

NATIONAL CAPITAL REGION
TRANSPORTATION PLANNING BOARD

2014 PERFORMANCE OF
HIGH-OCCUPANCY VEHICLE
FACILITIES ON FREEWAYS IN THE
WASHINGTON REGION

DRAFT

May 22, 2015

The preparation of this report was financially aided through grants from the District of Columbia Department of Transportation; Maryland Department of Transportation; Virginia Department of Transportation; U.S. Department of Transportation, Federal Highway Administration; and the U.S. Department of Transportation, Federal Transit Administration, under the Federal Transit Act. The material herein does not necessarily reflect the views of the sponsoring agencies.

ABSTRACT FORM

TITLE: 2014 PERFORMANCE OF REGIONAL HIGH-OCCUPANCY VEHICLE FACILITIES ON FREEWAYS IN THE WASHINGTON REGION	DATE: May 22, 2015 NUMBER OF PAGES: XX PUBLICATION NUMBER: XX PRICE: XX
CREDITS: Richard Roisman, Program Administration C. Patrick Zilliacus, Project Manager, Data Processing and Report Author Andrew Burke, Field Supervisor, Data Processing and Review	
AGENCY: The Metropolitan Washington Council of Governments is the regional organization of the Washington area's major local governments and their governing officials. COG works towards solutions to such problems as growth, transportation, inadequate housing, air pollution, water supply, water quality, economic development and noise, and serves as the regional planning organization for Metropolitan Washington.	
REPORT ABSTRACT: This report contains a summary of data collected from high-occupancy vehicle (HOV) facilities located along freeways in the Washington, D.C. metropolitan region.	
SUBJECT: 2014 Performance of Regional High-Occupancy Vehicle Facilities on Freeways in the Washington Region	
ORDER COPIES FROM: Metropolitan Information Center Metropolitan Washington Council of Governments Suite 300 777 North Capitol Street, N.E. Washington, D.C. 20002-4239 Telephone (202) 962-3256 (1 - 5 P.M.) World Wide Web http://www.mwcoq.org	
COPYRIGHT © 2015 Metropolitan Washington Council of Governments	

EXECUTIVE SUMMARY

Presented in this report is information developed from data collected in Spring 2014 along five operational high-occupancy vehicle (HOV) corridors in the Washington region. Data were collected from 5 A.M. to 10 A.M. during the inbound peak-flow direction. HOV lanes are operational in the following corridors as of Spring 2014:

- I-95/I-395 (Shirley Highway) in Northern Virginia (fully-barrier-separated HOV lanes);¹
- I-66 inside the Capital Beltway in Fairfax and Arlington Counties (exclusive HOV facility in the peak commute direction during the peak commute period);
- I-66 outside the Beltway in Fairfax and Prince William Counties (concurrent-flow HOV lanes);
- I-270 (and the I-270 Spur) in Montgomery County, Maryland (concurrent-flow HOV lanes);
- Va. 267 (Dulles Toll Road), which has a concurrent-flow HOV lane; and
- U.S. 50 (John Hanson Highway) in Prince George's County, Maryland (concurrent-flow HOV lane).

Most comparisons are made with results obtained from the previous Regional HOV Facilities Monitoring reports for 1997, 1998, 1999, 2004, 2007 and 2010.

Trends and changes are emphasized for the HOV restricted periods inbound and outbound. The following major trends were observed:

- All of the HOV lanes in Spring 2014 were observed to carry more persons per lane during the HOV-restricted periods than adjacent non-HOV lanes except on U.S. 50;

¹ All data were collected before the change to the 95 Express (HOV/Toll) lanes was done along I-95 and I-95 between Dumfries and Turkeycock Run.

- Most of the HOV lanes provide savings in travel times when compared to non-HOV alternatives, especially the barrier-separated HOV lanes in the I-95/I-395 corridor in Northern Virginia;
- However, the performance of the concurrent-flow HOV lanes in the I-66 lanes (outside I-495) and along I-270 were still slow, as well as sections of the exclusive I-66 HOV facility inside I-495; and
- Average auto occupancy in 2014 was little-changed from 2010, even though the HOV lanes in Northern Virginia continue to exempt vehicles with “Clean Air” registration plates from the HOV requirement.

TABLE OF CONTENTS

EXECUTIVE SUMMARY..... iii

TABLE OF CONTENTS v

LIST OF ILLUSTRATIONS.....vi

I. INTRODUCTION 1

II. BRIEF HISTORY OF HOV IN THE WASHINGTON REGION 5

III. DESCRIPTION OF THE HOV CORRIDORS 7

 I-395/I-95 (Shirley Highway) 9

 I-66 11

 I-270 13

 Va. 267 (Dulles Toll Road) 15

 U.S. 50 (John Hanson Highway) 17

IV. METHODOLOGY 19

V. HOV FACILITY PERFORMANCE 23

 Average Auto Occupancy 23

 Person Movements..... 30

 Travel Times..... 31

VI. CONCLUSIONS 41

APPENDIX AA.M. HOV Occupancy/classification Counts

APPENDIX B
A.M. Travel Time Run Routes (HOV and Non-HOV) and Data

APPENDIX CCounting Site Locations

APPENDIX D Occupancy and Classification Details

APPENDIX E Van-pool Monitoring Method

APPENDIX F Travel Time Run Methodology

APPENDIX G Glossary of Abbreviations and Terms

ILLUSTRATIONS

FIGURES	PAGE
1. Map of Regional HOV Facilities	3
2. Map of I-95/I-395 corridor	10
3. Map of I-66 corridor	12
4. Map of I-270 corridor.....	14
5. Map of Va. 267 corridor	16
6. Map of U.S. 50 corridor.....	18

TABLES

1. 2014 HOV Facility Summary.....	8
2. 2014 Regional HOV Monitoring Number of 'Floating Car' Travel Time Runs by Facility & Time Period	21
3. Observed average auto occupancies in the A.M. peak direction during HOV-restricted periods (Spring, 2014)	26
4. 2014 Observed average HOV auto occupancies in the A.M. Peak Direction Over Time	28
5. Observed person movements in the A.M. peak direction during HOV-restricted periods (Spring, 2014).....	32
6. A.M. peak hour person movements during HOV-restricted periods (Spring 2014).....	34
7. Mean A.M. Peak Period / Peak Direction Travel Times Over Time by Facility	36
8. A.M. Peak Direction Travel Time Summary for HOV and non-HOV Lanes	38

I. INTRODUCTION

High occupancy vehicle (HOV) facilities are designed to offer several advantages over conventional lanes and roads. HOV facilities can:

- increase the average number of persons per motor vehicle using a highway over conventional (non-HOV) lanes or roadways;
- preserve the person-moving capacity of a lane or roadway as demands for transportation capacity increase;
- enhance bus transit operations;
- support air quality goals; serve a variety of employment centers in urban and suburban areas; and
- provide predictable travel times even during periods of high demand for highway capacity.

In the Washington area, there are five high-occupancy vehicle (HOV) facilities on highways functionally classified as freeways. These are:

- I-95/I-395 (Shirley Highway) in the Northern Virginia counties of Prince William, Fairfax and Arlington, and the City of Alexandria;
- I-66, also in the Virginia counties of Prince William, Fairfax and Arlington (this HOV system includes a section of the Dulles Connector in McLean, connecting to Va. 267's HOV lanes (see below));
- I-270 and the I-270 Spur in Montgomery County, Maryland;
- Virginia Route 267 (Dulles Toll Road), connecting to I-66 via the Dulles Connector; and
- U.S. 50 (John Hanson Highway) in Prince George's County, Maryland.

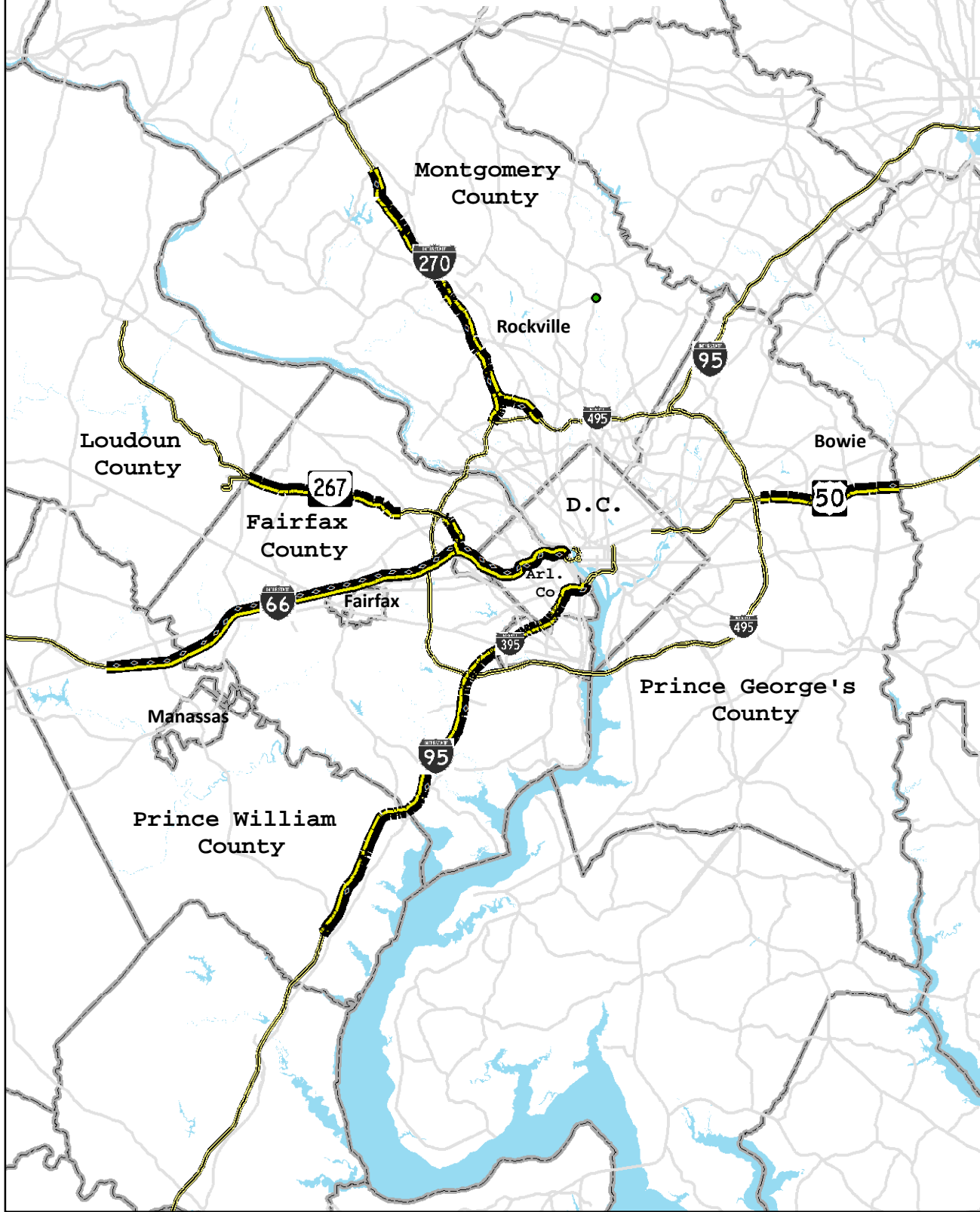
The Shirley Highway and I-66 HOV facilities provide direct access to core employment centers of the region in Arlington County and the District of Columbia. I-270 and the I-270 Spur end at the Capital Beltway (I-495) and the new U.S. 50 HOV lanes end just prior to the Beltway. Va. 267's HOV system connects directly to I-66, providing access to the regional core from the Dulles Toll Road Corridor. A map of all five facilities is shown in Figure 1. There are arterial HOV lanes and bus-only shoulder treatments in the region, but these facilities are beyond the scope of this report. This report contains data collected during the Spring of 2010. Vehicle occupancy and classification counts, as well

as the results of travel time runs are documented in this report. Previous reports have documented conditions on the HOV system in fall 1997, 1998, 1999, 2004, 2007 and 2014. Comparisons are given in this report between HOV performance in 2010 and performance in these previous years.

This report is organized as follows:

A history of HOV in the Washington metropolitan area is presented in Chapter II; a description of the HOV corridors is given in Chapter III; a description of the methodology used to collect data for this report is found in Chapter IV; the performance of each of the HOV facilities is presented in Chapter V; conclusions are presented in Chapter VI; detailed summaries of person movements in the A.M. peak direction at stations along the five corridors are contained in Appendix A; similar data for the P.M. peak direction are in Appendix B; A.M. travel time run data are contained in Appendix C; P.M. travel time run data are contained in Appendix D; count locations are described in Appendix E; the counting methodology is described in Appendix F; a summary of van-pool monitoring methodology (and van load factor) is contained in Appendix G; travel time data collection methodology is described in Appendix H; and a glossary of terms and abbreviations used in this report can be found in Appendix I.

Figure 1 HOV System Overview



II. BRIEF HISTORY OF HOV IN THE WASHINGTON REGION

Car-pooling has a long history in the Washington region, going at least as far back as World War II, when pooling by office workers in Washington was encouraged as a way of preserving scarce petroleum, rubber, and other resources for the war effort.

Since the gasoline shortages of the early 1970's, COG/TPB has provided an automated matching service for carpools and vanpools through its Commuter Connections program. Signs with Commuter Connections' telephone number have been placed along all five HOV corridors.

In 1969, a bus-on-freeway demonstration project began on the Shirley Highway (now known as I-395 north of the Capital Beltway and I-95 south of the Beltway), linking the Springfield area of Fairfax County and intermediate points in the corridor such as western Alexandria and Shirlington to core employment areas in Arlington and downtown Washington. Initially limited to buses only, the barrier separated lanes opened to carpools and vanpools in 1975, with a restriction of HOV-4, which was reduced to HOV-3 in 1989. During the early and mid-1990's, the barrier separated HOV lanes were extended from Springfield south along I-95 to their present terminus just south of Va. 234 near Dumfries in Prince William County.

In 1982, I-66 was opened to traffic between the Capital Beltway (I-495) and Rosslyn, in Arlington County, as a multi-modal facility limited to high occupancy vehicles in the peak commute direction during periods of peak demand. The facility was initially restricted to HOV-4 traffic, which was lowered to HOV-3 in late 1983 and to HOV-2 in March 1995. During the 1990s, I-66 outside the Beltway was expanded to include a concurrent flow HOV lane to Virginia Route 234 (Business) in Prince William County just north of Manassas.

The first HOV lane on an Interstate highway in Maryland opened along the northbound lanes in the P.M. peak direction of I-270 between the Capital Beltway/Rockville Pike (I-495/Maryland 355) interchange and the I-270 Spur in 1993. A southbound HOV lane in the A.M. peak direction was opened along this segment in 1994. In December 1996, a conventional lane was converted to HOV use in the southbound direction from I-370/Sam Eig Highway to the I-270 "split" in North Bethesda. Northbound, a conventional lane was converted to HOV from the "split" to Maryland 118 at Germantown, and a new lane for HOV use was opened from Maryland 118 to Maryland 121 at Clarksburg. New HOV lanes were also opened in both directions on the I-270 Spur, along with direct access HOV ramps that eliminate the need for HOV traffic to weave across the non-HOV lanes. Except for the direct HOV ramps at the I-270 "split," HOV lanes along the I-270 corridor are concurrent flow. In 2004, a new ramp connecting the southbound HOV lane of the I-270 Spur (in A.M.) and the northbound HOV lane of the Spur (in P.M.) was completed and opened to traffic.

HOV lanes were opened on Va. 267 in December 1998, and a large park-and-ride garage was opened adjacent to Va. 267 in Herndon.

Concurrent flow HOV lanes were opened on a 7.8-mile stretch of U.S.50 John Hanson Highway in October 2002. These are the only HOV lanes in the region which are HOV-restricted 24 hours/day, 7 days/week.

III. DESCRIPTION OF THE HOV CORRIDORS

Summaries of physical characteristics and operational policies effective in the Spring of 2014 are presented in this chapter. All corridors have an extensive system of park-and-ride lots to support car-pool formation.² In some cases, these lots are located a considerable distance beyond the "outer" termini of the HOV lanes. Other park-and-ride lots are located in the right-of-way of the freeway, and some lots in the I-95/I-395 corridor feature direct HOV-only access ramps to the barrier-separated HOV lanes. There are two HOV-only ramps along I-66 west of the Beltway, at Monument Drive and at Stringfellow Road. The I-270 Spur has HOV-only lanes at Westlake Drive in North Bethesda.

A description of the operating characteristics for all of the HOV facilities monitored is presented in Table 1.

² Please see the COG/TPB report *Washington Regional Park-and-Ride 1995 Inventory and Analysis* for a detailed description of lot locations and utilization.

**Table 1
2014 HOV Facility Summary**

Facility Route Number(s) and Name	Length	Facility Description	Occupancy Requirement	Hybrid Exemption	A.M. HOV Restricted Period and Direction	Truck Restrictions	Motorcycle Restriction
I-95/I-395 Shirley Highway (see note below)	28 miles	2 lanes, barrier-separated, reversible	3	Yes	6:00 to 9:00 (North)	Permitted with Occupancy Compliance North of Dale City (Exit 156), Prohibited South of Dale City	Permitted on all HOV facilities
I-66	28 miles (HOV lane extension to Va. 234 Bypass opened in 2007 after data collection was completed)	1 Lane Concurrent Flow Outside of the Beltway, 2 Lane exclusive HOV facility inside the Beltway	2	Yes	5:30 to 9:30 AM Outside Beltway; 6:30 to 9:00 AM Inside Beltway (East)	Prohibited	
I-270	9 miles Southbound; 18 miles Northbound	1 Lane Concurrent Flow	2	No	6:00 to 9:00 AM (South)	Prohibited	
Va. 267 Dulles Toll Road	23 miles (includes Dulles Connector Road and I-66 from Rosslyn to Dulles Connector)	1 Lane Concurrent Flow	2	Yes	6:30 to 9:00 AM (East)	Permitted with Occupancy Compliance outside Beltway	
U.S. 50	9 miles	1 Lane Concurrent Flow	2	No	HOV-2 restriction in effect 24 hours/day, 7 days/week (West and East)	Prohibited	

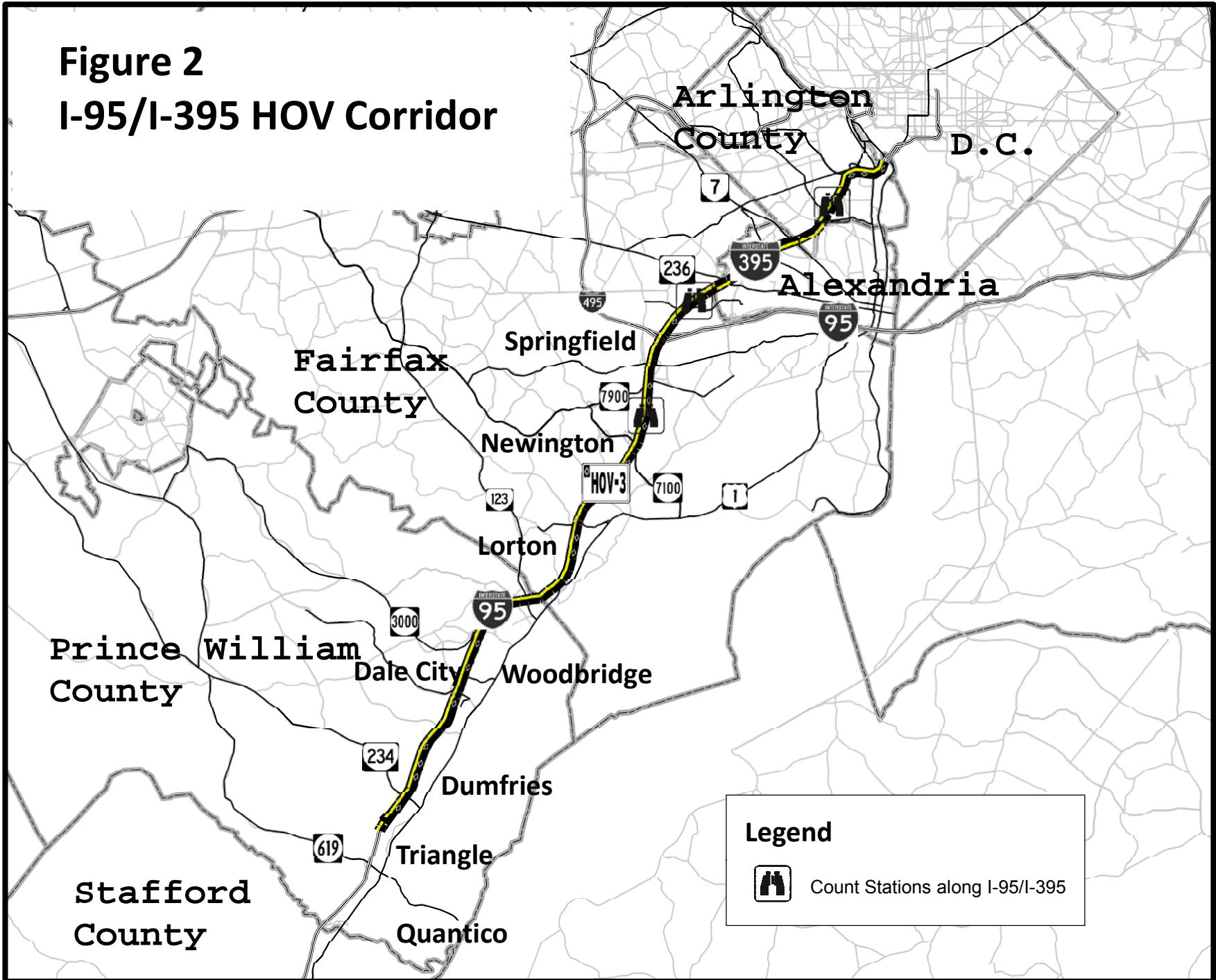
I-395/I-95 (Shirley Highway)

The HOV lanes in this corridor are entirely barrier-separated, and reversible, so they serve A.M. peak period northbound movements and operate southbound in the P.M. peak period. The HOV roadway is about 27 miles long, extending from Virginia Route 234 (Dumfries Road) near Dumfries, Prince William County to South Eads Street near the Pentagon in Arlington County. Several HOV only ramps provide direct access to the HOV lanes from park-and-ride facilities in Prince William County. At the northern end of the facility, HOV-only ramps are provided to traffic arriving at the Pentagon and the Pentagon City area of Arlington.


There is approximately one mile of barrier-separated roadway north of the Pentagon, crossing the 14th Street Bridge into the District of Columbia, but no HOV restrictions currently apply to this portion of the facility.³ A map of the corridor is presented in Figure 2. The corridor is also served by the Virginia Railway Express (VRE) Fredericksburg Line. The Metrorail Blue Line terminates in the corridor at Franconia-Springfield. Numerous bus lines serve the corridor, including Metrobus, the City of Alexandria's DASH, the Fairfax Connector, PRTC OmniRide, and private motor coach companies serving communities in Stafford and Spotsylvania Counties and the City of Fredericksburg.

³ HOV restrictions on the I-395 express lanes in the District of Columbia were removed in the late 1980's.

Figure 2
I-95/I-395 HOV Corridor



Legend

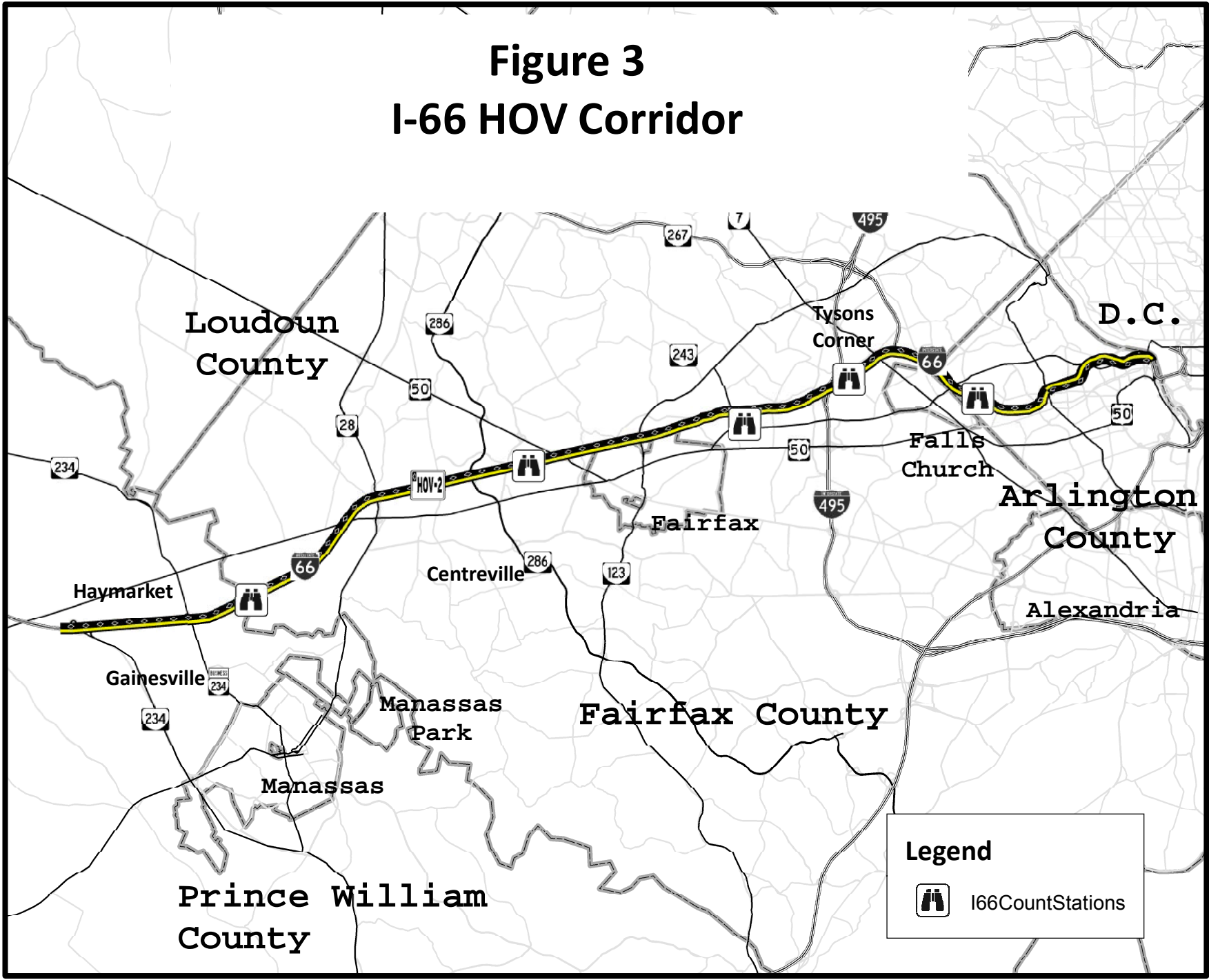
 Count Stations along I-95/I-395

I-66

This HOV corridor consists of two distinct sections. Between the Capital Beltway (I-495) and Rosslyn, I-66 is restricted to HOV use only during the peak commute period in the peak direction. The Dulles Connector Road is subject to the same HOV restrictions as I-66 between Virginia Route 123 (Dolley Madison Boulevard) at McLean and I-66. Single-occupant vehicles (SOV) traveling to or from Dulles Airport via the Dulles Connector and Dulles Access Road may use I-66, even during its HOV restricted times. Between U.S. 29 near Gainesville and the Beltway, the HOV facility is a concurrent-flow lane. The entire HOV corridor is about 31 miles in length, about 9 miles inside the Beltway and 21 miles outside the Beltway. See Figure 3 for a map.

Direct access to employment centers in Washington, D.C. is provided via the Theodore Roosevelt Bridge over the Potomac River. No HOV restrictions apply along I-66 east of Rosslyn, nor in the District of Columbia. A map of the corridor is presented in Figure 3. The Metrorail Orange Line uses the median of I-66 between Virginia Route 243 (Nutley Street) south of Vienna and Fairfax Drive in Arlington. Four rail transit stations serve this section of the Orange Line. Fairfax Connector service feeding the Vienna Metro stop operates along I-66 west of Vienna. PRTC OmniRide buses, Loudoun County Commuter Express, and private bus service use the I-66 corridor.

Figure 3 I-66 HOV Corridor



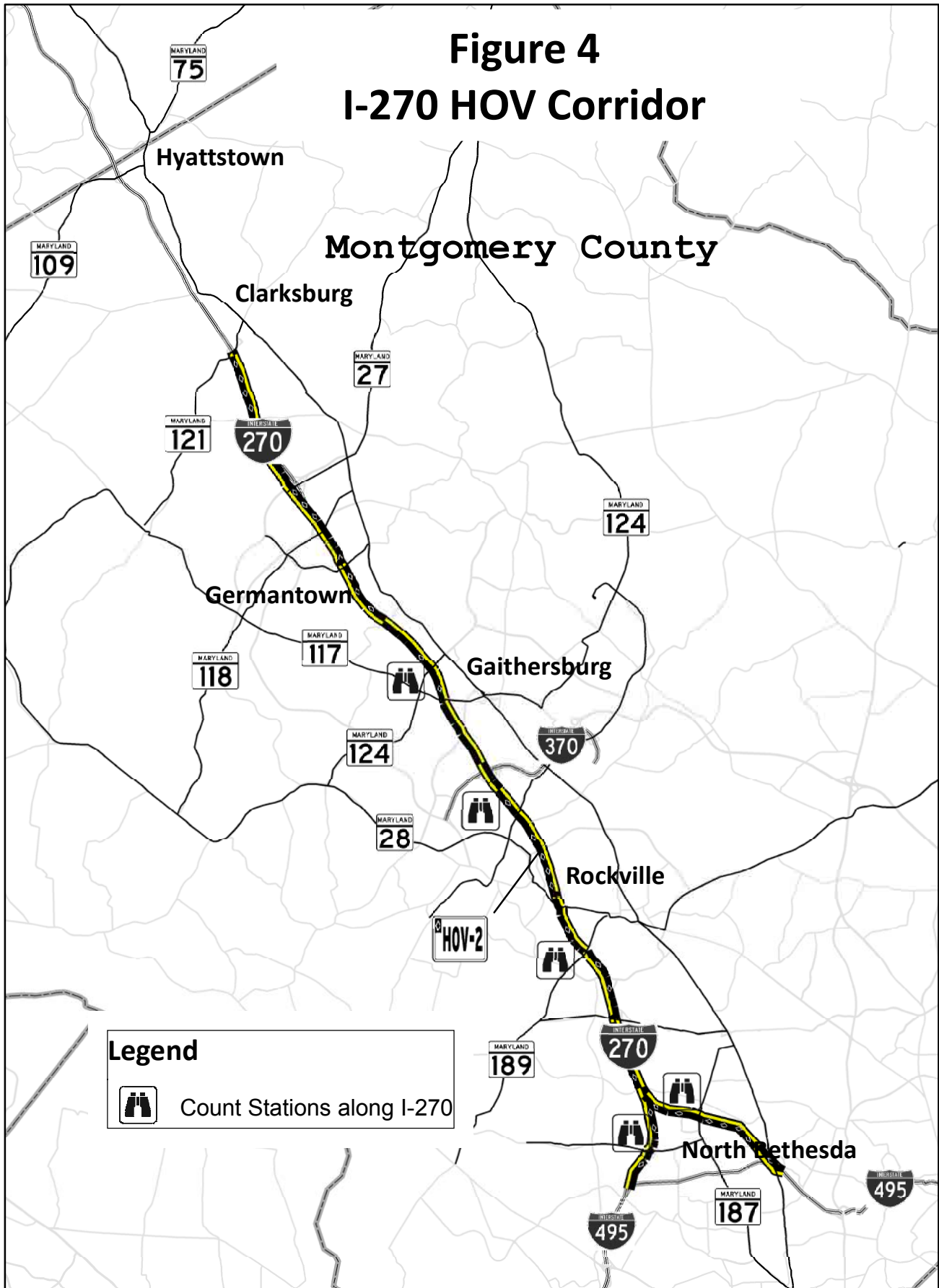
I-270

In the southbound (A.M. peak) direction, the HOV concurrent-flow lane runs from I-370 near Gaithersburg south to the Rockville Pike/Capital Beltway interchange. There is also a concurrent flow HOV lane along the southbound lanes of the I-270 Spur. Together, the A.M. peak-flow direction lanes total about 11 miles in length. The Spur is just under 2 miles long.

A map of the I-270 corridor is shown in Figure 4.

Montgomery County Ride-On serves areas in the corridor north of I-370, and MTA coach service (between Hagerstown, Frederick, and Shady Grove), use the HOV lanes. Express Metrobus service operates on the HOV lanes in the corridor between Bethesda and Gaithersburg.

Figure 4 I-270 HOV Corridor



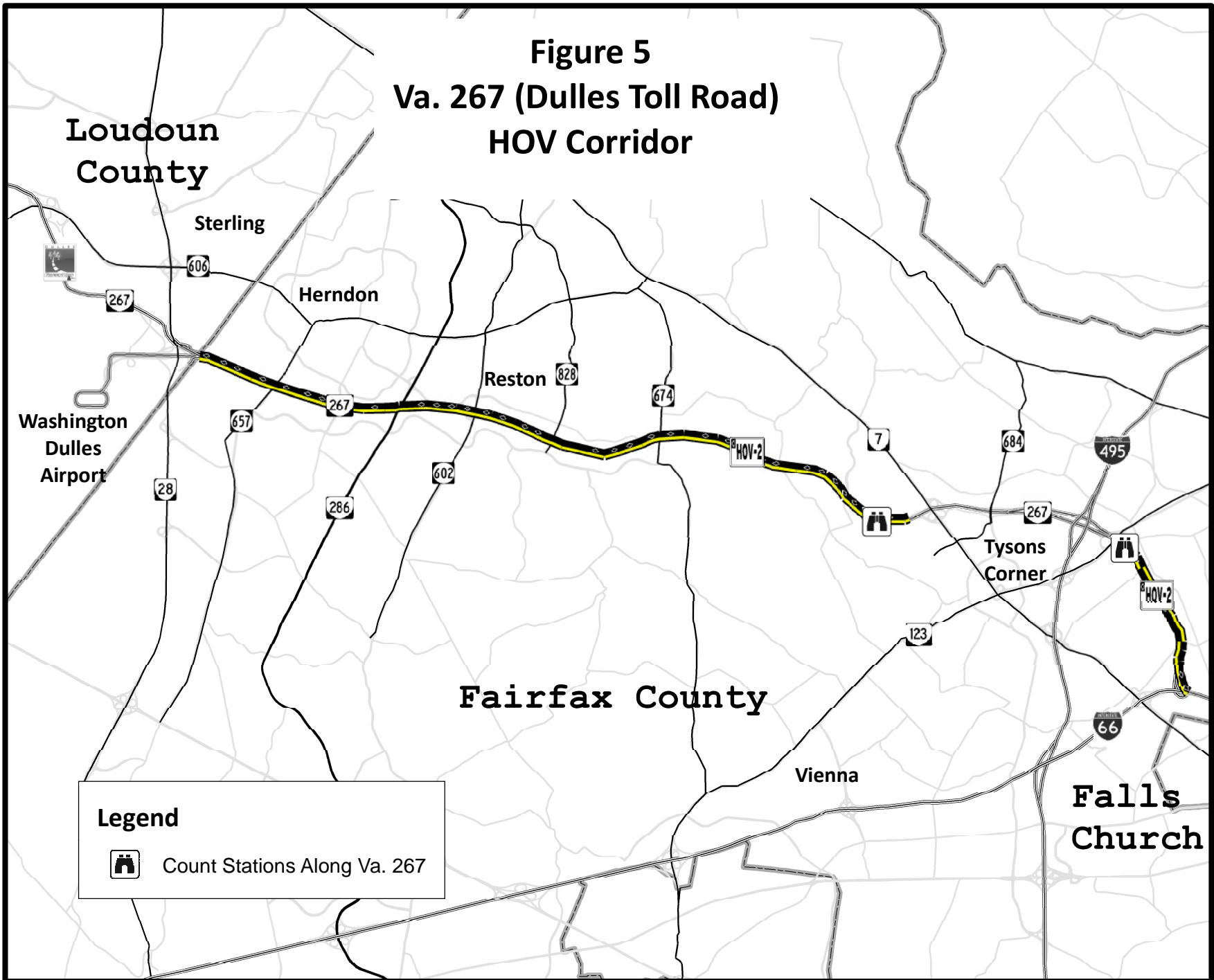
Va. 267 (Dulles Toll Road)

Concurrent-flow HOV lanes operate along this corridor from a point between Va. 28 (Sully Road) and Va. 657 (Centreville Road) to just west of Va. 7 (Leesburg Pike). There are no HOV lanes through the interchanges at Va. 7, the main toll barrier, Va. 684 (Spring Hill Road), I-495 and Va. 123. HOV restrictions apply to all lanes of the Dulles Connector road from east of Va. 123 to I-66. The Fairfax County Department of Transportation provides most transit bus service in the corridor, with the Loudoun County Commuter Express providing commuter bus service from Loudoun County to the Metro Core area (including stops in Rosslyn, Arlington County and downtown Washington, D.C.).⁴ WMATA operates bus service between Washington Dulles International Airport and the L'Enfant Plaza Metrorail station, with intermediate stops at Herndon/Monroe, Tysons Transit center, and the Rosslyn Metrorail station.

