

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.

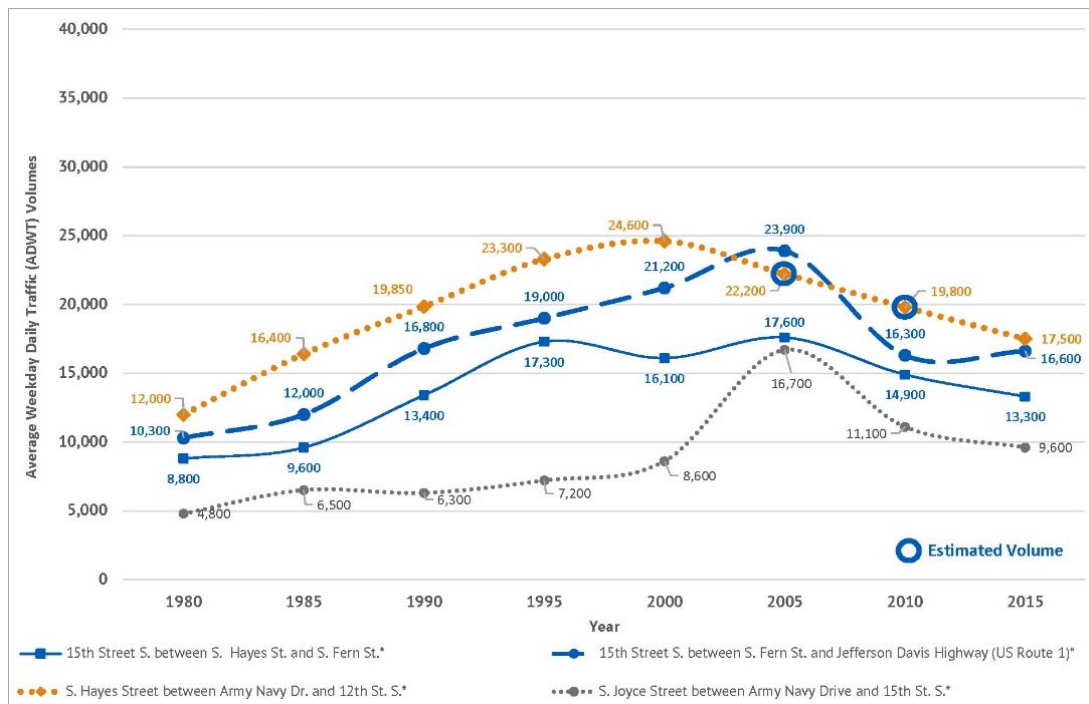
Description

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.

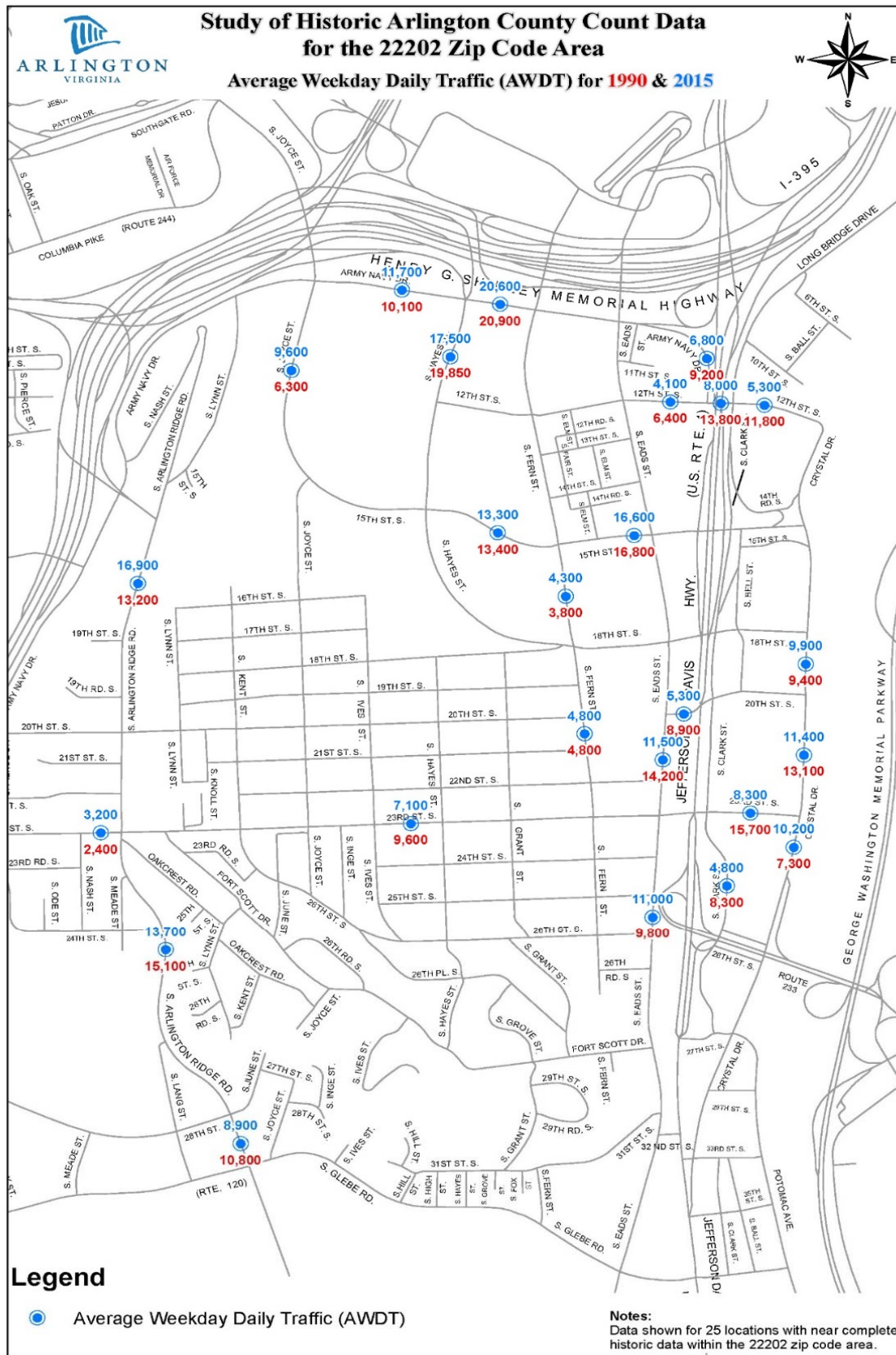
Average Weekday Daily Traffic for 5-Year Intervals between 1980-2015

Pentagon City Locations – 15th St. S., S. Joyce St., S. Hayes St.



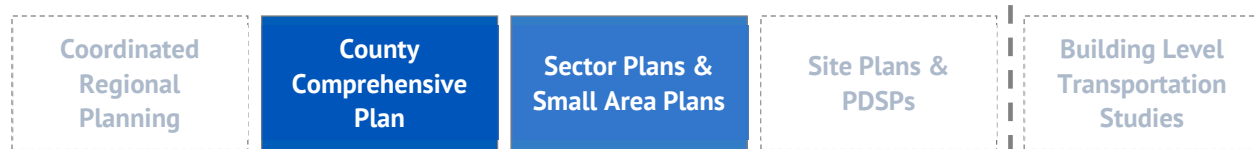
Average Weekday Daily Traffic (AWDT) for 1990 and 2015

For 25 Locations in 22202 Zip Code Area



Context in Planning Spectrum

Where is this data used in the planning spectrum?



