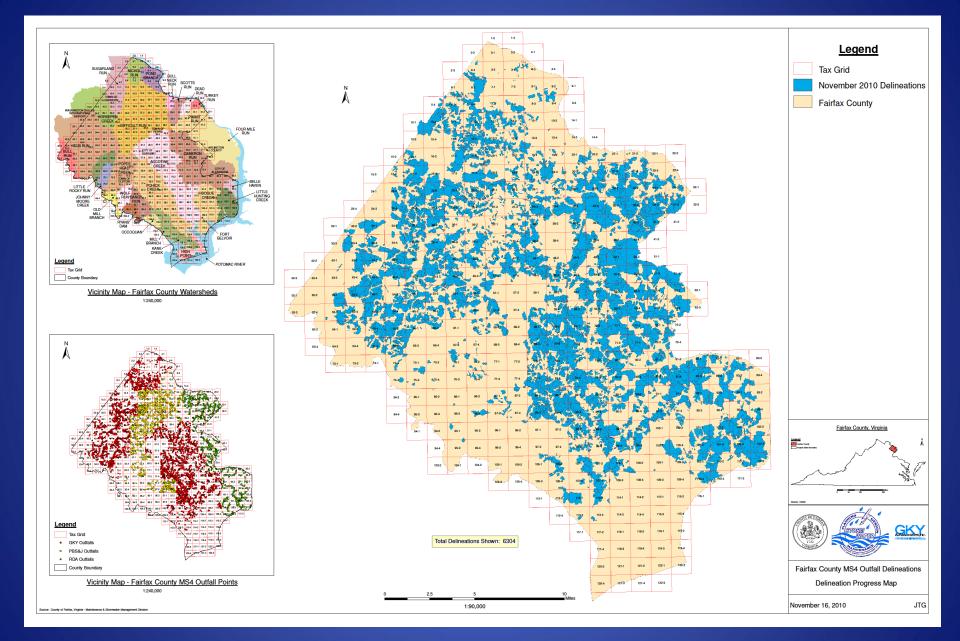
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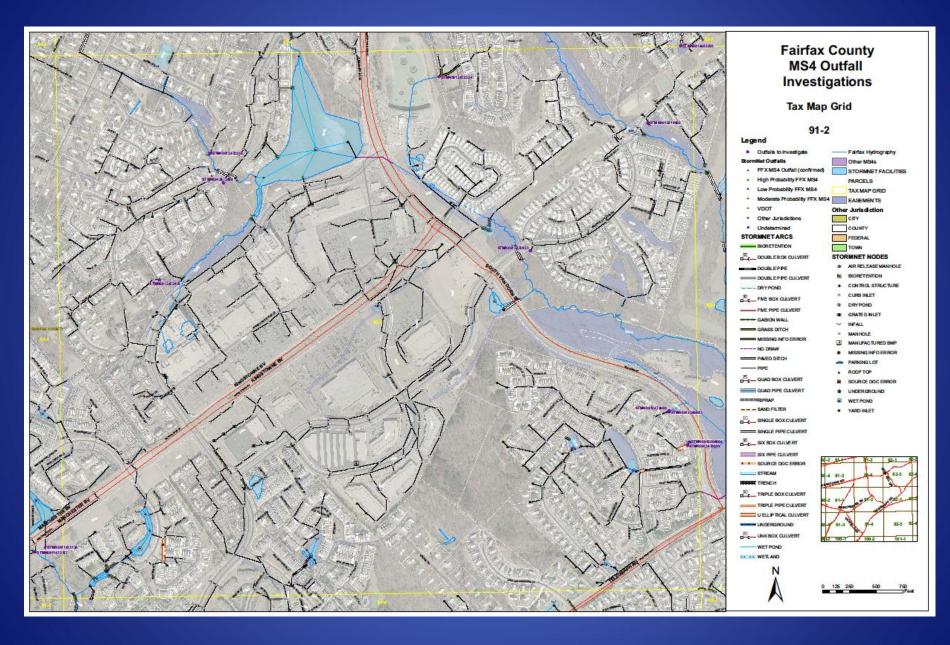
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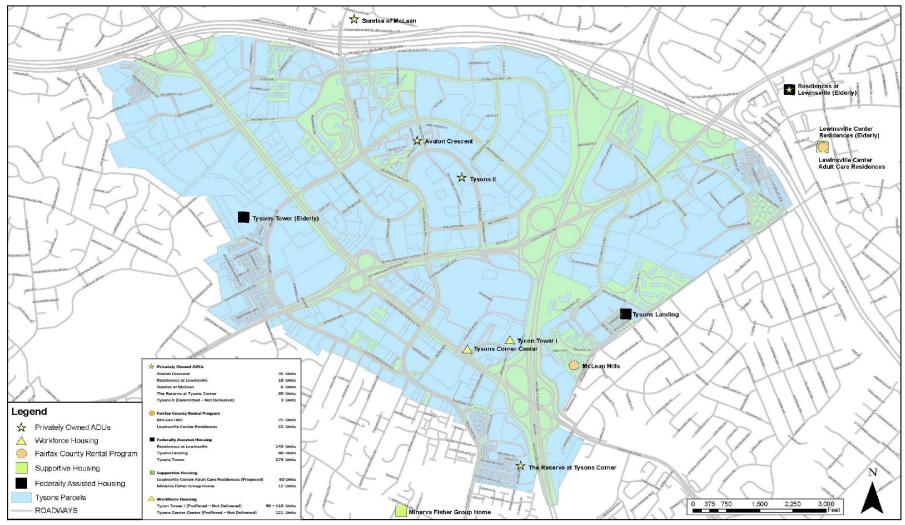