Figure 5 contains a map of the corridor.

⁴ By special arrangement with the Metropolitan Washington Airports Authority (MWAA), some buses serving the corridor are permitted to use the Dulles Access Road (normally restricted to airport traffic only).

Figure 5
Va. 267 (Dulles Toll Road)
HOV Corridor



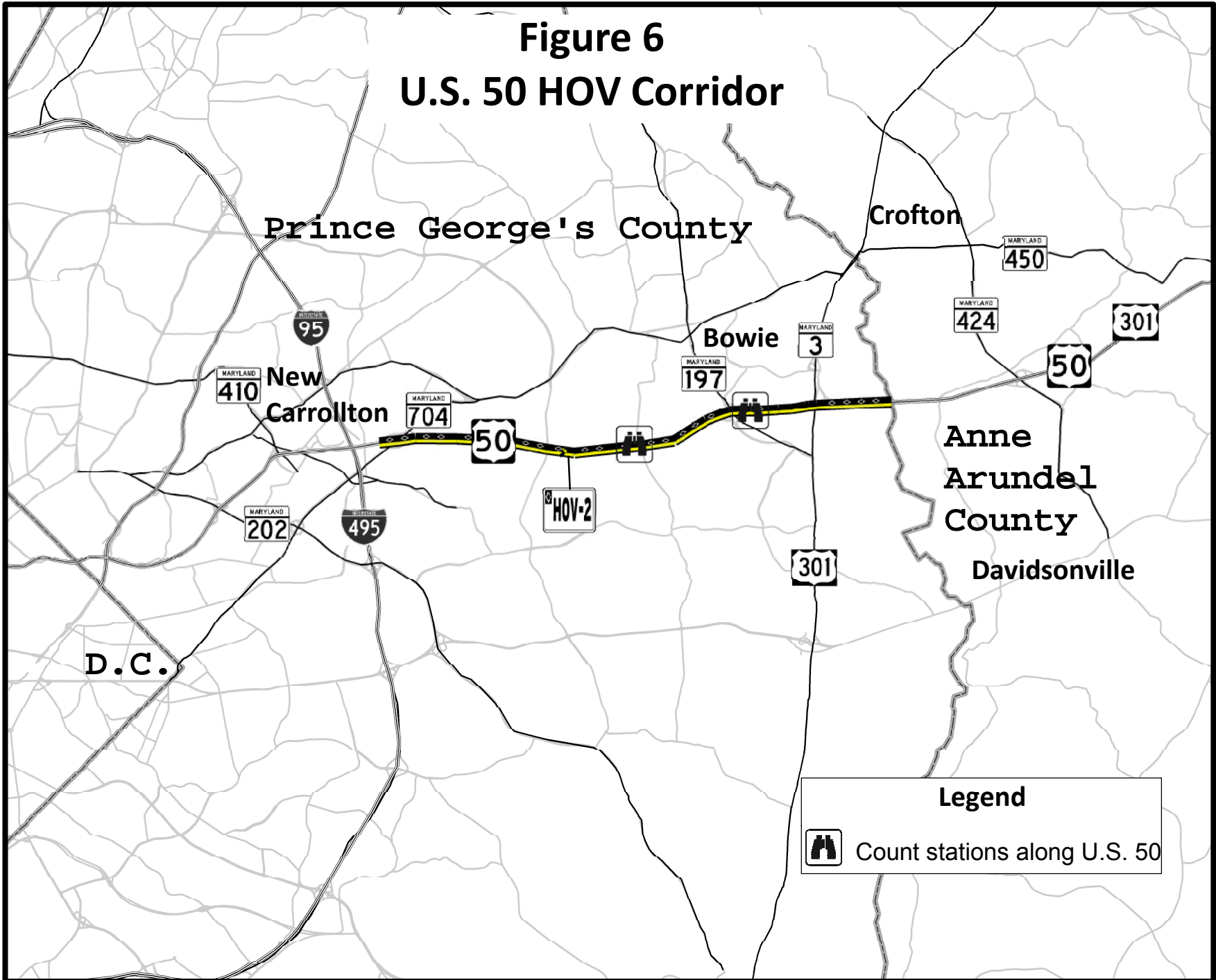
U.S. 50 (John Hanson Highway)

Concurrent-flow HOV lanes operate in the U.S. 50 (John Hanson Highway) Corridor from just west of the Md. 704 Martin Luther King Highway interchange to east of the U.S. 301/Md. 3 interchange in Bowie. Unlike all other HOV lanes in the region, these lanes are HOV-2 restricted at all times (24 hours, 7 days) in both directions.


Buses operated the Washington Metropolitan Area Transit Authority (WMATA) and the Maryland Transit Administration (MTA) operate on the U.S. 50 HOV lanes. To the east, the buses serve the City of Bowie in Prince George's County, the Annapolis and Crofton areas of Anne Arundel County and Kent Island, Queen Anne's County (east of the Bay Bridge). All WMATA buses operating westbound in the corridor terminate at the New Carrollton rail station. Some MTA buses serve the downtown area of the District of Columbia, others terminate at New Carrollton.

Figure 6 depicts the HOV lanes in the John Hanson Highway corridor.

Figure 6
U.S. 50 HOV Corridor



Legend

 Count stations along U.S. 50

IV. METHODOLOGY

The information in this report is multi-modal so that comparisons between the HOV, SOV and transit modes may be made. Data were collected for HOV lanes and adjacent non-HOV lanes, bus transit operating on the HOV lanes.

Data collection was limited to weekdays - Tuesdays, Wednesdays and Thursdays only were used for the maximum load points on the HOV system. No data collection took place in weeks prior to, during, and after the Passover and Easter holidays, nor during the public school spring breaks. Data collection was deferred if the weather forecast predicted steady rainfall, or if a serious freeway incident affected traffic operations. The reader is cautioned that count data presented in this document are based on one-day counts, which may vary significantly from day to day.

Occupancy/Classification Counts

These data were collected at a series of locations along each HOV corridor. Temporary personnel were hired and trained to count and classify vehicles. The personnel count inbound and outbound traffic once at each site on a Tuesday, Wednesday, or Thursday in the Spring from 5 A.M. to 10 A.M. inbound and 3 P.M. to 8 P.M. outbound. All vehicles were classified by vehicle type, and in the case of automobiles, were further grouped by number of occupants (from 1 to 7 persons). Pickup trucks, vans, and panel trucks (excepting 15 passenger van-pool vans) were counted as automobiles if they had exactly two axles and exactly four wheels. The traffic count data are distributed by time of day, in fifteen-minute periods from 5 A.M. to 10 A.M. and 3 P.M. through 8 P.M. The reader is urged to exercise caution in using individual site data due to the normal fluctuations in traffic volumes on individual roadways. Because of heavy traffic on interstate highways in the Washington region, generally one person was assigned to count each travel lane.

Transit Patronage Data

Transit ridership data were obtained from providers of bus and rail service in each corridor. I-95/I-395 corridor transit data were provided by WMATA, Fairfax County Department of Transportation, City of Alexandria, PRTC, and by the private coach operators. I-66 corridor transit data were provided by WMATA, and PRTC. In the I-270 corridor, transit data were collected by WMATA, Montgomery County, and the MTA. Fairfax County Department of Transportation, Loudoun County Department of Planning, and WMATA provided patronage data for the Va. 267 corridor. Ridership data in the U.S. 50 corridor were provided by WMATA and MTA.

Bus ridership data were collected from services operating on HOV facilities only. Rail ridership data were obtained from parallel rail lines at locations similar to the occupancy/classification count stations. Actual patronage data for parallel rail lines is reported in the appendices of this report, as is patronage of "traditional" transit bus

services of WMATA, Montgomery County Ride-On, Alexandria DASH and Fairfax Connector.

Because other buses such as commuter, charter, inter-city and school buses also operate on the HOV facilities, a load factor was developed for each corridor based on commuter bus patronage. The load factors were then applied to each bus observed but not reported above as part of traditional transit services.

Travel Time Runs

Travel time data were collected in the Spring of 2014, using the floating car method. Data were collected with the use of GPS recorder units for each corridor, showing landmarks and associated mile points, which were later translated to elapsed times. To compute travel times for HOV and non-HOV routes, all travel time runs were done in pairs, with one vehicle following the HOV route, and a second vehicle following the parallel non-HOV route.

Morning runs were scheduled to start at the outer limits of each HOV corridor. Runs ran the entire length of the corridor. The number of floating car travel time runs conducted on each facility is presented in Table 2.

Table 2
2014 Regional HOV Monitoring
Number of 'Floating Car' Travel Time Runs by
Facility & Time Period

Facility	A.M. Period	
	HOV	Non-HOV
I-95/I-395 [Shirley Hwy.] between Va. 610 (Stafford) and 14th St. & Independence Ave., S.W. Washington, D.C.	5	5
I-66 between U.S. 15 (Haymarket) and 23rd St. and Constitution Ave., N.W. (Washington, D.C.)	7	4
I-270 between Md. 109 (Hyattstown) and I-495 (at Md. 185 (Connecticut Ave.)	9	5
I-270Y [I-270 Spur] (between Md. 109 (Hyattstown) and I-495 (at Md. 190 (River Rd.))	5	5
Va. 267 [Dulles Toll Rd.] between Va. 28 (Sully Rd.) and 23rd St. and Constitution Ave., N.W. (Washington, D.C.) [via Dulles Connector Rd. and I- 66 inside Capital Beltway]	8	8
U.S. 50 [John Hanson Hwy.] between Md. 424 (Davidsonville Rd.) and Md. 202 (Landover Rd.)	11	11

V. HOV FACILITY PERFORMANCE

HOV facilities can be evaluated using several measures of effectiveness. Examples include average auto occupancy, which is the average number of persons in each auto; total person movements by auto and transit bus; and travel times for users of HOV facilities in comparison with non-HOV or conventional lanes.

Motorist compliance with HOV restrictions is essential in maintaining HOV facility performance. The enforcement of those restrictions is required to maintain travel time savings on HOV facilities. The Virginia and Maryland State Police have primary responsibility for enforcement of HOV restrictions described in this document and located in their respective states. In Virginia, troopers routinely conduct HOV enforcement along with other assigned duties. Additionally, the Virginia Department of Transportation funds State Police overtime to supplement routine enforcement, which is conducted on randomly selected days and locations along all HOV corridors in Northern Virginia, and consists of roving patrols, as well as stationary enforcement on HOV entrance and exit ramps. Fines for HOV violators in Virginia range from \$50 to \$500. In Maryland, troopers assigned to the I-270 and U.S. 50 corridors are aware of the HOV restriction, and enforce HOV restrictions in addition to other duties.

Average Auto Occupancy

Average auto occupancy is a measure of the number of auto drivers and passengers served by a highway facility, and of motorist compliance with HOV restrictions. The numerator of the calculation is the number of auto passengers and drivers observed passing a count station in autos (for the purposes of computing average vehicle occupancy, pickup trucks, panel trucks and vans with exactly four wheels are considered autos). Trucks and transit passengers are not included in the calculation. The numerator also includes the number of van-pools counted times 12 (See Appendix G, Van-pool Monitoring Method). The denominator is the number of autos, auto like vehicles and van-pools counted.

Average auto occupancy gives a rough measure of motorist compliance with HOV restrictions because most vehicles entered into the calculation as single occupancy vehicles are HOV violators. However, this is not always the case. Some vehicles counted are law enforcement vehicles, freeway service patrol trucks and other official highway vehicles permitted to use the HOV lanes, and, in Virginia vehicles with clean fuel registration plates are exempt from the HOV requirement.⁵ In addition, the use of tinted glass in some vehicles makes measurement of occupancy difficult. Field count personnel are instructed to note only the occupants that can be viewed, and this may tend to underestimate average car occupancy. Observed average auto occupancies and the

⁵ The most-common vehicles with these registration plates are hybrid vehicles (including, but not limited to, the Toyota Prius, Honda Civic Hybrid, and the Honda Insight).

number of autos needed to move 1,000 persons at this occupancy rate (HOV and non-HOV lanes) for each of the maximum load locations during the HOV restricted periods in the morning peak direction are presented in Table 3. Comparisons of average occupancy data from 1997, 1998, 1999, 2004, 2007, and 2010 are shown in Table 4.

Average auto occupancies in 2014 during the A.M. peak period were highest on HOV lanes in the corridor with the HOV-3 restriction, I-95/I-395. The average auto occupancy on the I-95 HOV lanes south of I-495 was 2.6 in the AM Peak Period. Meanwhile the average on the I-395 HOV lanes north of Va. 120 (S. Glebe Road) was about 2.8. On facilities designated HOV-2, observed average auto occupancies during the A.M. peak period ranged from 1.7 to 1.9.

Average auto occupancies tend to bounce a little, but overall have remained fairly stable on each facility over time. The Dulles Toll Road had the lowest rate of compliance with average auto occupancy at about 1.6. I-66 outside the beltway has better compliance with about 1.9 in the morning. The south end of the I-270 corridor shows average auto occupancies of 1.8 – 1.9 for HOV-2 and that extends onto both legs of the spur on the southern end of I-270. On U.S. 50 westbound between Md. 197 and Md. 704, occupancy was little changed from 2010 at about 1.9..

**Table 3
Observed average auto occupancies in the A.M. peak direction
during HOV-restricted periods (Spring, 2014)**

Facility	HOV lane average auto occupancies	Number of autos needed to move 1000 persons at HOV occupancy rate	Non-HOV lane average auto occupancies	Number of autos needed to move 1000 persons at non-HOV occupancy - rate
I-395 Shirley Highway between Va. 120 (S. Glebe Road) and Arlington Ridge Road	2.8	360	1.1	910
I-95 Shirley Highway between Va. 7100 (Fairfax County Parkway) and Va. 7900 (Franconia Springfield Parkway)	2.6	380	1.1	910
I-66 between Sycamore Street and Fairfax Drive	1.7	590	N/A	N/A
I-66 between Va. 243 (Nutley Street) and I-495	1.9	530	1.1	910
I-270 between the "split" and Rockledge Drive	1.9	530	1.0	1000
I-270Y (I-270 Spur) between the "split" and Democracy Boulevard	1.8	560	1.0	1000
Va. 267 (Dulles Toll Road) west of Va. 7 (Leesburg Pike)	1.9	530	1.1	910
U.S 50 between Md. 197 (Collington Road) and Md. 704 (MLK, Jr. Highway)	1.6	630	1.0	1000

1.9

Note:

- Average auto occupancy rounded to nearest 1/10.

Table 4
2014 Observed average HOV auto occupancies
in the A.M. Peak Direction Over Time

Facility	Year						
	1997	1998	1999	2004	2007	2010	2014
I-395 Shirley Highway between Va. 120 (S. Glebe Road) and Arlington Ridge Road	2.7	2.6	2.9	2.5	2.5	2.8	2.8
I-95 Shirley Highway between Va. 286 (Fairfax County Parkway) and Va. 289 (Franconia Springfield Parkway)	2.6	2.8	2.8	2.6	2.6	2.5	2.6
I-66 between Sycamore Street and Fairfax Drive	1.8	1.8	1.8	1.7	1.8	1.5	1.7
I-66 between Va. 243 (Nutley Street) and I-495	2.0	1.7	1.9	2.0	1.9	1.8	1.9
I-270 between the "split" and Rockledge Drive	1.9	1.7	1.7	1.9	1.5	2.0	1.9
I-270Y (I-270 Spur) between the "split" and Democracy Boulevard	1.9	1.8	1.8	1.5	1.8	1.9	1.8
I-270 between Montrose Road and the "split"	N/A	N/A	N/A	1.7	1.6	1.9	1.9
Va. 267 (Dulles Toll Road) west of Va. 7 (Leesburg Pike)	N/A	N/A	1.8	1.8	1.8	1.7	1.6
U.S 50 between Md. 197 (Collington Road) and Md. 704 (MLK, Jr. Highway)	N/A	N/A	N/A	1.6	1.9	1.8	1.9

Notes:

- Data in table are rounded.

Person Movements

HOV facilities can move much higher numbers of people than conventional highway lanes can move, especially when motorists comply with HOV restrictions. In addition, HOV facilities serve more travelers in fewer vehicles. Tables 5 and 6 show the number of HOV and non-HOV lanes at maximum load locations in the region and the person movements in the lanes during A.M. peak HOV-restricted periods, respectively.

The ability of HOV facilities to carry more people in fewer vehicles becomes especially apparent during hours of peak demand. Illustrated in Tables 6 and 7 are person movements in the peak hour of the morning HOV restricted periods. In some cases, person moving differences between HOV and non-HOV facilities during the peak hour are significant. For example, during the A.M. peak hour on I-395, the barrier, separated HOV lanes were able to serve 10,100 persons in two lanes, while four conventional lanes moved 8,300 persons. The exclusive HOV section of I-66 served 6,900 persons in one hour in two lanes in the A.M. The concurrent-flow HOV lane along I-66 outside the Beltway served 3,200 persons in the A.M. peak hour, while the three conventional lanes served 5,200 (1,700 persons per lane per hour). Along I-270 south of Montrose Road and north of the "split", the southbound HOV lane served 3,800 persons in the A.M. peak hour, while five conventional lanes served 11,600 persons (1,800 persons per lane per hour).

HOV facilities are designed to provide faster travel times and more predictable speeds than parallel non-HOV facilities (please see Appendices B detailed A.M. travel time run data for 2014, respectively, and Appendix H for a description of the methodology used to collect these data).

To compare the travel times of HOV and non-HOV routes, a set of travel time runs was conducted in each corridor during peak commute periods in 2014. The results showed that in all corridors HOV routes saved time and operated at higher average speeds than parallel non-HOV routes. Travel time runs were previously conducted in 1997, 1999, 2004, and 2007. A comparison of the previous travel time is made with times observed in 2014 in Table 9 for A.M. HOV-restricted periods. The time savings during the A.M. restricted periods in 2014 are greater than those observed in 2010 for the I-95/I-395, due to an apparent deterioration in speeds in the conventional lanes. Conditions in the I-66 corridors have deteriorated for both HOV and non-HOV travel. In the I-270 there is no timesavings associated with using the HOV lanes on I-270 corridor, however there was some savings for HOV travel along the I-270 Spur. The travel time advantage of HOV over non-HOV improved slightly in the U.S. 50 corridor. In the Va. 267 corridor, non-HOV times deteriorated, providing an improvement in timesavings for HOV users.

Table 6
A.M. peak hour person movements during
HOV-restricted periods (Spring 2014)

Facility And peak hour within HOV-restricted period	Number of HOV lanes	HOV lane person movements (autos, van- pools, motorcycles and buses) during peak hour in HOV-restricted period	HOV lane persons per lane per hour	Number of non- HOV lanes	Non-HOV lane person movements during HOV- restricted period	Non-HOV lane persons per lane per hour
I-395 Shirley Hwy. between Va. 120 (S. Glebe Rd.) and Arlington Ridge Rd. 7:00 A.M. to 8:00 A.M.	2	10, 600	5, 300	4	8, 300	2, 100
I-95 Shirley Hwy. between Va. 7100 (Fairfax County Pkwy.) and Va. 7900 (Franconia Springfield Pkwy.) 6:30 A.M. to 7:30 A.M.	2 <i>Includes Newington Flyover Ramp</i>	11, 500	5, 800	4	6, 200	1, 600
I-66 between Sycamore Street and Fairfax Drive 7:45 A.M. to 8:45 A.M.	2	6, 900	3, 500	0 <i>No non-HOV lanes</i>	N/A	N/A
I-66 between Va. 243 (Nutley Street) and I-495 7:00 A.M. to 8:00 A.M.	1	3, 200	3, 200	3	5, 200	1, 700
Va. 267 (Dulles Toll Road) west of Va. 7 (Leesburg Pike) 7:00 A.M. to 8:00 A.M.	1	3, 200	3, 200	3	4, 800	1, 600
I-270 between the "split" and Rockledge Drive 7:45 A.M. to 8:45 A.M.	1	1, 700	1, 700	3	4, 600	1, 500
I-270Y (I-270 Spur) between the "split" and Democracy Boulevard 8:00 A.M. to 9:00 A.M.	1 <i>Includes Westlake Drive Ramp</i>	2, 100	2, 100	3	4, 300	1, 400
I-270 between Montrose Road and the "split" 7:45 A.M. to 8:45 A.M.	1	3, 800	3, 800	5	8, 900	1, 800
U.S 50 between Md. 197 (Collington Road) and Md. 704 (MLK, Jr. Highway) 7:15 A.M. to 8:15 A.M.	1	1, 000	1, 000	3	5, 100	1, 700

Note:

- All person movements rounded to nearest 100

Table 7
Mean A.M. Peak Period / Peak Direction Travel Times Over Time by Facility
(95% Margin of Error in Parenthesis)

Facility	HOV route travel time (minutes)						Non-HOV route travel time (minutes)						Time Savings (HOV Time - Non-HOV Time)					
	1997	1999	2004	2007	2010	2014 (Methodology Change)	1997	1999	2004	2007	2010	2014 (Methodology Change)	1997	1999	2004	2007	2010	2014 (Methodology Change)
I-95/I-395 (northbound) From Va.234 (Dumfries) to the Pentagon <i>HOV route is 28.1 miles</i>	26 (+/- 1)	27 (+/- 1)	29 (+/- 4)	31 (+/- 6)	35 (+/- 8)	29	65 (+/- 6)	58 (+/- 3)	66 (+/- 15)	82 (+/- 22)	76 (+/- 26)	184	39	31	37*	51*	47*	155*
I-66 (eastbound) From Va.234 Business (Manassas) to Va. end of T. Roosevelt Bridge <i>HOV route is 27.8 miles</i>	43 (+/- 3)	41 (+/- 8)	53 (+/- 8)	48 (+/- 9)	66 (+/- 17)	141	71 (+/- 11)	69 (+/- 5)	70 (+/- 14)	76 (+/- 13)	102 (+/- 29)	193	28	28	17*	28*	10*	52*
Va.267/I-66 (eastbound) From Va.28 to Va. end of T. Roosevelt Bridge HOV route is 23.4 miles <i>HOV route is 23.4 miles</i>	N A	31 (+/- 1)	28 (+/- 1)	26 (+/- 2)	47 (+/- 9)	54	N A	51 (+/- 5)	48 (+/- 2)	33 (+/- 5)	77 (+/- 17)	94	N A	20	20*	7	- 14	40
I-270 & East Spur (southbound) From I-370 to Old G'town Road <i>HOV route is 8.8 miles</i>	11 (+/- 1)	18 (+/- 1)	13 (+/- 2)	12 (+/- 4)	23 (+/- 3)	23	16 (+/- 3)	22 (+/- 4)	19 (+/- 3)	20 (+/- 8)	18 (+/- 3)	23	5	4	6	8	- 3	0
I-270 and West Spur (southbound) From I-370 to S end of I-270 Spur <i>HOV route is 8.6 miles</i>	11 (+/- 2)	16 (+/- 3)	14 (+/- 7)	13 (+/- 3)	12 (+/- 3)	20	17 (+/- 4)	23 (+/- 3)	22 (+/- 3)	18 (+/- 5)	16 (+/- 5)	44	6	7	8	5	6	24
U.S.50 (westbound) From U.S.301/Md.3 to I-95/I-495 <i>HOV route is 9.0 miles</i>	N A	N A	9 (+/- 0)	7 (+/- 1)	7 (+/- 1)	13	N A	13 (+/- 2)	12 (+/- 2)	8 (+/- 2)	8 (+/- 1)	20	N A	N A	3	1	1	7

Notes:

- Data in table are rounded to whole minutes.
- I-66 (eastbound) non-HOV route uses I-66 to I-495 (southbound) to U.S.50 (eastbound) to I-66 on T. Roosevelt Bridge
- Va.267 (eastbound) HOV route uses Va. 267 to Dulles Connector Road to I-66 (eastbound)
- Va.267 (eastbound) non-HOV route uses Va.267 to I-495 (northbound) to G.Washington Mem. Parkway (southbound) to I-66 on T. Roosevelt Bridge
- All travel time runs on Va.267 (HOV and non-HOV) performed with an EZ-Pass transponder.
- Travel time savings shown with an asterisk (*) are statistically significant at the 95% confidence level using a Tukey Test for 2004-2010. Time savings without an asterisk are not statistically significant.
- Margins of Error computed at 95% confidence level using two-tailed test.

Table 8 2014 Regional HOV Monitoring A.M. Peak Direction Travel Time Summary for HOV and non-HOV Lanes								
Facility	Facility Section	Length (miles)	HOV Time (mins.)	Non-HOV Time (mins.)	Time Savings		Mean Speeds	
					In Minutes	in Min./Mi.	HOV (MPH)	Non- HOV (MPH)
I-95/I-395	From Va. 234 to the Pentagon	27.6	29	184	155	5.6	57	9
	Outside Beltway	17.5	18	117	99	5.7	57	9
	Inside Beltway	10.7	11	38	25	2.3	60	18
I-66	From U.S. 15 to the T. Roosevelt Bridge	35.3	141	193	52	1.5	15	11
	Outside Beltway	17.8	71	97	26	1.5	15	11
	Inside Beltway	10.5	11	63	52	5.0	58	10
Va. 267	From Va.28 to the T. Roosevelt Bridge (via Dulles Connector and I-66)	23.4	45	94	49	2.1	31	15
	Va. 267 only	14.9	28	60	32	2.1	32	15
I-270	From I-370 to I-495 (passing Md. 187)	9.9	23	23	0	0.0	26	26
	I-270Y (I-270 Spur) From I-370 to I-495 (passing Democracy Blvd.)	11.0	32	44	12	1.1	11	15
U.S. 50	From U.S. 301/Md. 3 to Capital Beltway	6.5	13	20	7	1.1	31	20

Notes:

- Facility Length rounded to nearest 1/10 of a mile
- HOV Times, Non-HOV Times and Time Savings in Minutes rounded to nearest whole minute
- Time Savings rounded to nearest 1/10 of a minute

Table 9
Mean A.M. Peak Period / Peak Direction Travel Times Over Time by Facility
(95% Margin of Error in Parenthesis)

Facility	HOV route travel time (minutes)						Non-HOV route travel time (minutes)						Time Savings (HOV Time - Non-HOV Time)					
	1997	1999	2004	2007	2010	2014 (Methodology Change)	1997	1999	2004	2007	2010	2014 (Methodology Change)	1997	1999	2004	2007	2010	2014 (Methodology Change)
I-95/I-395 (northbound) From Va.234 (Dumfries) to Va. end of 14th St. Bridge <i>HOV route is 28.1 miles</i>	26 (+/- 1)	27 (+/- 1)	29 (+/- 4)	31 (+/- 6)	35 (+/- 8)	37	65 (+/- 6)	58 (+/- 3)	66 (+/- 15)	82 (+/- 22)	76 (+/- 26)	172	39	31	37*	51*	47*	135
I-66 (eastbound) From Va.234 Business (Manassas) to Va. end of T. Roosevelt Bridge <i>HOV route is 27.8 miles</i>	43 (+/- 3)	41 (+/- 8)	53 (+/- 8)	48 (+/- 9)	66 (+/- 17)	75	71 (+/- 11)	69 (+/- 5)	70 (+/- 14)	76 (+/- 13)	102 (+/- 29)	120	28	28	17*	28*	10*	45
Va.267/I-66 (eastbound) From Va.28 to Va. end of T. Roosevelt Bridge HOV route is 23.4 miles <i>HOV route is 23.4 miles</i>	N A	31 (+/- 1)	28 (+/- 1)	26 (+/- 2)	47 (+/- 9)	49	N A	51 (+/- 5)	48 (+/- 2)	33 (+/- 5)	77 (+/- 17)	69	N A	20	20*	7	- 14	20
I-270 & East Spur (southbound) From I-370 to Old G'town Road <i>HOV route is 8.8 miles</i>	11 (+/- 1)	18 (+/- 1)	13 (+/- 2)	12 (+/- 4)	12 (+/- 3)	23	16 (+/- 3)	22 (+/- 4)	19 (+/- 3)	20 (+/- 8)	18 (+/- 3)	23	5	4	6	8	8	0
I-270 and West Spur (southbound) From I-370 to S end of I-270 Spur <i>HOV route is 8.6 miles</i>	11 (+/- 2)	16 (+/- 3)	14 (+/- 7)	13 (+/- 3)	12 (+/- 3)	20	17 (+/- 4)	23 (+/- 3)	22 (+/- 3)	18 (+/- 5)	16 (+/- 5)	44	6	7	8	5	6	24
U.S.50 (westbound) From U.S.301/Md.3 to I-95/I- 495 <i>HOV route is 9.0 miles</i>	N A	N A	9 (+/- 0)	7 (+/- 1)	7 (+/- 1)	12	N A	13 (+/- 2)	12 (+/- 2)	8 (+/- 2)	8 (+/- 1)	27	N A	N A	3	1	1	15

Notes:

- Data in table are rounded to whole minutes.
- I-66 (eastbound) non-HOV route uses I-66 to I-495 (southbound) to U.S.50 (eastbound) to I-66 on T. Roosevelt Bridge
- Va.267 (eastbound) HOV route uses Va. 267 to Dulles Connector Road to I-66 (eastbound)
- Va.267 (eastbound) non-HOV route uses Va.267 to I-495 (northbound) to G.Washington Mem. Parkway (southbound) to I-66 on T. Roosevelt Bridge
- All travel time runs on Va.267 (HOV and non-HOV) performed with an EZ-Pass transponder.
- Travel time savings shown with an asterisk (*) are statistically significant at the 95% confidence level using a Tukey Test for 2004-2010. Time savings without an asterisk are not statistically significant.
- Margins of Error computed at 95% confidence level using two-tailed test.

VI. CONCLUSIONS

When combined with data obtained in 1997, 1998, 1999, and 2004, the 2007 data reveal the following:

- Barrier-separated and exclusive HOV facilities continue to provide substantial savings in travel time;
-
- Concurrent-flow HOV lanes on I-66 and on I-270 appear to be performing poorly in the A.M. peak restricted period;
- HOV lane person throughput on a per lane per hour basis continues to outperform adjacent non-HOV lanes, except in the U.S. 50 corridor and at the two southernmost count stations in the I-270 corridor;⁶ and
- Travel time benefits from the concurrent-flow HOV lanes in the Va. 267 and U.S. 50 corridors have improved somewhat, but this is due to deterioration in non-HOV travel times, not a large improvement in HOV speeds and travel times.

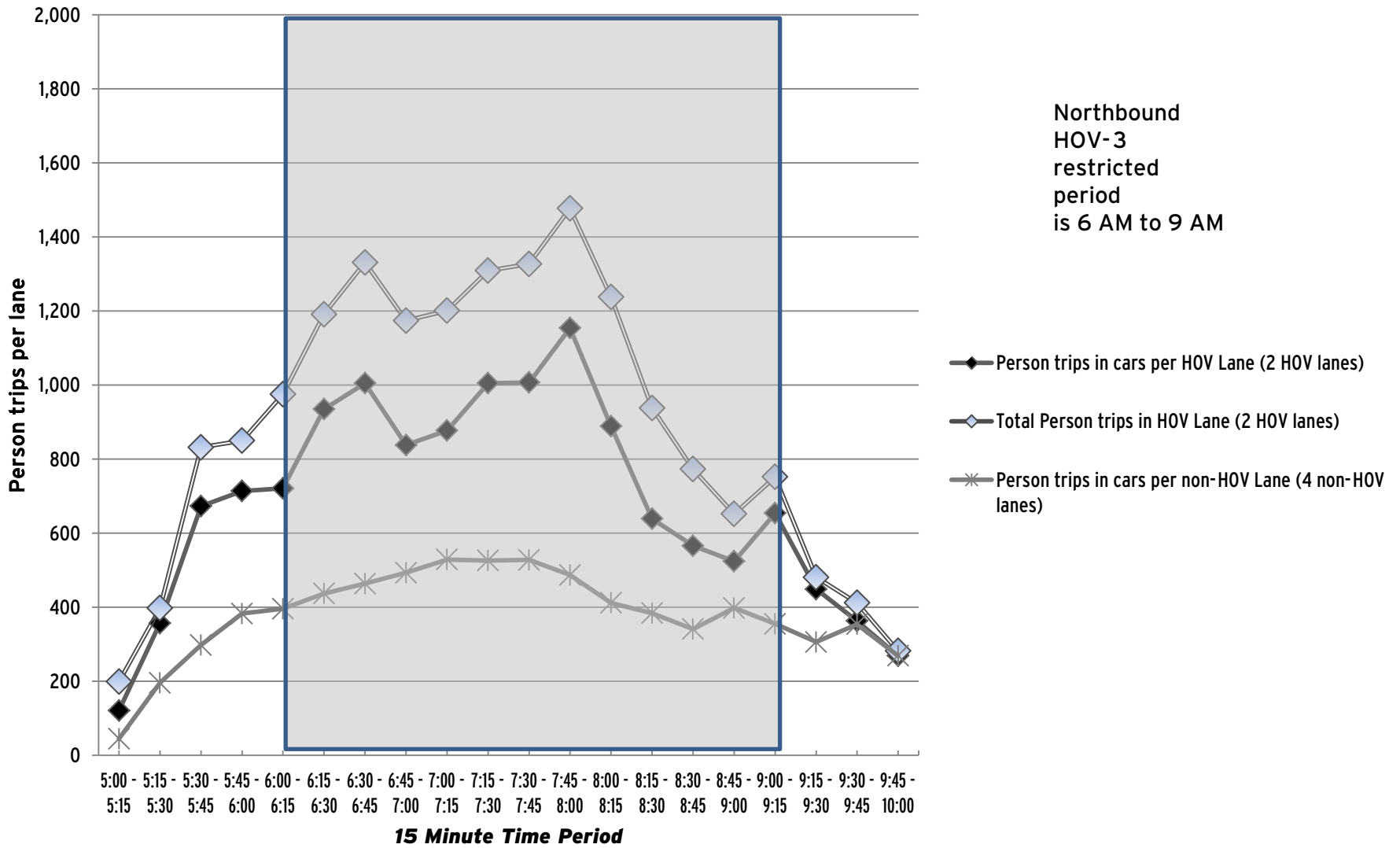
⁶ The two stations at the south end of the I-270 corridor (between the “split” and Rockledge Drive; and I-270Y between the “split” and Democracy Boulevard) could be considered “on ramps” to the HOV facility north of the “split”. When data for the segment of the I-270 HOV lanes just north of the “split” are considered, the performance data are considerably better.