Background

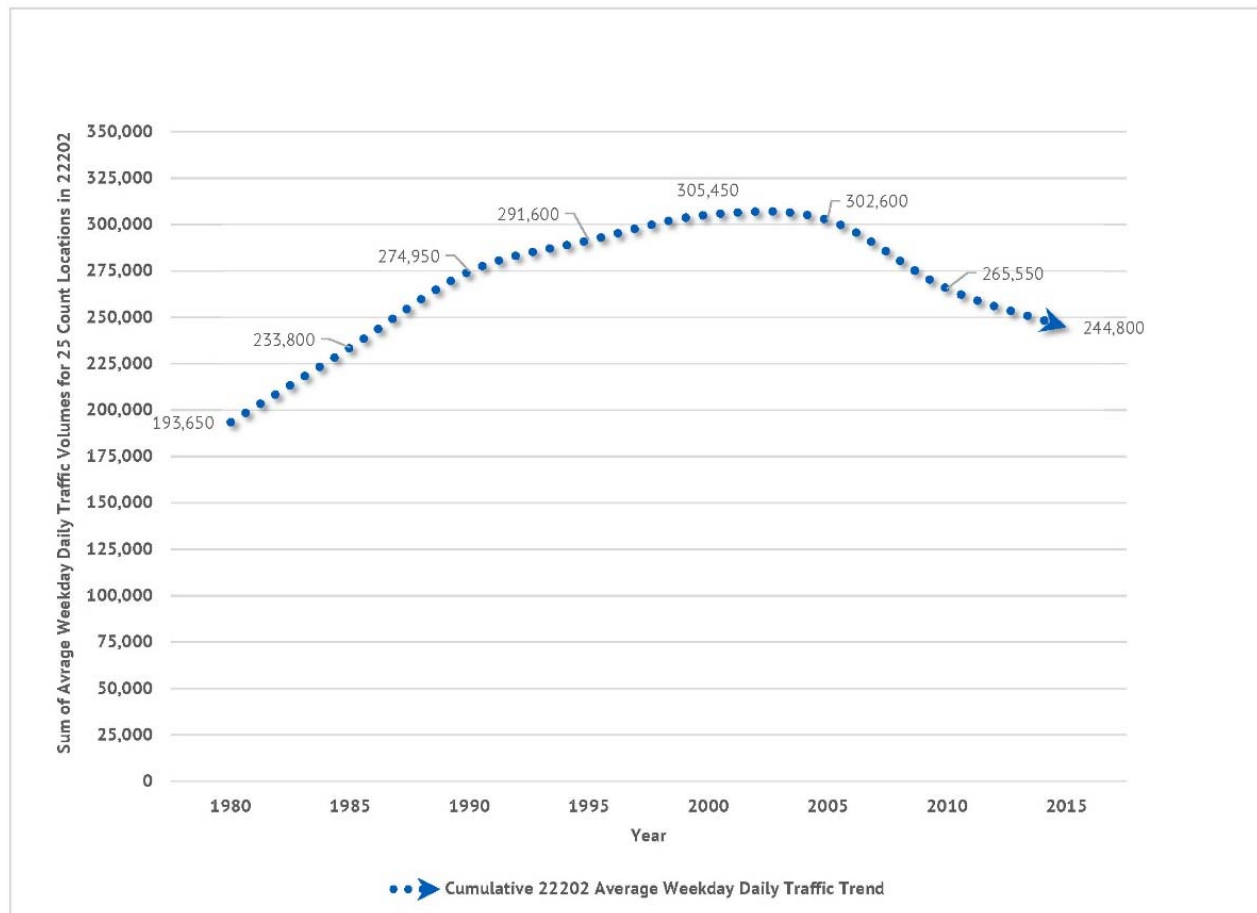
Today, traffic counts are collected approximately every three years for arterial roadways in the County. This data is collected using tube counters that continuously collected data over the course of a minimum of 24 weekday hours. These counts are then reviewed for technical issues. In the past, when 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.

Cumulative Average Weekday Daily Traffic (AWDT) Trend 1980-2015



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)

Street	Between	GIS ID	Daily Traffic Volume							
			1980	1985	1990	1995	2000	2005	2010	2015
12th Street S.	between S. Eads St. and Army-Navy Drive	1	4,100	4,900	6,400	6,600	5,200	5,200	4,100	4,100
12th Street S.	between Army-Navy Drive and S. Clark St.	2	10,800	13,000	13,800	12,400	11,000	10,600	8,800	8,000
12th Street S.	between S. Clark St. & Crystal Dr.*	3	1,900	2,300	11,800	11,800	10,500	8,200	6,750	5,300
15th Street S.	between S. Hayes St. and S. Fern St.*	4	8,800	9,600	13,400	17,300	16,100	17,600	14,900	13,300
15th Street S.	between S. Fern St. and Jefferson Davis Highway (US Route 1)*	5	10,300	12,000	16,800	19,000	21,200	23,900	16,300	16,600
20th Street S.	between S. Eads St. and Jefferson Davis Highway (US Route 1)	7	6,600	7,800	8,900	7,200	8,800	8,200	5,400	5,300
23rd Street S.	west of Arlington Ridge Rd.	8	2,700	3,000	2,400	2,600	2,800	3,000	3,200	3,200
23rd Street S.	between S. Hayes St. & S. Ives St.	9	8,200	8,700	9,600	8,400	7,500	7,300	7,100	7,100
23rd Street S.	between Jefferson Davis Highway (US Route 1) & Crystal Dr.*	10	9,500	10,500	15,700	13,800	13,000	10,100	11,500	8,300
Arlington Ridge Road	between 19th St. S. and I-395*	11	12,900	14,400	13,200	13,900	16,000	15,100	14,200	16,900
Arlington Ridge Road	between 23rd St. S. and S. Lang St.*	12	15,400	15,300	15,100	13,900	15,300	16,500	15,100	13,700
Arlington Ridge Road	between S. Lang St. and S. Glebe Rd.*	13	10,500	11,000	10,800	11,200	12,000	12,600	8,100	8,900
Army Navy Drive	between S Joyce St. and S. Hayes St.	14	6,550	7,900	10,100	10,300	10,300	16,600	13,800	11,700
Army Navy Drive	between S. Hayes St. and S. Fern St.*	15	13,900	16,800	20,900	26,600	36,700	28,700	25,100	20,600
Army Navy Drive	between S. Eads St. and 12th St. S.	16	6,600	8,000	9,200	8,600	9,000	8,500	7,400	6,800
S. Clark Street	between 23rd St S. and 26th St. S.	17	7,300	9,600	8,300	8,100	8,800	8,650	8,500	4,800
Crystal Drive	between 18th St. S. and 20th St. S.	18	4,100	6,600	9,400	10,500	9,600	9,750	9,900	9,900
Crystal Drive	between 20th St. S. and 23rd St. S.*	19	6,200	9,500	13,100	13,700	12,900	9,400	12,200	11,400
Crystal Drive	between 23rd St. S. and 26th St. S. ₁	20	5,300	7,900	7,300	9,600	10,500	7,500	8,900	10,200
S. Eads Street	between 20th St. S. and 23rd St. S.	21	11,600	12,600	14,200	15,400	14,850	14,300	12,700	11,500
S. Eads Street	between 23rd St. S. and Fort Scott Dr.*	22	7,400	9,500	9,800	10,700	10,400	11,200	11,000	11,000
S. Fern Street	between 15th St. S. and 18th St. S.*	23	2,900	4,700	3,800	4,500	4,500	5,700	4,600	4,300
S. Fern Street	between 18th St. S. and 23rd St. S.	24	3,300	5,300	4,800	5,000	5,300	5,100	5,100	4,800
S. Hayes Street	between Army Navy Dr. and 12th St. S.*	25	12,000	16,400	19,850	23,300	24,600	22,200	19,800	17,500
S. Joyce Street	between Army Navy Drive and 15th St. S.*	26	4,800	6,500	6,300	7,200	8,600	16,700	11,100	9,600

