HISTORIC TRAFFIC COUNT DATA (1980 – 2015)

Highlights

The traffic trends for 25 locations in the 22202 zip code area have decreased by 20 percent (on average) since 2000, when traffic peaked. Currently, average weekday traffic in the area is at levels experienced between the years 1985 and 1990.

Description

The charts and tables below provide Arlington County average weekday daily traffic (AWDT) count data, collected in five-year intervals between 1980-2015, for roads within the 22202 zip code area. Arlington collects traffic count data on a regular basis for County-maintained arterial roadways throughout the County. AWDT data from 25 locations was selected for analysis because they have the most comprehensive and complete set of counts during the 35-year period. This data is presented in three formats:

- Graphed - showing AWDT volumes over the 35-year period for each location;
- Mapped - showing AWDT volumes for all 25 locations for each of the five-year intervals between 1980-2015, and
- As a Trend - By summing the counts from all 25 locations and graphing the sum for each five-year interval.

Average Weekday Daily Traffic for 5-Year Intervals between 1980-2015

Pentagon City Locations – 15th St. S., S. Joyce St., S. Hayes St.
Average Weekday Daily Traffic (AWDT) for 1990 and 2015
For 25 Locations in 22202 Zip Code Area

Legend

- Average Weekday Daily Traffic (AWDT)

Notes:
Data shown for 25 locations with near complete historic data within the 22202 zip code area.

Last Updated 02-22-2016
Context in Planning Spectrum

Where is this data used in the planning spectrum?

Background

Today, traffic counts are collected approximately every three years for arterial roadways in the County. This data is collected using tube counters that continuously collected data over the course of a minimum of 24 weekday hours. These counts are then reviewed for technical issues. In the past, when multiple days of data were collected, an average of the daily count data was recorded. Counters are typically placed at the same locations to get better historical data over time.

Arlington has a significant amount of count data for arterial roads within the 22202 zip code area. A thorough review of County records turned up at least one traffic count between the years of 1980-2015 for more than 70 locations in the 22202 zip code area. For 25 of these locations, a nearly complete data set of counts at five-year intervals going back to 1980 was available. These 25 locations are well distributed across the 22202 zip code area, providing a diverse resource to analyze changes in daily traffic volumes over a 35-year period for specific roads and broadly across the 22202 zip code area. When data was not available for one of these locations during an interval, it was noted, and estimates were made to complete the data set. For the few locations where data was estimated, notes have been included in the data tables providing the methods used to estimate daily traffic volumes.

Cumulative Average Weekday Daily Traffic Trend for the 22202 Zip Code Area

By reviewing the AWDT count data for individual locations, it is hard to get a sense of how traffic flows for the overall area have changed. Even by plotting data for all 25 locations on one chart it is difficult to easily identify any overall trend. However, the noise from the data can be removed by adding the data together for each five year interval for all 25 locations, to produce a cumulative AWDT trend line for the area. When the volumes are aggregated together for all of the locations, the sum should not be considered as the total traffic for the area or the total number of vehicles driving within the study area on a daily basis. For example, a person working in the area and living outside the area may get counted at multiple locations as they travel to and from work. Based on the cumulative AWDT trend line for the area, traffic peaked in the year 2000 and has been steadily falling since.
Findings

- Based on the cumulative average weekday daily traffic trend for the area, traffic volumes are down 20% from their peak in the year 2000.
- Overall, traffic volumes are currently similar to what they were between the years of 1985-1990. In the 22202 zip code area, 13 of the 25 (52%) count locations show AWDT volumes lower than the volumes observed in 1990, seven (28%) count locations are showing AWDT volumes higher, and the remaining five (20%) count locations are about the same.

Data Source

Arlington County Department of Environmental Services count data
Appendix A:

Data Tables
## Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015, For Sites with Most Complete Data in 22202 Zip Code Area.

(Empty cells filled with estimated volumes)

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<td>11,100</td>
<td>9,600</td>
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Notes:
- All counts rounded to nearest hundred for Average Weekday Daily Total (AWDT) traffic volume.
- Highlighted data (gray fill) include estimated volumes.

1. This street section was converted to two-way traffic from one-way in late 2013
2. Current/Future Permanent Traffic Count Stations
3. 1990 Volumes = 1990 volumes when available/1991 volumes when 1990 data unavailable. 1991 volumes used for Arlington Ridge between 23rd St. S and S Lang St., Army Navy Drive between S Joyce St. and S Hayes St., Crystal Dr. between 18th St. S and I-395.
4. 2005 Volumes = Max volume reported for either 2005 or 2006
5. 2010 Volumes = Max volume reported for either 2009, 2010, or 2011
6. 2015 Volumes = Max volume reported for either 2013, 2014, or 2015 including automated count volumes for 2015
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Notes:
- Daily traffic volume.
- Locations in the table refer to the approximate locations of the traffic count stations.
- Data for 1990 and 2000 is broken down by month.