APPENDIX A
A.M. HOV OCCUPANCY/CLASSIFICATION COUNTS

I-395 Northbound at Va. 120 (S. Glebe Road)

A.M. Peak Period - Spring 2014

Observed person trips per lane by 15 minute interval



I-395 northbound between Va. 120 (S. Glebe Road) and Arlington Ridge Road
 All Lanes Total
 Spring 2014 - 20 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	+ Bus Passengers				
5:00 - 5:15	361	19	6	0	1.08	3.17	2	388	420	1	3	33	123	576	0	388	0	0		
5:15 - 5:30	1,193	68	4	12	1.16	9.75	13	1,290	1,498	0	2	0	82	1,580	4	1,294	0	0		
5:30 - 5:45	1,488	195	145	17	1.36	3.94	21	1,866	2,538	1	7	30	287	2,855	11	1,877	0	0		
5:45 - 6:00	1,788	142	201	22	1.36	3.90	17	2,170	2,959	2	6	26	246	3,231	10	2,180	0	0		
6:00 - 6:15	1,438	105	304	36	1.58	3.97	28	1,911	3,027	8	9	138	369	3,534	12	1,923	0	0		
6:15 - 6:30	1,464	177	382	51	1.71	4.07	36	2,110	3,615	8	7	226	287	4,128	20	2,130	0	0		
6:30 - 6:45	1,605	154	424	53	1.70	4.02	31	2,267	3,863	12	10	242	410	4,515	14	2,282	0	0		
6:45 - 7:00	1,749	177	448	12	1.50	3.25	51	2,437	3,648	14	9	302	369	4,319	28	2,465	0	0		
7:00 - 7:15	1,852	198	452	18	1.51	3.35	45	2,565	3,868	17	8	320	328	4,516	25	2,591	0	0		
7:15 - 7:30	1,914	168	537	15	1.53	3.27	55	2,689	4,112	16	7	321	287	4,720	18	2,707	0	0		
7:30 - 7:45	1,822	173	609	6	1.55	3.11	48	2,658	4,126	19	8	312	328	4,766	29	2,687	0	0		
7:45 - 8:00	1,647	159	717	6	1.64	3.08	60	2,589	4,254	24	5	441	205	4,900	23	2,612	0	0		
8:00 - 8:15	1,420	147	528	7	1.60	3.13	36	2,138	3,425	22	4	533	164	4,122	31	2,169	0	0		
8:15 - 8:30	1,349	145	368	4	1.49	3.10	19	1,885	2,813	28	2	515	82	3,410	23	1,908	0	0		
8:30 - 8:45	1,243	112	308	7	1.48	3.21	19	1,689	2,496	17	4	249	164	2,909	25	1,714	0	0		
8:45 - 9:00	1,371	181	274	5	1.43	3.19	17	1,848	2,640	15	0	256	0	2,896	20	1,868	0	0		
9:00 - 9:15	1,514	197	258	3	1.38	3.11	8	1,980	2,728	15	0	197	0	2,925	14	1,994	0	0		
9:15 - 9:30	1,436	159	108	3	1.24	3.27	4	1,710	2,121	5	0	65	0	2,186	13	1,723	0	0		
9:30 - 9:45	1,515	257	26	2	1.18	3.71	8	1,808	2,141	6	1	58	41	2,240	12	1,820	0	0		
9:45 - 10:00	1,226	165	16	0	1.14	3.13	8	1,415	1,614	6	0	26	0	1,640	7	1,422	0	0		

5-Hour Totals

Vehicles	29,395	3,098	6,115	279	N/A	N/A	526	39,413	57,906	236	92	4,290	3,772	65,968	339	39,754	0	0
Persons	29,395	6,196	18,441	3,348			526											

	I-395 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(7:00 AM - 8:00 AM)
Highway Passengers	65,968	48,735	18,902
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	57,906	41,887	16,360
Autos and Motorcycles	39,413	26,786	10,501
Average Auto Occupancy (Includes Motorcycles)	1.47	1.56	1.56

I-395 northbound between Va. 120 (S. Glebe Road) and Arlington Ridge Road
 HOV Lane Total
 Spring 2014 - 20 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	205	10	5	0	1.10	4.00	1	221	242		1	3	33	123	398	0	221	0	0	
5:15 - 5:30	493	38	2	11	1.30	10.62	7	551	714		0	2	0	82	796	4	555	0	0	
5:30 - 5:45	491	118	141	15	1.72	3.87	16	781	1,346		1	7	30	287	1,663	10	791	0	0	
5:45 - 6:00	568	33	193	17	1.74	3.75	9	820	1,427		2	6	26	246	1,699	9	829	0	0	
6:00 - 6:15	153	1	290	32	2.87	3.99	27	503	1,442		8	9	138	369	1,949	11	514	0	0	
6:15 - 6:30	90	19	372	49	3.31	4.07	35	565	1,869		8	7	226	287	2,382	15	580	0	0	
6:30 - 6:45	56	11	422	52	3.52	4.08	30	571	2,009		12	10	242	410	2,661	8	580	0	0	
6:45 - 7:00	98	36	441	11	2.64	3.25	48	634	1,676		14	9	302	369	2,347	20	654	0	0	
7:00 - 7:15	69	45	444	18	2.83	3.38	43	619	1,753		17	8	320	328	2,401	14	633	0	0	
7:15 - 7:30	89	39	532	15	2.77	3.37	51	726	2,010		16	7	321	287	2,618	13	739	0	0	
7:30 - 7:45	73	2	604	6	2.76	3.14	46	731	2,014		19	8	312	328	2,654	22	753	0	0	
7:45 - 8:00	59	5	708	4	2.76	3.08	60	836	2,307		24	5	441	205	2,953	23	859	0	0	
8:00 - 8:15	70	11	524	6	2.75	3.15	36	647	1,778		22	4	533	164	2,475	28	675	0	0	
8:15 - 8:30	93	24	361	3	2.56	3.07	18	499	1,278		28	2	515	82	1,875	22	521	0	0	
8:30 - 8:45	99	16	304	6	2.56	3.17	17	442	1,132		17	4	249	164	1,545	25	467	0	0	
8:45 - 9:00	124	29	266	4	2.38	3.18	16	439	1,047		15	0	256	0	1,303	17	456	0	0	
9:00 - 9:15	359	75	251	3	1.88	3.12	8	696	1,307		15	0	197	0	1,504	6	702	0	0	
9:15 - 9:30	444	61	101	2	1.47	3.22	3	611	897		5	0	65	0	962	5	616	0	0	
9:30 - 9:45	543	67	10	1	1.16	3.82	6	627	725		6	1	58	41	824	6	633	0	0	
9:45 - 10:00	419	43	9	0	1.13	4.14	4	475	538		6	0	26	0	564	4	479	0	0	

5-Hour Totals

Vehicles	4,595	683	5,980	255	N/A	N/A	481	11,994	27,511	236	92	4,290	3,772	35,573	262	12,257	0	0
Persons	4,595	1,366	18,009	3,060			481											

	I-395 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(7:00 AM - 8:00 AM)
Highway Passengers	35,573	27,163	10,626
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	27,511	20,315	8,084
Autos and Motorcycles	11,994	7,212	2,912
Average Auto Occupancy (Includes Motorcycles)	2.29	2.82	2.78

I-395 northbound between Va. 120 (S. Glebe Road) and Arlington Ridge Road
 Non-HOV Lane Total
 Spring 2014 - 20 May 2014

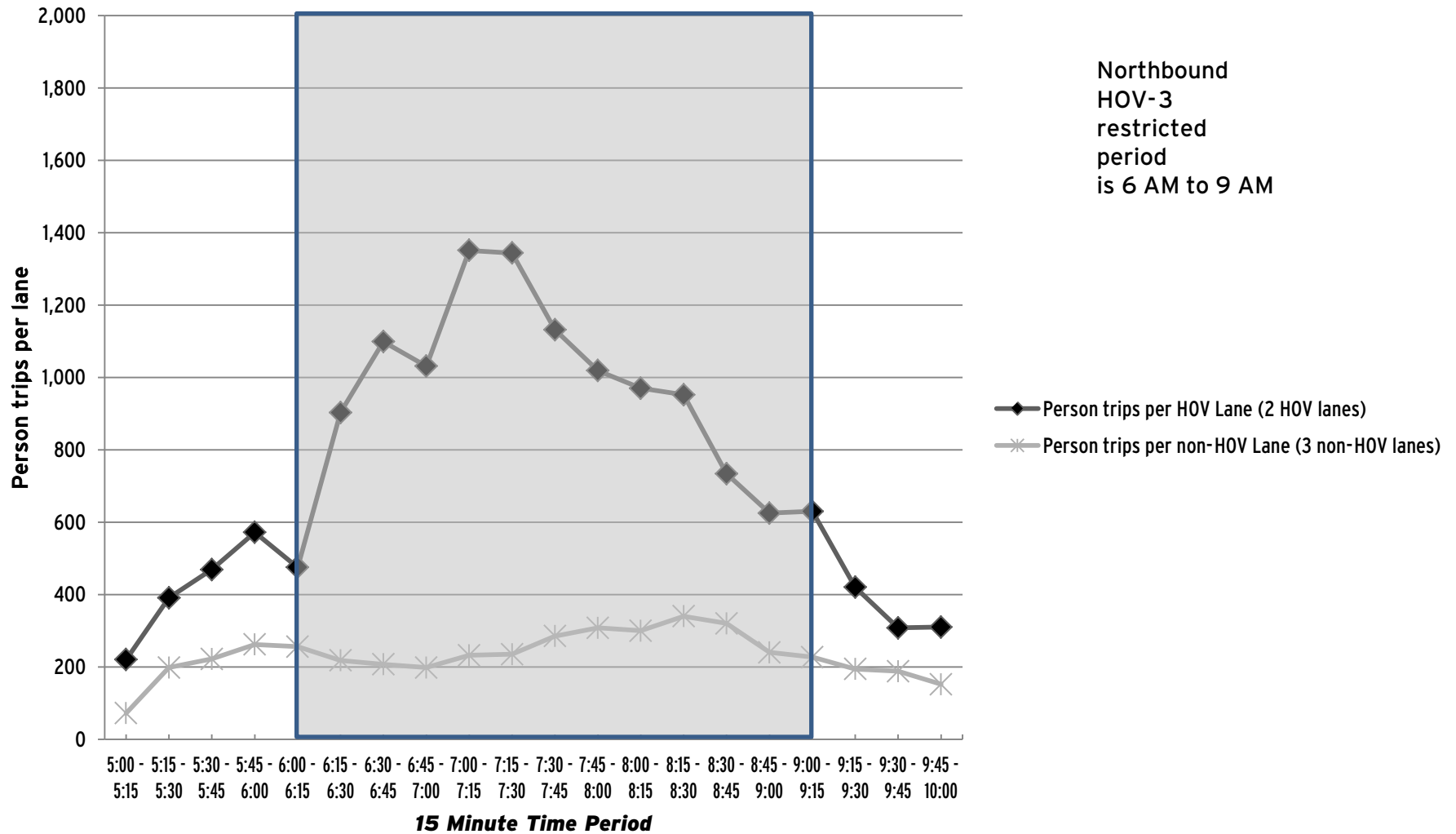
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+Bus Passengers	Trucks			
5:00 - 5:15	156	9	1	0	1.07			167	178	0	0	0	0	178	0	167	0	0	
5:15 - 5:30	700	30	2	1	1.06	6.00	6	739	784	0	0	0	0	784	0	739	0	0	
5:30 - 5:45	997	77	4	2	1.10	6.00	5	1,085	1,192	0	0	0	0	1,192	1	1,086	0	0	
5:45 - 6:00	1,220	109	8	5	1.13	6.62	8	1,350	1,532	0	0	0	0	1,532	1	1,351	0	0	
6:00 - 6:15	1,285	104	14	4	1.13	5.06	1	1,408	1,585	0	0	0	0	1,585	1	1,409	0	0	
6:15 - 6:30	1,374	158	10	2	1.13	4.58	1	1,545	1,746	0	0	0	0	1,746	5	1,550	0	0	
6:30 - 6:45	1,549	143	2	1	1.09	6.00	1	1,696	1,854	0	0	0	0	1,854	6	1,702	0	0	
6:45 - 7:00	1,651	141	7	1	1.09	4.50	3	1,803	1,972	0	0	0	0	1,972	8	1,811	0	0	
7:00 - 7:15	1,783	153	8	0	1.09	3.00	2	1,946	2,115	0	0	0	0	2,115	11	1,958	0	0	
7:15 - 7:30	1,825	129	5	0	1.07	3.00	4	1,963	2,102	0	0	0	0	2,102	5	1,968	0	0	
7:30 - 7:45	1,749	171	5	0	1.10	3.80	2	1,927	2,112	0	0	0	0	2,112	7	1,934	0	0	
7:45 - 8:00	1,588	154	9	2	1.11	4.64	0	1,753	1,947	0	0	0	0	1,947	0	1,753	0	0	
8:00 - 8:15	1,350	136	4	1	1.10	5.00	0	1,491	1,647	0	0	0	0	1,647	3	1,494	0	0	
8:15 - 8:30	1,256	121	7	1	1.11	4.50	1	1,386	1,535	0	0	0	0	1,535	1	1,387	0	0	
8:30 - 8:45	1,144	96	4	1	1.09	5.20	2	1,247	1,364	0	0	0	0	1,364	0	1,247	0	0	
8:45 - 9:00	1,247	152	8	1	1.13	4.56	1	1,409	1,593	0	0	0	0	1,593	3	1,412	0	0	
9:00 - 9:15	1,155	122	7	0	1.11	3.14	0	1,284	1,421	0	0	0	0	1,421	8	1,292	0	0	
9:15 - 9:30	992	98	7	1	1.11	4.38	1	1,099	1,224	0	0	0	0	1,224	8	1,107	0	0	
9:30 - 9:45	972	190	16	1	1.20	3.65	2	1,181	1,416	0	0	0	0	1,416	6	1,187	0	0	
9:45 - 10:00	807	122	7	0	1.14	3.00	4	940	1,076	0	0	0	0	1,076	3	943	0	0	

5-Hour Totals

Vehicles	24,800	2,415	135	24	N/A	N/A	45	27,419	30,395	0	0	0	0	30,395	77	27,497	0	0
Persons	24,800	4,830	432	288			45											

	I-395 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(7:00 AM - 8:00 AM)
Highway Passengers	30,395	21,572	8,276
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	30,395	21,572	8,276
Autos and Motorcycles	27,419	19,574	7,589
Average Auto Occupancy (Includes Motorcycles)	1.11	1.10	1.09

**I-395 Northbound between Va. 648 (Edsall Road) and Va. 236 (Duke Street)
A.M. Peak Period - Fall 2014
Observed person trips per lane by 15 minute interval**



I-395 north between Va. 648 (Edsall Road) and Va. 236 (Duke Street)

All Lanes Total

Fall 2014 - 9 October 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	549	1	1	0	1.01	3.00	7	558	561	0	4	0	164	725	0	562	0	0		
5:15 - 5:30	1,326	0	0	3	1.02	12.00	7	1,336	1,369	0	5	0	205	1,574	0	1,341	0	0		
5:30 - 5:45	1,548	0	0	2	1.01	12.00	7	1,557	1,579	0	7	0	246	1,825	7	1,571	0	0		
5:45 - 6:00	1,814	56	0	3	1.05	12.00	13	1,886	1,975	1	5	12	205	2,192	38	1,930	0	0		
6:00 - 6:15	1,480	2	43	21	1.20	5.95	13	1,559	1,878	1	0	94	0	1,972	38	1,598	0	0		
6:15 - 6:30	1,080	15	264	56	1.80	4.60	36	1,451	2,618	5	0	57	0	2,675	47	1,503	0	0		
6:30 - 6:45	889	6	435	48	1.99	3.91	48	1,426	2,838	4	1	187	0	3,025	72	1,503	0	0		
6:45 - 7:00	815	25	521	17	1.88	3.28	44	1,422	2,676	7	1	176	0	2,852	87	1,517	0	0		
7:00 - 7:15	887	43	636	6	1.86	3.08	39	1,611	2,992	7	10	269	369	3,630	55	1,683	0	0		
7:15 - 7:30	793	65	739	4	1.96	3.05	54	1,655	3,243	4	6	138	246	3,627	50	1,715	0	0		
7:30 - 7:45	1,000	73	625	3	1.78	3.04	38	1,739	3,095	9	3	186	123	3,404	52	1,803	0	0		
7:45 - 8:00	1,111	79	485	3	1.63	3.06	32	1,710	2,793	5	6	231	246	3,270	63	1,784	0	0		
8:00 - 8:15	1,100	55	538	1	1.67	3.02	22	1,716	2,858	5	5	156	123	3,137	34	1,761	0	0		
8:15 - 8:30	1,182	83	448	4	1.59	3.08	23	1,740	2,765	8	10	210	287	3,262	41	1,799	0	0		
8:30 - 8:45	1,087	72	418	3	1.59	3.07	25	1,605	2,548	9	5	77	123	2,748	50	1,669	0	0		
8:45 - 9:00	880	36	295	1	1.51	3.03	27	1,239	1,876	4	6	86	246	2,208	65	1,314	0	0		
9:00 - 9:15	1,070	131	191	1	1.37	3.05	12	1,405	1,929	5	6	35	205	2,169	44	1,460	0	0		
9:15 - 9:30	1,269	92	1	2	1.08	9.00	5	1,369	1,485	2	5	6	123	1,614	76	1,452	0	0		
9:30 - 9:45	1,061	66	1	1	1.07	7.50	8	1,137	1,216	0	4	27	123	1,366	86	1,227	0	0		
9:45 - 10:00	907	69	0	1	1.08	12.00	1	978	1,058	3	5	4	164	1,226	89	1,078	0	0		

5-Hour Totals

Vehicles	21,848	969	5,641	180	N/A	N/A	461	29,099	43,352	79	94	1,951	3,198	48,501	994	30,270	0	0
Persons	21,848	1,938	16,945	2,160			461											

HOV Restricted

	5 Hours	Peak Hour in HOV restricted period		Peak Hour in monitoring period
		Period (6:00 AM - 9:00 AM)	(7:30 AM - 8:30 AM)	(7:30 AM - 8:30 AM)
Highway Passengers	48,501	35,810	13,073	13,073
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	43,352	32,180	11,511	11,511
Autos and Motorcycles	29,099	18,873	6,905	6,905
Average Auto Occupancy (Includes Motorcycles)	1.49	1.71	1.67	1.67

I-395 north between Va. 648 (Edsall Road) and Va. 236 (Duke Street)

HOV Lane Total

Fall 2014 - 9 October 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders +Bus Passengers		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Auto Persons + MC Riders			Transit	Other						
5:00 - 5:15	269	0	0	0	1.00	0.00	6	275	275	0	4	0	164	439	0	279	0	0		
5:15 - 5:30	549	0	0	2	1.04	12.00	4	555	577	0	5	0	205	782	0	560	0	0		
5:30 - 5:45	685	0	0	0	1.00	0.00	6	691	691	0	6	0	246	937	2	699	0	0		
5:45 - 6:00	803	56	0	0	1.06	0.00	12	871	927	1	5	12	205	1,144	5	881	0	0		
6:00 - 6:15	475	0	43	20	1.56	5.86	12	550	856	5	0	94	0	950	14	565	0	0		
6:15 - 6:30	245	0	263	56	2.92	4.63	34	598	1,748	2	0	57	0	1,805	19	621	0	0		
6:30 - 6:45	75	0	435	48	3.32	3.93	47	605	2,011	8	0	187	0	2,198	14	623	0	0		
6:45 - 7:00	76	0	521	17	2.87	3.28	43	657	1,886	7	0	176	0	2,062	19	682	0	0		
7:00 - 7:15	56	0	634	6	2.83	3.08	34	730	2,064	10	9	269	369	2,702	2	748	0	0		
7:15 - 7:30	0	0	738	3	2.90	3.04	53	794	2,303	6	6	138	246	2,687	3	806	0	0		
7:30 - 7:45	19	0	621	3	2.88	3.04	36	679	1,954	8	3	186	123	2,263	4	695	0	0		
7:45 - 8:00	89	0	476	1	2.61	3.02	32	598	1,561	11	6	231	246	2,038	0	608	0	0		
8:00 - 8:15	34	0	535	0	2.81	3.00	21	590	1,660	7	3	156	123	1,939	0	598	0	0		
8:15 - 8:30	22	0	446	2	2.86	3.04	22	492	1,406	12	7	210	287	1,903	2	509	0	0		
8:30 - 8:45	17	0	409	0	2.82	3.00	24	450	1,268	6	3	77	123	1,468	6	468	0	0		
8:45 - 9:00	0	0	293	1	2.87	3.03	26	320	917	5	6	86	246	1,249	4	334	0	0		
9:00 - 9:15	252	93	191	0	1.87	3.00	9	545	1,020	5	5	35	205	1,260	6	560	0	0		
9:15 - 9:30	597	49	0	1	1.09	12.00	4	651	711	2	3	6	123	840	3	657	0	0		
9:30 - 9:45	413	22	1	0	1.05	3.00	6	442	466	2	3	27	123	616	2	447	0	0		
9:45 - 10:00	399	20	0	1	1.07	12.00	0	420	451	1	4	4	164	619	14	439	0	0		

5-Hour Totals

Vehicles	5,075	240	5,606	161	N/A	N/A	431	11,513	24,752	98	78	1,951	3,198	29,901	119	11,779	0	0
Persons	5,075	480	16,834	1,932			431											

HOV Restricted

	HOV Restricted		Peak Hour in HOV restricted period	Peak Hour in monitoring period
	Period	5 Hours	(6:00 AM - 9:00 AM)	(7:30 AM - 8:30 AM)
Highway Passengers	29,901	23,264	8,143	8,143
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	24,752	19,634	6,581	6,581
Autos and Motorcycles	11,513	7,063	2,359	2,359
Average Auto Occupancy (Includes Motorcycles)	2.15	2.78	2.79	2.79

I-395 north between Va. 648 (Edsall Road) and Va. 236 (Duke Street)

Non-HOV Lane Total (contains factored data in Lane 1)

Fall 2014 - 9 October 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	280	1	1	0	1.01	3.00	1	283			0	0	0	0	286	0	283	0	0	
5:15 - 5:30	777	0	0	1	1.01	12.00	3	781	792		0	0	0	0	792	0	781	0	0	
5:30 - 5:45	863	0	0	2	1.03	12.00	1	866	888		0	1	0	0	888	5	872	0	0	
5:45 - 6:00	1,011	0	0	3	1.03	12.00	1	1,015	1,048		1	0	0	0	1,048	33	1,049	0	0	
6:00 - 6:15	1,005	2	0	1	1.01	12.00	1	1,009	1,022		0	0	0	0	1,022	24	1,033	0	0	
6:15 - 6:30	835	15	1	0	1.02	3.00	2	853	870		1	0	0	0	870	28	882	0	0	
6:30 - 6:45	814	6	0	0	1.01	0.00	1	821	827		0	1	0	0	827	58	880	0	0	
6:45 - 7:00	739	25	0	0	1.03	0.00	1	765	790		1	1	0	0	790	68	835	0	0	
7:00 - 7:15	831	43	2	0	1.05	3.00	5	881	928		0	1	0	0	928	53	935	0	0	
7:15 - 7:30	793	65	1	1	1.09	8.00	1	861	940		1	0	0	0	940	47	909	0	0	
7:30 - 7:45	981	73	4	0	1.08	3.00	2	1,060	1,141		0	0	0	0	1,141	48	1,108	0	0	
7:45 - 8:00	1,022	79	9	2	1.11	4.73	0	1,112	1,232		1	0	0	0	1,232	63	1,176	0	0	
8:00 - 8:15	1,066	55	3	1	1.06	5.25	1	1,126	1,198		0	2	0	0	1,198	34	1,163	0	0	
8:15 - 8:30	1,160	83	2	2	1.09	8.00	1	1,248	1,359		0	3	0	0	1,359	39	1,290	0	0	
8:30 - 8:45	1,070	72	9	3	1.11	5.42	1	1,155	1,280		0	2	0	0	1,280	44	1,201	0	0	
8:45 - 9:00	880	36	2	0	1.04	3.00	1	919	959		0	0	0	0	959	61	980	0	0	
9:00 - 9:15	818	38	0	1	1.06	12.00	3	860	909		1	1	0	0	909	38	900	0	0	
9:15 - 9:30	672	43	1	1	1.08	7.50	1	718	774		2	2	0	0	774	73	795	0	0	
9:30 - 9:45	648	44	0	1	1.08	12.00	2	695	750		0	1	0	0	750	84	780	0	0	
9:45 - 10:00	508	49	0	0	1.09	0.00	1	558	607		2	1	0	0	607	75	639	0	0	

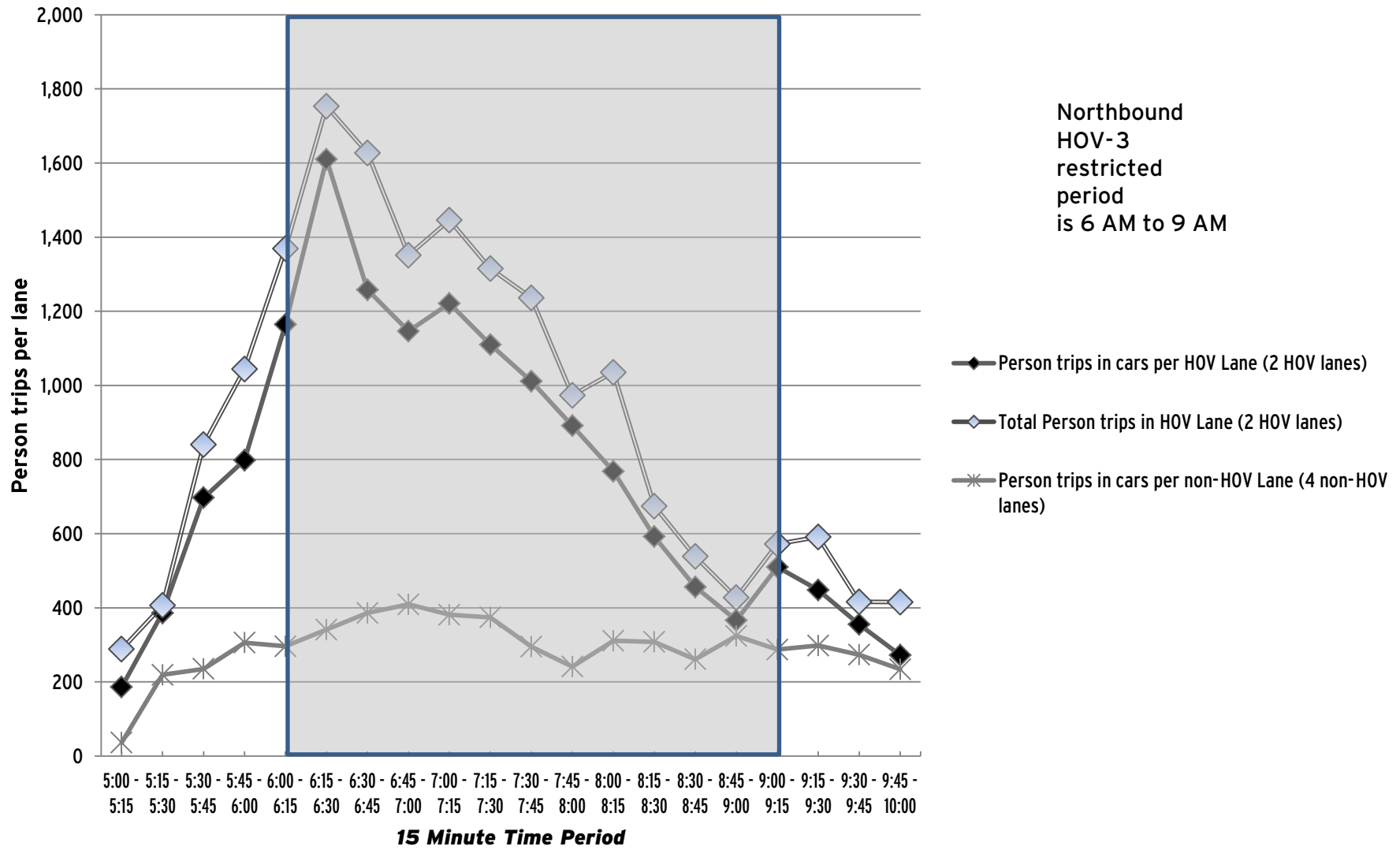
5-Hour Totals

Vehicles	16,773	729	35	19	N/A	N/A	30	17,586	18,600	10	16	0	0	18,600	875	18,491	0	0
Persons	16,773	1,458	111	228			30											

HOV Restricted

	HOV Restricted		Peak Hour in HOV restricted period	Peak Hour in monitoring period
	Period	5 Hours	(6:00 AM - 9:00 AM)	(7:30 AM - 8:30 AM)
Highway Passengers	18,600	12,546	4,930	4,930
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	18,600	12,546	4,930	4,930
Autos and Motorcycles	17,586	11,810	4,546	4,546
Average Auto Occupancy (Includes Motorcycles)	1.06	1.06	1.08	1.08

I-95 Northbound north of Va. 286 (Fairfax Co. Parkway) A.M. Peak Period - Spring 2014 Observed person trips per lane by 15 minute interval



I-95 north of Newington
 All Lanes Total
 Spring 2014 - 21 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit			Other	+Bus Passengers						
5:00 - 5:15	431	16	12	1	1.12	4.00	1	461	516	0	8	0	205	721	21	490	0	0		
5:15 - 5:30	1,356	63	24	7	1.13	5.03	9	1,459	1,647	0	3	0	41	1,688	14	1,476	0	0		
5:30 - 5:45	1,950	58	24	15	1.13	6.46	14	2,061	2,332	0	9	0	287	2,619	18	2,088	0	0		
5:45 - 6:00	2,259	113	48	15	1.15	5.19	8	2,443	2,820	0	13	0	492	3,312	87	2,543	0	0		
6:00 - 6:15	1,958	165	232	39	1.45	4.39	33	2,427	3,512	0	12	0	410	3,922	70	2,509	0	0		
6:15 - 6:30	1,316	107	610	99	2.13	4.28	23	2,155	4,584	0	9	0	287	4,871	75	2,240	0	0		
6:30 - 6:45	1,362	163	521	64	1.89	3.99	34	2,144	4,058	0	22	0	738	4,796	65	2,232	0	0		
6:45 - 7:00	1,450	195	628	14	1.69	3.20	31	2,318	3,927	0	12	0	410	4,337	92	2,422	0	0		
7:00 - 7:15	1,447	104	668	23	1.75	3.31	25	2,267	3,965	0	14	0	451	4,416	98	2,381	0	0		
7:15 - 7:30	1,317	188	639	5	1.70	3.09	32	2,181	3,714	0	13	0	410	4,124	79	2,273	0	0		
7:30 - 7:45	1,248	112	542	4	1.65	3.10	39	1,945	3,201	0	12	0	451	3,652	54	2,011	0	0		
7:45 - 8:00	1,016	118	444	10	1.69	3.20	36	1,624	2,743	0	8	0	164	2,907	56	1,688	0	0		
8:00 - 8:15	1,283	112	401	2	1.53	3.10	20	1,818	2,778	0	13	0	533	3,311	71	1,902	0	0		
8:15 - 8:30	1,235	81	316	3	1.46	3.14	17	1,652	2,416	0	6	0	164	2,580	64	1,722	0	0		
8:30 - 8:45	1,095	67	211	4	1.40	3.29	17	1,394	1,954	0	7	0	164	2,118	107	1,508	0	0		
8:45 - 9:00	1,066	185	163	7	1.41	3.39	16	1,437	2,028	0	8	0	123	2,151	120	1,565	0	0		
9:00 - 9:15	1,551	137	108	1	1.20	3.10	3	1,800	2,166	0	17	0	123	2,289	114	1,931	0	0		
9:15 - 9:30	1,638	179	20	2	1.13	4.00	2	1,841	2,086	0	10	0	287	2,373	89	1,940	0	0		
9:30 - 9:45	1,489	130	11	1	1.10	3.92	4	1,635	1,800	0	3	0	123	1,923	92	1,730	0	0		
9:45 - 10:00	1,168	117	9	4	1.14	5.85	2	1,300	1,480	0	10	0	287	1,767	111	1,421	0	0		

5-Hour Totals

Vehicles	27,635	2,410	5,631	320	N/A	N/A	366	36,362	53,727	0	209	0	6,150	59,877	1,497	38,072	0	0
Persons	27,635	4,820	17,066	3,840			366											

	I-95 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:30 AM - 7:30 AM)	(5:45 AM - 6:45 AM)
Highway Passengers	59,877	43,185	17,673
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	53,727	38,880	15,664
Autos and Motorcycles	36,362	23,362	8,910
Average Auto Occupancy (Includes Motorcycles)	1.48	1.66	1.76

I-95 north of Newington
 HOV Lane Total
 Spring 2014 - 21 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+Bus Passengers					
5:00 - 5:15	288	15	12	1	1.17	4.00	1	317	371	0	5	0	205	576	21	343	0	0		
5:15 - 5:30	494	58	23	7	1.31	5.10	8	590	771	0	1	0	41	812	11	602	0	0		
5:30 - 5:45	1,025	52	24	15	1.23	6.46	12	1,128	1,393	0	7	0	287	1,680	2	1,137	0	0		
5:45 - 6:00	1,083	89	48	15	1.28	5.19	8	1,243	1,596	0	12	0	492	2,088	6	1,261	0	0		
6:00 - 6:15	884	123	231	37	1.78	4.34	33	1,308	2,327	0	10	0	410	2,737	8	1,326	0	0		
6:15 - 6:30	188	19	610	94	3.45	4.22	22	933	3,219	0	7	0	287	3,506	9	950	0	0		
6:30 - 6:45	116	35	520	61	3.29	3.95	33	765	2,515	0	18	0	738	3,253	7	791	0	0		
6:45 - 7:00	132	42	628	13	2.71	3.19	31	846	2,291	0	10	0	410	2,701	10	866	0	0		
7:00 - 7:15	102	43	665	19	2.86	3.26	25	854	2,441	0	11	0	451	2,892	8	875	0	0		
7:15 - 7:30	108	50	636	5	2.67	3.09	31	830	2,219	0	10	0	410	2,629	10	850	0	0		
7:30 - 7:45	156	68	542	4	2.50	3.10	39	809	2,021	0	11	0	451	2,472	4	824	0	0		
7:45 - 8:00	158	66	444	10	2.49	3.20	36	714	1,781	0	4	0	164	1,945	10	728	0	0		
8:00 - 8:15	149	61	399	2	2.43	3.10	20	631	1,536	0	13	0	533	2,069	21	665	0	0		
8:15 - 8:30	103	34	314	3	2.51	3.14	17	471	1,184	0	4	0	164	1,348	21	496	0	0		
8:30 - 8:45	124	32	211	4	2.36	3.29	16	387	912	0	4	0	164	1,076	16	407	0	0		
8:45 - 9:00	153	17	163	3	2.08	3.18	16	352	731	0	3	0	123	854	30	385	0	0		
9:00 - 9:15	600	40	108	1	1.36	3.10	2	751	1,020	0	3	0	123	1,143	13	767	0	0		
9:15 - 9:30	705	61	17	1	1.14	3.72	1	785	895	0	7	0	287	1,182	18	810	0	0		
9:30 - 9:45	536	67	8	1	1.15	4.00	3	615	709	0	3	0	123	832	23	641	0	0		
9:45 - 10:00	389	56	9	1	1.19	4.00	2	457	543	0	7	0	287	830	22	486	0	0		

5-Hour Totals

Vehicles	7,493	1,028	5,612	297	N/A	N/A	356	14,786	30,475	0	150	0	6,150	36,625	270	15,210	0	0
Persons	7,493	2,056	17,006	3,564			356											

	I-95 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:30 AM - 7:30 AM)	(5:45 AM - 6:45 AM)
Highway Passengers	36,625	27,482	11,584
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	30,475	23,177	9,657
Autos and Motorcycles	14,786	8,900	4,249
Average Auto Occupancy (Includes Motorcycles)	2.06	2.60	2.87