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
 *- Current/Future Permanent Traffic Count Stations
 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
 2005 Volumes = Max volume reported for either 2005 or 2006
 2010 Volumes = Max volume reported for either 2009, 2010, or 2011
 2015 Volumes = Max volume reported for either 2013,2014, or 2015 including automated count volumes for 2015

Arlington County Historic Traffic Count Data (AWDT) - 22202 Zip Code Area - 1980, 1985, 1990, 1995, 2000 - 2015

Main Street	Count Location	Daily Traffic Volume																				
		1980	1985	1990	1991	1995	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
12th Street S.	between S. Hayes St. and S. Fern St.		1,350	2,050	1,950	4,700						4,400		3,800		3,800						
	between S. Eads St. and Army-Navy Drive		4,900	6,400	8,200	6,600						5,200		4,700		4,100						
	between Army-Navy Drive and Clark St		13,000	13,800								10,600				8,800				8,000		
	between S. Clark St. & S. Crystal Dr.*		2,300	11,800	11,300	11,800						8,200		9,500						4,600		
15th Street S.	between S. Hayes St. and S. Fern St*	8,800	9,600	13,400	14,700	17,300	16,100					17,600		17,700		14,900				13,300	12,500	
	between S. Fern St. and Jefferson Davis Highway (US Route 1)*	10,300	12,000	16,800	17,500		21,200					23,900		24,900		16,300						
	between Jefferson Davis Highway (US Route 1) & S. Crystal Dr.	14,100	14,200	20,500	20,200	19,400	16,900													7,100		
18th Street S.	between S. Joyce St. and S. Fern St.															600						
	between S. Fern St. and S. Eads St.*					10,600								8,100		7,500				7,800		
	between S. Eads St. and Jefferson Davis Highway (US Route 1)	5,800	8,300	11,300	10,800																	
	between Jefferson Davis Highway (US Route 1) & S. Crystal Dr.*		8,300	9,600	9,500	6,500												5,900		4,500		
20th Street S.	between S. Eads St. and Jefferson Davis Highway (US Route 1)	6,600	7,800	8,900	8,700	7,200						8,200				5,400				5,300		
	west of Arlington Ridge Rd.																					800
	east of S. Knoll St.						1,200															1,300
	between Jefferson Davis Highway (US Route 1) & S. Crystal Dr.	4,300	4,600	7,200	10,165	10,000								4,700		4,800						
23rd Street S.	west of Arlington Ridge Rd.	2,700	3,000	2,400	2,500	2,600	2,800							3,200		3,200						
	between Arlington Ridge Rd. & S. Ives St.																	8,000				
	between S. Hayes St. & S. Ives St.	8,200	8,700	9,600	8,900	8,400	7,500			7,400				7,700		7,100						
	between S. Fern St. & S. Hayes St. *						8,100				7,600									7,000		
	between S. Eads St. & S. Fern St.*						8,500				8,600											
between Jefferson Davis Blvd & Crystal Dr.*	9,500	10,500	15,700	13,400	13,800						10,100				11,500				8,300			
32nd Street S.	between S. Eads St. and Jefferson Davis Highway (US Route 1)																					2300
Arlington Ridge Road	between 19th St S and I-395*	12,900	14,400	13,200	13,600	13,900	16,000							14,300				14,200		13,700		
	between 23rd St. S. and 19th St. S.																					
	between 23rd St. S. and S. Lang St. *	15,400	15,300		15,100	13,900	15,300					16,500		14,000								
	between S. Lang St. and S. Glebe Rd.*	10,500	11,000	10,800	11,000	11,200	12,000					12,600		10,400		8,100						
	south of S. Glebe Rd.	18,900	19,300	19,000	18,900	18,500	20,600															
Army Navy Drive	between S. Joyce St. and S. Hayes St.	6,550	7,900		10,100	10,300	10,300					16,600		13,700		13,800				11,700		
	between S. Hayes St. and S. Fern St.*	13,900	16,800	20,900		26,600	36,700					28,700		26,900		25,100						
	between Fern St and Eads St	12,800	16,900		22,200	24,600	27,000					24,300		24,000		0						
	between S. Eads St. and 12th St. S.		8,000	9,200		8,600	9,000					8,500		6,600		7,400					6,800	
S. Bell Street	between 15th St. S. and 20th St. S.																	2,900		2,700		
S. Clark Place	between 15th St. S. and 20th St. S.		8,850	6,500	8,700	7,200	7,300									2,100		2,600				
	between 20th St. S. and S. Clark St.																	4,100				
S. Clark Street	between 12th St. S. and 15th St. S.	9,400	12,500	6,800		7,800	6,400							6,100		6,000				1,400		
	between 15th St. S. and 20th St. S.	8,100				3,900	3,700											2,600				
	between 20th St. S. and 23th St. S.	8,850	10,800	6,500		8,500	6,100															
	between 23rd St. S. and 26th St. S.	7,300	9,600	8,300		8,100	8,800							10,800		7,600	8,500			4,800		
	between 26th St. S. and 27th St. S.		4,700	4,800		6,600	6,700							5,300		3,800						
Crystal Drive (S. Ball St. before 1983)	between 12th St. S. and 15th St. S. ₁																5,500			4,600		
	between 15th St. S. and 18th St. S.*		14,000	16,100	16,400	16,500	15,400															
	between 18th St. S. and 20th St. S.	4,100	6,600		9,400	10,500	9,600							11,200		9,900						
	between 20th St. S. and 23rd St. S.*	6,200	9,500		13,100	13,700	12,900				9,400		9,000		8,700		12,200					
	between 23rd St. S. and 26th St. S. ₁	5,300	7,900	7,300		9,600	10,500				7,500		6,800				8,900			10,200		
	between 26th St. S. and 27th St. S.																6,500					
	between 27th St. S. and 33rd St. S.																	5,400				
S. Eads Street	between Army Navy Dr. and 12th St. S.	6,900	10,700	13,200	12,500	14,000	13,165							13,800								
	between 12th St. S. and 15th St. S.																	11,600				
	between 15th St. S. and 18th St. S.*																	13,000		9,700		
	between 18th St. S. and 20th St. S.																					
	between 20th St. S. & 23rd St. S.	11,600	12,600	14,200	14,000	15,400						14,300								11,500		
	between 23rd St. S. and Fort Scott Dr.	7,400	9,500	9,800	8,100	10,700	10,400					11,200				12,700						
	between Fort Scott Dr. and S. Glebe Rd.*															11,000			10,000			
S. Fern Street	between Army Navy Dr. and 15th St. S.																	11,800	10,900			
	between 15th St. S. and 18th St. S.*	2,900	4,700	3,800	3,900	4,500	4,500					5,700		5,900		4,600		7,800				
	between 18th St. S. and 23rd St. S.	3,300	5,300	4,800	4,900	5,000	5,300			5,000		5,100		5,200		5,100			5100	4,800		
	between 23rd St. S. and 26th Rd. S.						800				800							500				
Fort Scott Drive	northwest of S. Lynn St.												1,000		1,100			1,100				
	between S. Ives St. and S. Eads St.											800		800				900				
S. Hayes Street	between S. Fern St. and S. Eads St.																				7,600	
	between Army Navy Dr. and 12th St. S.*	12,000	16,400		25,700	23,300	24,600															
	between 15th St. S. and 18th St. S.		8,000	9,100		10,600	11,700															
Jefferson Davis Highway (US Route 1)	between 12th S. and 15th. S.* south of S. Glebe Rd.*																				30,800	
S. Joyce Street	between Columbia Pike & Army Navy Dr.*		7,100		6,100		10,600														12,500	
	between Army Navy Dr. and 15th St. S.*	4,800	6,500	6,300	6,100	7,200	8,600					16,700		17,900		11,100						
	between 15th St. S. and 19th St. S.											1,900						2,000		1,800		
	between 17th St. S. and 18th St. S.																	2,000				1,900
	between 19th St. S. and 23rd St. S.																	1,400				
S. Potomac Avenue	between 33rd St. S. and S. Glebe Rd.																	1,800				
S. Glebe Road	between Jefferson Davis Highway (US Route 1) and S. Potomac Ave.																	5,100				