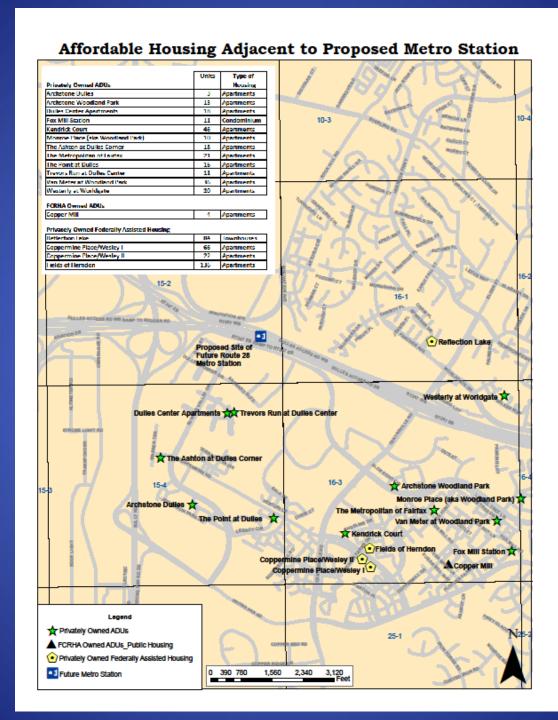


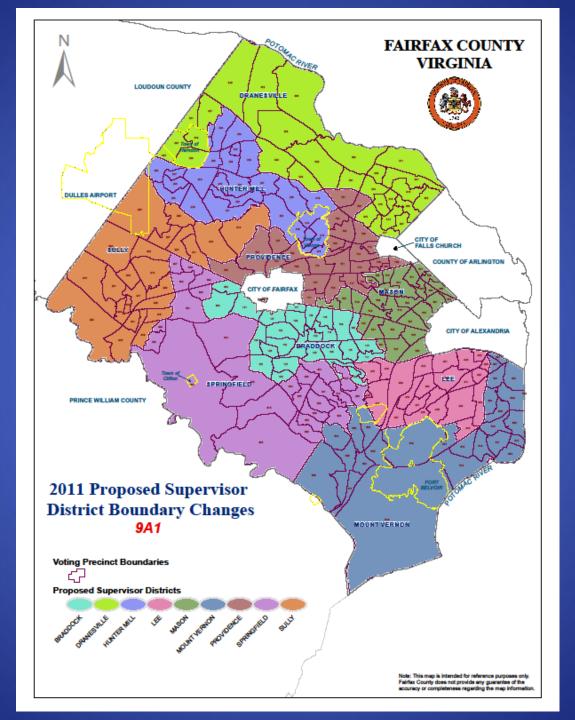


### Affordable Housing Locations in the Tysons Corner, Virginia Development Area Department of Housing and Community Development



This document was created by the Fairfax County, Virginia, Department of Housing and Community Development and serves as an outline to map Affordable Housing properties and programs. Renderings illustrated assist in assessing regional impact, site evaluation and density concerns.





# GIS Excellence Awards 2011

# **CONGRATULATIONS!!**