I-95 north of Newington
 Non-HOV Lane Total
 Spring 2014 - 21 May 2014

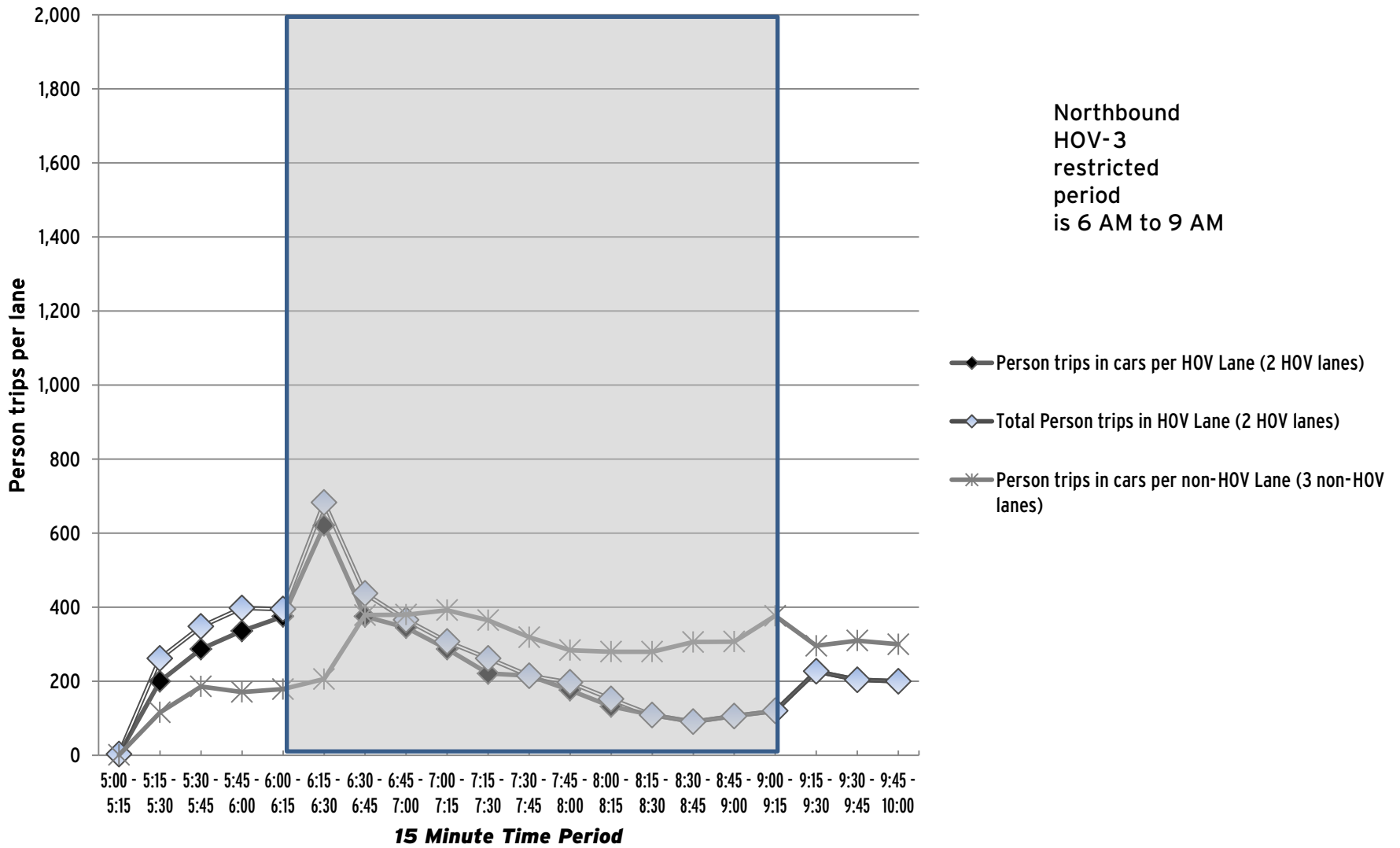
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	143	1	0	0	1.01	0.00	0	144			3	0	0	145	0	147	0	0		
5:15 - 5:30	862	5	1	0	1.01	3.00	1	869	876	0	2	0	0	876	3	874	0	0		
5:30 - 5:45	925	6	0	0	1.01	0.00	2	933	939	0	2	0	0	939	16	951	0	0		
5:45 - 6:00	1,176	24	0	0	1.02	0.00	0	1,200	1,224	0	1	0	0	1,224	81	1,282	0	0		
6:00 - 6:15	1,074	42	1	2	1.06	9.00	0	1,119	1,185	0	2	0	0	1,185	62	1,183	0	0		
6:15 - 6:30	1,128	88	0	5	1.12	12.00	1	1,222	1,365	0	2	0	0	1,365	66	1,290	0	0		
6:30 - 6:45	1,246	128	1	3	1.12	10.00	1	1,379	1,543	0	4	0	0	1,543	58	1,441	0	0		
6:45 - 7:00	1,318	153	0	1	1.11	12.00	0	1,472	1,636	0	2	0	0	1,636	82	1,556	0	0		
7:00 - 7:15	1,345	61	3	4	1.08	8.14	0	1,413	1,524	0	3	0	0	1,524	90	1,506	0	0		
7:15 - 7:30	1,209	138	3	0	1.11	3.00	1	1,351	1,495	0	3	0	0	1,495	69	1,423	0	0		
7:30 - 7:45	1,092	44	0	0	1.04	0.00	0	1,136	1,180	0	1	0	0	1,180	50	1,187	0	0		
7:45 - 8:00	858	52	0	0	1.06	0.00	0	910	962	0	4	0	0	962	46	960	0	0		
8:00 - 8:15	1,134	51	2	0	1.05	3.00	0	1,187	1,242	0	0	0	0	1,242	50	1,237	0	0		
8:15 - 8:30	1,132	47	2	0	1.04	3.00	0	1,181	1,232	0	2	0	0	1,232	43	1,226	0	0		
8:30 - 8:45	971	35	0	0	1.03	0.00	1	1,007	1,042	0	3	0	0	1,042	91	1,101	0	0		
8:45 - 9:00	913	168	0	4	1.20	12.00	0	1,085	1,297	0	5	0	0	1,297	90	1,180	0	0		
9:00 - 9:15	951	97	0	0	1.09	0.00	1	1,049	1,146	0	14	0	0	1,146	101	1,164	0	0		
9:15 - 9:30	933	118	3	1	1.13	5.25	1	1,056	1,191	0	3	0	0	1,191	71	1,130	0	0		
9:30 - 9:45	953	63	3	0	1.07	3.67	1	1,020	1,091	0	0	0	0	1,091	69	1,089	0	0		
9:45 - 10:00	779	61	0	3	1.11	12.00	0	843	937	0	3	0	0	937	89	935	0	0		

5-Hour Totals

Vehicles	20,142	1,382	19	23	N/A	N/A	10	21,576	23,252	0	59	0	0	23,252	1,227	22,862	0	0
Persons	20,142	2,764	60	276			10											

	I-95 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:00 AM - 7:30 AM)	(6:30 AM - 7:30 AM)	(5:45 AM - 6:45 AM)
Highway Passengers	23,252	15,703	6,198	5,317
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	23,252	15,703	6,198	5,317
Autos and Motorcycles	21,576	14,462	5,615	4,920
Average Auto Occupancy (Includes Motorcycles)	1.08	1.09	1.10	1.08

I-95 Northbound north of Va. 234 (Dumfries Road) A.M. Peak Period - Fall 2014 Observed person trips per lane by 15 minute interval



I-95 (northbound) at Dumfries
 All Lanes Total
 Fall 2014 - 9 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	3	1	1	0	1.60	3.00	0	5	8	0	0	0	0	8	0	5	0	0		
5:15 - 5:30	593	2	2	12	1.23	10.79	0	609	748	0	0	0	123	871	21	630	0	0		
5:30 - 5:45	955	2	0	14	1.16	12.00	3	974	1,130	0	0	0	123	1,253	97	1,071	0	0		
5:45 - 6:00	881	0	0	25	1.30	12.00	5	911	1,186	0	0	0	123	1,309	58	969	0	0		
6:00 - 6:15	761	1	0	43	1.58	12.00	7	812	1,286	0	0	0	41	1,327	82	894	0	0		
6:15 - 6:30	675	10	133	63	2.09	5.89	9	890	1,859	0	0	0	123	1,982	96	986	0	0		
6:30 - 6:45	1,086	26	193	13	1.42	3.59	10	1,328	1,887	0	0	0	123	2,010	65	1,393	0	0		
6:45 - 7:00	1,108	19	184	10	1.38	3.48	8	1,329	1,830	0	0	0	41	1,871	54	1,383	0	0		
7:00 - 7:15	1,097	42	146	10	1.34	3.58	11	1,306	1,750	0	0	0	41	1,791	73	1,379	0	0		
7:15 - 7:30	1,024	51	116	4	1.27	3.31	12	1,207	1,535	0	0	0	82	1,617	40	1,247	0	0		
7:30 - 7:45	871	45	126	3	1.31	3.21	11	1,056	1,386	0	0	0	0	1,386	56	1,112	0	0		
7:45 - 8:00	768	46	107	1	1.29	3.08	10	932	1,203	2	0	0	41	1,244	33	967	0	0		
8:00 - 8:15	806	24	81	0	1.20	3.00	7	918	1,104	3	0	0	41	1,145	45	966	0	0		
8:15 - 8:30	675	87	69	0	1.27	3.00	3	834	1,059	0	0	0	0	1,059	27	861	0	0		
8:30 - 8:45	718	78	69	1	1.26	3.13	7	873	1,100	0	0	0	0	1,100	42	915	0	0		
8:45 - 9:00	874	55	49	0	1.16	3.00	2	980	1,133	0	0	0	0	1,133	90	1,070	0	0		
9:00 - 9:15	1,112	92	8	4	1.12	6.00	3	1,219	1,371	3	0	0	0	1,371	106	1,328	0	0		
9:15 - 9:30	1,037	125	5	3	1.15	6.63	1	1,171	1,341	4	0	0	0	1,341	99	1,274	0	0		
9:30 - 9:45	1,016	123	4	5	1.16	8.11	2	1,150	1,337	4	0	0	0	1,337	111	1,265	0	0		
9:45 - 10:00	994	135	3	2	1.14	6.80	1	1,135	1,299	1	0	0	0	1,299	80	1,216	0	0		

5-Hour Totals

Vehicles	17,054	964	1,296	213	N/A	N/A	112	19,639	25,552	17	0	0	902	26,454	1,275	20,931	0	0
Persons	17,054	1,928	3,902	2,556			112											

	I-95 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:30 AM - 7:30 AM)	(5:45 AM - 6:45 AM)
Highway Passengers	26,454	17,665	7,289
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	25,552	17,132	7,002
Autos and Motorcycles	19,639	12,465	5,170
Average Auto Occupancy (Includes Motorcycles)	1.30	1.37	1.35

I-95 (northbound) at Dumfries
HOV Lane Total
Fall 2014 - 9 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	+ Bus Passengers				
5:00 - 5:15	1	1	1	0	2.00	3.00	0	3	6	0	0	0	0	0	6	0	3	0	0	
5:15 - 5:30	281	2	2	9	1.36	10.45	0	294	400	0	3	0	123	523	3	297	0	0		
5:30 - 5:45	425	1	0	12	1.30	12.00	2	440	573	0	3	0	123	696	5	445	0	0		
5:45 - 6:00	381	0	0	24	1.65	12.00	3	408	672	0	3	0	123	795	4	412	0	0		
6:00 - 6:15	239	0	0	42	2.61	12.00	6	287	749	0	1	0	41	790	3	290	0	0		
6:15 - 6:30	82	0	132	63	4.36	5.91	8	285	1,242	0	3	0	123	1,365	7	292	0	0		
6:30 - 6:45	8	0	191	13	3.39	3.59	9	221	750	0	3	0	123	873	3	224	0	0		
6:45 - 7:00	17	0	181	10	3.22	3.49	6	214	690	0	1	0	41	731	1	215	0	0		
7:00 - 7:15	21	0	145	9	3.11	3.53	9	184	573	0	1	0	41	614	2	186	0	0		
7:15 - 7:30	40	0	115	4	2.64	3.30	8	167	441	0	2	0	82	523	2	169	0	0		
7:30 - 7:45	18	3	124	2	2.74	3.14	10	157	430	0	0	0	0	430	2	159	0	0		
7:45 - 8:00	15	2	105	1	2.73	3.08	6	129	352	0	1	0	41	393	0	129	0	0		
8:00 - 8:15	14	0	81	0	2.60	3.00	6	101	263	0	1	0	41	304	0	101	0	0		
8:15 - 8:30	8	0	69	0	2.73	3.00	3	80	218	0	0	0	0	218	1	81	0	0		
8:30 - 8:45	20	0	49	1	2.49	3.18	3	73	182	0	0	0	0	182	2	75	0	0		
8:45 - 9:00	26	21	47	0	2.20	3.00	2	96	211	0	0	0	0	211	0	96	0	0		
9:00 - 9:15	98	59	7	0	1.44	3.00	3	167	240	0	0	0	0	240	1	168	0	0		
9:15 - 9:30	275	87	1	0	1.24	3.00	1	364	453	0	0	0	0	453	3	367	0	0		
9:30 - 9:45	217	83	0	2	1.35	12.00	1	303	408	0	0	0	0	408	0	303	0	0		
9:45 - 10:00	213	85	1	1	1.33	8.00	1	301	400	0	0	0	0	400	0	301	0	0		

5-Hour Totals

Vehicles	2,399	344	1,251	193	N/A	N/A	87	4,274	9,253	0	22	0	902	10,155	39	4,313	0	0
Persons	2,399	688	3,763	2,316			87											

	I-95 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:30 AM - 7:30 AM)	(5:45 AM - 6:45 AM)
Highway Passengers	10,155	6,634	2,741
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	9,253	6,101	2,454
Autos and Motorcycles	4,274	1,994	786
Average Auto Occupancy (Includes Motorcycles)	2.16	3.06	3.12

I-95 (northbound) at Dumfries
 Non-HOV Lane Total
 Fall 2014 - 9 September 2014

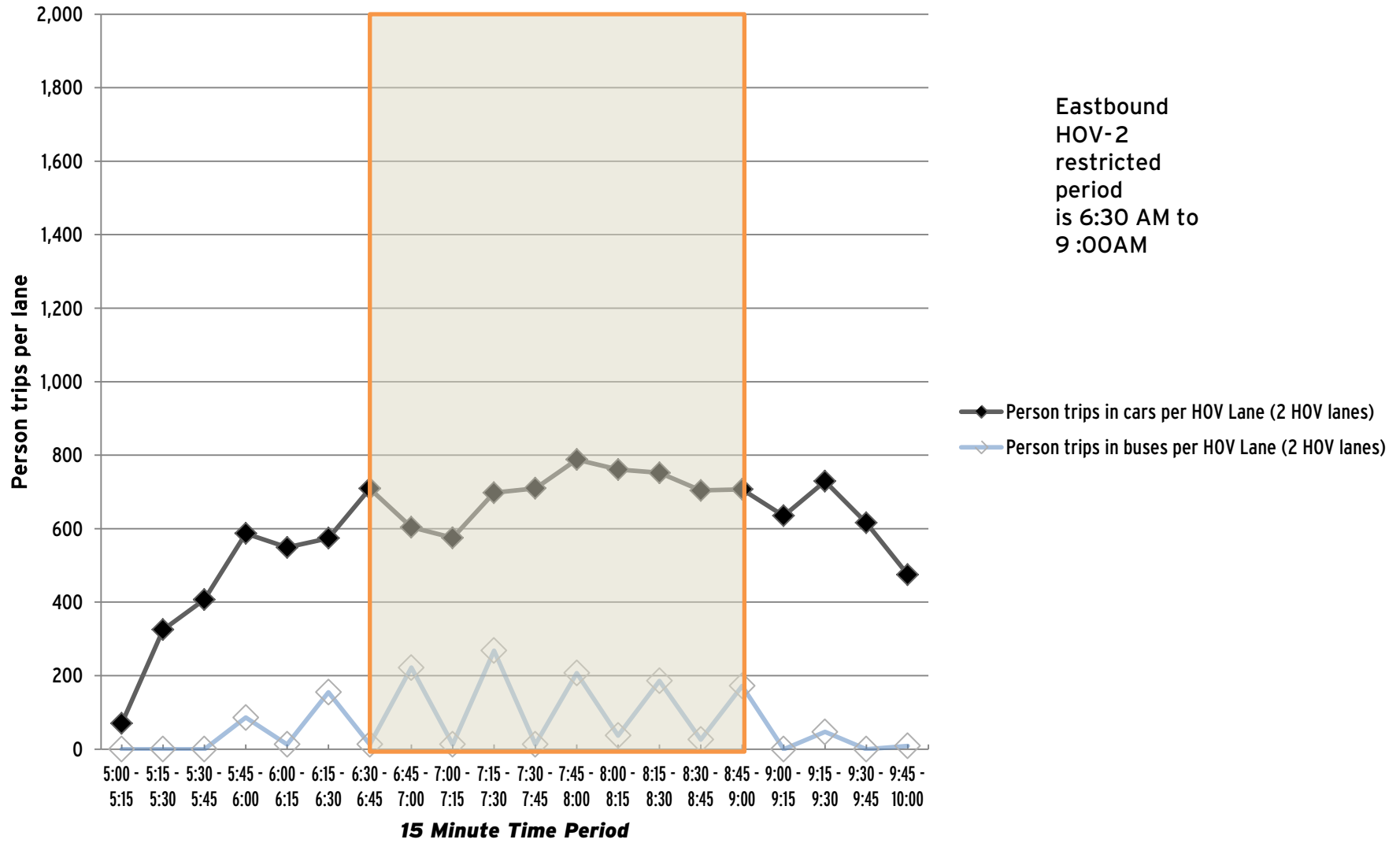
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	2	0	0	0	1.00	0.00			2	0	0	0	0	2	0	2	0	0		
5:15 - 5:30	312	0	0	3	1.10	12.00	0	315	348	0	0	0	0	348	18	333	0	0		
5:30 - 5:45	530	1	0	2	1.04	12.00	1	534	557	0	0	0	0	557	92	626	0	0		
5:45 - 6:00	500	0	0	1	1.02	12.00	2	503	514	0	0	0	0	514	54	557	0	0		
6:00 - 6:15	522	1	0	1	1.02	12.00	1	525	537	0	0	0	0	537	79	604	0	0		
6:15 - 6:30	593	10	1	0	1.02	3.00	1	605	617	0	0	0	0	617	89	694	0	0		
6:30 - 6:45	1,078	26	2	0	1.03	3.00	1	1,107	1,137	0	0	0	0	1,137	62	1,169	0	0		
6:45 - 7:00	1,091	19	3	0	1.02	3.00	2	1,115	1,140	0	0	0	0	1,140	53	1,168	0	0		
7:00 - 7:15	1,076	42	1	1	1.05	7.50	2	1,122	1,177	0	0	0	0	1,177	71	1,193	0	0		
7:15 - 7:30	984	51	1	0	1.05	4.00	4	1,040	1,094	0	0	0	0	1,094	38	1,078	0	0		
7:30 - 7:45	853	42	2	1	1.06	6.00	1	899	956	0	0	0	0	956	54	953	0	0		
7:45 - 8:00	753	44	2	0	1.06	3.00	4	803	851	2	0	0	0	851	33	838	0	0		
8:00 - 8:15	792	24	0	0	1.03	0.00	1	817	841	3	0	0	0	841	45	865	0	0		
8:15 - 8:30	667	87	0	0	1.12	0.00	0	754	841	0	0	0	0	841	26	780	0	0		
8:30 - 8:45	698	78	20	0	1.15	3.00	4	800	918	0	0	0	0	918	40	840	0	0		
8:45 - 9:00	848	34	2	0	1.04	3.00	0	884	922	0	0	0	0	922	90	974	0	0		
9:00 - 9:15	1,014	33	1	4	1.08	10.20	0	1,052	1,131	3	0	0	0	1,131	105	1,160	0	0		
9:15 - 9:30	762	38	4	3	1.10	7.14	0	807	888	4	0	0	0	888	96	907	0	0		
9:30 - 9:45	799	40	4	3	1.10	7.00	1	847	929	4	0	0	0	929	111	962	0	0		
9:45 - 10:00	781	50	2	1	1.08	6.00	0	834	899	1	0	0	0	899	80	915	0	0		

5-Hour Totals

Vehicles	14,655	620	45	20	N/A	N/A	25	15,365	16,299	17	0	0	0	16,299	1,236	16,618	0	0
Persons	14,655	1,240	139	240			25											

	5 Hours	I-95 HOV Restricted Period (6:00 AM - 9:00 AM)	Peak Hour in HOV restricted period (6:30 AM - 7:30 AM)	Peak Hour in monitoring period (5:45 AM - 6:45 AM)
Highway Passengers	16,299	11,031	4,548	4,548
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	16,299	11,031	4,548	4,548
Autos and Motorcycles	15,365	10,471	4,384	4,384
Average Auto Occupancy (Includes Motorcycles)	1.06	1.05	1.04	1.04

**I-66 Eastbound
Spring 2014
Between Sycamore Street and Fairfax Drive
Observed person trips per lane by 15 minute interval**



I-66 eastbound between Sycamore Street and Fairfax Drive
 All Lanes Total
 Spring 2014 - 10 June 2014

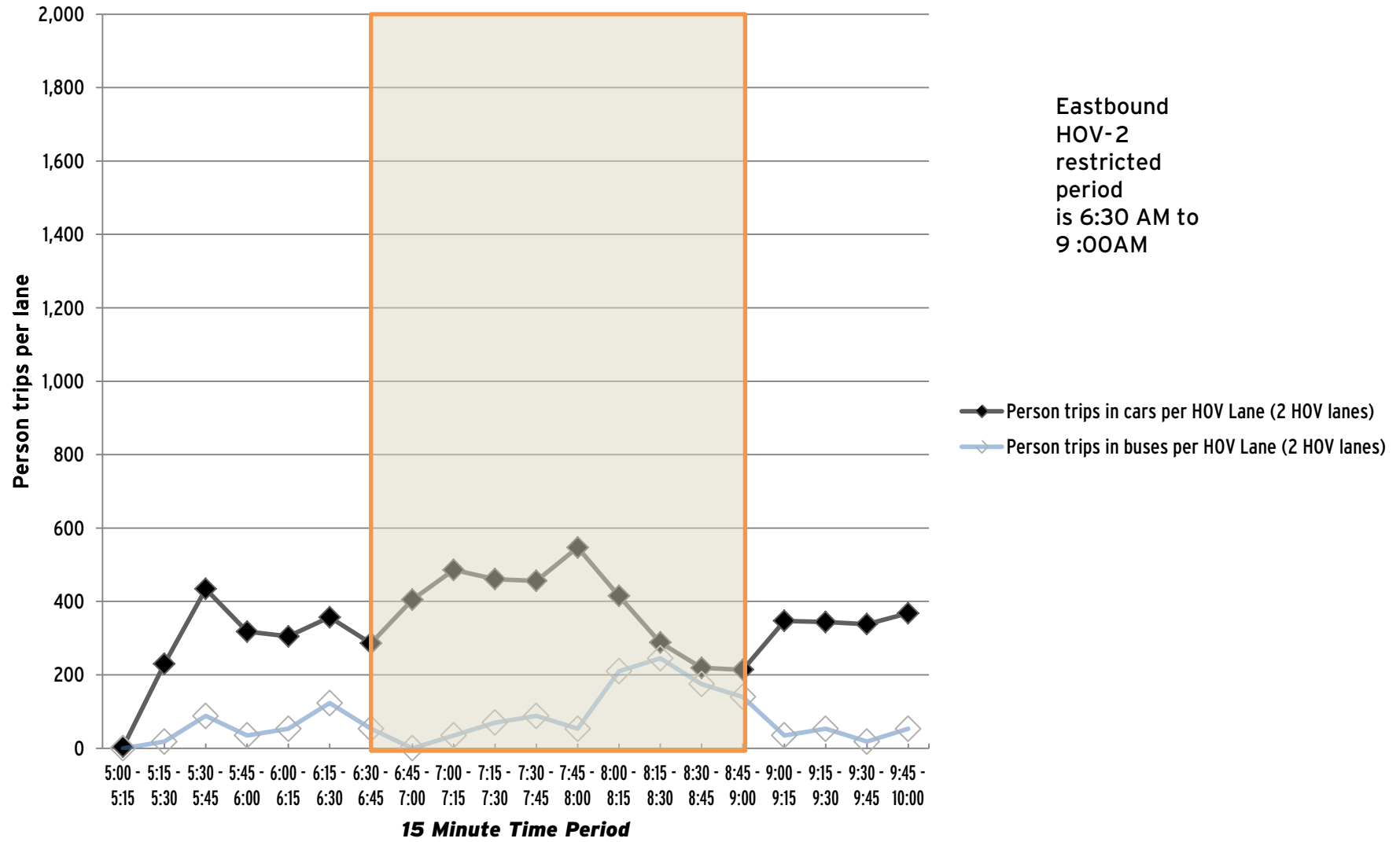
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	137	1	0	0	1.01	0.00			139		0	0	0	0	139	0	138	0	0	
5:15 - 5:30	614	15	0	0	1.02	0.00	5	634	649		0	0	0	0	649	1	636	0	0	
5:30 - 5:45	763	23	0	0	1.03	0.00	4	790	813		0	0	0	0	813	1	791	0	0	
5:45 - 6:00	963	53	2	7	1.13	10.00	15	1,040	1,174		0	4	0	172	1,346	3	1,043	0	0	
6:00 - 6:15	870	78	9	3	1.13	5.33	7	967	1,097		1	0	26	0	1,123	5	972	0	0	
6:15 - 6:30	800	143	6	3	1.20	6.11	7	959	1,148		2	6	51	258	1,457	5	964	0	0	
6:30 - 6:45	396	464	7	5	1.60	6.83	11	883	1,417		1	0	26	0	1,443	4	887	0	0	
6:45 - 7:00	272	440	10	1	1.64	3.91	12	735	1,207		2	9	57	387	1,651	6	741	0	0	
7:00 - 7:15	211	434	10	2	1.71	4.67	14	671	1,149		1	0	26	0	1,175	8	679	0	0	
7:15 - 7:30	254	518	19	2	1.71	3.95	22	815	1,395		2	11	63	473	1,931	5	820	0	0	
7:30 - 7:45	296	513	26	0	1.67	3.15	16	851	1,420		1	0	26	0	1,446	6	857	0	0	
7:45 - 8:00	319	531	43	4	1.73	3.83	15	912	1,576		1	9	27	387	1,990	13	925	0	0	
8:00 - 8:15	280	578	15	2	1.71	4.06	17	892	1,522		2	0	73	0	1,595	18	910	0	0	
8:15 - 8:30	296	540	23	4	1.72	4.37	9	872	1,503		1	8	27	344	1,874	31	903	0	0	
8:30 - 8:45	307	511	15	2	1.67	4.06	10	845	1,408		2	0	51	0	1,459	35	880	0	0	
8:45 - 9:00	300	506	18	3	1.69	4.48	7	834	1,413		0	8	0	344	1,757	23	857	0	0	
9:00 - 9:15	299	451	14	1	1.63	3.60	15	780	1,270		0	0	0	0	1,270	8	788	0	0	
9:15 - 9:30	430	504	4	0	1.55	3.75	5	943	1,458		1	1	50	43	1,551	1	944	0	0	
9:30 - 9:45	601	298	10	0	1.35	3.30	1	910	1,231		0	0	0	0	1,231	8	918	0	0	
9:45 - 10:00	699	117	5	0	1.16	3.20	0	821	949		1	0	17	0	966	9	830	0	0	

5-Hour Totals

Vehicles	9,107	6,718	236	39	N/A	N/A	192	16,292	23,938	18	56	520	2,408	26,866	190	16,483	0	0
Persons	9,107	13,436	735	468			192											

	I-66 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:30 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(5:30 AM - 6:30 AM)
Highway Passengers	26,866	16,321	6,918
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	23,938	14,010	6,009
Autos and Motorcycles	16,292	8,310	3,521
Average Auto Occupancy (Includes Motorcycles)	1.47	1.69	1.71

**I-66 Eastbound
Spring 2014
Between I-495 and Va. 7 (Leesburg Pike)
Observed person trips per lane by 15 minute interval**



I-66 eastbound between I-495 and Va. 7
 All Lanes Total
 Spring 2014 - 10 June 2014

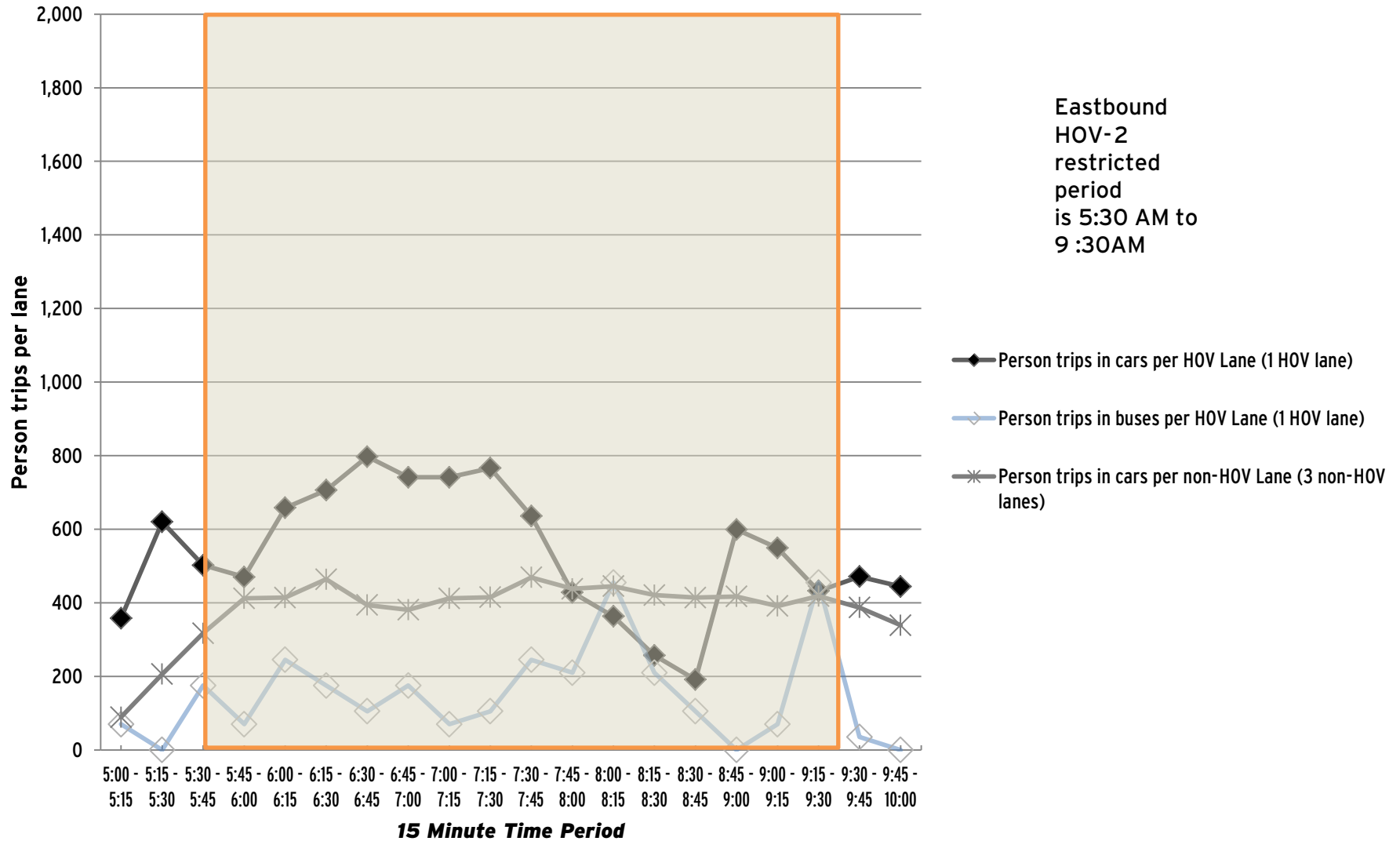
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	2	0	2	0	2.00	3.00	0	4	8	0			0	8	0	4	0	0	
5:15 - 5:30	402	14	8	0	1.08	3.50	1	425	459	0	1	0	35	494	0	426	0	0	
5:30 - 5:45	725	27	0	7	1.14	12.00	5	764	868	0	5	0	175	1,043	0	769	0	0	
5:45 - 6:00	541	35	1	1	1.08	7.50	9	587	635	0	2	0	70	705	4	593	0	0	
6:00 - 6:15	484	42	1	3	1.14	9.75	2	532	609	0	3	0	105	714	0	535	0	0	
6:15 - 6:30	516	78	3	2	1.17	6.60	9	608	714	0	7	0	245	959	6	621	0	0	
6:30 - 6:45	210	134	7	5	1.56	7.00	9	365	571	0	3	0	105	676	58	426	0	0	
6:45 - 7:00	125	301	18	2	1.80	4.00	3	449	810	0	0	0	0	810	36	485	0	0	
7:00 - 7:15	128	399	10	0	1.77	3.30	13	550	972	0	2	0	70	1,042	5	557	0	0	
7:15 - 7:30	131	385	4	0	1.75	3.25	7	527	921	0	4	0	140	1,061	5	536	0	0	
7:30 - 7:45	157	268	66	1	1.83	3.15	7	499	911	0	5	0	175	1,086	6	510	0	0	
7:45 - 8:00	148	298	80	2	2.03	4.13	10	538	1,093	0	3	0	105	1,198	5	546	0	0	
8:00 - 8:15	159	309	11	1	1.71	4.00	5	485	830	0	12	0	420	1,250	7	504	0	0	
8:15 - 8:30	182	181	4	1	1.54	5.20	6	374	576	0	14	0	490	1,066	3	391	0	0	
8:30 - 8:45	181	109	7	1	1.45	4.38	4	302	438	0	10	0	350	788	5	317	0	0	
8:45 - 9:00	195	108	5	0	1.38	3.00	2	310	428	0	8	0	280	708	17	335	0	0	
9:00 - 9:15	444	107	7	1	1.24	4.25	2	561	694	0	2	0	70	764	6	569	0	0	
9:15 - 9:30	430	117	7	0	1.24	3.29	0	554	687	0	3	0	105	792	3	560	0	0	
9:30 - 9:45	517	76	2	0	1.13	3.00	0	595	675	0	1	0	35	710	12	608	0	0	
9:45 - 10:00	574	79	1	0	1.12	3.00	0	654	735	0	3	0	105	840	15	672	0	0	

5-Hour Totals

Vehicles	6,251	3,067	244	27	N/A	N/A	94	9,683	13,634	0	88	0	3,080	16,714	193	9,964	0	0
Persons	6,251	6,134	831	324			94											

	I-66 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(5:30 AM - 6:30 AM)
Highway Passengers	16,714	9,685	4,387
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	13,634	7,550	3,897
Autos and Motorcycles	9,683	4,399	2,114
Average Auto Occupancy (Includes Motorcycles)	1.41	1.72	1.84

**I-66 Eastbound
Spring 2014
Between Va. 243 (Nutley Street) and I-495
Observed person trips per lane by 15 minute interval**



I-66 Eastbound between Va. 243 (Nutley Street) and I-495

All Lanes Total

Spring 2014 - 28 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	Trucks			
5:00 - 5:15	462	45	4	5	1.21	8.11	1	517	626		2	4	0	70	696	0	523	0	0
5:15 - 5:30	1,013	80	1	5	1.12	10.50	1	1,100	1,237		1	0	0	0	1,237	0	1,101	0	0
5:30 - 5:45	1,149	65	0	14	1.18	12.00	7	1,235	1,454		3	6	0	175	1,629	7	1,251	0	0
5:45 - 6:00	1,343	108	12	8	1.16	7.20	2	1,473	1,705		10	3	0	70	1,775	25	1,511	0	0
6:00 - 6:15	1,190	212	41	12	1.30	5.32	3	1,458	1,899		9	7	0	245	2,144	27	1,501	0	0
6:15 - 6:30	1,133	371	32	8	1.36	5.53	3	1,547	2,099		20	5	0	175	2,274	31	1,603	0	0
6:30 - 6:45	935	444	13	9	1.41	6.91	4	1,405	1,979		8	4	0	105	2,084	30	1,447	0	0
6:45 - 7:00	984	390	12	6	1.35	6.44	4	1,396	1,884		10	5	0	175	2,059	32	1,443	0	0
7:00 - 7:15	1,105	377	30	1	1.30	3.55	7	1,520	1,976		8	2	0	70	2,046	32	1,562	0	0
7:15 - 7:30	1,112	401	19	2	1.31	4.29	6	1,540	2,010		10	3	0	105	2,115	32	1,585	0	0
7:30 - 7:45	1,391	290	10	2	1.20	5.67	5	1,698	2,044		7	7	0	245	2,289	24	1,736	0	0
7:45 - 8:00	1,281	214	6	1	1.16	4.57	1	1,503	1,742		3	6	0	210	1,952	19	1,531	0	0
8:00 - 8:15	1,217	182	25	3	1.19	4.04	3	1,430	1,697		1	13	0	455	2,152	25	1,469	0	0
8:15 - 8:30	1,218	119	14	1	1.12	4.00	5	1,357	1,521		2	7	0	210	1,731	23	1,389	0	0
8:30 - 8:45	1,153	111	12	0	1.12	4.75	1	1,277	1,433		12	4	0	105	1,538	21	1,314	0	0
8:45 - 9:00	1,053	366	16	0	1.29	3.88	2	1,437	1,849		12	0	0	0	1,849	19	1,468	0	0
9:00 - 9:15	1,068	301	7	2	1.25	5.67	2	1,380	1,723		5	2	0	70	1,793	35	1,422	0	0
9:15 - 9:30	1,173	202	16	3	1.21	5.53	4	1,398	1,686		24	13	0	455	2,141	39	1,474	0	0
9:30 - 9:45	1,286	142	11	1	1.13	5.08	0	1,440	1,631		16	1	0	35	1,666	48	1,505	0	0
9:45 - 10:00	1,136	119	12	2	1.15	6.00	2	1,271	1,460		23	0	0	0	1,460	39	1,333	0	0