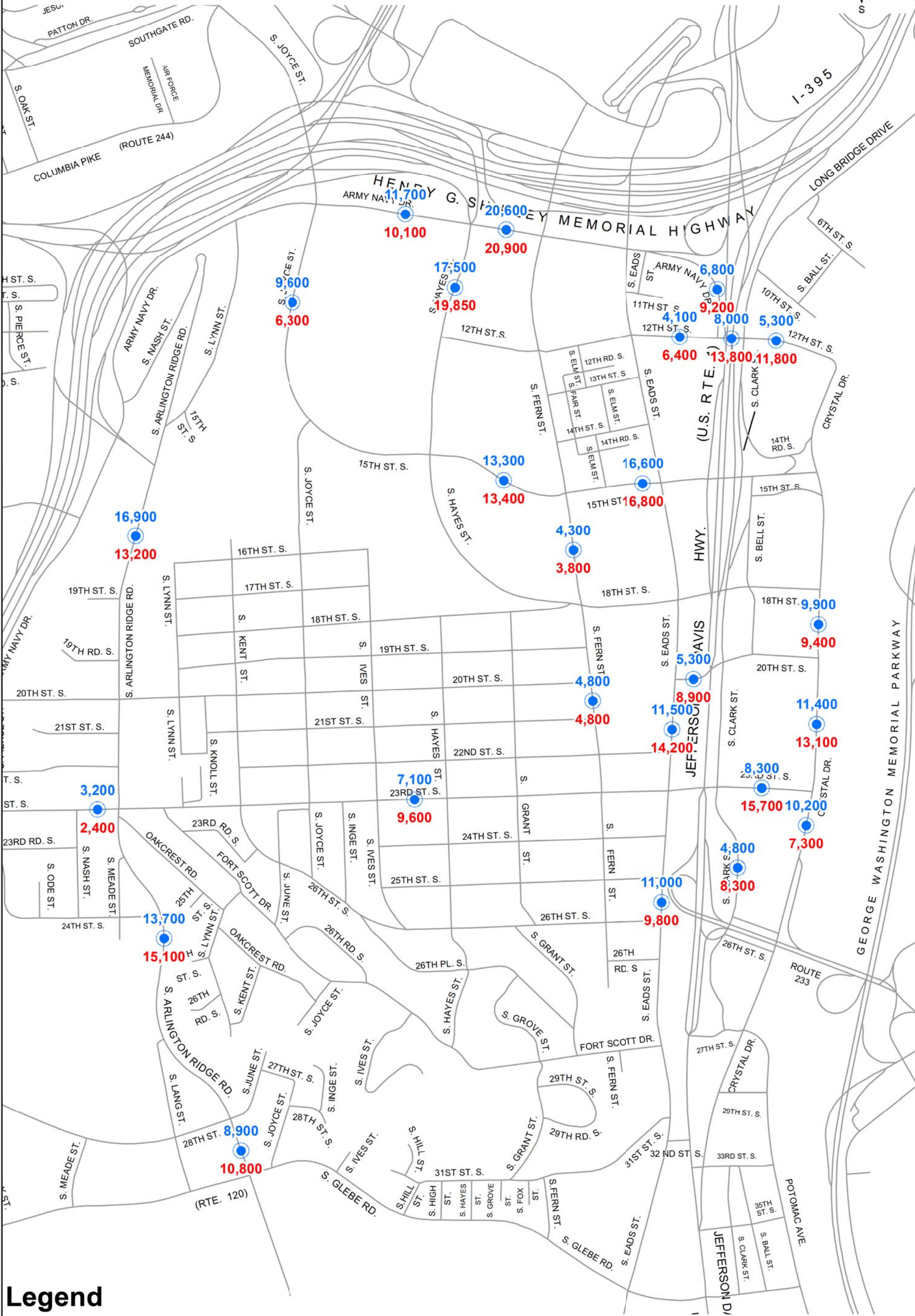
Notes:
All counts rounded to nearest hundred for Average Weekday Daily Total (AWDT) traffic volume.
1 - This section was converted to two-way traffic from one-way in late 2013
*- Current/Future Permanent Traffic Count Stations
Data for 1980, 1985, 1990, 1995 and 2000 pull for those years only unless data not available for that year and data available for the preceding or following year. Not all available data shown between 1980 and 2000.
Locations included in Study of Historic Count Data for 22202 - 1980, 1985, 1990, 1995, 2000, 2005, 2010 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 1990 & 2015