Sources:

**Arlington County Historic Traffic Count Data (AWDT):** This dataset provides daily traffic volume data for various locations within the 22202 Zip Code Area in Arlington County, Virginia, from 1980 to 2015. The data includes traffic counts for various streets and intersections, with a focus on the years 1980, 1985, 1990, 1995, 2000, and 2015.
Appendix B:

Average Weekday Daily Traffic (AWDT) Maps By Year
Study of Historic Arlington County Count Data for the 22202 Zip Code Area

Average Weekday Daily Traffic (AWDT) for 1980

Legend

- Observed Average Weekday Daily Traffic (AWDT)
- Estimated AWDT

Notes:
Data shown for 25 locations with near complete historic data within the 22202 zip code area.

Estimated AWDT volumes are equal to 1985 ADT values reduced by the change in volumes for all observed data for 1980 and 1985.

Last Updated 02-22-2016
Study of Historic Arlington County Count Data for the 22202 Zip Code Area
Average Weekday Daily Traffic (AWDT) for 1985

Legend
- Observed Average Weekday Daily Traffic (AWDT)

Notes:
Data shown for 25 locations with near complete historic data within the 22202 zip code area.

Last Updated 02-22-2016
Appendix C:

Average Weekday Daily Traffic (AWDT)

Between 1980 and 2015 By Location
12TH STREET SOUTH LOCATIONS

22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING
(Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015)


Average Weekday Daily Traffic (ADWT) Volumes

Estimated Volume

- 12th Street S. between S. Eads St. and Army-Navy Drive
- 12th Street S. between Army-Navy Drive and S. Clark St.
- 12th Street S. between S. Clark St. & Crystal Dr.*
2202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING
(Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015)

ARMY NAVY DRIVE LOCATIONS

![Graph showing average weekday daily traffic volumes for different locations of Army Navy Drive between 1980 and 2015.]

- Army Navy Drive between S Joyce St. and S. Hayes St.
- Army Navy Drive between S. Hayes St. and S. Fern St.*
- Army Navy Drive between S. Eads St. and 12th St. S.

Estimated Volume
2202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING
(Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015)

PENTAGON CITY LOCATIONS - 15TH ST. S., S. JOYCE ST., & S. HAYES ST.

15th Street S. between S. Hayes St. and S. Fern St.*
15th Street S. between S. Fern St. and Jefferson Davis Highway (US Route 1)*
S. Hayes Street between Army Navy Dr. and 12th St. S.*
S. Joyce Street between Army Navy Drive and 15th St. S.*

Estimated Volume

Average Weekly Daily Traffic (ADWT) Volumes

Year

0 5,000 10,000 15,000 20,000 25,000 30,000 35,000 40,000

0 5,000 10,000 15,000 20,000 25,000 30,000 35,000 40,000

15th Street S. between S. Hayes St. and S. Fern St.*
15th Street S. between S. Fern St. and Jefferson Davis Highway (US Route 1)*
S. Hayes Street between Army Navy Dr. and 12th St. S.*
S. Joyce Street between Army Navy Drive and 15th St. S.*
22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING
(Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015)

CRYSTAL CITY LOCATIONS - CRYSTAL DR., S. CLARK ST., & 23RD ST. S.

- 23rd Street S. between Jefferson Davis Highway (US Route 1) & Crystal Dr.*
- S. Clark Street between 23rd St. S. and 26th St. S.
- Crystal Drive between 18th St. S. and 20th St. S.
- Crystal Drive between 20th St. S. and 23rd St. S.*
- Crystal Drive between 23rd St. S. and 26th St. S.

Estimated Volume
22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING
(Arlington County Historic Traffic Count Data (AWDT) for 5 Year Intervals Between 1980 and 2015)

22202 WEST LOCATIONS - ARLINGTON RIDGE RD. & 23RD ST. S.

- 23rd Street S. west of Arlington Ridge Rd.
- 23rd Street S. between S. Hayes St. & S. Ives St.
- Arlington Ridge Road between 19th St. S. and I-395*
- Arlington Ridge Road between 23rd St. S. and S. Lang St.*
- Arlington Ridge Road between S. Lang St. and S. Glebe Rd.*

Estimated Volume

Year

0 2,000 4,000 6,000 8,000 10,000 12,000 14,000 16,000 18,000 20,000

2,700 3,000 2,400 2,600 2,800 3,000 3,200


10,500 11,000 10,800 11,200 12,000 12,600

8,200 8,700 9,600 8,400 7,500 7,300 7,100

15,400 15,300 15,100 13,900 16,000 15,300 15,100

12,900 14,400 13,200 13,900 16,000 15,100 14,200

16,900 16,500 15,100 14,200 16,500 15,100 13,700

10,000 12,000 14,000 16,000 18,000 20,000

0 2,000 4,000 6,000 8,000 10,000