5-Hour Totals

Vehicles	22,402	4,539	293	85	N/A	N/A	63	27,382	33,655	186	92	0	2,975	36,630	508	28,168	0	0
Persons	22,402	9,078	1,092	1,020			63											

I-66 HOV Restricted

	5 Hours	Periods		Peak Hour in HOV-2 restricted period	Peak Hour in monitoring period
		(5:30 AM - 9:30 AM)	(6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(7:00 AM - 8:00 AM)
Highway Passengers	36,630	31,571	19,815	8,402	8,402
Rail Passengers	0	0	0	0	0
Auto and Motorcycle Passengers	33,655	28,701	18,135	7,772	7,772
Autos and Motorcycles	27,382	23,054	14,563	6,261	6,261
Average Auto Occupancy (Includes Motorcycles)	1.23	1.24	1.25	1.24	1.24

I-66 Eastbound between Va. 243 (Nutley Street) and I-495
 HOV Lane Total
 Spring 2014 - 28 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders			Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	226	34	1	5	1.34	10.50	1	267	358	0	2	0	70	428	0	269	0	0		
5:15 - 5:30	404	76	1	5	1.27	10.50	1	487	620	0	0	0	0	620	0	487	0	0		
5:30 - 5:45	269	47	0	11	1.50	12.00	7	334	502	0	5	0	175	677	0	339	0	0		
5:45 - 6:00	205	81	6	7	1.57	7.85	1	300	470	0	2	0	70	540	6	308	0	0		
6:00 - 6:15	86	182	32	9	2.11	5.00	3	312	658	0	7	0	245	903	0	319	0	0		
6:15 - 6:30	31	269	13	8	2.19	6.43	2	323	706	0	5	0	175	881	2	330	0	0		
6:30 - 6:45	24	327	6	8	2.16	8.21	4	369	797	0	3	0	105	902	1	373	0	0		
6:45 - 7:00	20	314	6	6	2.12	7.50	3	349	741	0	5	0	175	916	1	355	0	0		
7:00 - 7:15	10	321	24	1	2.05	3.36	5	361	741	0	2	0	70	811	0	363	0	0		
7:15 - 7:30	10	355	10	1	2.02	3.82	4	380	766	0	3	0	105	871	3	386	0	0		
7:30 - 7:45	94	255	2	2	1.79	7.50	2	355	636	0	7	0	245	881	0	362	0	0		
7:45 - 8:00	32	192	4	0	1.88	3.00	0	228	428	0	6	0	210	638	2	236	0	0		
8:00 - 8:15	7	134	24	1	2.16	3.44	2	168	363	0	13	0	455	818	1	182	0	0		
8:15 - 8:30	4	98	12	1	2.16	4.08	4	119	257	0	6	0	210	467	0	125	0	0		
8:30 - 8:45	0	92	2	0	2.03	3.50	0	94	191	0	3	0	105	296	0	97	0	0		
8:45 - 9:00	10	283	7	0	1.98	3.00	2	302	599	0	0	0	0	599	1	303	0	0		
9:00 - 9:15	34	246	3	1	1.92	5.25	2	286	549	0	2	0	70	619	0	288	0	0		
9:15 - 9:30	121	134	5	2	1.63	5.71	3	265	432	0	13	0	455	887	11	289	0	0		
9:30 - 9:45	325	67	0	1	1.20	12.00	0	393	471	0	1	0	35	506	9	403	0	0		
9:45 - 10:00	332	55	0	0	1.14	0.00	2	389	444	0	0	0	0	444	4	393	0	0		

5-Hour Totals

Vehicles	2,244	3,562	158	69	N/A	N/A	48	6,081	10,729	0	85	0	2,975	13,704	41	6,207	0	0
Persons	2,244	7,124	485	828			48											

I-66 HOV Restricted

	Periods				Peak Hour in HOV-2 restricted period (7:00 AM - 8:00 AM)	Peak Hour in monitoring period (7:00 AM - 8:00 AM)
	5 Hours	(5:30 AM - 9:30 AM)	(6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)		
Highway Passengers	13,704	11,706	7,199	3,201	3,201	
Rail Passengers	0	0	0	0	0	
Auto and Motorcycle Passengers	10,729	8,836	5,519	2,571	2,571	
Autos and Motorcycles	6,081	4,545	2,725	1,324	1,324	
Average Auto Occupancy (Includes Motorcycles)	1.76	1.94	2.03	1.94	1.94	

I-66 Eastbound between Va. 243 (Nutley Street) and I-495
 Non-HOV Lane Total
 Spring 2014 - 28 May 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	236	11	3	0	1.07	3.33	0	250				2	0	0	268	0	254	0	0	
5:15 - 5:30	609	4	0	0	1.01	0.00	0	613	617		1	0	0	0	617	0	614	0	0	
5:30 - 5:45	880	18	0	3	1.06	12.00	0	901	952	3	1	0	0	952	7	912	0	0		
5:45 - 6:00	1,138	27	6	1	1.05	6.00	1	1,173	1,235	10	1	0	0	1,235	19	1,203	0	0		
6:00 - 6:15	1,104	30	9	3	1.08	6.42	0	1,146	1,241	9	0	0	0	1,241	27	1,182	0	0		
6:15 - 6:30	1,102	102	19	0	1.14	4.53	1	1,224	1,393	20	0	0	0	1,393	29	1,273	0	0		
6:30 - 6:45	911	117	7	1	1.14	4.63	0	1,036	1,182	8	1	0	0	1,182	29	1,074	0	0		
6:45 - 7:00	964	76	6	0	1.09	4.33	1	1,047	1,143	10	0	0	0	1,143	31	1,088	0	0		
7:00 - 7:15	1,095	56	6	0	1.07	4.33	2	1,159	1,235	8	0	0	0	1,235	32	1,199	0	0		
7:15 - 7:30	1,102	46	9	1	1.07	4.80	2	1,160	1,244	10	0	0	0	1,244	29	1,199	0	0		
7:30 - 7:45	1,297	35	8	0	1.05	4.75	3	1,343	1,408	7	0	0	0	1,408	24	1,374	0	0		
7:45 - 8:00	1,249	22	2	1	1.03	6.67	1	1,275	1,314	3	0	0	0	1,314	17	1,295	0	0		
8:00 - 8:15	1,210	48	1	2	1.06	9.00	1	1,262	1,334	1	0	0	0	1,334	24	1,287	0	0		
8:15 - 8:30	1,214	21	2	0	1.02	3.50	1	1,238	1,264	2	1	0	0	1,264	23	1,264	0	0		
8:30 - 8:45	1,153	19	10	0	1.05	5.00	1	1,183	1,242	12	1	0	0	1,242	21	1,217	0	0		
8:45 - 9:00	1,043	83	9	0	1.10	4.56	0	1,135	1,250	12	0	0	0	1,250	18	1,165	0	0		
9:00 - 9:15	1,034	55	4	1	1.07	6.00	0	1,094	1,174	5	0	0	0	1,174	35	1,134	0	0		
9:15 - 9:30	1,052	68	11	1	1.11	5.42	1	1,133	1,254	24	0	0	0	1,254	28	1,185	0	0		
9:30 - 9:45	961	75	11	0	1.11	4.45	0	1,047	1,160	16	0	0	0	1,160	39	1,102	0	0		
9:45 - 10:00	804	64	12	2	1.15	6.00	0	882	1,016	23	0	0	0	1,016	35	940	0	0		

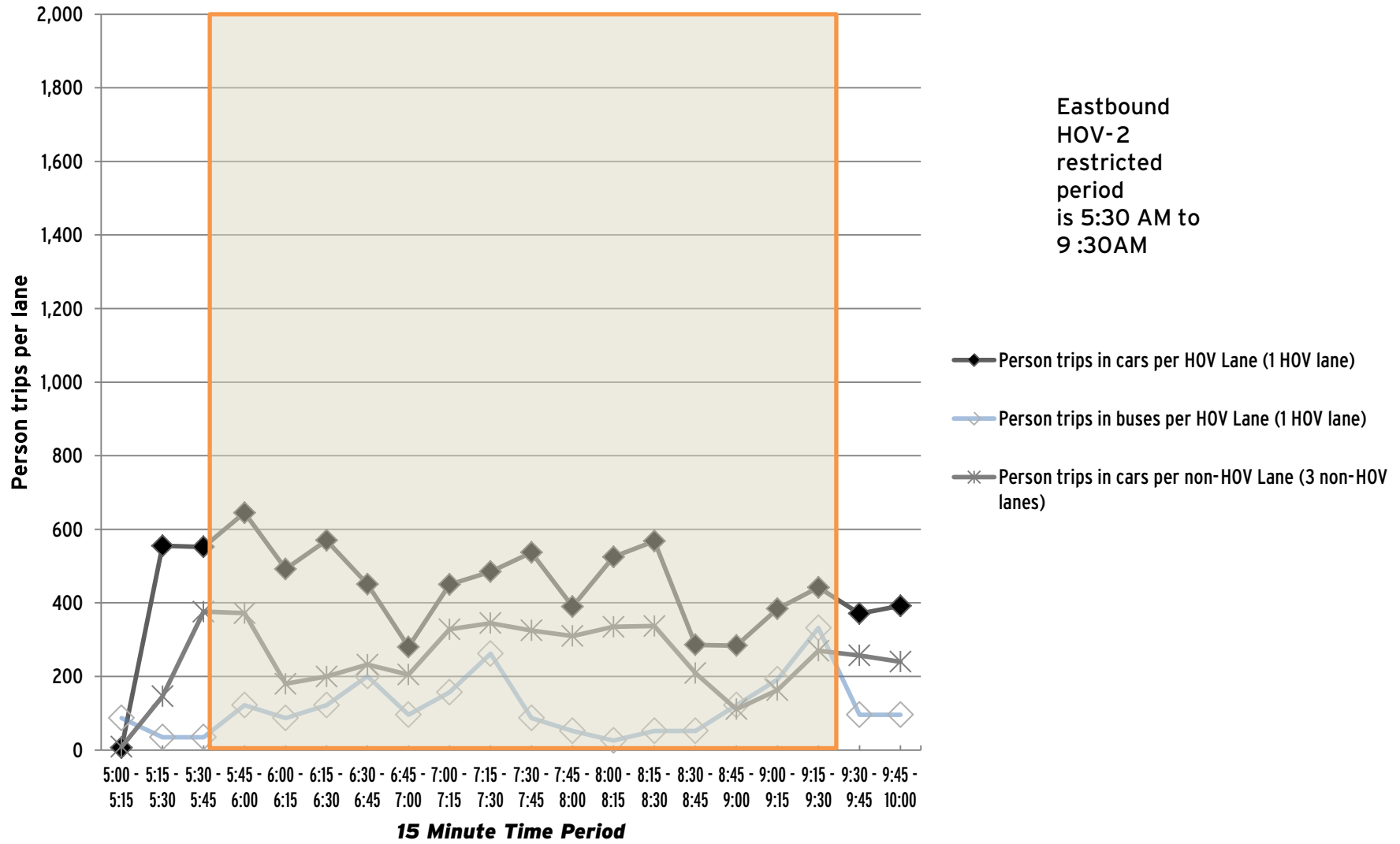
5-Hour Totals

Vehicles	20,158	977	135	16	N/A	N/A	15	21,301	22,926	186	7	0	0	22,926	467	21,961	0	0
Persons	20,158	1,954	607	192			15											

I-66 HOV Restricted

	5 Hours	Periods		Peak Hour in HOV-2 restricted period	Peak Hour in monitoring period
		(5:30 AM - 9:30 AM)	(6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(7:00 AM - 8:00 AM)
Highway Passengers	22,926	19,865	12,616	5,201	5,201
Rail Passengers	0	0	0	0	0
Auto and Motorcycle Passengers	22,926	19,865	12,616	5,201	5,201
Autos and Motorcycles	21,301	18,509	11,838	4,937	4,937
Average Auto Occupancy (Includes Motorcycles)	1.08	1.07	1.07	1.05	1.05

**I-66 Eastbound
Fall 2014
Between Monument Drive and U.S. 50 (Lee Jackson Highway)
Observed person trips per lane by 15 minute interval**



I-66 Eastbound between Monument Drive and U.S. 50
 All Lanes Total
 Fall 2014 - 24 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers					
5:00 - 5:15	27	1	1	0	1.10	3.00	0	29	32	0	0	0	0	32	0	29	0	0		
5:15 - 5:30	559	153	1	10	1.36	11.18	4	727	992	2	1	68	41	1,101	4	731	0	0		
5:30 - 5:45	1,132	239	1	5	1.21	10.50	6	1,383	1,679	3	0	104	0	1,783	4	1,387	0	0		
5:45 - 6:00	1,122	262	1	9	1.26	11.10	5	1,399	1,762	1	2	38	82	1,882	7	1,406	0	0		
6:00 - 6:15	673	131	3	7	1.26	9.40	4	818	1,033	2	0	68	0	1,101	4	824	0	0		
6:15 - 6:30	728	171	4	7	1.28	8.73	5	915	1,171	4	5	144	205	1,520	2	917	0	0		
6:30 - 6:45	819	128	5	4	1.19	7.00	9	965	1,147	4	0	169	0	1,316	11	976	0	0		
6:45 - 7:00	741	67	1	1	1.10	7.50	5	815	895	4	6	144	246	1,285	2	817	0	0		
7:00 - 7:15	988	193	7	3	1.20	5.70	3	1,194	1,434	4	0	157	0	1,591	11	1,205	0	0		
7:15 - 7:30	1,044	219	8	1	1.19	4.00	2	1,274	1,520	4	15	144	615	2,279	10	1,285	0	0		
7:30 - 7:45	927	258	13	2	1.25	4.20	6	1,206	1,512	4	0	164	0	1,676	9	1,217	0	0		
7:45 - 8:00	959	170	2	1	1.16	6.00	2	1,134	1,319	4	7	144	287	1,750	8	1,143	0	0		
8:00 - 8:15	995	267	0	0	1.21	0.00	1	1,263	1,530	3	0	106	0	1,636	4	1,268	0	0		
8:15 - 8:30	980	297	0	0	1.23	0.00	4	1,281	1,578	5	11	181	451	2,210	10	1,291	0	0		
8:30 - 8:45	613	149	0	0	1.20	0.00	2	764	913	3	0	106	0	1,019	4	768	0	0		
8:45 - 9:00	318	145	2	0	1.32	3.00	3	468	617	4	6	172	246	1,035	3	472	0	0		
9:00 - 9:15	475	198	0	0	1.29	0.00	2	675	873	2	0	68	0	941	3	678	0	0		
9:15 - 9:30	678	271	4	1	1.31	5.60	4	958	1,252	2	1	68	41	1,361	2	961	0	0		
9:30 - 9:45	952	94	0	0	1.09	0.00	2	1,048	1,142	3	0	110	0	1,252	2	1,052	0	0		
9:45 - 10:00	916	92	0	1	1.10	12.00	0	1,009	1,112	2	1	68	41	1,221	1	1,010	0	0		

5-Hour Totals

Vehicles	15,646	3,505	53	52	N/A	N/A	69	19,325	23,513	60	55	2,223	2,255	27,991	101	19,437	0	0
Persons	15,646	7,010	164	624			69											

	I-66 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(5:30 AM - 9:30 AM)	(7:30 AM - 8:30 AM)	(7:30 AM - 8:30 AM)
Highway Passengers	27,991	24,385	7,272
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	23,513	20,235	5,939
Autos and Motorcycles	19,325	16,512	4,884
Average Auto Occupancy (Includes Motorcycles)	1.22	1.23	1.22

I-66 Eastbound between Monument Drive and U.S. 50
 HOV Lane Total
 Fall 2014 - 24 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	+ Bus Passengers				
5:00 - 5:15	1	1	1	0	2.00	3.00	0	3	6	2	1	52	35	93	0	3	0	0		
5:15 - 5:30	128	150	1	10	1.89	11.18	4	293	555	0	1	0	35	590	3	296	0	0		
5:30 - 5:45	5	239	1	5	2.16	10.50	6	256	552	0	1	0	35	587	4	260	0	0		
5:45 - 6:00	5	262	1	9	2.29	11.10	5	282	645	2	2	52	70	767	7	289	0	0		
6:00 - 6:15	156	131	3	5	1.65	8.75	4	299	492	3	1	52	35	579	4	303	0	0		
6:15 - 6:30	129	171	4	7	1.82	8.73	3	314	570	2	2	52	70	692	2	316	0	0		
6:30 - 6:45	134	125	5	4	1.66	7.00	4	272	451	1	5	26	175	652	9	281	0	0		
6:45 - 7:00	129	67	1	1	1.40	7.50	2	200	280	1	2	26	70	376	2	202	0	0		
7:00 - 7:15	62	167	6	3	1.89	6.00	0	238	450	2	3	52	105	607	8	246	0	0		
7:15 - 7:30	40	204	8	1	1.91	4.00	1	254	485	2	6	52	210	747	7	261	0	0		
7:30 - 7:45	38	223	12	1	1.92	3.69	5	279	537	2	1	52	35	624	8	287	0	0		
7:45 - 8:00	61	155	2	1	1.77	6.00	1	220	390	3	0	52	0	442	7	227	0	0		
8:00 - 8:15	21	252	0	0	1.92	0.00	0	273	525	1	0	26	0	551	4	277	0	0		
8:15 - 8:30	15	275	0	0	1.94	0.00	3	293	568	4	0	52	0	620	10	303	0	0		
8:30 - 8:45	2	141	0	0	1.97	0.00	2	145	286	2	0	52	0	338	2	147	0	0		
8:45 - 9:00	1	140	0	0	1.97	0.00	3	144	284	2	2	52	70	406	1	145	0	0		
9:00 - 9:15	7	188	0	0	1.96	0.00	1	196	384	2	4	52	140	576	1	197	0	0		
9:15 - 9:30	28	205	0	0	1.86	0.00	4	237	442	2	8	52	280	774	1	238	0	0		
9:30 - 9:45	190	90	0	0	1.32	0.00	1	281	371	1	2	26	70	467	1	282	0	0		
9:45 - 10:00	214	83	0	1	1.32	12.00	0	298	392	1	2	26	70	488	1	299	0	0		

5-Hour Totals

Vehicles	1,366	3,269	45	48	N/A	N/A	49	4,777	8,665	35	43	806	1,505	10,976	82	4,859	0	0
Persons	1,366	6,538	136	576			49											

	5 Hours	I-66 HOV Restricted Period (5:30 AM - 9:30 AM)	Peak Hour in HOV restricted period (7:30 AM - 8:30 AM)	Peak Hour in monitoring period (7:30 AM - 8:30 AM)
Highway Passengers	10,976	9,338	2,237	2,237
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	8,665	7,341	2,020	2,020
Autos and Motorcycles	4,777	3,902	1,065	1,065
Average Auto Occupancy (Includes Motorcycles)	1.81	1.88	1.90	1.90

I-66 Eastbound between Monument Drive and U.S. 50
 Non-HOV Lane Total
 Fall 2014 - 24 September 2014

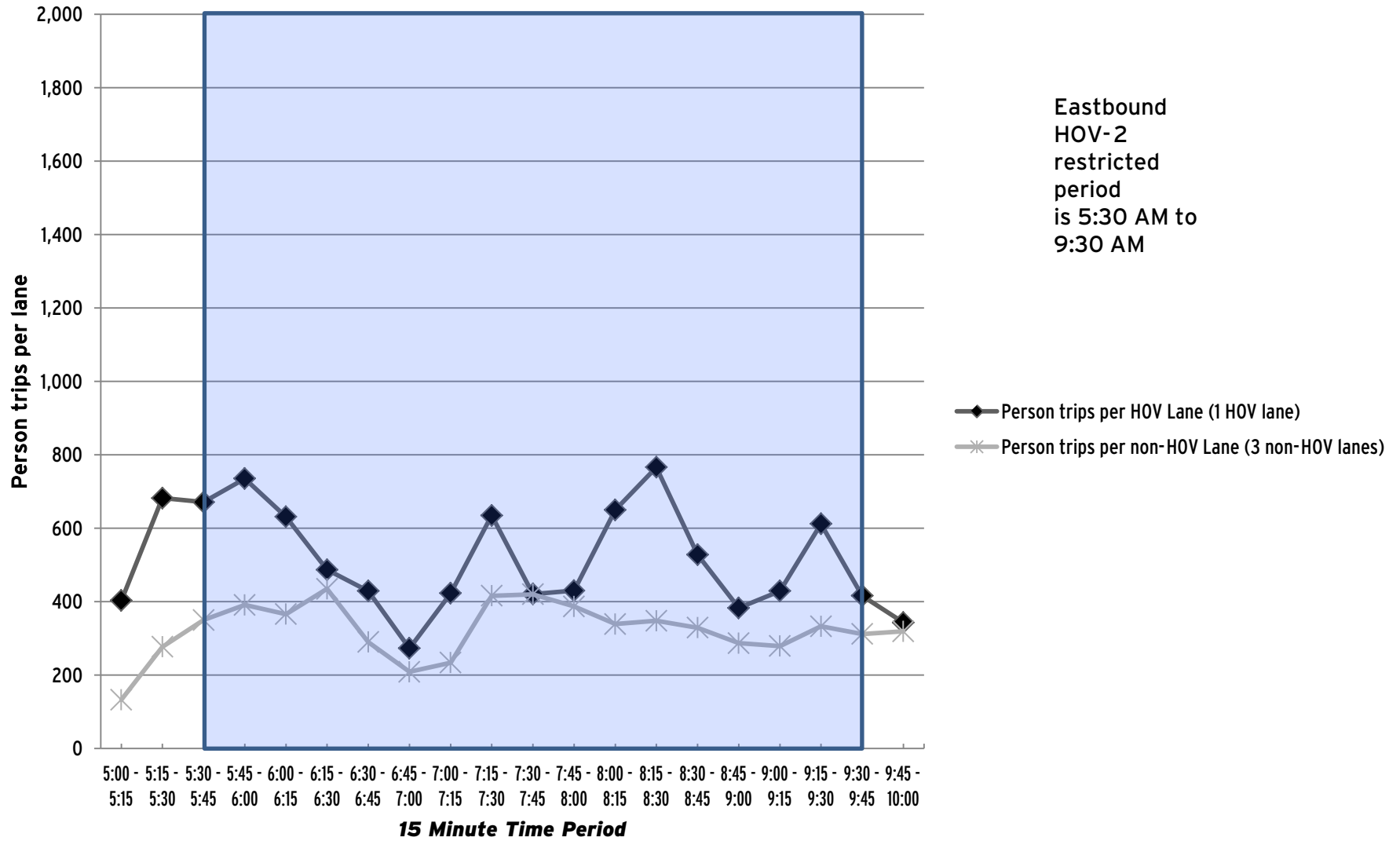
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders +Bus Passengers		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other							
5:00 - 5:15	26	0	0	0	1.00	0.00	0				0	0	0	0	26	0	26	0	0	
5:15 - 5:30	431	3	0	0	1.01	0.00	0	434	437		0	0	0	0	437	1	435	0	0	
5:30 - 5:45	1,127	0	0	0	1.00	0.00	0	1,127	1,127		0	0	0	0	1,127	0	1,127	0	0	
5:45 - 6:00	1,117	0	0	0	1.00	0.00	0	1,117	1,117		0	0	0	0	1,117	0	1,117	0	0	
6:00 - 6:15	517	0	0	2	1.04	12.00	0	519	541		0	0	0	0	541	0	521	0	0	
6:15 - 6:30	599	0	0	0	1.00	0.00	2	601	601		0	0	0	0	601	0	601	0	0	
6:30 - 6:45	685	3	0	0	1.00	0.00	5	693	696		0	0	0	0	696	2	695	0	0	
6:45 - 7:00	612	0	0	0	1.00	0.00	3	615	615		0	0	0	0	615	0	615	0	0	
7:00 - 7:15	926	26	1	0	1.03	3.00	3	956	984		0	0	0	0	984	3	959	0	0	
7:15 - 7:30	1,004	15	0	0	1.01	0.00	1	1,020	1,035	1	0	0	0	1,035	3	1,024	0	0		
7:30 - 7:45	889	35	1	1	1.05	7.50	1	927	975	2	0	0	0	975	1	930	0	0		
7:45 - 8:00	898	15	0	0	1.02	0.00	1	914	929	1	0	0	0	929	1	916	0	0		
8:00 - 8:15	974	15	0	0	1.02	0.00	1	990	1,005	1	0	0	0	1,005	0	991	0	0		
8:15 - 8:30	965	22	0	0	1.02	0.00	1	988	1,010	0	0	0	0	1,010	0	988	0	0		
8:30 - 8:45	611	8	0	0	1.01	0.00	0	619	627	0	0	0	0	627	2	621	0	0		
8:45 - 9:00	317	5	2	0	1.03	3.00	0	324	333	1	0	0	0	333	2	327	0	0		
9:00 - 9:15	468	10	0	0	1.02	0.00	1	479	489	0	0	0	0	489	2	481	0	0		
9:15 - 9:30	650	66	4	1	1.12	5.60	0	721	810	1	0	0	0	810	1	723	0	0		
9:30 - 9:45	762	4	0	0	1.01	0.00	1	767	771	2	0	0	0	771	1	770	0	0		
9:45 - 10:00	702	9	0	0	1.01	0.00	0	711	720	0	0	0	0	720	0	711	0	0		

5-Hour Totals

Vehicles	14,280	236	8	4	N/A	N/A	20	14,548	14,848	9	0	0	0	14,848	19	14,578	0	0
Persons	14,280	472	28	48			20											

	5 Hours	I-66 HOV Restricted Period (5:30 AM - 9:30 AM)	Peak Hour in HOV restricted period (7:30 AM - 8:30 AM)	Peak Hour in monitoring period (7:30 AM - 8:30 AM)
Highway Passengers	14,848	12,894	3,919	3,919
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	14,848	12,894	3,919	3,919
Autos and Motorcycles	14,548	12,610	3,819	3,819
Average Auto Occupancy (Includes Motorcycles)	1.02	1.02	1.03	1.03

**I-66 Eastbound
Between Va. 234 Bus. (Sudley Rd.) & U.S. 29 Lee Hwy. (Centreville, Exit 52)
A.M. Peak Period - Fall 2014
Observed person trips per lane by 15 minute interval**



I-66 Eastbound between Va. 234 Business and Bull Run
 All Lanes Total
 Fall 2014 - 30 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other	+ Bus Passengers						
5:00 - 5:15	627	38	0	5	1.14	12.00	3	673	766	0	1	0	35	801	1	675	0	0		
5:15 - 5:30	1,042	160	0	9	1.21	12.00	8	1,219	1,478	0	1	0	35	1,513	2	1,222	0	0		
5:30 - 5:45	1,063	263	1	7	1.25	10.88	11	1,345	1,687	0	1	0	35	1,722	1	1,347	0	0		
5:45 - 6:00	1,156	306	0	5	1.24	12.00	9	1,476	1,837	0	2	0	70	1,907	3	1,481	0	0		
6:00 - 6:15	1,031	284	1	7	1.27	10.88	9	1,332	1,695	0	2	0	35	1,730	3	1,337	0	0		
6:15 - 6:30	1,317	190	0	1	1.13	12.00	13	1,521	1,722	0	4	0	70	1,792	4	1,529	0	0		
6:30 - 6:45	846	125	0	2	1.15	12.00	4	977	1,124	0	10	0	175	1,299	1	988	0	0		
6:45 - 7:00	641	91	0	0	1.12	0.00	6	738	829	0	4	0	70	899	1	743	0	0		
7:00 - 7:15	819	98	0	0	1.11	0.00	4	921	1,019	0	6	0	105	1,124	1	928	0	0		
7:15 - 7:30	1,349	151	1	1	1.11	7.50	8	1,510	1,674	0	12	0	210	1,884	0	1,522	0	0		
7:30 - 7:45	1,373	127	0	1	1.09	12.00	6	1,507	1,645	0	1	0	35	1,680	0	1,508	0	0		
7:45 - 8:00	1,273	131	0	4	1.12	12.00	7	1,415	1,590	0	0	0	70	1,590	1	1,416	0	0		
8:00 - 8:15	1,076	274	3	2	1.22	6.60	9	1,364	1,666	0	0	0	0	1,666	2	1,366	0	0		
8:15 - 8:30	1,075	334	3	4	1.27	8.14	11	1,427	1,811	0	0	0	0	1,811	1	1,428	0	0		
8:30 - 8:45	1,022	233	2	1	1.20	6.00	9	1,267	1,515	0	0	0	0	1,515	1	1,268	0	0		
8:45 - 9:00	935	113	2	0	1.11	3.50	6	1,056	1,174	0	4	0	70	1,244	0	1,060	0	0		
9:00 - 9:15	878	112	1	1	1.13	7.50	8	1,000	1,125	0	8	0	140	1,265	2	1,010	0	0		
9:15 - 9:30	1,102	98	6	1	1.10	4.29	2	1,209	1,330	0	16	0	280	1,610	0	1,225	0	0		
9:30 - 9:45	1,093	92	1	0	1.08	3.00	3	1,189	1,283	0	4	0	70	1,353	0	1,193	0	0		
9:45 - 10:00	1,086	62	2	1	1.07	6.33	2	1,153	1,231	0	4	0	70	1,301	2	1,159	0	0		

5-Hour Totals

Vehicles	20,804	3,282	23	52	N/A	N/A	138	24,299	28,201	0	80	0	1,505	29,706	26	24,405	0	0
Persons	20,804	6,564	71	624			138											

	I-66 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(5:30 AM - 9:30 AM)	(7:15 AM - 8:15 AM)	(7:15 AM - 8:15 AM)
Highway Passengers	29,706	24,738	6,820
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	28,201	23,443	6,575
Autos and Motorcycles	24,299	20,065	5,796
Average Auto Occupancy (Includes Motorcycles)	1.16	1.17	1.13

I-66 Eastbound between Va. 234 Business and Bull Run
 HOV Lane Total
 Fall 2014 - 30 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	243	31	0	5	1.30	12.00	3	282	368	0	1	0	35	403	1	284	0	0		
5:15 - 5:30	266	133	0	9	1.56	12.00	7	415	647	0	1	0	35	682	2	418	0	0		
5:30 - 5:45	50	247	0	7	2.04	12.00	8	312	636	0	1	0	35	671	1	314	0	0		
5:45 - 6:00	18	290	0	5	2.08	12.00	7	320	665	0	2	0	70	735	3	325	0	0		
6:00 - 6:15	1	257	0	6	2.18	12.00	9	273	596	0	1	0	35	631	3	277	0	0		
6:15 - 6:30	16	189	0	1	1.92	12.00	11	217	417	0	2	0	70	487	3	222	0	0		
6:30 - 6:45	6	122	0	0	1.92	0.00	4	132	254	0	5	0	175	429	1	138	0	0		
6:45 - 7:00	17	90	0	0	1.80	0.00	6	113	203	0	2	0	70	273	1	116	0	0		
7:00 - 7:15	136	89	0	0	1.39	0.00	4	229	318	0	3	0	105	423	1	233	0	0		
7:15 - 7:30	142	132	0	1	1.51	12.00	7	282	425	0	6	0	210	635	0	288	0	0		
7:30 - 7:45	147	111	0	1	1.46	12.00	5	264	386	0	1	0	35	421	0	265	0	0		
7:45 - 8:00	132	122	0	4	1.63	12.00	6	264	430	0	0	0	0	430	1	265	0	0		
8:00 - 8:15	75	268	2	2	1.83	7.50	9	356	650	0	0	0	0	650	2	358	0	0		
8:15 - 8:30	39	330	3	4	1.98	8.14	10	386	766	0	0	0	0	766	1	387	0	0		
8:30 - 8:45	41	230	2	1	1.87	6.00	9	283	528	0	0	0	0	528	1	284	0	0		
8:45 - 9:00	85	109	1	0	1.56	4.00	6	201	313	0	2	0	70	383	0	203	0	0		
9:00 - 9:15	58	110	1	0	1.63	3.00	8	177	289	0	4	0	140	429	2	183	0	0		
9:15 - 9:30	112	94	6	1	1.54	4.29	2	215	332	0	8	0	280	612	0	223	0	0		
9:30 - 9:45	192	74	1	0	1.28	3.00	3	270	346	0	2	0	70	416	0	272	0	0		
9:45 - 10:00	185	37	0	1	1.21	12.00	2	225	273	0	2	0	70	343	1	228	0	0		

5-Hour Totals

Vehicles	1,961	3,065	16	48	N/A	N/A	126	5,216	8,842	0	43	0	1,505	10,347	24	5,283	0	0
Persons	1,961	6,130	49	576			126											

	5 Hours	I-66 HOV Restricted Period (5:30 AM - 9:30 AM)	Peak Hour in HOV restricted period (7:15 AM - 8:15 AM)	Peak Hour in monitoring period (7:15 AM - 8:15 AM)
Highway Passengers	10,347	8,503	2,136	2,136
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	8,842	7,208	1,891	1,891
Autos and Motorcycles	5,216	4,024	1,166	1,166
Average Auto Occupancy	1.70	1.79	1.62	1.62

I-66 Eastbound between Va. 234 Business and Bull Run
 Non-HOV Lane Total
 Fall 2014 - 30 September 2014