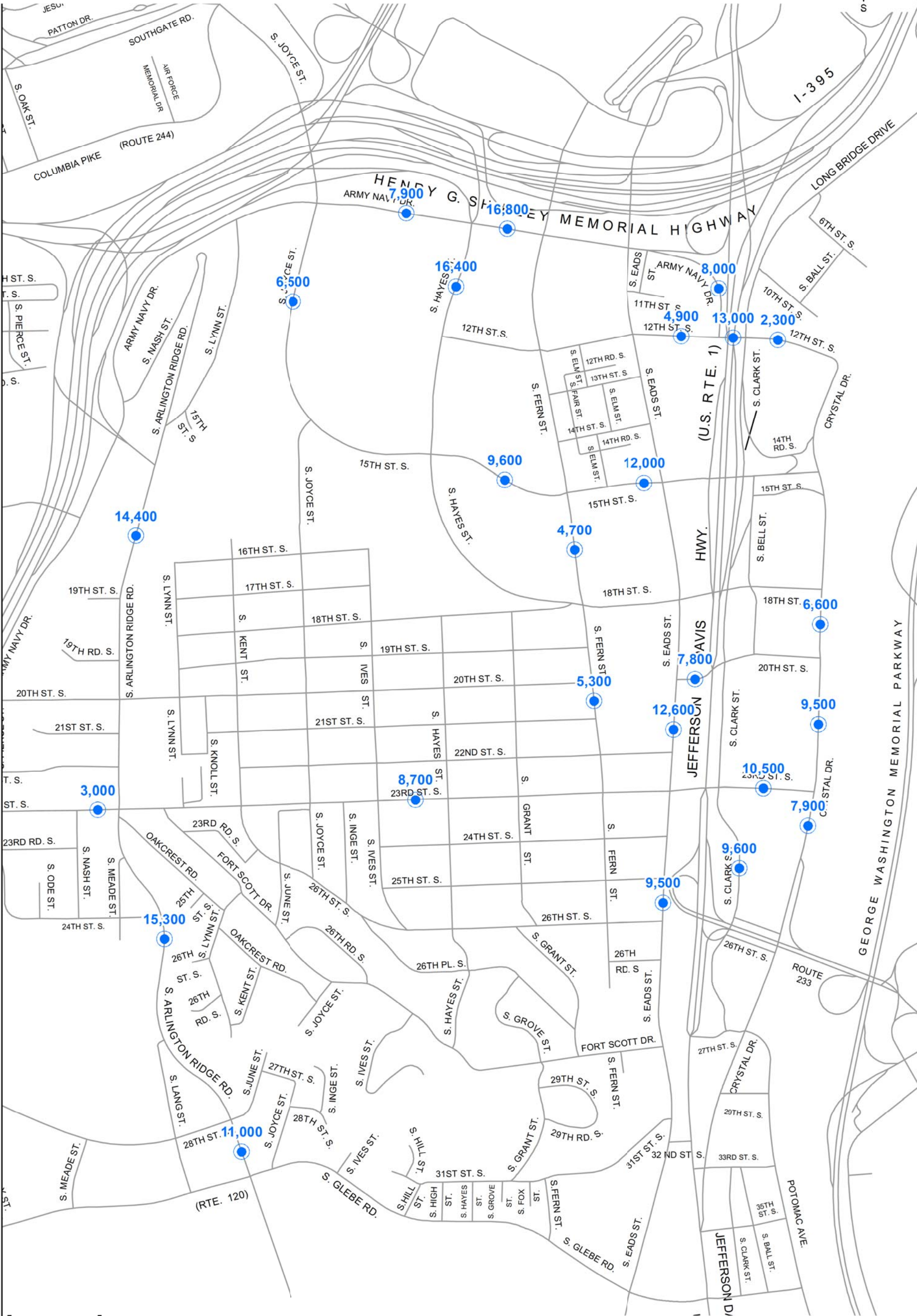
Legend

● Average Weekday Daily Traffic (AWDT)

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

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)

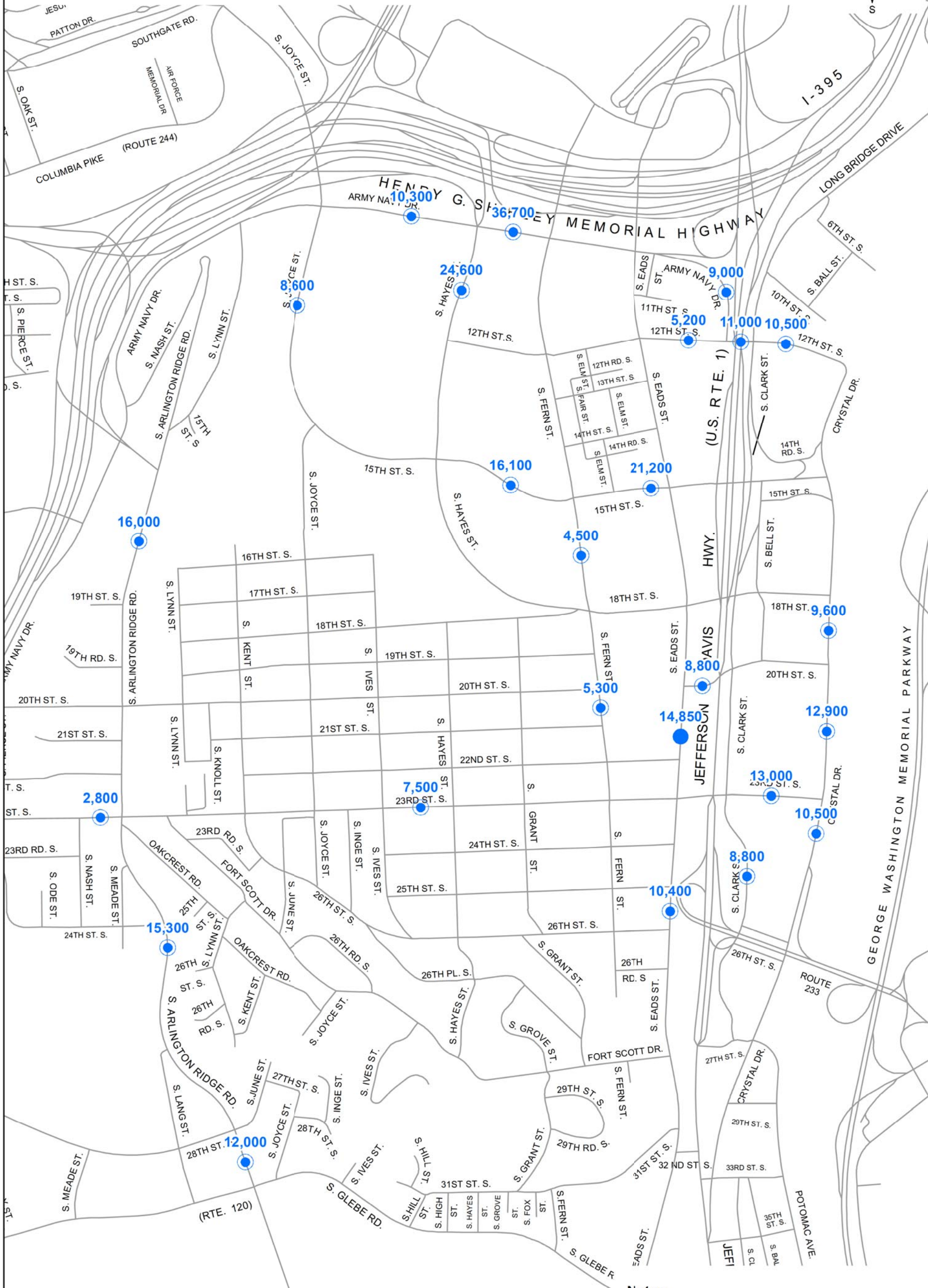
Notes:
Data shown for 25 locations with near complete historic data within the 22202 zip code area.



Last Updated 02-22-2016

Study of Historic Arlington County Count Data for the 22202 Zip Code Area

Average Weekday Daily Traffic (AWDT) for 2000



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 volumes based on median of 1995 and 2005 data.

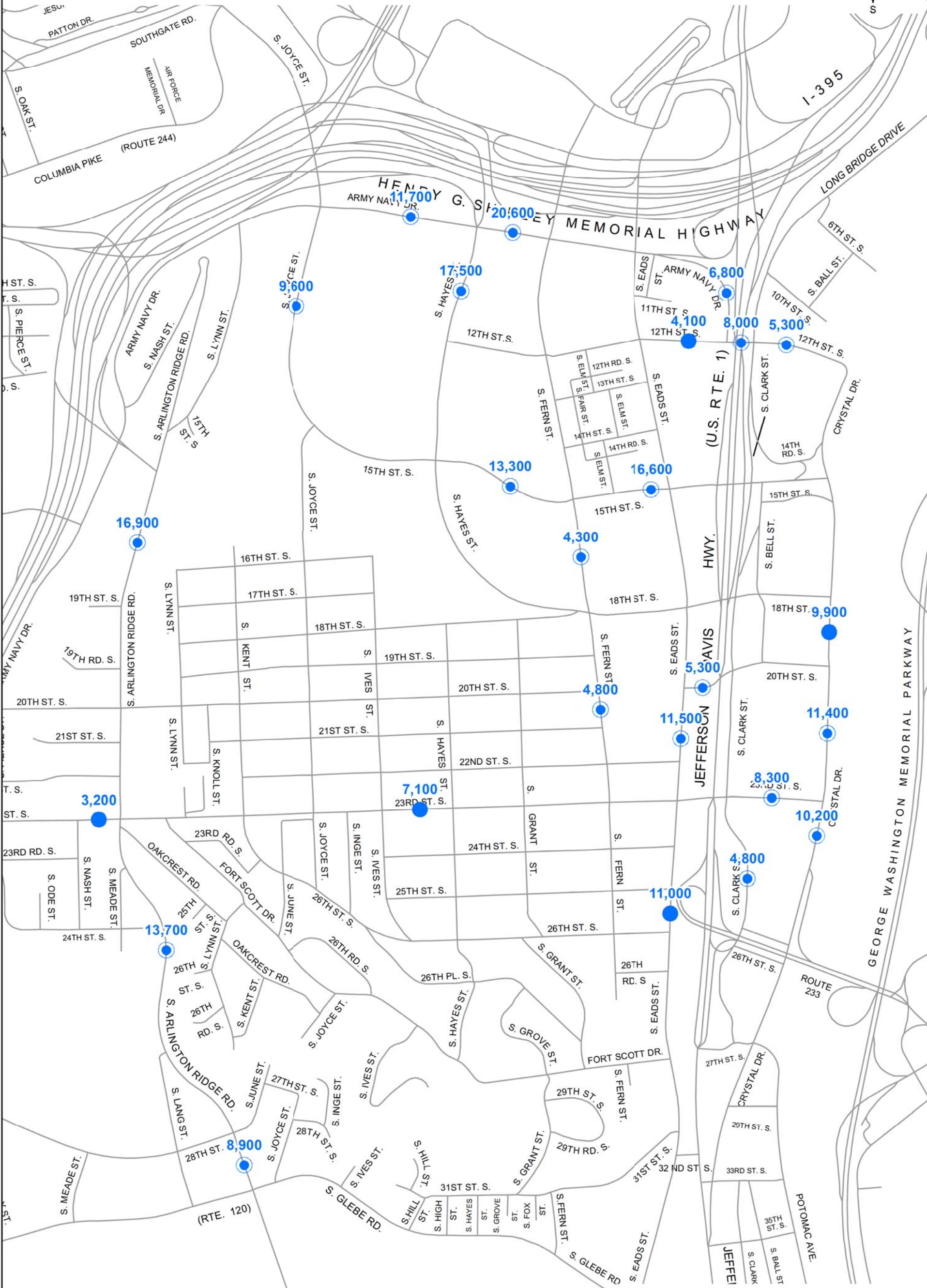


Notes:
Data shown for 25 locations with near complete historic data within the 22202 zip code area.
Estimated volumes based on median of 2000 and 2010 data.

Last Updated 02-22-2016

Study of Historic Arlington County Count Data for the 22202 Zip Code Area

Average Weekday Daily Traffic (AWDT) for 2015



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.
For 2015 estimates, 2010 data was used.

Appendix C:

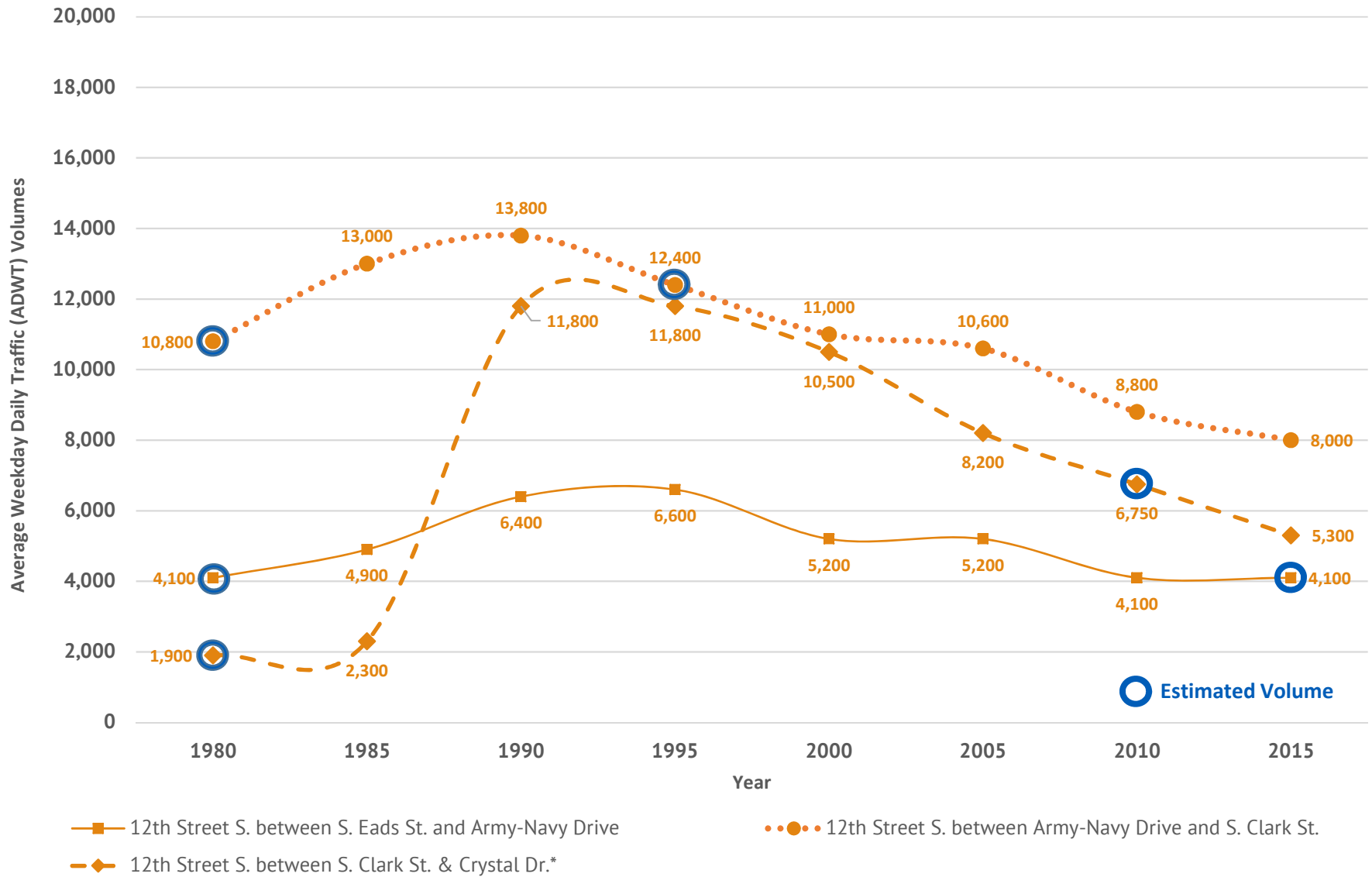
Average Weekday Daily Traffic (AWDT)