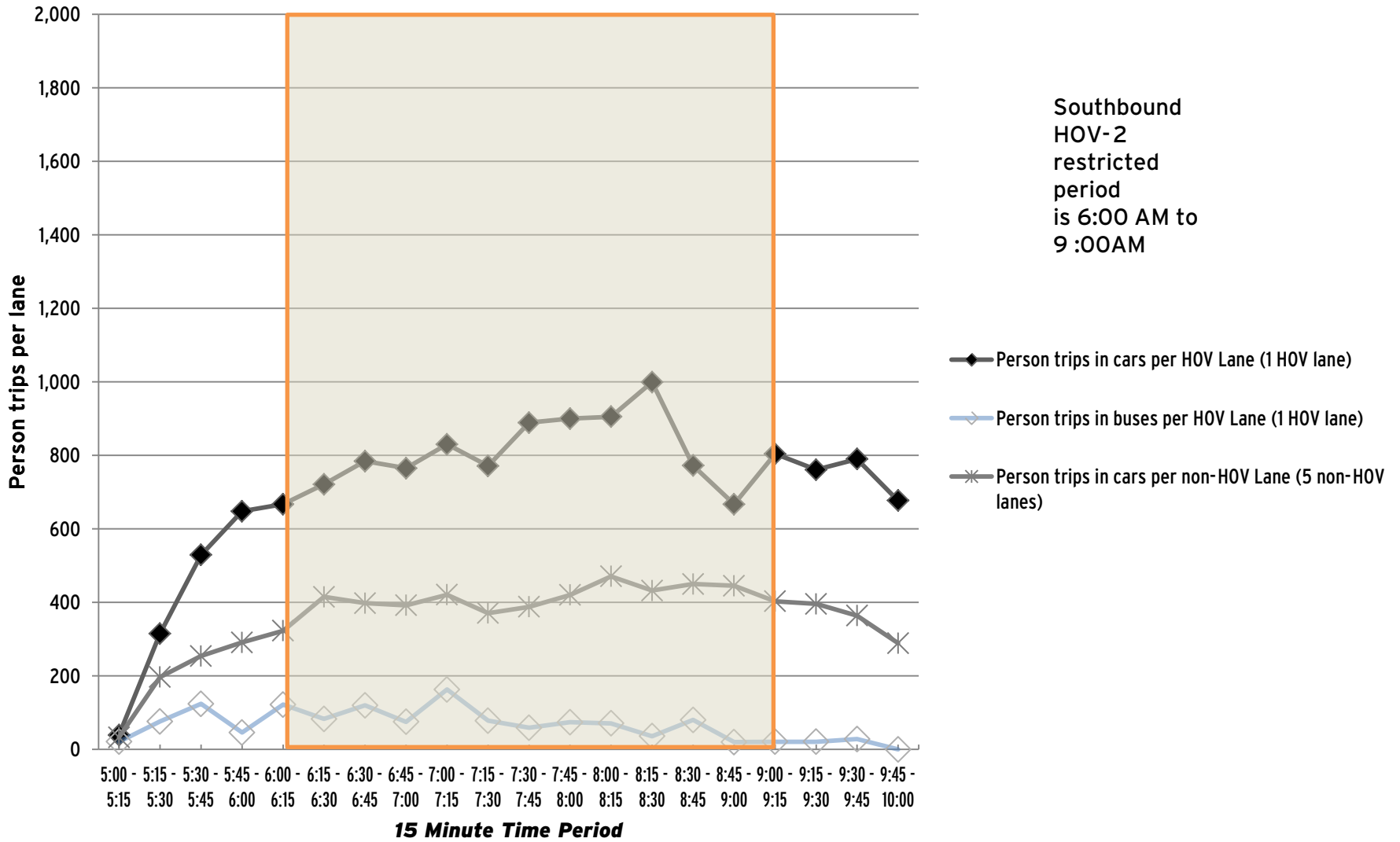
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.	
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+ Bus Passengers	Trucks				
5:00 - 5:15	384	7	0	0	1.02	0.00	0	391	398	0	0	0	0	0	0	0	391	0	0	
5:15 - 5:30	776	27	0	0	1.03	0.00	1	804	831	0	0	0	0	0	0	831	0	804	0	0
5:30 - 5:45	1,013	16	1	0	1.02	3.00	3	1,033	1,051	0	0	0	0	0	0	1,051	0	1,033	0	0
5:45 - 6:00	1,138	16	0	0	1.01	0.00	2	1,156	1,172	0	0	0	0	0	0	1,172	0	1,156	0	0
6:00 - 6:15	1,030	27	1	1	1.04	7.50	0	1,059	1,099	0	1	0	0	0	0	1,099	0	1,060	0	0
6:15 - 6:30	1,301	1	0	0	1.00	0.00	2	1,304	1,305	0	2	0	0	0	0	1,305	1	1,307	0	0
6:30 - 6:45	840	3	0	2	1.03	12.00	0	845	870	0	5	0	0	0	0	870	0	850	0	0
6:45 - 7:00	624	1	0	0	1.00	0.00	0	625	626	0	2	0	0	0	0	626	0	627	0	0
7:00 - 7:15	683	9	0	0	1.01	0.00	0	692	701	0	3	0	0	0	0	701	0	695	0	0
7:15 - 7:30	1,207	19	1	0	1.02	3.00	1	1,228	1,249	0	6	0	0	0	0	1,249	0	1,234	0	0
7:30 - 7:45	1,226	16	0	0	1.01	0.00	1	1,243	1,259	0	0	0	0	0	0	1,259	0	1,243	0	0
7:45 - 8:00	1,141	9	0	0	1.01	0.00	1	1,151	1,160	0	0	0	0	0	0	1,160	0	1,151	0	0
8:00 - 8:15	1,001	6	1	0	1.01	3.00	0	1,008	1,016	0	0	0	0	0	0	1,016	0	1,008	0	0
8:15 - 8:30	1,036	4	0	0	1.00	0.00	1	1,041	1,045	0	0	0	0	0	0	1,045	0	1,041	0	0
8:30 - 8:45	981	3	0	0	1.00	0.00	0	984	987	0	0	0	0	0	0	987	0	984	0	0
8:45 - 9:00	850	4	1	0	1.01	3.00	0	855	861	0	2	0	0	0	0	861	0	857	0	0
9:00 - 9:15	820	2	0	1	1.02	12.00	0	823	836	0	4	0	0	0	0	836	0	827	0	0
9:15 - 9:30	990	4	0	0	1.00	0.00	0	994	998	0	8	0	0	0	0	998	0	1,002	0	0
9:30 - 9:45	901	18	0	0	1.02	0.00	0	919	937	0	2	0	0	0	0	937	0	921	0	0
9:45 - 10:00	901	25	2	0	1.03	3.50	0	928	958	0	2	0	0	0	0	958	1	931	0	0

5-Hour Totals

Vehicles	18,843	217	7	4	N/A	N/A	12	19,083	19,359	0	37	0	0	19,359	2	19,122	0	0
Persons	18,843	434	22	48			12											

	5 Hours	I-66 HOV Restricted Period (5:30 AM - 9:30 AM)	Peak Hour in HOV restricted period (7:15 AM - 8:15 AM)	Peak Hour in monitoring period (7:15 AM - 8:15 AM)
Highway Passengers	19,359	16,235	4,684	4,684
Rail Passengers	0	0	0	0
Auto and Motorcycle Passengers	19,359	16,235	4,684	4,684
Autos and Motorcycles	19,083	16,041	4,630	4,630
Average Auto Occupancy	1.01	1.01	1.01	1.01

**I-270 Southbound
Between Montrose Road and I-270/I-270 Spur Lane Divide
Spring 2014
Observed person trips per lane by 15 minute interval**



I-270 South between Montrose Road and the "Split" (max load point)

All Lanes Total

Spring 2014 - 12 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers.		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+ Bus Passengers					
5:00 - 5:15	119	16	16	0	1.36	3.44	0	151	206	0	0	21	0	227	0	151	0	0		
5:15 - 5:30	1,222	25	4	1	1.04	5.40	2	1,254	1,301	1	0	0	76	1,377	1	1,256	0	0		
5:30 - 5:45	1,673	56	0	1	1.04	12.00	4	1,734	1,801	2	0	48	76	1,925	1	1,737	0	0		
5:45 - 6:00	1,794	82	11	9	1.11	7.30	1	1,897	2,105	2	0	46	0	2,151	3	1,902	0	0		
6:00 - 6:15	1,754	204	5	8	1.16	9.23	1	1,972	2,283	3	0	46	76	2,405	2	1,977	0	0		
6:15 - 6:30	1,925	366	22	6	1.21	4.93	1	2,320	2,796	4	0	45	38	2,879	2	2,326	0	0		
6:30 - 6:45	1,911	360	10	9	1.21	7.32	6	2,296	2,776	3	1	44	76	2,896	3	2,303	0	0		
6:45 - 7:00	1,927	359	12	3	1.18	4.93	4	2,305	2,723	3	2	37	38	2,798	8	2,318	0	0		
7:00 - 7:15	2,003	428	8	4	1.20	6.08	4	2,447	2,936	4	1	49	114	3,099	6	2,458	0	0		
7:15 - 7:30	1,791	398	13	0	1.19	3.08	1	2,203	2,628	3	2	40	38	2,706	6	2,214	0	0		
7:30 - 7:45	1,864	399	16	9	1.23	6.48	3	2,291	2,827	3	1	21	38	2,886	10	2,305	0	0		
7:45 - 8:00	2,044	454	7	2	1.20	5.00	3	2,510	3,000	2	2	36	38	3,074	12	2,526	0	0		
8:00 - 8:15	2,232	481	11	2	1.19	4.46	6	2,732	3,258	1	1	33	38	3,329	4	2,738	0	0		
8:15 - 8:30	2,062	519	7	3	1.22	5.90	2	2,593	3,161	4	0	36	0	3,197	9	2,606	0	0		
8:30 - 8:45	2,167	410	11	0	1.17	3.00	1	2,589	3,021	3	0	42	38	3,101	6	2,598	0	0		
8:45 - 9:00	2,111	377	7	0	1.16	3.43	2	2,497	2,891	1	0	20	0	2,911	7	2,505	0	0		
9:00 - 9:15	2,077	350	9	1	1.16	4.30	1	2,438	2,821	0	0	21	0	2,842	5	2,443	0	0		
9:15 - 9:30	2,162	278	7	0	1.12	3.00	0	2,447	2,739	2	0	21	0	2,760	14	2,463	0	0		
9:30 - 9:45	2,093	218	15	3	1.12	4.50	2	2,331	2,612	1	0	28	0	2,640	5	2,337	0	0		
9:45 - 10:00	1,753	154	6	3	1.11	6.56	4	1,920	2,124	0	0	0	0	2,124	8	1,928	0	0		

5-Hour Totals

Vehicles	36,684	5,934	197	64	N/A	N/A	48	42,927	50,009	42	10	634	684	51,327	112	43,091	0	0
Persons	36,684	11,868	641	768			48											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(7:45 AM - 8:45 AM)
Highway Passengers	51,327	35,281	12,701
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	50,009	34,300	12,440
Autos and Motorcycles	42,927	28,755	9,246
Average Auto Occupancy (Includes Motorcycles)	1.16	1.19	1.35

I-270 South between Montrose Road and the "Split" (max load point)

HOV Lane Total

Spring 2014 - 12 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	13	4	5	0	1.77	3.60	0	22	39	1	0	21	0	60	0	22	0	0		
5:15 - 5:30	278	18	0	0	1.06	0.00	1	297	315	0	2	0	76	391	1	299	0	0		
5:30 - 5:45	467	30	0	0	1.06	0.00	2	499	529	2	2	48	76	653	0	501	0	0		
5:45 - 6:00	481	46	1	6	1.21	10.71	0	534	648	2	0	46	0	694	1	536	0	0		
6:00 - 6:15	276	168	2	4	1.48	9.00	1	451	667	2	2	46	76	789	1	455	0	0		
6:15 - 6:30	107	253	20	4	1.88	4.50	0	384	721	2	1	45	38	804	1	388	0	0		
6:30 - 6:45	136	258	10	8	1.88	7.06	5	417	784	2	2	44	76	904	2	422	0	0		
6:45 - 7:00	111	288	12	3	1.83	4.93	4	418	765	2	1	37	38	840	2	424	0	0		
7:00 - 7:15	96	330	7	4	1.88	6.36	4	441	830	2	3	49	114	993	5	450	0	0		
7:15 - 7:30	89	322	12	0	1.82	3.08	1	424	771	2	1	40	38	849	5	433	0	0		
7:30 - 7:45	55	340	13	9	2.12	6.86	3	420	889	1	1	21	38	948	5	429	0	0		
7:45 - 8:00	71	392	6	2	1.90	5.25	3	474	900	2	1	36	38	974	4	482	0	0		
8:00 - 8:15	56	396	9	2	1.93	4.73	5	468	905	2	1	33	38	976	2	472	0	0		
8:15 - 8:30	64	449	4	2	1.92	6.00	1	520	999	2	0	36	0	1,035	5	528	0	0		
8:30 - 8:45	68	341	7	0	1.85	3.00	1	417	772	2	1	42	38	852	6	424	0	0		
8:45 - 9:00	96	276	5	0	1.76	3.40	2	379	667	1	0	20	0	687	3	383	0	0		
9:00 - 9:15	264	253	6	1	1.53	4.86	0	524	804	1	0	21	0	825	1	525	0	0		
9:15 - 9:30	465	142	4	0	1.25	3.00	0	611	761	1	0	21	0	782	7	618	0	0		
9:30 - 9:45	505	125	11	0	1.23	3.00	2	643	790	1	0	28	0	818	1	644	0	0		
9:45 - 10:00	534	64	3	0	1.12	4.33	2	603	677	0	0	0	0	677	2	605	0	0		

5-Hour Totals

Vehicles	4,232	4,495	137	45	N/A	N/A	37	8,946	14,233	30	18	634	684	15,551	54	9,040	0	0
Persons	4,232	8,990	434	540			37											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(7:45 AM - 8:45 AM)
Highway Passengers	15,551	10,651	3,837
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	14,233	9,670	3,576
Autos and Motorcycles	8,946	5,213	1,703
Average Auto Occupancy (Includes Motorcycles)	1.59	1.85	2.10

I-270 South between Montrose Road and the "Split" (max load point)

Non-HOV Lane Total

Spring 2014 - 12 June 2014

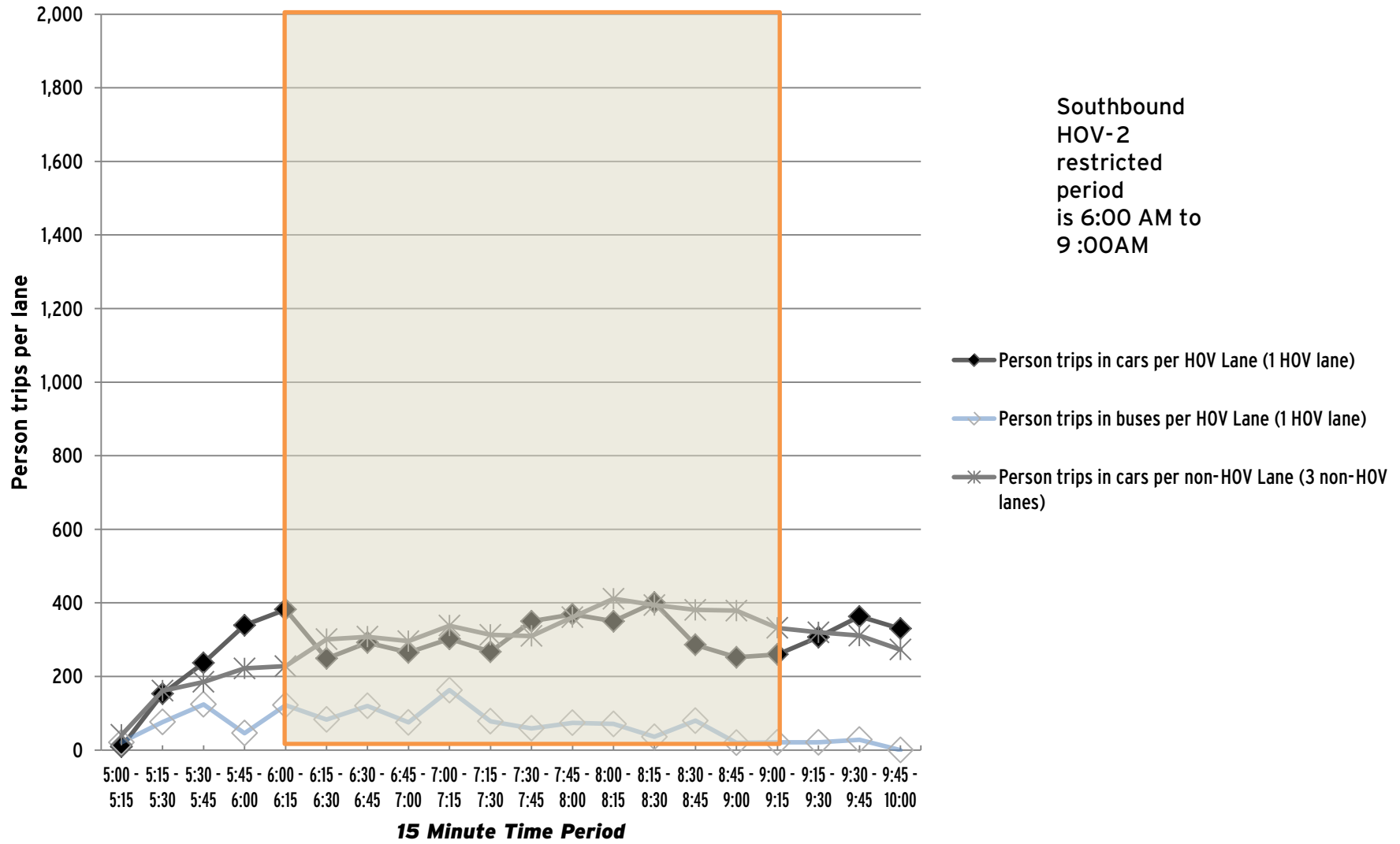
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	106	12	11	0	1.29	3.36	0	129	167	0	0	0	0	167	0	129	0	0	
5:15 - 5:30	944	7	4	1	1.03	5.40	1	957	986	0	0	0	0	986	0	957	0	0	
5:30 - 5:45	1,206	26	0	1	1.03	12.00	2	1,235	1,272	0	0	0	0	1,272	1	1,236	0	0	
5:45 - 6:00	1,313	36	10	3	1.07	5.46	1	1,363	1,457	1	0	0	0	1,457	2	1,366	0	0	
6:00 - 6:15	1,478	36	3	4	1.06	9.43	0	1,521	1,616	0	0	0	0	1,616	1	1,522	0	0	
6:15 - 6:30	1,818	113	2	2	1.07	7.50	1	1,936	2,075	1	0	0	0	2,075	1	1,938	0	0	
6:30 - 6:45	1,775	102	0	1	1.06	12.00	1	1,879	1,992	1	0	0	0	1,992	1	1,881	0	0	
6:45 - 7:00	1,816	71	0	0	1.04	0.00	0	1,887	1,958	1	0	0	0	1,958	6	1,894	0	0	
7:00 - 7:15	1,907	98	1	0	1.05	3.00	0	2,006	2,106	1	0	0	0	2,106	1	2,008	0	0	
7:15 - 7:30	1,702	76	1	0	1.04	3.00	0	1,779	1,857	1	0	0	0	1,857	1	1,781	0	0	
7:30 - 7:45	1,809	59	3	0	1.04	3.67	0	1,871	1,938	0	0	0	0	1,938	5	1,876	0	0	
7:45 - 8:00	1,973	62	1	0	1.03	3.00	0	2,036	2,100	0	0	0	0	2,100	8	2,044	0	0	
8:00 - 8:15	2,176	85	2	0	1.04	3.00	1	2,264	2,353	0	0	0	0	2,353	2	2,266	0	0	
8:15 - 8:30	1,998	70	3	1	1.04	5.75	1	2,073	2,162	1	0	0	0	2,162	4	2,078	0	0	
8:30 - 8:45	2,099	69	4	0	1.04	3.00	0	2,172	2,249	2	0	0	0	2,249	0	2,174	0	0	
8:45 - 9:00	2,015	101	2	0	1.05	3.50	0	2,118	2,224	0	0	0	0	2,224	4	2,122	0	0	
9:00 - 9:15	1,813	97	3	0	1.05	3.00	1	1,914	2,017	0	0	0	0	2,017	4	1,918	0	0	
9:15 - 9:30	1,697	136	3	0	1.08	3.00	0	1,836	1,978	2	0	0	0	1,978	7	1,845	0	0	
9:30 - 9:45	1,588	93	4	3	1.08	6.86	0	1,688	1,822	1	0	0	0	1,822	4	1,693	0	0	
9:45 - 10:00	1,219	90	3	3	1.10	7.67	2	1,317	1,447	0	0	0	0	1,447	6	1,323	0	0	

5-Hour Totals

Vehicles	32,452	1,439	60	19	N/A	N/A	11	33,981	35,776	12	0	0	0	35,776	58	34,051	0	0
Persons	32,452	2,878	207	228			11											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(7:45 AM - 8:45 AM)
Highway Passengers	35,776	24,630	8,864
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	35,776	24,630	8,864
Autos and Motorcycles	33,981	23,542	7,543
Average Auto Occupancy (Includes Motorcycles)	1.05	1.05	1.18

**I-270 Southbound
Spring 2014
Between I-270Y (I-270 Spur) and Rockledge Drive
Observed person trips per lane by 15 minute interval**



I-270 Southbound at Rockledge Dr
 All Lanes Total
 Spring 2014 - 12 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	95	6	7	0	1.21	3.43	0	108	131	0	0	21	0	152	0	108	0	0		
5:15 - 5:30	575	23	4	0	1.06	3.75	1	603	637	1	0	0	76	713	1	605	0	0		
5:30 - 5:45	689	45	0	1	1.08	12.00	2	737	793	2	0	48	76	917	1	740	0	0		
5:45 - 6:00	752	73	10	6	1.19	6.69	1	842	1,006	2	0	46	0	1,052	3	847	0	0		
6:00 - 6:15	674	160	5	4	1.26	8.00	1	844	1,067	3	0	46	76	1,189	2	849	0	0		
6:15 - 6:30	852	122	14	1	1.16	3.60	1	990	1,151	3	0	45	38	1,234	0	993	0	0		
6:30 - 6:45	904	126	7	3	1.17	5.80	2	1,042	1,216	2	1	44	76	1,336	0	1,045	0	0		
6:45 - 7:00	885	106	9	2	1.15	4.82	2	1,004	1,152	2	2	37	38	1,227	5	1,013	0	0		
7:00 - 7:15	976	142	6	3	1.17	6.11	2	1,129	1,317	3	1	49	114	1,480	2	1,135	0	0		
7:15 - 7:30	874	152	9	0	1.17	3.11	0	1,035	1,206	2	2	40	38	1,284	2	1,041	0	0		
7:30 - 7:45	891	170	8	2	1.20	5.00	0	1,071	1,281	3	1	21	38	1,340	5	1,080	0	0		
7:45 - 8:00	1,023	201	5	1	1.18	4.50	0	1,230	1,452	2	2	36	38	1,526	5	1,239	0	0		
8:00 - 8:15	1,093	219	8	2	1.19	4.90	2	1,324	1,582	1	1	33	38	1,653	2	1,328	0	0		
8:15 - 8:30	1,082	233	3	2	1.20	6.60	1	1,321	1,582	4	0	36	0	1,618	4	1,329	0	0		
8:30 - 8:45	1,048	185	4	0	1.16	3.00	0	1,237	1,430	1	0	42	38	1,510	5	1,243	0	0		
8:45 - 9:00	1,009	185	3	0	1.16	3.00	0	1,197	1,388	1	0	20	0	1,408	4	1,202	0	0		
9:00 - 9:15	988	123	6	0	1.12	3.67	1	1,118	1,257	0	0	21	0	1,278	1	1,119	0	0		
9:15 - 9:30	984	138	2	0	1.13	3.00	0	1,124	1,266	0	0	21	0	1,287	5	1,129	0	0		
9:30 - 9:45	952	146	13	1	1.16	3.64	1	1,113	1,296	0	0	28	0	1,324	3	1,116	0	0		
9:45 - 10:00	903	106	2	2	1.14	8.75	0	1,013	1,150	0	0	0	0	1,150	6	1,019	0	0		

5-Hour Totals

Vehicles	17,249	2,661	125	30	N/A	N/A	17	20,082	23,360	32	10	634	684	24,678	56	20,180	0	0
Persons	17,249	5,322	412	360			17											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(7:45 AM - 8:45 AM)
Highway Passengers	24,678	16,805	6,307
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	23,360	15,824	6,046
Autos and Motorcycles	20,082	13,424	5,112
Average Auto Occupancy (Includes Motorcycles)	1.16	1.18	1.18

I-270 Southbound at Rockledge Dr
 HOV Lane Total
 Spring 2014 - 12 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	0	1	2	0	3.00	3.50	0	3	9	1	0	21	0	30	0	3	0	0		
5:15 - 5:30	119	17	0	0	1.13	0.00	0	136	153	0	2	0	76	229	1	138	0	0		
5:30 - 5:45	184	26	0	0	1.12	0.00	1	211	237	2	2	48	76	361	0	213	0	0		
5:45 - 6:00	178	43	1	6	1.49	10.71	0	228	339	2	0	46	0	385	1	230	0	0		
6:00 - 6:15	41	143	2	4	2.00	9.00	1	191	382	2	2	46	76	504	1	195	0	0		
6:15 - 6:30	56	71	13	1	1.77	3.64	0	141	249	2	1	45	38	332	0	144	0	0		
6:30 - 6:45	107	63	7	3	1.61	5.80	1	181	292	2	2	44	76	412	0	184	0	0		
6:45 - 7:00	84	63	9	2	1.66	4.82	2	160	265	2	1	37	38	340	0	164	0	0		
7:00 - 7:15	83	81	6	3	1.73	6.11	2	175	302	2	3	49	114	465	1	180	0	0		
7:15 - 7:30	52	95	8	0	1.72	3.13	0	155	267	2	1	40	38	345	1	160	0	0		
7:30 - 7:45	13	146	7	2	2.08	5.00	0	168	350	1	1	21	38	409	2	174	0	0		
7:45 - 8:00	21	162	4	1	1.96	4.80	0	188	369	2	1	36	38	443	2	194	0	0		
8:00 - 8:15	12	147	6	2	2.08	5.38	1	168	350	2	1	33	38	421	1	171	0	0		
8:15 - 8:30	17	184	1	1	1.97	7.50	1	204	401	2	0	36	0	437	1	208	0	0		
8:30 - 8:45	9	137	1	0	1.95	3.00	0	147	286	2	1	42	38	366	5	153	0	0		
8:45 - 9:00	14	116	2	0	1.91	3.00	0	132	252	1	0	20	0	272	0	133	0	0		
9:00 - 9:15	125	58	5	0	1.38	3.80	0	188	260	1	0	21	0	281	0	188	0	0		
9:15 - 9:30	187	57	2	0	1.25	3.00	0	246	307	1	0	21	0	328	0	246	0	0		
9:30 - 9:45	174	79	10	0	1.38	3.00	1	264	363	1	0	28	0	391	0	264	0	0		
9:45 - 10:00	243	40	1	0	1.16	7.00	0	284	330	0	0	0	0	330	1	285	0	0		

5-Hour Totals

Vehicles	1,719	1,729	87	25	N/A	N/A	10	3,570	5,763	30	18	634	684	7,081	17	3,627	0	0
Persons	1,719	3,458	276	300			10											

	I-270 HOV Restricted Period 5 Hours (6:00 AM - 9:00 AM)	Peak Hour in HOV restricted period (7:45 AM - 8:45 AM)	Peak Hour in monitoring period (7:45 AM - 8:45 AM)
Highway Passengers	7,081	4,746	1,667
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	5,763	3,765	1,406
Autos and Motorcycles	3,570	2,010	707
Average Auto Occupancy (Includes Motorcycles)	1.61	1.87	1.99

I-270 Southbound at Rockledge Dr
 Non-HOV Lane Total
 Spring 2014 - 12 June 2014

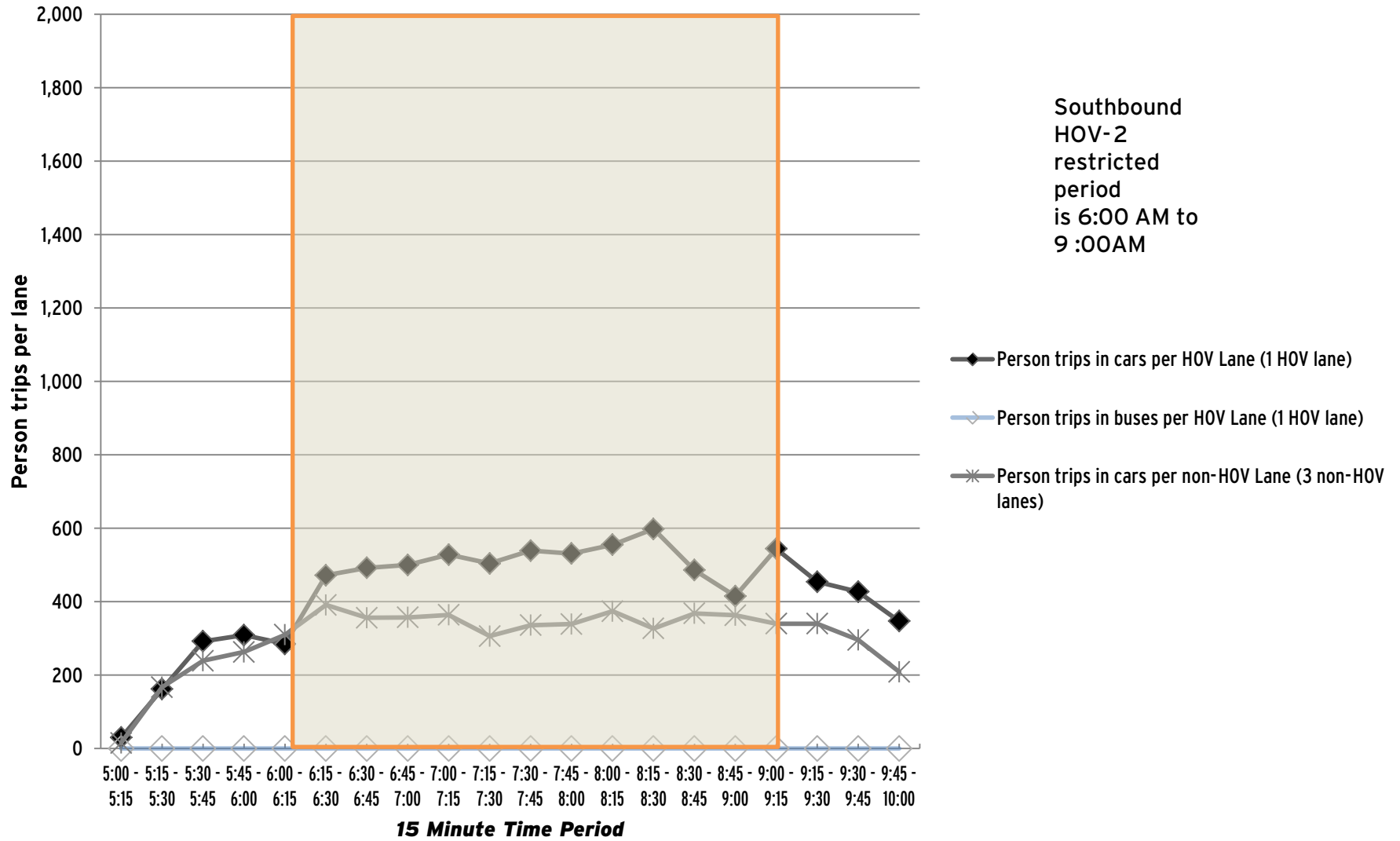
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	95	5	5	0	1.16	3.40	0	105	122	0	0	0	0	122	0	105	0	0	
5:15 - 5:30	456	6	4	0	1.04	3.75	1	467	484	0	0	0	0	484	0	467	0	0	
5:30 - 5:45	505	19	0	1	1.06	12.00	1	526	556	0	0	0	0	556	1	527	0	0	
5:45 - 6:00	574	30	9	0	1.09	3.56	1	614	667	1	0	0	0	667	2	617	0	0	
6:00 - 6:15	633	17	3	0	1.05	6.00	0	653	685	0	0	0	0	685	1	654	0	0	
6:15 - 6:30	796	51	1	0	1.06	3.00	1	849	902	0	0	0	0	902	0	849	0	0	
6:30 - 6:45	797	63	0	0	1.07	0.00	1	861	924	0	0	0	0	924	0	861	0	0	
6:45 - 7:00	801	43	0	0	1.05	0.00	0	844	887	0	0	0	0	887	5	849	0	0	
7:00 - 7:15	893	61	0	0	1.06	0.00	0	954	1,015	0	0	0	0	1,015	1	955	0	0	
7:15 - 7:30	822	57	1	0	1.07	3.00	0	880	939	0	0	0	0	939	1	881	0	0	
7:30 - 7:45	878	24	1	0	1.03	5.00	0	903	931	0	0	0	0	931	3	906	0	0	
7:45 - 8:00	1,002	39	1	0	1.04	3.00	0	1,042	1,083	0	0	0	0	1,083	3	1,045	0	0	
8:00 - 8:15	1,081	72	2	0	1.07	3.00	1	1,156	1,232	0	0	0	0	1,232	1	1,157	0	0	
8:15 - 8:30	1,065	49	2	1	1.06	6.00	0	1,117	1,181	1	0	0	0	1,181	3	1,121	0	0	
8:30 - 8:45	1,039	48	3	0	1.05	3.00	0	1,090	1,144	0	0	0	0	1,144	0	1,090	0	0	
8:45 - 9:00	995	69	1	0	1.07	3.00	0	1,065	1,136	0	0	0	0	1,136	4	1,069	0	0	
9:00 - 9:15	863	65	1	0	1.07	3.00	1	930	997	0	0	0	0	997	1	931	0	0	
9:15 - 9:30	797	81	0	0	1.09	0.00	0	878	959	0	0	0	0	959	5	883	0	0	
9:30 - 9:45	778	67	3	1	1.10	5.25	0	849	933	0	0	0	0	933	3	852	0	0	
9:45 - 10:00	660	66	1	2	1.12	9.33	0	729	820	0	0	0	0	820	5	734	0	0	

5-Hour Totals

Vehicles	15,530	932	38	5	N/A	N/A	7	16,512	17,597	2	0	0	0	17,597	39	16,553	0	0
Persons	15,530	1,864	136	60			7											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(7:45 AM - 8:45 AM)	(7:45 AM - 8:45 AM)
Highway Passengers	17,597	12,059	4,640
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	17,597	12,059	4,640
Autos and Motorcycles	16,512	11,414	4,405
Average Auto Occupancy (Includes Motorcycles)	1.07	1.06	1.05

**I-270Y (I-270 Spur) Southbound
Spring 2014
Between I-270 and Democracy Boulevard
Observed person trips per lane by 15 minute interval**



I-270 Spur South between the "Split" and Democracy Blvd
 All Lanes Total
 Spring 2014 - 11 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	24	10	9	0	1.74	3.44	0	43	75	0	0	0	0	75	0	43	0	0		
5:15 - 5:30	647	2	0	1	1.02	12.00	1	651	664	0	0	0	0	664	0	651	0	0		
5:30 - 5:45	984	11	0	0	1.01	0.00	2	997	1,008	0	0	0	0	1,008	0	997	0	0		
5:45 - 6:00	1,042	9	1	3	1.04	9.75	0	1,055	1,099	0	0	0	0	1,099	0	1,055	0	0		
6:00 - 6:15	1,080	44	0	4	1.08	12.00	0	1,128	1,216	0	0	0	0	1,216	0	1,128	0	0		
6:15 - 6:30	1,073	244	8	5	1.24	6.46	0	1,330	1,645	1	0	0	0	1,645	2	1,333	0	0		
6:30 - 6:45	1,007	234	3	6	1.24	9.00	4	1,254	1,560	1	0	0	0	1,560	3	1,258	0	0		
6:45 - 7:00	1,042	253	3	1	1.21	5.25	2	1,301	1,571	1	0	0	0	1,571	3	1,305	0	0		
7:00 - 7:15	1,027	286	2	1	1.23	6.00	2	1,318	1,619	1	0	0	0	1,619	4	1,323	0	0		
7:15 - 7:30	917	246	4	0	1.22	3.00	1	1,168	1,422	1	0	0	0	1,422	4	1,173	0	0		
7:30 - 7:45	973	229	8	7	1.27	7.47	3	1,220	1,546	0	0	0	0	1,546	5	1,225	0	0		
7:45 - 8:00	1,021	253	2	1	1.21	6.00	3	1,280	1,548	0	0	0	0	1,548	7	1,287	0	0		
8:00 - 8:15	1,139	262	3	0	1.19	3.00	4	1,408	1,676	0	0	0	0	1,676	2	1,410	0	0		
8:15 - 8:30	980	286	4	1	1.24	5.20	1	1,272	1,579	0	0	0	0	1,579	5	1,277	0	0		
8:30 - 8:45	1,119	225	7	0	1.18	3.00	1	1,352	1,591	2	0	0	0	1,591	1	1,355	0	0		
8:45 - 9:00	1,102	192	4	0	1.16	3.75	2	1,300	1,503	0	0	0	0	1,503	3	1,303	0	0		
9:00 - 9:15	1,089	227	3	1	1.18	5.25	0	1,320	1,564	0	0	0	0	1,564	4	1,324	0	0		
9:15 - 9:30	1,178	140	5	0	1.11	3.00	0	1,323	1,473	2	0	0	0	1,473	9	1,334	0	0		
9:30 - 9:45	1,141	72	2	2	1.08	7.50	1	1,218	1,316	1	0	0	0	1,316	2	1,221	0	0		
9:45 - 10:00	850	48	4	1	1.07	4.80	4	907	974	0	0	0	0	974	2	909	0	0		

5-Hour Totals

Vehicles	19,435	3,273	72	34	N/A	N/A	31	22,845	26,649	10	0	0	0	26,649	56	22,911	0	0
Persons	19,435	6,546	229	408			31											

	I-270V HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)
Highway Passengers	26,649	18,476	6,349
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	26,649	18,476	6,349
Autos and Motorcycles	22,845	15,331	5,332
Average Auto Occupancy	1.17	1.21	1.19