Between 1980 and 2015 By Location

22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

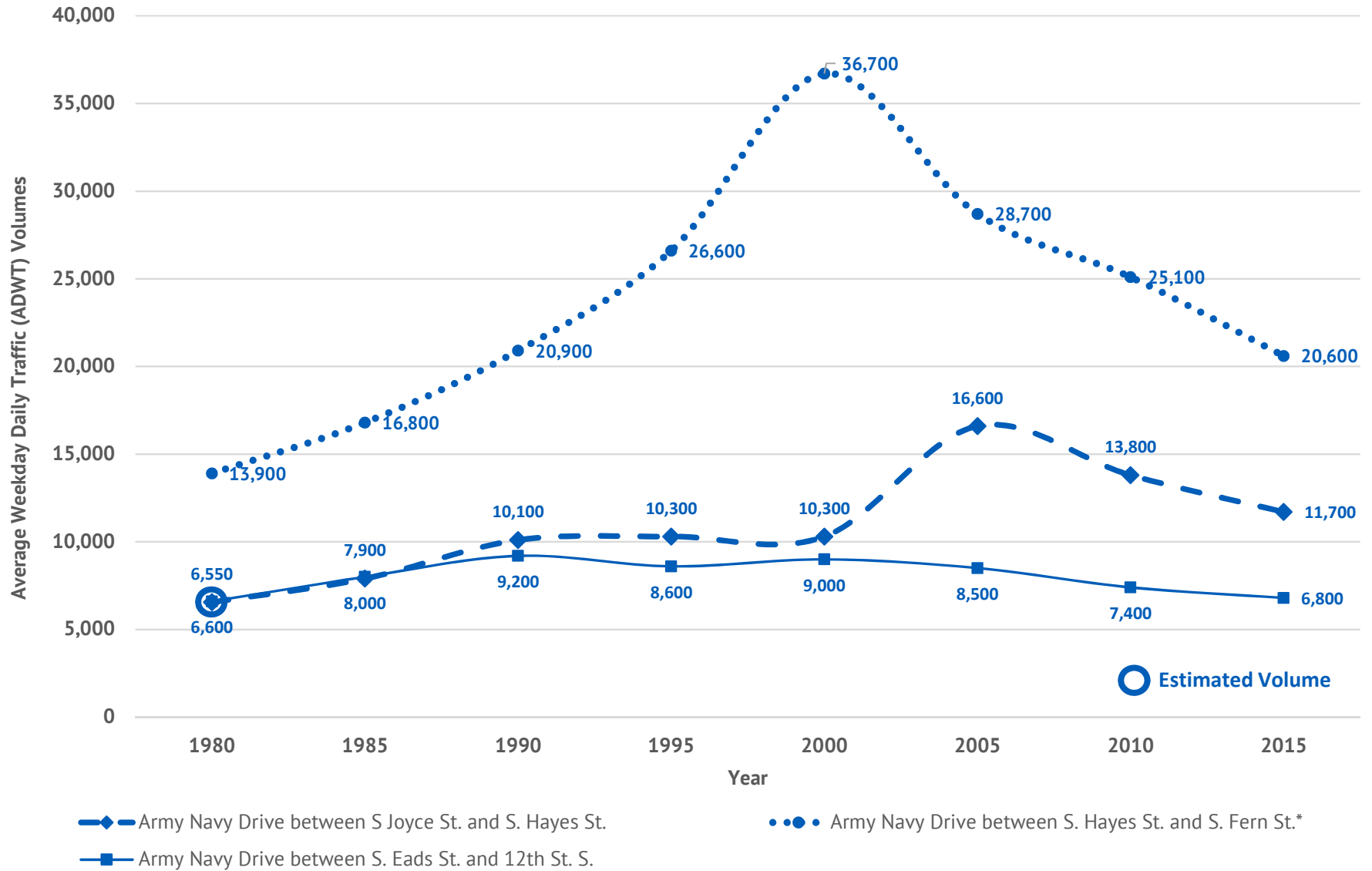
12TH STREET SOUTH LOCATIONS



22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

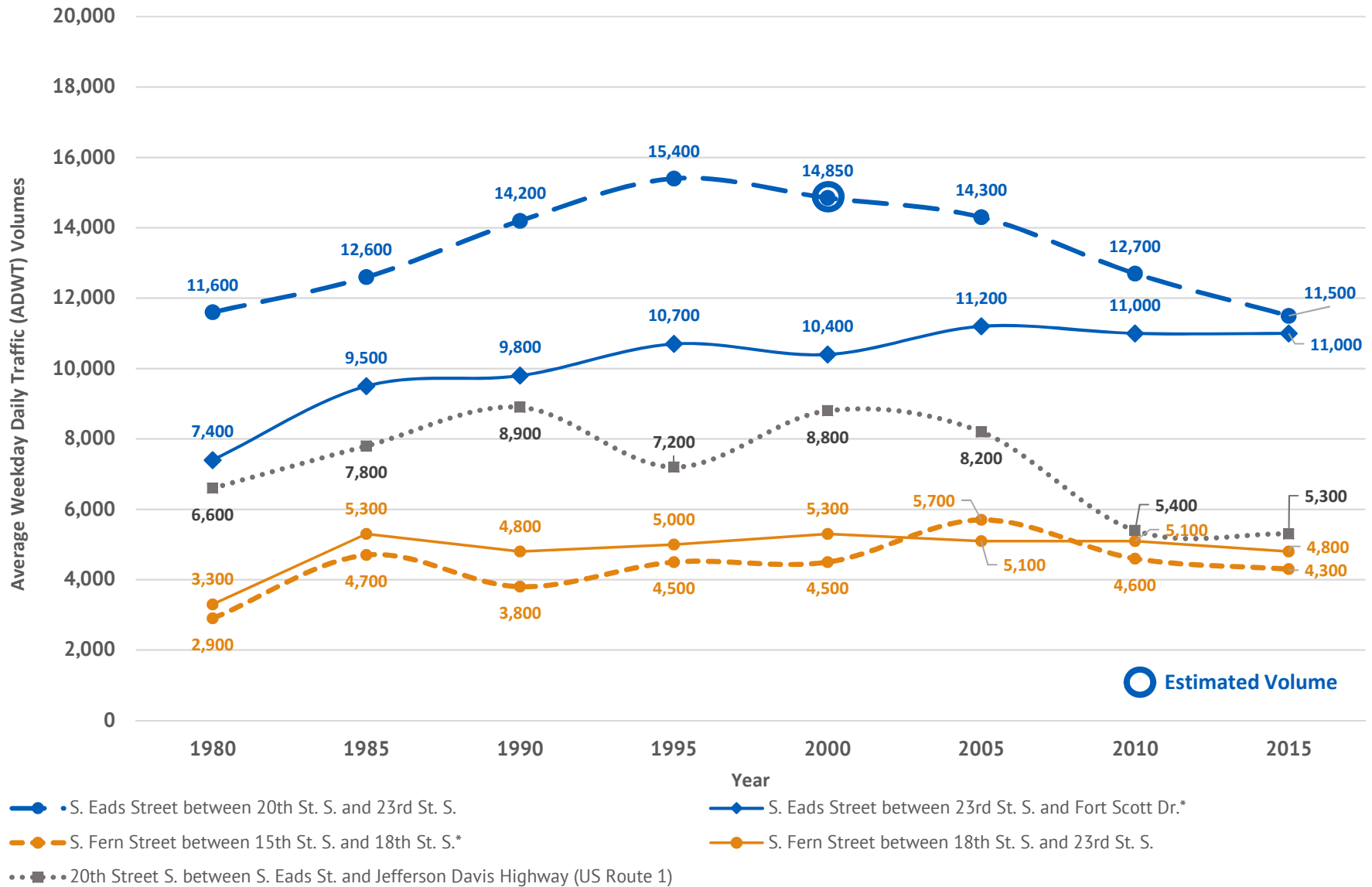
ARMY NAVY DRIVE LOCATIONS



22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

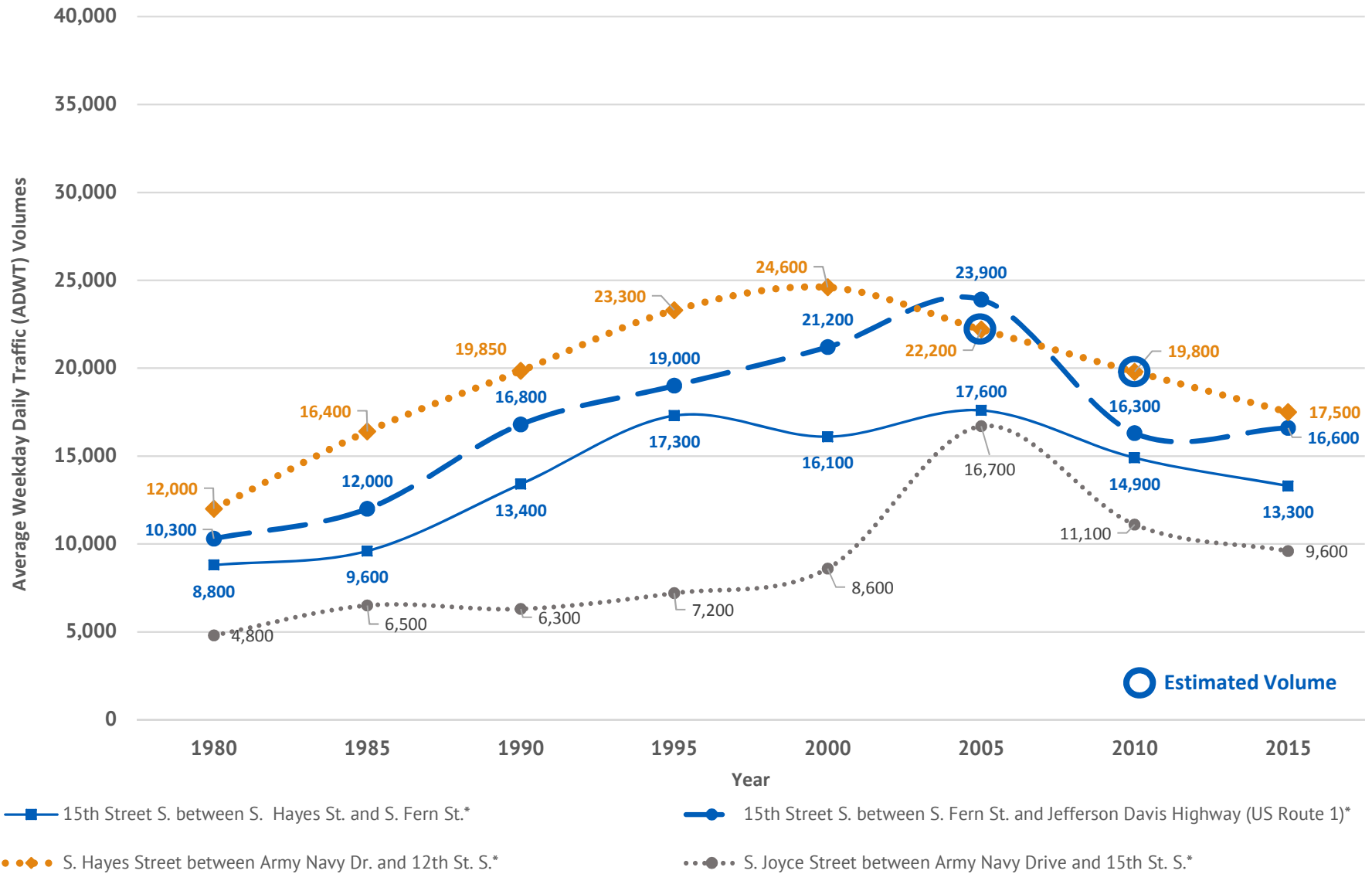
S. FERN ST., S. EADS ST., & 20TH ST. S. LOCATIONS



22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

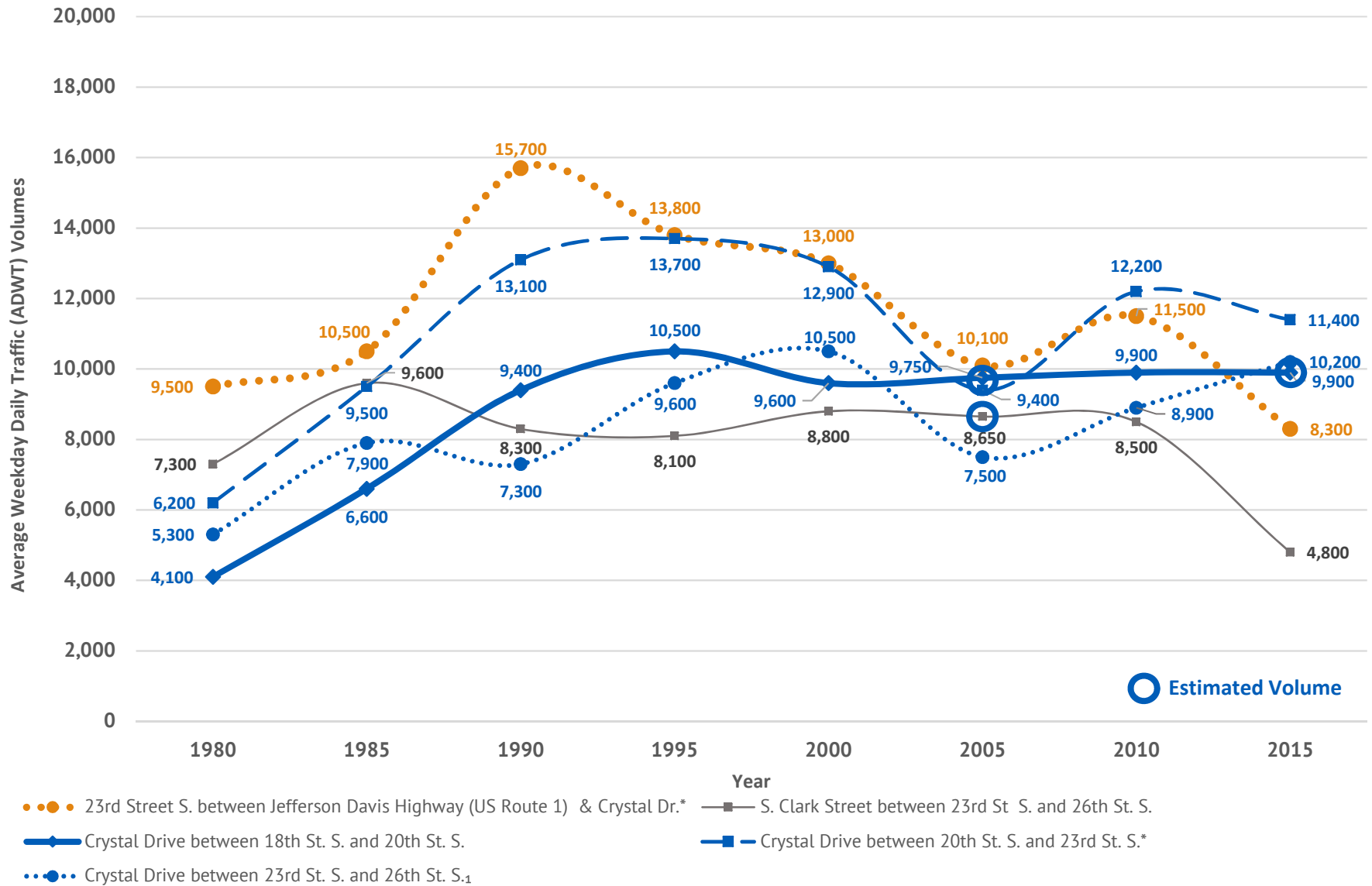
PENTAGON CITY LOCATIONS - 15TH ST. S., S. JOYCE ST., & S. HAYES ST.



22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

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



22202 TRANSPORTATION AND PLANNING DATA COMPILATION & REPORTING

(Arlington County Historic Traffic Count Data (ADWT) for 5 Year Intervals Between 1980 and 2015)

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