I-270 Spur South between the "Split" and Democracy Blvd
 HOV Lane Total (Lane 1 and Westlake/Fernwood HOV ramp)
 Spring 2014 - 11 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	13	3	3	0	1.58	3.67	0	19	30	0	0	0	0	30	0	19	0	0		
5:15 - 5:30	159	1	0	0	1.01	0.00	1	161	162	0	0	0	0	162	0	161	0	0		
5:30 - 5:45	283	4	0	0	1.01	0.00	1	288	292	0	0	0	0	292	0	288	0	0		
5:45 - 6:00	303	3	0	0	1.01	0.00	0	306	309	0	0	0	0	309	0	306	0	0		
6:00 - 6:15	235	25	0	0	1.10	0.00	0	260	285	0	0	0	0	285	0	260	0	0		
6:15 - 6:30	51	182	7	3	1.94	5.70	0	243	472	0	0	0	0	472	1	244	0	0		
6:30 - 6:45	29	195	3	5	2.08	8.63	4	236	492	0	0	0	0	492	2	238	0	0		
6:45 - 7:00	27	225	3	1	1.94	5.25	2	258	500	0	0	0	0	500	2	260	0	0		
7:00 - 7:15	13	249	1	1	1.98	7.50	2	266	528	0	0	0	0	528	4	270	0	0		
7:15 - 7:30	37	227	4	0	1.87	3.00	1	269	504	0	0	0	0	504	4	273	0	0		
7:30 - 7:45	42	194	6	7	2.14	8.15	3	252	539	0	0	0	0	539	3	255	0	0		
7:45 - 8:00	50	230	2	1	1.86	6.00	3	286	531	0	0	0	0	531	2	288	0	0		
8:00 - 8:15	44	249	3	0	1.85	3.00	4	300	555	0	0	0	0	555	1	301	0	0		
8:15 - 8:30	47	265	3	1	1.89	5.25	0	316	598	0	0	0	0	598	4	320	0	0		
8:30 - 8:45	59	204	6	0	1.80	3.00	1	270	486	0	0	0	0	486	1	271	0	0		
8:45 - 9:00	82	160	3	0	1.68	3.67	2	247	415	0	0	0	0	415	3	250	0	0		
9:00 - 9:15	139	195	1	1	1.62	7.50	0	336	544	0	0	0	0	544	1	337	0	0		
9:15 - 9:30	278	85	2	0	1.24	3.00	0	365	454	0	0	0	0	454	7	372	0	0		
9:30 - 9:45	331	46	1	0	1.13	3.00	1	379	427	0	0	0	0	427	1	380	0	0		
9:45 - 10:00	291	24	2	0	1.09	3.00	2	319	347	0	0	0	0	347	1	320	0	0		

5-Hour Totals

Vehicles	2,513	2,766	50	20	N/A	N/A	27	5,376	8,470	0	0	0	0	8,470	37	5,413	0	0
Persons	2,513	5,532	158	240			27											

	I-270Y HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)
Highway Passengers	8,470	5,905	2,054
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	8,470	5,905	2,054
Autos and Motorcycles	5,376	3,203	1,134
Average Auto Occupancy (Includes Motorcycles)	1.58	1.84	1.81

I-270 Spur South between the "Split" and Democracy Blvd
 Non-HOV Lane Total
 Spring 2014 - 11 June 2014

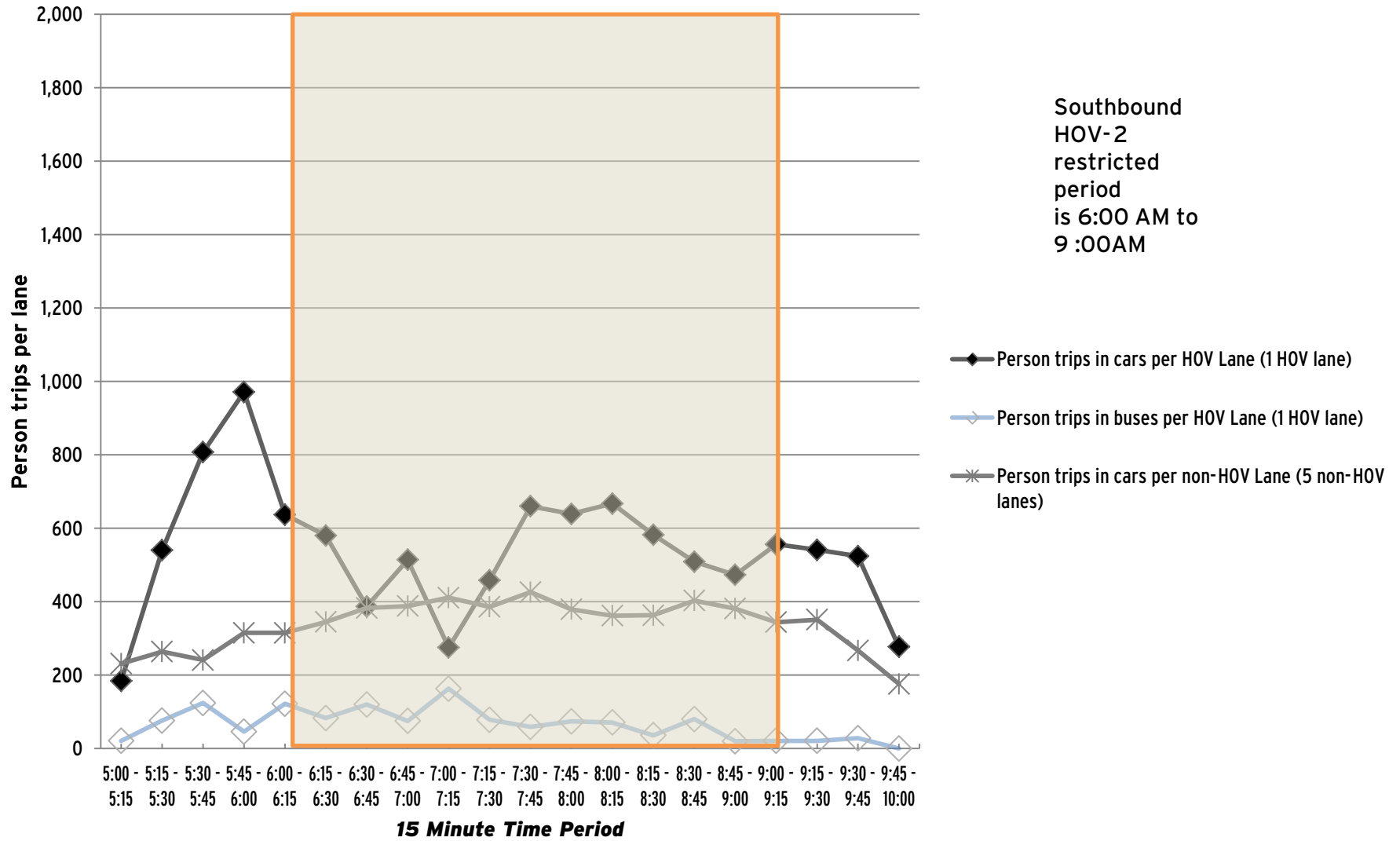
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	11	7	6	0	1.88	3.33	0	24	45	0	0	0	0	45	0	24	0	0	
5:15 - 5:30	488	1	0	1	1.02	12.00	0	490	502	0	0	0	0	502	0	490	0	0	
5:30 - 5:45	701	7	0	0	1.01	0.00	1	709	716	0	0	0	0	716	0	709	0	0	
5:45 - 6:00	739	6	1	3	1.05	9.75	0	749	790	0	0	0	0	790	0	749	0	0	
6:00 - 6:15	845	19	0	4	1.07	12.00	0	868	931	0	0	0	0	931	0	868	0	0	
6:15 - 6:30	1,022	62	1	2	1.08	9.00	0	1,087	1,173	1	0	0	0	1,173	1	1,089	0	0	
6:30 - 6:45	978	39	0	1	1.05	12.00	0	1,018	1,068	1	0	0	0	1,068	1	1,020	0	0	
6:45 - 7:00	1,015	28	0	0	1.03	0.00	0	1,043	1,071	1	0	0	0	1,071	1	1,045	0	0	
7:00 - 7:15	1,014	37	1	0	1.04	3.00	0	1,052	1,091	1	0	0	0	1,091	0	1,053	0	0	
7:15 - 7:30	880	19	0	0	1.02	0.00	0	899	918	1	0	0	0	918	0	900	0	0	
7:30 - 7:45	931	35	2	0	1.04	3.00	0	968	1,007	0	0	0	0	1,007	2	970	0	0	
7:45 - 8:00	971	23	0	0	1.02	0.00	0	994	1,017	0	0	0	0	1,017	5	999	0	0	
8:00 - 8:15	1,095	13	0	0	1.01	0.00	0	1,108	1,121	0	0	0	0	1,121	1	1,109	0	0	
8:15 - 8:30	933	21	1	0	1.03	5.00	1	956	981	0	0	0	0	981	1	957	0	0	
8:30 - 8:45	1,060	21	1	0	1.02	3.00	0	1,082	1,105	2	0	0	0	1,105	0	1,084	0	0	
8:45 - 9:00	1,020	32	1	0	1.03	4.00	0	1,053	1,088	0	0	0	0	1,088	0	1,053	0	0	
9:00 - 9:15	950	32	2	0	1.04	3.00	0	984	1,020	0	0	0	0	1,020	3	987	0	0	
9:15 - 9:30	900	55	3	0	1.06	3.00	0	958	1,019	2	0	0	0	1,019	2	962	0	0	
9:30 - 9:45	810	26	1	2	1.06	9.00	0	839	889	1	0	0	0	889	1	841	0	0	
9:45 - 10:00	559	24	2	1	1.07	6.00	2	588	627	0	0	0	0	627	1	589	0	0	

5-Hour Totals

Vehicles	16,922	507	22	14	N/A	N/A	4	17,469	18,179	10	0	0	0	18,179	19	17,498	0	0
Persons	16,922	1,014	71	168			4											

	I-270V HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)	(8:00 AM - 9:00 AM)
Highway Passengers	18,179	12,571	4,295
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	18,179	12,571	4,295
Autos and Motorcycles	17,469	12,128	4,198
Average Auto Occupancy (Includes Motorcycles)	1.04	1.04	1.02

**I-270 Southbound
Between Md. 189 (Falls Road) and Montrose Road
Fall 2014
Observed person trips per lane by 15 minute interval**



I-270 Southbound between Md. 189 (Falls Rd) and Montrose Road
 All Lanes Total
 Fall 2014 - 16 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	1,250	23	0	3	1.04	12.00	6	1,282	1,338	0	0	21	0	1,359	0	1,282	0	0		
5:15 - 5:30	1,590	84	2	7	1.10	10.33	8	1,691	1,859	1	0	0	76	1,935	0	1,692	0	0		
5:30 - 5:45	1,323	278	0	11	1.25	12.00	2	1,614	2,013	2	0	48	76	2,137	0	1,616	0	0		
5:45 - 6:00	1,535	429	3	11	1.29	10.71	4	1,982	2,547	1	0	46	0	2,593	1	1,984	0	0		
6:00 - 6:15	1,534	275	1	10	1.21	11.18	7	1,827	2,214	3	0	46	76	2,336	2	1,832	0	0		
6:15 - 6:30	1,681	235	0	12	1.19	12.00	10	1,938	2,305	3	0	45	38	2,388	4	1,945	0	0		
6:30 - 6:45	1,892	168	0	5	1.11	12.00	14	2,079	2,302	2	1	44	76	2,422	3	2,085	0	0		
6:45 - 7:00	1,883	261	2	3	1.14	8.40	8	2,157	2,455	2	2	37	38	2,530	13	2,174	0	0		
7:00 - 7:15	1,899	199	2	2	1.11	7.50	4	2,106	2,331	3	1	49	114	2,494	7	2,117	0	0		
7:15 - 7:30	1,852	252	1	2	1.13	9.00	5	2,112	2,388	2	2	40	38	2,466	5	2,121	0	0		
7:30 - 7:45	1,974	383	4	2	1.17	6.17	12	2,375	2,789	3	1	21	38	2,848	7	2,386	0	0		
7:45 - 8:00	1,769	356	3	3	1.18	7.50	9	2,140	2,535	2	2	36	38	2,609	5	2,149	0	0		
8:00 - 8:15	1,708	347	7	4	1.20	6.27	5	2,071	2,476	1	1	33	38	2,547	10	2,083	0	0		
8:15 - 8:30	1,738	293	4	4	1.17	7.50	14	2,053	2,398	3	0	36	0	2,434	7	2,063	0	0		
8:30 - 8:45	1,985	249	3	2	1.12	6.60	6	2,245	2,522	1	0	42	38	2,602	6	2,252	0	0		
8:45 - 9:00	1,943	195	4	2	1.10	6.00	8	2,152	2,377	1	0	20	0	2,397	0	2,153	0	0		
9:00 - 9:15	1,964	141	4	1	1.08	4.80	5	2,115	2,275	1	0	21	0	2,296	6	2,122	0	0		
9:15 - 9:30	2,027	125	2	1	1.06	6.00	1	2,156	2,296	1	0	21	0	2,317	1	2,158	0	0		
9:30 - 9:45	1,704	66	2	1	1.05	6.00	5	1,778	1,859	0	0	28	0	1,887	3	1,781	0	0		
9:45 - 10:00	1,055	39	1	1	1.05	7.50	7	1,103	1,155	0	0	0	0	1,155	2	1,105	0	0		

5-Hour Totals

Vehicles	34,306	4,398	45	87	N/A	N/A	140	38,976	44,434	32	10	634	684	45,752	82	39,100	0	0
Persons	34,306	8,796	148	1,044			140											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	45,752	30,073	10,338
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	44,434	29,092	9,963
Autos and Motorcycles	38,976	25,255	8,750
Average Auto Occupancy (Includes Motorcycles)	1.14	1.15	1.14

I-270 Southbound between Md. 189 (Falls Rd) and Montrose Road
 HOV Lane Total
 Fall 2014 - 16 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	126	22	0	1	1.22	12.00	2	151	184	1	0	21	0	205	0	151	0	0		
5:15 - 5:30	296	83	1	6	1.39	10.71	3	389	540	0	2	0	76	616	0	390	0	0		
5:30 - 5:45	191	241	0	11	1.81	12.00	2	445	807	2	2	48	76	931	0	447	0	0		
5:45 - 6:00	11	425	0	9	2.17	12.00	2	447	971	2	0	46	0	1,017	1	449	0	0		
6:00 - 6:15	2	268	0	8	2.27	12.00	3	281	637	2	2	46	76	759	2	286	0	0		
6:15 - 6:30	2	225	0	10	2.37	12.00	8	245	580	2	1	45	38	663	0	248	0	0		
6:30 - 6:45	73	136	0	3	1.78	12.00	6	218	387	2	2	44	76	507	1	222	0	0		
6:45 - 7:00	107	183	0	3	1.72	12.00	5	298	514	2	1	37	38	589	4	306	0	0		
7:00 - 7:15	83	86	2	1	1.58	6.00	2	174	275	2	3	49	114	438	2	180	0	0		
7:15 - 7:30	86	172	1	2	1.75	9.00	1	262	458	2	1	40	38	536	4	270	0	0		
7:30 - 7:45	24	302	1	2	1.98	9.00	5	334	660	1	1	21	38	719	4	342	0	0		
7:45 - 8:00	30	286	2	2	1.95	7.50	7	327	639	2	1	36	38	713	4	335	0	0		
8:00 - 8:15	17	297	2	4	2.07	9.00	2	322	667	2	1	33	38	738	6	330	0	0		
8:15 - 8:30	36	258	4	1	1.91	4.80	6	305	582	2	0	36	0	618	5	313	0	0		
8:30 - 8:45	52	215	3	1	1.84	5.25	6	277	509	2	1	42	38	589	5	283	0	0		
8:45 - 9:00	188	128	0	2	1.46	12.00	5	323	473	1	0	20	0	493	0	324	0	0		
9:00 - 9:15	343	96	2	1	1.25	6.00	3	445	556	1	0	21	0	577	5	450	0	0		
9:15 - 9:30	371	77	1	1	1.20	7.50	1	451	541	1	0	21	0	562	0	451	0	0		
9:30 - 9:45	439	41	1	0	1.09	3.00	0	481	524	1	0	28	0	552	1	482	0	0		
9:45 - 10:00	239	17	0	0	1.07	0.00	4	260	277	0	0	0	0	277	0	260	0	0		

5-Hour Totals

Vehicles	2,716	3,558	20	68	N/A	N/A	73	6,435	10,781	30	18	634	684	12,099	44	6,519	0	0
Persons	2,716	7,116	60	816			73											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	12,099	7,362	2,282
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	10,781	6,381	1,907
Autos and Motorcycles	6,435	3,366	1,068
Average Auto Occupancy (Includes Motorcycles)	1.68	1.90	1.79

I-270 Southbound between Md. 189 (Falls Rd) and Montrose Road
 Non-HOV Lane Total
 Fall 2014 - 16 September 2014

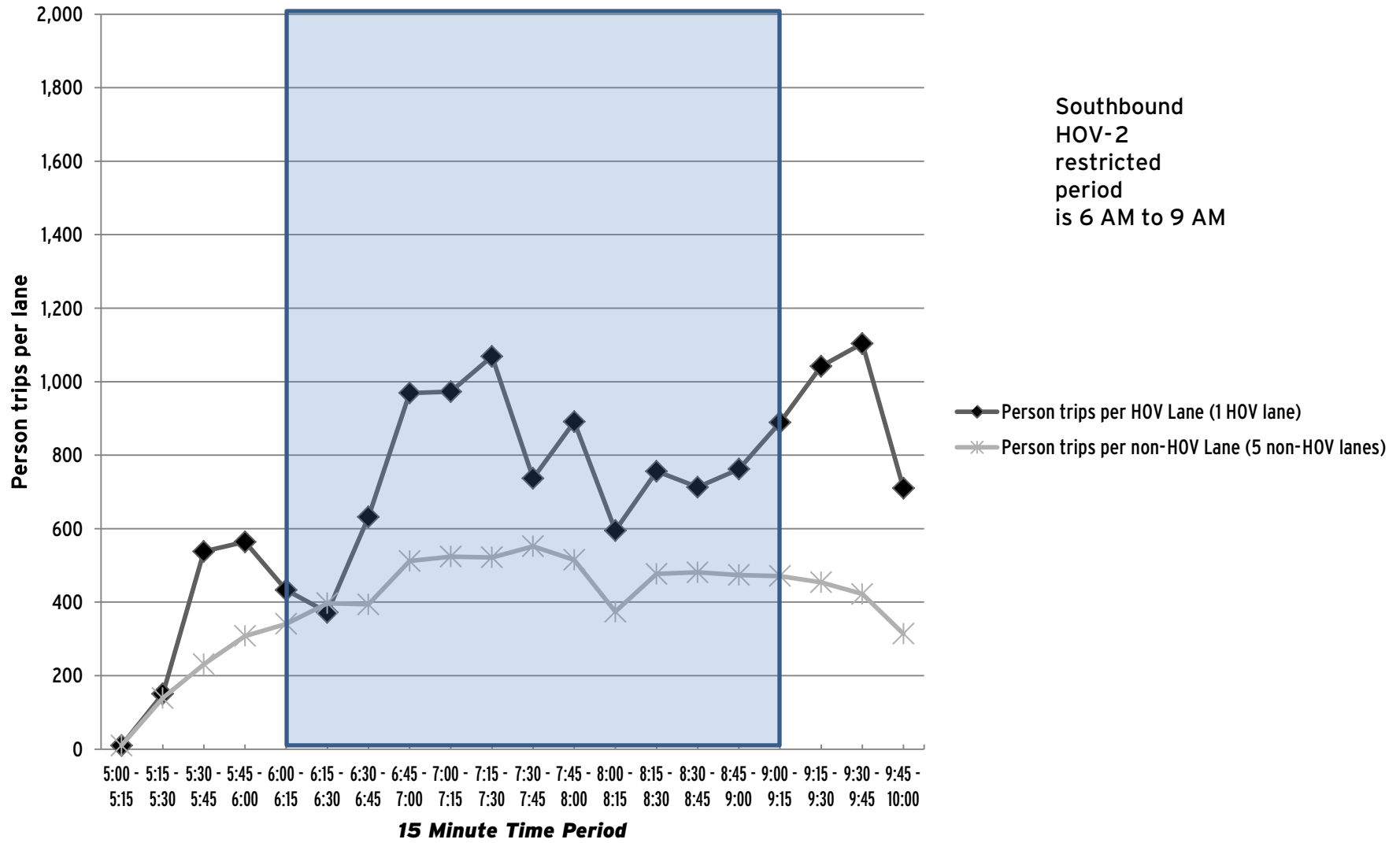
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	1,124	1	0	2	1.02	12.00			1,154		0	0	0	0	1,154	0	1,131	0	0
5:15 - 5:30	1,294	1	1	1	1.01	9.00	5	1,302	1,319		0	0	0	0	1,319	0	1,302	0	0
5:30 - 5:45	1,132	37	0	0	1.03	0.00	0	1,169	1,206		0	0	0	0	1,206	0	1,169	0	0
5:45 - 6:00	1,524	4	3	2	1.03	8.40	2	1,535	1,576		0	0	0	0	1,576	0	1,535	0	0
6:00 - 6:15	1,532	7	1	2	1.02	9.00	4	1,546	1,577		0	0	0	0	1,577	0	1,546	0	0
6:15 - 6:30	1,679	10	0	2	1.02	12.00	2	1,693	1,725		0	0	0	0	1,725	4	1,697	0	0
6:30 - 6:45	1,819	32	0	2	1.03	12.00	8	1,861	1,915		0	0	0	0	1,915	2	1,863	0	0
6:45 - 7:00	1,776	78	2	0	1.04	3.00	3	1,859	1,941		0	0	0	0	1,941	9	1,868	0	0
7:00 - 7:15	1,816	113	0	1	1.06	12.00	2	1,932	2,056		0	0	0	0	2,056	5	1,937	0	0
7:15 - 7:30	1,766	80	0	0	1.04	0.00	4	1,850	1,930		0	0	0	0	1,930	1	1,851	0	0
7:30 - 7:45	1,950	81	3	0	1.04	3.33	7	2,041	2,129		0	0	0	0	2,129	3	2,044	0	0
7:45 - 8:00	1,739	70	1	1	1.05	7.50	2	1,813	1,896		0	0	0	0	1,896	1	1,814	0	0
8:00 - 8:15	1,691	50	5	0	1.03	3.00	3	1,749	1,809		0	0	0	0	1,809	4	1,753	0	0
8:15 - 8:30	1,702	35	0	3	1.04	12.00	8	1,748	1,816		0	0	0	0	1,816	2	1,750	0	0
8:30 - 8:45	1,933	34	0	1	1.02	12.00	0	1,968	2,013		0	0	0	0	2,013	1	1,969	0	0
8:45 - 9:00	1,755	67	4	0	1.04	3.00	3	1,829	1,904		0	0	0	0	1,904	0	1,829	0	0
9:00 - 9:15	1,621	45	2	0	1.03	3.00	2	1,670	1,719		1	0	0	0	1,719	1	1,672	0	0
9:15 - 9:30	1,656	48	1	0	1.03	3.00	0	1,705	1,755		1	0	0	0	1,755	1	1,707	0	0
9:30 - 9:45	1,265	25	1	1	1.03	7.50	5	1,297	1,335		0	0	0	0	1,335	2	1,299	0	0
9:45 - 10:00	816	22	1	1	1.04	7.50	3	843	878		0	0	0	0	878	2	845	0	0

5-Hour Totals

Vehicles	31,590	840	25	19	N/A	N/A	67	32,541	33,653	2	0	0	0	33,653	38	32,581	0	0
Persons	31,590	1,680	88	228			67											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	33,653	22,711	8,056
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	33,653	22,711	8,056
Autos and Motorcycles	32,541	21,889	7,682
Average Auto Occupancy (Includes Motorcycles)	1.03	1.04	1.05

**I-270 Southbound
between I-370 and Shady Grove Road
A.M. Peak Period - Fall 2014
Observed person trips per lane by 15 minute interval**



I-270 Southbound Between I-370 and Shady Grove Road
 All Lanes Total
 Fall 2014 - 18 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	733	1	0	1	1.02	12.00	12	747	759	1	0	0	0	759	0	748	0	0		
5:15 - 5:30	1,147	4	0	4	1.04	12.00	3	1,158	1,206	1	0	16	0	1,222	1	1,160	0	0		
5:30 - 5:45	1,451	3	1	9	1.07	11.10	7	1,471	1,575	2	0	25	0	1,600	0	1,473	0	0		
5:45 - 6:00	1,642	4	0	1	1.01	12.00	6	1,653	1,668	1	0	16	0	1,684	3	1,657	0	0		
6:00 - 6:15	1,702	78	0	4	1.07	12.00	7	1,791	1,913	3	0	46	0	1,959	4	1,798	0	0		
6:15 - 6:30	1,420	372	1	10	1.27	11.18	11	1,814	2,298	3	0	42	0	2,340	7	1,824	0	0		
6:30 - 6:45	1,482	207	1	11	1.19	11.25	5	1,706	2,036	2	1	33	41	2,110	9	1,718	0	0		
6:45 - 7:00	1,712	244	2	4	1.15	9.00	3	1,965	2,257	2	2	38	82	2,377	7	1,976	0	0		
7:00 - 7:15	1,633	303	6	5	1.19	7.18	4	1,951	2,322	3	1	51	41	2,414	6	1,961	0	0		
7:15 - 7:30	1,557	179	1	2	1.12	9.00	3	1,742	1,945	2	2	31	82	2,058	4	1,750	0	0		
7:30 - 7:45	1,576	202	4	1	1.12	5.00	10	1,793	2,015	3	1	52	41	2,108	0	1,797	0	0		
7:45 - 8:00	1,447	275	4	1	1.17	5.20	6	1,733	2,029	2	2	29	82	2,140	3	1,740	0	0		
8:00 - 8:15	1,422	309	2	1	1.19	6.00	5	1,739	2,063	2	1	16	41	2,120	4	1,746	0	0		
8:15 - 8:30	1,405	395	1	0	1.22	3.00	2	1,803	2,200	3	0	35	0	2,235	2	1,808	0	0		
8:30 - 8:45	1,434	274	0	1	1.17	12.00	2	1,711	1,996	1	0	16	0	2,012	5	1,717	0	0		
8:45 - 9:00	1,723	157	1	5	1.11	10.50	9	1,895	2,109	1	0	16	0	2,125	4	1,900	0	0		
9:00 - 9:15	1,715	129	2	3	1.09	8.60	8	1,857	2,024	0	0	0	0	2,024	7	1,864	0	0		
9:15 - 9:30	1,504	117	0	7	1.12	12.00	7	1,635	1,829	0	0	0	0	1,829	5	1,640	0	0		
9:30 - 9:45	1,242	133	1	4	1.13	10.20	7	1,387	1,566	0	0	0	0	1,566	5	1,392	0	0		
9:45 - 10:00	1,090	101	0	4	1.12	12.00	4	1,199	1,344	0	0	0	0	1,344	5	1,204	0	0		

5-Hour Totals

Vehicles	29,037	3,487	27	78	N/A	N/A	121	32,750	37,154	32	10	462	410	38,026	81	32,873	0	0
Persons	29,037	6,974	86	936			121											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	38,026	25,998	8,957
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	37,154	25,183	8,539
Autos and Motorcycles	32,750	21,643	7,451
Average Auto Occupancy (Includes Motorcycles)	1.13	1.16	1.15

I-270 Southbound Between I-370 and Shady Grove Road
 HOV Lane Total
 Fall 2014 - 18 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	252	1	0	1	1.05	12.00	5	259	271	0	0	0	0	271	0	259	0	0	0	
5:15 - 5:30	325	0	0	2	1.07	12.00	1	328	350	1	0	16	0	366	0	329	0	0	0	
5:30 - 5:45	305	0	0	4	1.14	12.00	1	310	354	2	0	25	0	379	0	312	0	0	0	
5:45 - 6:00	336	0	0	0	1.00	0.00	1	337	337	1	0	16	0	353	2	340	0	0	0	
6:00 - 6:15	272	74	0	2	1.27	12.00	6	354	450	3	0	46	0	496	1	358	0	0	0	
6:15 - 6:30	10	356	1	4	2.06	10.20	7	378	780	3	0	42	0	822	0	381	0	0	0	
6:30 - 6:45	17	181	0	7	2.23	12.00	4	209	467	2	1	33	41	541	1	213	0	0	0	
6:45 - 7:00	76	210	1	3	1.84	9.75	1	291	536	2	2	38	82	656	2	297	0	0	0	
7:00 - 7:15	105	237	3	1	1.73	5.25	4	350	604	3	1	51	41	696	0	354	0	0	0	
7:15 - 7:30	172	116	0	1	1.44	12.00	2	291	418	2	2	31	82	531	1	296	0	0	0	
7:30 - 7:45	184	117	1	0	1.39	3.00	5	307	426	3	1	52	41	519	0	311	0	0	0	
7:45 - 8:00	72	182	3	1	1.76	5.50	5	263	463	2	2	29	82	574	2	269	0	0	0	
8:00 - 8:15	15	205	2	0	1.92	3.00	5	227	436	1	1	16	41	493	2	231	0	0	0	
8:15 - 8:30	1	249	0	0	2.00	0.00	0	250	499	3	0	35	0	534	1	254	0	0	0	
8:30 - 8:45	51	188	0	0	1.78	0.00	2	241	429	1	0	16	0	445	2	244	0	0	0	
8:45 - 9:00	148	99	0	0	1.39	0.00	6	253	352	1	0	16	0	368	0	254	0	0	0	
9:00 - 9:15	315	60	0	0	1.16	0.00	3	378	438	0	0	0	0	438	3	381	0	0	0	
9:15 - 9:30	250	40	0	1	1.17	12.00	2	293	344	0	0	0	0	344	2	295	0	0	0	
9:30 - 9:45	173	36	0	2	1.27	12.00	3	214	272	0	0	0	0	272	1	215	0	0	0	
9:45 - 10:00	116	26	0	0	1.18	0.00	1	143	169	0	0	0	0	169	0	143	0	0	0	

5-Hour Totals

Vehicles	3,195	2,377	11	29	N/A	N/A	64	5,676	8,395	30	10	462	410	9,267	20	5,736	0	0
Persons	3,195	4,754	34	348			64											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
5 Hours	(6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	9,267	6,675	2,402
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	8,395	5,860	1,984
Autos and Motorcycles	5,676	3,414	1,239
Average Auto Occupancy (Includes Motorcycles)	1.48	1.72	1.60

I-270 Southbound Between I-370 and Shady Grove Road
 Non-HOV Lane Total
 Fall 2014 - 18 September 2014

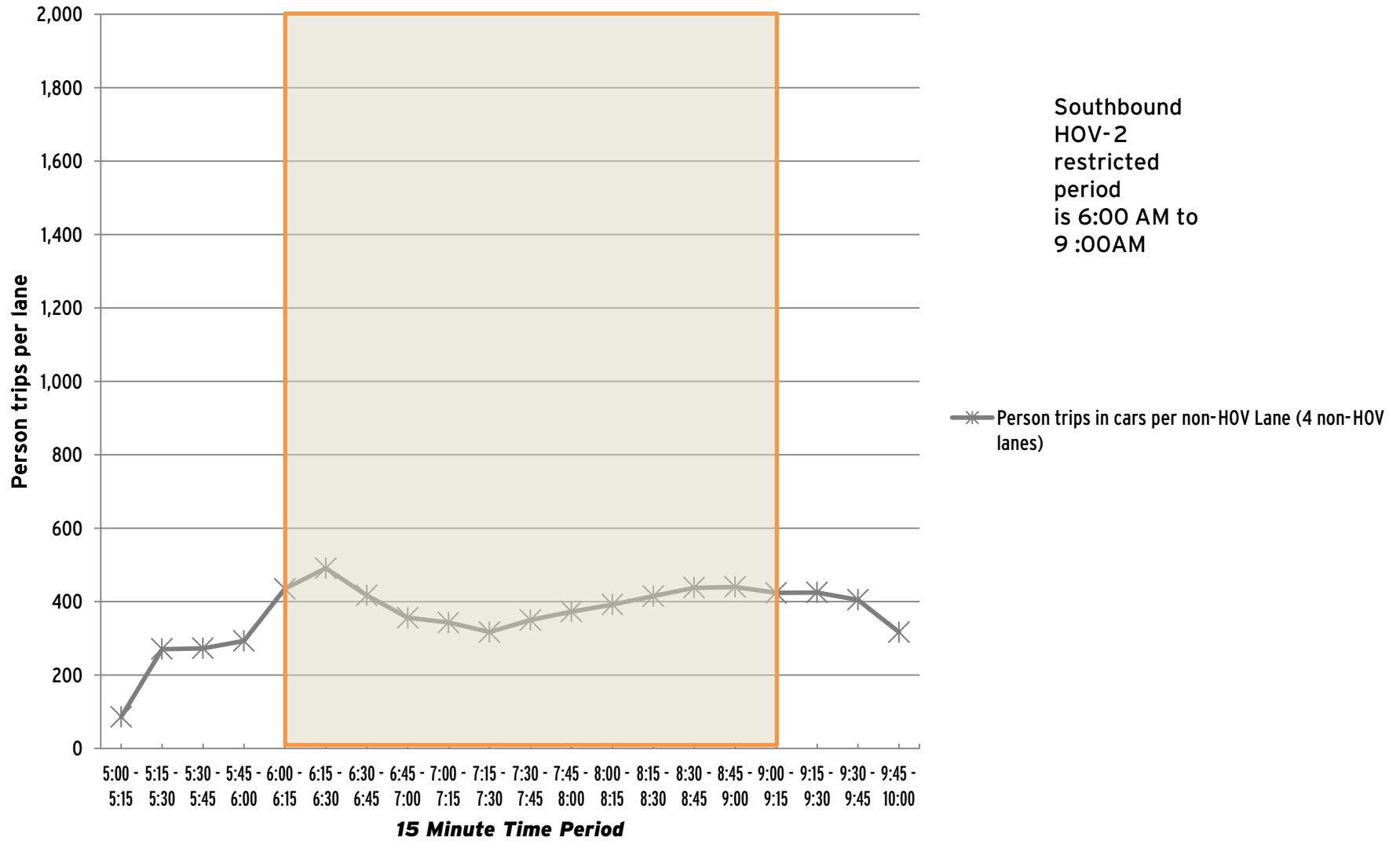
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	+ Bus Passengers				
5:00 - 5:15	481	0	0	0	1.00	0.00			488		1	0	0	0	488	0	489	0	0	
5:15 - 5:30	822	4	0	2	1.03	12.00	2	830	856		0	0	0	0	856	1	831	0	0	
5:30 - 5:45	1,146	3	1	5	1.05	10.50	6	1,161	1,221		0	0	0	0	1,221	0	1,161	0	0	
5:45 - 6:00	1,306	4	0	1	1.01	12.00	5	1,316	1,331		0	0	0	0	1,331	1	1,317	0	0	
6:00 - 6:15	1,430	4	0	2	1.02	12.00	1	1,437	1,463		0	0	0	0	1,463	3	1,440	0	0	
6:15 - 6:30	1,410	16	0	6	1.06	12.00	4	1,436	1,518		0	0	0	0	1,518	7	1,443	0	0	
6:30 - 6:45	1,465	26	1	4	1.05	10.20	1	1,497	1,569		0	0	0	0	1,569	8	1,505	0	0	
6:45 - 7:00	1,636	34	1	1	1.03	7.50	2	1,674	1,721		0	0	0	0	1,721	5	1,679	0	0	
7:00 - 7:15	1,528	66	3	4	1.07	8.29	0	1,601	1,718		0	0	0	0	1,718	6	1,607	0	0	
7:15 - 7:30	1,385	63	1	1	1.05	7.50	1	1,451	1,527		0	0	0	0	1,527	3	1,454	0	0	
7:30 - 7:45	1,392	85	3	1	1.07	5.50	5	1,486	1,589		0	0	0	0	1,589	0	1,486	0	0	
7:45 - 8:00	1,375	93	1	0	1.07	4.00	1	1,470	1,566		0	0	0	0	1,566	1	1,471	0	0	
8:00 - 8:15	1,407	104	0	1	1.08	12.00	0	1,512	1,627		1	0	0	0	1,627	2	1,515	0	0	
8:15 - 8:30	1,404	146	1	0	1.10	3.00	2	1,553	1,701		0	0	0	0	1,701	1	1,554	0	0	
8:30 - 8:45	1,383	86	0	1	1.07	12.00	0	1,470	1,567		0	0	0	0	1,567	3	1,473	0	0	
8:45 - 9:00	1,575	58	1	5	1.07	10.50	3	1,642	1,757		0	0	0	0	1,757	4	1,646	0	0	
9:00 - 9:15	1,400	69	2	3	1.07	8.60	5	1,479	1,586		0	0	0	0	1,586	4	1,483	0	0	
9:15 - 9:30	1,254	77	0	6	1.11	12.00	5	1,342	1,485		0	0	0	0	1,485	3	1,345	0	0	
9:30 - 9:45	1,069	97	1	2	1.10	9.00	4	1,173	1,294		0	0	0	0	1,294	4	1,177	0	0	
9:45 - 10:00	974	75	0	4	1.11	12.00	3	1,056	1,175		0	0	0	0	1,175	5	1,061	0	0	

5-Hour Totals

Vehicles	25,842	1,110	16	49	N/A	N/A	57	27,074	28,759	2	0	0	0	28,759	61	27,137	0	0
Persons	25,842	2,220	52	588			57											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:45 AM - 7:45 AM)	(6:45 AM - 7:45 AM)
Highway Passengers	28,759	19,323	6,555
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	28,759	19,323	6,555
Autos and Motorcycles	27,074	18,229	6,212
Average Auto Occupancy (Includes Motorcycles)	1.06	1.06	1.06

**I-270 Southbound
Between Md. 124 (Quince Orchard Road) and Md. 117 (Clopper Road)
Spring 2014
Observed person trips per lane by 15 minute interval**



I-270 Southbound between Md. 124 (Quince Orchard Road) and Md. 117 (Clopper Road)

All Lanes Total

Fall 2014 - 14 September 2014

HOV restriction begins about 1 mile south of this location

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	232	35	1	3	1.26	9.75	3	274	344	2	0	21	76	441	0	276	0	0		
5:15 - 5:30	915	63	0	3	1.10	12.00	6	987	1,083	2	2	0	152	1,235	3	994	0	0		
5:30 - 5:45	967	18	0	7	1.10	12.00	4	996	1,091	4	1	21	190	1,302	3	1,004	0	0		
5:45 - 6:00	1,110	5	0	4	1.04	12.00	4	1,123	1,172	2	2	21	152	1,345	3	1,130	0	0		
6:00 - 6:15	1,653	28	0	2	1.03	12.00	6	1,689	1,739	5	1	21	228	1,988	4	1,699	0	0		
6:15 - 6:30	1,832	48	0	2	1.04	12.00	10	1,892	1,962	4	2	21	228	2,211	4	1,902	0	0		
6:30 - 6:45	1,548	21	0	6	1.06	12.00	6	1,581	1,668	5	1	21	228	1,917	3	1,590	0	0		
6:45 - 7:00	1,208	84	2	3	1.09	8.40	4	1,301	1,422	5	2	21	266	1,709	0	1,308	0	0		
7:00 - 7:15	1,081	134	1	1	1.12	7.50	6	1,223	1,370	6	1	21	266	1,657	1	1,231	0	0		
7:15 - 7:30	1,041	112	1	0	1.10	3.00	0	1,154	1,268	6	0	21	190	1,479	2	1,162	0	0		
7:30 - 7:45	1,173	101	2	1	1.09	6.00	7	1,284	1,400	8	2	21	304	1,725	2	1,296	0	0		
7:45 - 8:00	1,285	92	2	1	1.08	6.33	3	1,383	1,491	5	1	21	228	1,740	0	1,389	0	0		
8:00 - 8:15	1,312	101	5	3	1.10	6.50	1	1,422	1,567	4	0	21	152	1,740	5	1,431	0	0		
8:15 - 8:30	1,418	115	3	0	1.08	3.00	4	1,540	1,661	7	1	21	266	1,948	6	1,554	0	0		
8:30 - 8:45	1,537	100	3	0	1.07	3.33	5	1,645	1,752	3	0	21	114	1,887	1	1,649	0	0		
8:45 - 9:00	1,559	79	1	3	1.07	9.75	3	1,645	1,759	2	0	0	76	1,835	4	1,652	0	0		
9:00 - 9:15	1,528	64	0	3	1.06	12.00	2	1,597	1,694	2	0	21	38	1,753	3	1,602	0	0		
9:15 - 9:30	1,523	71	2	2	1.06	7.50	3	1,601	1,698	1	0	21	38	1,757	7	1,609	0	0		
9:30 - 9:45	1,439	88	0	0	1.06	0.00	6	1,533	1,621	1	0	0	38	1,659	11	1,545	0	0		
9:45 - 10:00	1,045	107	2	0	1.10	3.00	1	1,155	1,266	1	0	0	38	1,304	1	1,157	0	0		

5-Hour Totals

Vehicles	25,406	1,466	25	44	N/A	N/A	84	27,025	29,028	75	16	336	3,268	32,632	63	27,180	0	0
Persons	25,406	2,932	78	528			84											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:00 AM - 7:00 AM)	(8:30 AM - 9:30 AM)
Highway Passengers	32,632	21,836	7,232
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	29,028	19,059	6,903
Autos and Motorcycles	27,025	17,759	6,488
Average Auto Occupancy (Includes Motorcycles)	1.07	1.07	1.05

I-270 Southbound between Md. 124 (Quince Orchard Road) and Md. 117 (Clopper Road)

HOV Lane Total

Fall 2014 - 14 September 2014

A.M. HOV restriction begins about 1 mile south of this location

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	112	0	0	2	1.19	12.00	2	116	138	1	2	21	76	235	0	118	0	0	
5:15 - 5:30	347	0	0	2	1.06	12.00	2	351	373	0	4	0	152	525	0	355	0	0	
5:30 - 5:45	338	0	0	3	1.10	12.00	4	345	378	1	5	21	190	589	0	350	0	0	
5:45 - 6:00	449	0	0	1	1.02	12.00	2	452	463	1	4	21	152	636	0	456	0	0	
6:00 - 6:15	445	0	0	0	1.00	0.00	4	449	449	1	6	21	228	698	0	455	0	0	
6:15 - 6:30	455	0	0	0	1.00	0.00	8	463	463	1	6	21	228	712	0	469	0	0	
6:30 - 6:45	407	2	0	0	1.00	0.00	5	414	416	1	6	21	228	665	0	420	0	0	
6:45 - 7:00	339	68	0	0	1.17	0.00	4	411	479	1	7	21	266	766	0	418	0	0	
7:00 - 7:15	276	108	1	0	1.28	3.00	5	390	500	1	7	21	266	787	0	397	0	0	
7:15 - 7:30	245	63	0	0	1.20	0.00	0	308	371	1	5	21	190	582	0	313	0	0	
7:30 - 7:45	240	67	1	1	1.26	7.50	3	312	392	1	8	21	304	717	0	320	0	0	
7:45 - 8:00	227	54	0	1	1.23	12.00	1	283	348	1	6	21	228	597	0	289	0	0	
8:00 - 8:15	283	46	3	1	1.19	5.50	1	334	398	1	4	21	152	571	1	339	0	0	
8:15 - 8:30	327	34	0	0	1.09	0.00	2	363	397	1	7	21	266	684	2	372	0	0	
8:30 - 8:45	336	39	1	0	1.11	3.00	3	379	420	1	3	21	114	555	0	382	0	0	
8:45 - 9:00	366	27	0	0	1.07	0.00	3	396	423	0	2	0	76	499	0	399	0	0	
9:00 - 9:15	379	31	0	0	1.08	0.00	2	412	443	1	1	21	38	502	0	413	0	0	
9:15 - 9:30	397	37	0	0	1.08	0.00	2	436	473	1	1	21	38	532	2	439	0	0	
9:30 - 9:45	380	44	0	0	1.10	0.00	4	428	472	0	1	0	38	510	3	432	0	0	
9:45 - 10:00	306	33	0	0	1.10	0.00	1	340	373	0	1	0	38	411	0	341	0	0	

5-Hour Totals

Vehicles	6,654	653	6	11	N/A	N/A	58	7,382	8,169	16	86	336	3,268	11,773	8	7,477	0	0
Persons	6,654	1,306	19	132			58											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:00 AM - 7:00 AM)	(8:30 AM - 9:30 AM)
Highway Passengers	11,773	7,833	2,088
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	8,169	5,056	1,807
Autos and Motorcycles	7,382	4,502	1,728
Average Auto Occupancy (Includes Motorcycles)	1.11	1.12	1.05

I-270 Southbound between Md. 124 (Quince Orchard Road) and Md. 117 (Clopper Road)

Non-HOV Lane Total

Fall 2014 - 14 September 2014

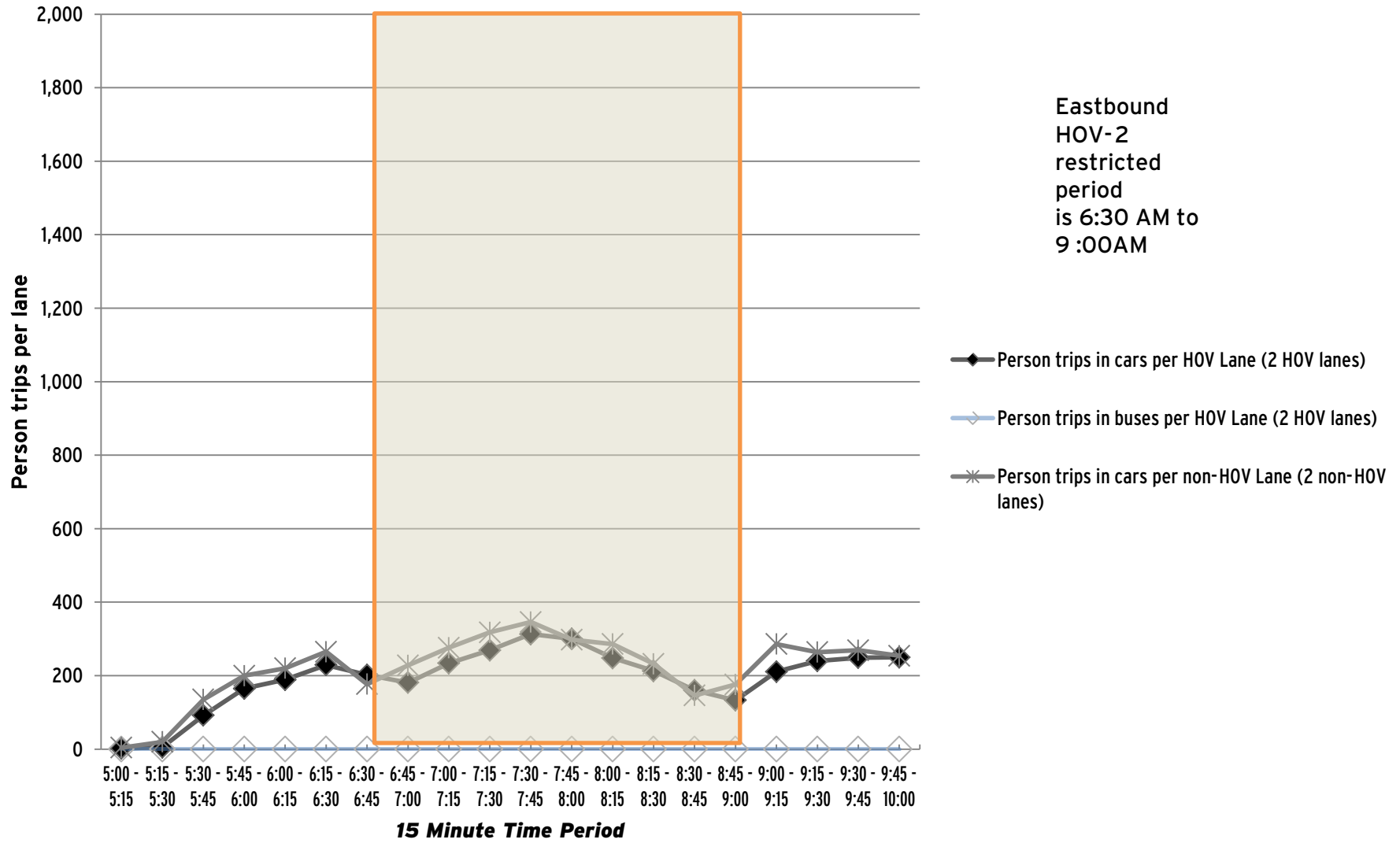
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders			Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	120	35	1	1	1.30	7.50	1	158	206	0	0	0	0	0	0	0	158	0	0
5:15 - 5:30	568	63	0	1	1.12	12.00	4	636	710	0	0	0	0	710	3	639	0	0	
5:30 - 5:45	629	18	0	4	1.10	12.00	0	651	713	0	0	0	0	713	3	654	0	0	
5:45 - 6:00	661	5	0	3	1.06	12.00	2	671	709	0	0	0	0	709	3	674	0	0	
6:00 - 6:15	1,208	28	0	2	1.04	12.00	2	1,240	1,290	0	0	0	0	1,290	4	1,244	0	0	
6:15 - 6:30	1,377	48	0	2	1.05	12.00	2	1,429	1,499	0	0	0	0	1,499	4	1,433	0	0	
6:30 - 6:45	1,141	19	0	6	1.07	12.00	1	1,167	1,252	0	0	0	0	1,252	3	1,170	0	0	
6:45 - 7:00	869	16	2	3	1.06	8.40	0	890	943	0	0	0	0	943	0	890	0	0	
7:00 - 7:15	805	26	0	1	1.04	12.00	1	833	870	0	0	0	0	870	1	834	0	0	
7:15 - 7:30	796	49	1	0	1.06	3.00	0	846	897	1	0	0	0	897	2	849	0	0	
7:30 - 7:45	933	34	1	0	1.04	3.00	4	972	1,008	2	0	0	0	1,008	2	976	0	0	
7:45 - 8:00	1,058	38	2	0	1.04	3.50	2	1,100	1,143	0	0	0	0	1,143	0	1,100	0	0	
8:00 - 8:15	1,029	55	2	2	1.07	7.50	0	1,088	1,169	0	0	0	0	1,169	4	1,092	0	0	
8:15 - 8:30	1,091	81	3	0	1.07	3.00	2	1,177	1,264	1	0	0	0	1,264	4	1,182	0	0	
8:30 - 8:45	1,201	61	2	0	1.05	3.50	2	1,266	1,332	0	0	0	0	1,332	1	1,267	0	0	
8:45 - 9:00	1,193	52	1	3	1.07	9.75	0	1,249	1,336	0	0	0	0	1,336	4	1,253	0	0	
9:00 - 9:15	1,149	33	0	3	1.06	12.00	0	1,185	1,251	1	0	0	0	1,251	3	1,189	0	0	
9:15 - 9:30	1,126	34	2	2	1.05	7.50	1	1,165	1,225	0	0	0	0	1,225	5	1,170	0	0	
9:30 - 9:45	1,059	44	0	0	1.04	0.00	2	1,105	1,149	0	0	0	0	1,149	8	1,113	0	0	
9:45 - 10:00	739	74	2	0	1.10	3.00	0	815	893	0	0	0	0	893	1	816	0	0	

5-Hour Totals

Vehicles	18,752	813	19	33	N/A	N/A	26	19,643	20,859	5	0	0	0	20,859	55	19,703	0	0
Persons	18,752	1,626	59	396			26											

	I-270 HOV Restricted Period	Peak Hour in HOV restricted period	Peak Hour in monitoring period
	5 Hours (6:00 AM - 9:00 AM)	(6:00 AM - 7:00 AM)	(8:30 AM - 9:30 AM)
Highway Passengers	20,859	14,003	4,984
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	20,859	14,003	4,984
Autos and Motorcycles	19,643	13,257	4,726
Average Auto Occupancy	1.06	1.06	1.05

**Va. 267 (Dulles Connector Road) Eastbound
Spring 2014
Between Va. 123 (Dolley Madison Boulevard) and I-66
Observed person trips per lane by 15 minute interval**



Va. 267 eastbound at Va. 123 (Dolley Madison Blvd)

All Lanes Total

Spring 2014 - 4 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Total Vehicles	Rail Metro	Comm.
									+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	Trucks				
5:00 - 5:15	3	0	3	0	2.00	3.00	0	6	12	1	1	28	0	40	2	10	0	0	
5:15 - 5:30	20	0	8	0	1.66	3.38	1	29	48	4	1	126	41	215	0	30	0	0	
5:30 - 5:45	367	19	3	2	1.14	8.00	7	398	452	2	1	68	0	520	1	401	0	0	
5:45 - 6:00	533	28	8	8	1.26	8.63	2	579	729	3	2	96	82	907	2	581	0	0	
6:00 - 6:15	695	49	6	0	1.09	3.67	2	752	817	4	0	129	0	946	3	757	0	0	
6:15 - 6:30	697	123	5	2	1.19	5.71	5	832	988	10	5	284	205	1,477	5	841	0	0	
6:30 - 6:45	353	142	19	4	1.44	4.87	7	525	756	7	1	214	0	970	2	529	0	0	
6:45 - 7:00	312	211	13	2	1.48	4.47	15	553	816	10	6	302	246	1,364	6	563	0	0	
7:00 - 7:15	264	310	29	3	1.65	3.84	11	617	1,018	8	0	240	0	1,258	6	625	0	0	
7:15 - 7:30	202	426	32	1	1.75	3.36	8	669	1,173	11	15	311	615	2,099	5	680	0	0	
7:30 - 7:45	197	528	17	0	1.75	3.00	12	754	1,316	6	1	196	0	1,512	9	765	0	0	
7:45 - 8:00	196	421	34	4	1.81	3.95	7	662	1,195	9	7	255	287	1,737	4	669	0	0	
8:00 - 8:15	249	354	21	3	1.68	4.25	8	635	1,067	9	14	265	0	1,332	21	672	0	0	
8:15 - 8:30	234	292	15	1	1.61	3.81	9	551	888	10	11	302	451	1,641	13	573	0	0	
8:30 - 8:45	243	166	9	0	1.44	3.33	6	424	611	6	6	176	0	787	9	440	0	0	
8:45 - 9:00	277	143	13	0	1.39	3.31	11	444	617	9	6	276	246	1,139	9	457	0	0	
9:00 - 9:15	624	149	13	2	1.25	4.33	6	794	993	5	3	141	0	1,134	5	804	0	0	
9:15 - 9:30	750	122	2	0	1.14	3.00	7	881	1,007	3	1	96	41	1,144	5	888	0	0	
9:30 - 9:45	715	138	4	2	1.20	6.50	4	863	1,034	4	0	133	0	1,167	2	869	0	0	
9:45 - 10:00	628	168	6	2	1.25	5.25	1	805	1,007	4	1	113	41	1,161	7	816	0	0	

5-Hour Totals

Vehicles	7,559	3,789	260	36	N/A	N/A	129	11,773	16,544	125	82	3,751	2,255	22,550	116	11,970	0	0
Persons	7,559	7,578	846	432			129											

I-66 HOV Restricted

	5 Hours	Period (6:30 AM - 9:00 AM)	Peak Hour (9:00AM - 10:00 AM)
Highway Passengers	22,550	13,839	4,606
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	16,544	9,457	4,041
Autos and Motorcycles	11,773	5,834	3,343
Average Auto Occupancy (Includes Motorcycles)	1.41	1.62	1.21

Va. 267 eastbound at Va. 123 (Dolley Madison Blvd)
 HOV Lane Total
 Spring 2014 - 4 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	1	0	1	0	2.00	3.00	0	2	4	0	0	0	0	4	2	4	0	0		
5:15 - 5:30	0	0	3	0	3.00	3.00	0	3	9	0	0	0	0	9	0	3	0	0		
5:30 - 5:45	143	7	2	1	1.17	7.67	3	156	183	0	0	0	0	183	1	157	0	0		
5:45 - 6:00	240	9	4	4	1.27	8.63	2	259	329	0	0	0	0	329	2	261	0	0		
6:00 - 6:15	326	23	1	0	1.08	5.00	1	351	378	0	0	0	0	378	1	352	0	0		
6:15 - 6:30	345	51	3	0	1.14	3.00	2	401	458	0	0	0	0	458	4	405	0	0		
6:30 - 6:45	192	71	9	3	1.45	5.50	3	278	403	0	0	0	0	403	1	279	0	0		
6:45 - 7:00	149	84	7	1	1.45	4.50	8	249	361	0	0	0	0	361	5	254	0	0		
7:00 - 7:15	144	141	8	1	1.56	4.00	5	299	467	0	0	0	0	467	1	300	0	0		
7:15 - 7:30	80	193	18	1	1.81	3.53	4	296	537	0	0	0	0	537	4	300	0	0		
7:30 - 7:45	97	249	8	0	1.74	3.00	6	360	625	0	0	0	0	625	3	363	0	0		
7:45 - 8:00	96	214	16	2	1.81	4.00	4	332	600	0	0	0	0	600	1	333	0	0		
8:00 - 8:15	111	168	11	1	1.69	3.83	3	294	496	0	0	0	0	496	10	304	0	0		
8:15 - 8:30	106	138	8	1	1.65	4.22	5	258	425	0	0	0	0	425	12	270	0	0		
8:30 - 8:45	128	88	4	0	1.44	3.25	2	222	319	0	0	0	0	319	4	226	0	0		
8:45 - 9:00	110	66	6	0	1.43	3.33	4	186	266	0	0	0	0	266	8	194	0	0		
9:00 - 9:15	265	62	5	1	1.25	4.67	4	337	421	0	0	0	0	421	3	340	0	0		
9:15 - 9:30	350	60	2	0	1.15	3.00	3	415	479	0	0	0	0	479	0	415	0	0		
9:30 - 9:45	337	71	1	1	1.21	8.00	2	412	497	0	0	0	0	497	1	413	0	0		
9:45 - 10:00	319	79	3	1	1.24	5.25	1	403	499	0	0	0	0	499	5	408	0	0		

5-Hour Totals

Vehicles	3,539	1,774	120	18	N/A	N/A	62	5,513	7,756	0	0	0	0	7,756	68	5,581	0	0
Persons	3,539	3,548	391	216			62											

I-66 HOV Restricted

	Period		Peak Hour
	5 Hours (6:30 AM - 9:00 AM)	9:00 AM - 10:00 AM)	(9:00AM - 10:00 AM)
Highway Passengers	7,756	4,499	1,896
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	7,756	4,499	1,896
Autos and Motorcycles	5,513	2,774	1,567
Average Auto Occupancy (Includes Motorcycles)	1.41	1.62	1.21

Va. 267 eastbound at Va. 123 (Dolley Madison Blvd)

Non-HOV Lane Total
Spring 2014 - 4 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	2	0	2	0	2.00	3.00			8		0	1	0	0	8	0	6	0	0
5:15 - 5:30	20	0	5	0	1.50	3.60	1	26	39		0	1	0	0	39	0	27	0	0
5:30 - 5:45	224	12	1	1	1.11	8.50	4	242	269		0	1	0	0	269	0	244	0	0
5:45 - 6:00	293	19	4	4	1.25	8.63	0	320	400		0	0	0	0	400	0	320	0	0
6:00 - 6:15	369	26	5	0	1.09	3.40	1	401	439		0	0	0	0	439	2	405	0	0
6:15 - 6:30	352	72	2	2	1.23	7.75	3	431	530		0	3	0	0	530	1	436	0	0
6:30 - 6:45	161	71	10	1	1.43	4.18	4	247	353		1	1	0	0	353	1	250	0	0
6:45 - 7:00	163	127	6	1	1.50	4.43	7	304	455		0	4	0	0	455	1	309	0	0
7:00 - 7:15	120	169	21	2	1.73	3.78	6	318	551		0	0	0	0	551	5	325	0	0
7:15 - 7:30	122	233	14	0	1.71	3.14	4	373	636		1	5	0	0	636	1	380	0	0
7:30 - 7:45	100	279	9	0	1.75	3.00	6	394	691		1	1	0	0	691	6	402	0	0
7:45 - 8:00	100	207	18	2	1.80	3.90	3	330	595		2	1	0	0	595	3	336	0	0
8:00 - 8:15	138	186	10	2	1.67	4.67	5	341	571		2	14	0	0	571	11	368	0	0
8:15 - 8:30	128	154	7	0	1.58	3.29	4	293	463		0	9	0	0	463	1	303	0	0
8:30 - 8:45	115	78	5	0	1.45	3.40	4	202	292		0	6	0	0	292	5	214	0	0
8:45 - 9:00	167	77	7	0	1.36	3.29	7	258	351		0	4	0	0	351	1	263	0	0
9:00 - 9:15	359	87	8	1	1.25	4.11	2	457	572		2	3	0	0	572	2	464	0	0
9:15 - 9:30	400	62	0	0	1.13	0.00	4	466	528		1	1	0	0	528	5	473	0	0
9:30 - 9:45	378	67	3	1	1.19	5.75	2	451	537		3	0	0	0	537	1	456	0	0
9:45 - 10:00	309	89	3	1	1.26	5.25	0	402	508		0	2	0	0	508	2	408	0	0

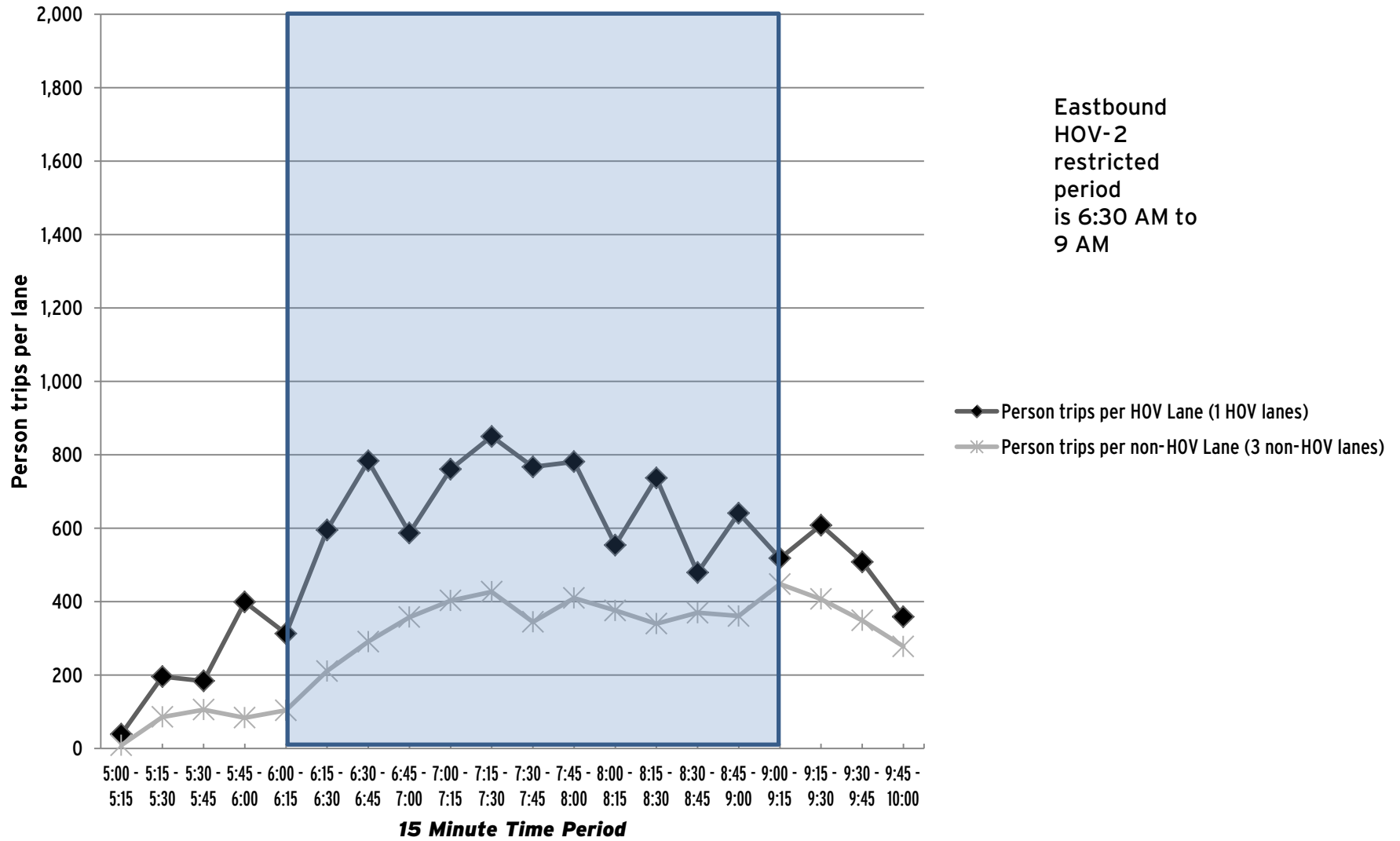
5-Hour Totals

Vehicles	4,020	2,015	140	18	N/A	N/A	67	6,260	8,788	13	57	0	0	8,788	48	6,389	0	0
Persons	4,020	4,030	455	216			67											

I-66 HOV Restricted

	Period 5 Hours (6:30 AM - 9:00 AM)	Peak Hour (9:00AM - 10:00 AM)
Highway Passengers	8,788	4,958
Rail Passengers	0	0
Auto and Motorcycle Passengers	8,788	4,958
Autos and Motorcycles	6,260	3,060
Average Auto Occupancy (Includes Motorcycles)	1.40	1.62

**Va. 267 (Dulles Toll Road) Eastbound
between Trap Road and Va. 7 (Leesburg Pike)
A.M. Peak Period - Fall 2014
Observed person trips per lane by 15 minute interval**



Va. 267 eastbound between Trap Road and Va. 7 (Leesburg Pike)

All Lanes Total

Fall 2014 - 29 October 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	64	1	0	0	1.02	0.00	0	65	66	0	0	0	0	66	0	66	0	0	0	
5:15 - 5:30	266	51	0	0	1.16	0.00	0	317	368	1	2	0	86	454	0	323	0	0	0	
5:30 - 5:45	327	28	9	0	1.14	3.56	0	364	415	1	2	0	86	501	2	369	0	0	0	
5:45 - 6:00	409	0	0	0	1.00	0.00	2	411	411	1	5	25	215	651	1	417	0	0	0	
6:00 - 6:15	539	0	0	0	1.00	0.00	1	540	540	0	2	0	86	626	0	544	0	0	0	
6:15 - 6:30	968	0	0	0	1.00	0.00	2	970	970	0	6	0	258	1,228	1	986	0	0	0	
6:30 - 6:45	1,064	140	1	4	1.15	10.20	0	1,209	1,395	1	5	45	215	1,655	0	1,216	0	0	0	
6:45 - 7:00	1,132	122	1	2	1.12	9.00	0	1,257	1,403	0	6	0	258	1,661	2	1,275	0	0	0	
7:00 - 7:15	1,327	177	2	0	1.12	5.00	0	1,506	1,691	2	5	64	215	1,970	5	1,519	0	0	0	
7:15 - 7:30	1,365	267	6	3	1.19	6.00	5	1,646	1,958	1	4	0	172	2,130	5	1,678	0	0	0	
7:30 - 7:45	1,176	170	3	1	1.14	5.50	5	1,355	1,543	1	5	45	215	1,803	20	1,381	0	0	0	
7:45 - 8:00	1,322	224	7	0	1.15	3.00	4	1,557	1,795	0	5	0	215	2,010	25	1,598	0	0	0	
8:00 - 8:15	1,247	169	3	0	1.12	3.00	3	1,422	1,597	1	1	43	43	1,683	23	1,454	0	0	0	
8:15 - 8:30	1,089	188	10	0	1.16	3.00	4	1,291	1,499	0	6	0	258	1,757	25	1,337	0	0	0	
8:30 - 8:45	1,208	177	8	0	1.14	3.00	4	1,397	1,590	0	0	0	0	1,590	14	1,420	0	0	0	
8:45 - 9:00	1,199	219	7	0	1.16	3.00	4	1,429	1,662	2	1	20	43	1,725	16	1,460	0	0	0	
9:00 - 9:15	1,686	62	3	0	1.04	3.00	1	1,752	1,820	0	1	0	43	1,863	12	1,774	0	0	0	
9:15 - 9:30	1,549	67	1	1	1.05	7.50	3	1,621	1,701	0	3	0	129	1,830	13	1,637	0	0	0	
9:30 - 9:45	1,227	119	2	1	1.10	6.00	1	1,350	1,484	1	1	28	43	1,555	12	1,368	0	0	0	
9:45 - 10:00	1,073	54	0	1	1.06	12.00	0	1,128	1,193	0	0	0	0	1,193	3	1,135	0	0	0	

5-Hour Totals

Vehicles	20,237	2,235	63	13	N/A	N/A	39	22,587	25,101	12	60	270	2,580	27,951	179	22,957	0	0	0
Persons	20,237	4,470	199	156			39												

	Va. 267 HOV Restricted Period	Peak Hour in HOV Period	Peak Hour in monitoring period
5 Hours	(6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(8:30 AM - 9:30 AM)
Highway Passengers	27,951	17,984	7,913
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	25,101	16,133	6,987
Autos and Motorcycles	22,587	14,069	6,064
Average Auto Occupancy (Includes Motorcycles)	1.11	1.15	1.15

Va. 267 eastbound between Trap Road and Va. 7 (Leesburg Pike)

HOV Lane Total

Fall 2014 - 29 October 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ Bus Passengers			Transit	Other						
5:00 - 5:15	37	1	0	0	1.03	0.00	0	38	39	0	0	0	0	39	0	39	0	0	0	
5:15 - 5:30	102	4	0	0	1.04	0.00	0	106	110	0	2	0	86	196	0	111	0	0	0	
5:30 - 5:45	78	3	4	0	1.15	3.50	0	85	98	0	2	0	86	184	0	87	0	0	0	
5:45 - 6:00	157	0	0	0	1.00	0.00	2	159	159	1	5	25	215	399	1	165	0	0	0	
6:00 - 6:15	226	0	0	0	1.00	0.00	1	227	227	0	2	0	86	313	0	231	0	0	0	
6:15 - 6:30	335	0	0	0	1.00	0.00	2	337	337	0	6	0	258	595	1	353	0	0	0	
6:30 - 6:45	230	121	1	4	1.47	10.20	0	356	523	1	5	45	215	783	0	363	0	0	0	
6:45 - 7:00	120	91	1	2	1.54	9.00	0	214	329	0	6	0	258	587	1	231	0	0	0	
7:00 - 7:15	126	173	2	0	1.60	5.00	0	301	482	2	5	64	215	761	5	314	0	0	0	
7:15 - 7:30	89	265	6	3	1.84	6.00	5	368	678	0	4	0	172	850	5	399	0	0	0	
7:30 - 7:45	156	168	3	0	1.53	3.33	5	332	507	1	5	45	215	767	20	358	0	0	0	
7:45 - 8:00	137	202	7	0	1.62	3.00	4	350	566	0	5	0	215	781	20	386	0	0	0	
8:00 - 8:15	140	158	3	0	1.54	3.00	3	304	468	1	1	43	43	554	22	335	0	0	0	
8:15 - 8:30	106	170	10	0	1.66	3.00	3	289	479	0	6	0	258	737	22	332	0	0	0	
8:30 - 8:45	123	164	8	0	1.60	3.00	4	299	479	0	0	0	0	479	13	321	0	0	0	
8:45 - 9:00	153	200	7	0	1.59	3.00	4	364	578	1	1	20	43	641	15	393	0	0	0	
9:00 - 9:15	379	43	3	0	1.12	3.00	1	426	475	0	1	0	43	518	12	448	0	0	0	
9:15 - 9:30	376	43	1	1	1.13	7.50	2	423	479	0	3	0	129	608	12	438	0	0	0	
9:30 - 9:45	324	56	0	0	1.15	0.00	1	381	437	1	1	28	43	508	11	398	0	0	0	
9:45 - 10:00	265	47	0	0	1.15	0.00	0	312	359	0	0	0	0	359	3	319	0	0	0	

5-Hour Totals

Vehicles	3,659	1,909	56	10	N/A	N/A	37	5,671	7,809	8	60	270	2,580	10,659	163	6,021	0	0
Persons	3,659	3,818	175	120			37											

	Va. 267 HOV Restricted Period 5 Hours (6:30 AM - 9:00 AM)	Peak Hour in HOV Period (7:00 AM - 8:00 AM)	Peak Hour in monitoring period (8:30 AM - 9:30 AM)
Highway Passengers	10,659	6,940	3,159
Rail Passengers	0	0	0
Auto and Motorcycle Passengers	7,809	5,089	2,233
Autos and Motorcycles	5,671	3,177	1,351
Average Auto Occupancy (Includes Motorcycles)	1.38	1.60	1.65

Va. 267 eastbound between Trap Road and Va. 7 (Leesburg Pike)

Non-HOV Lane Total

Fall 2014 - 29 October 2014

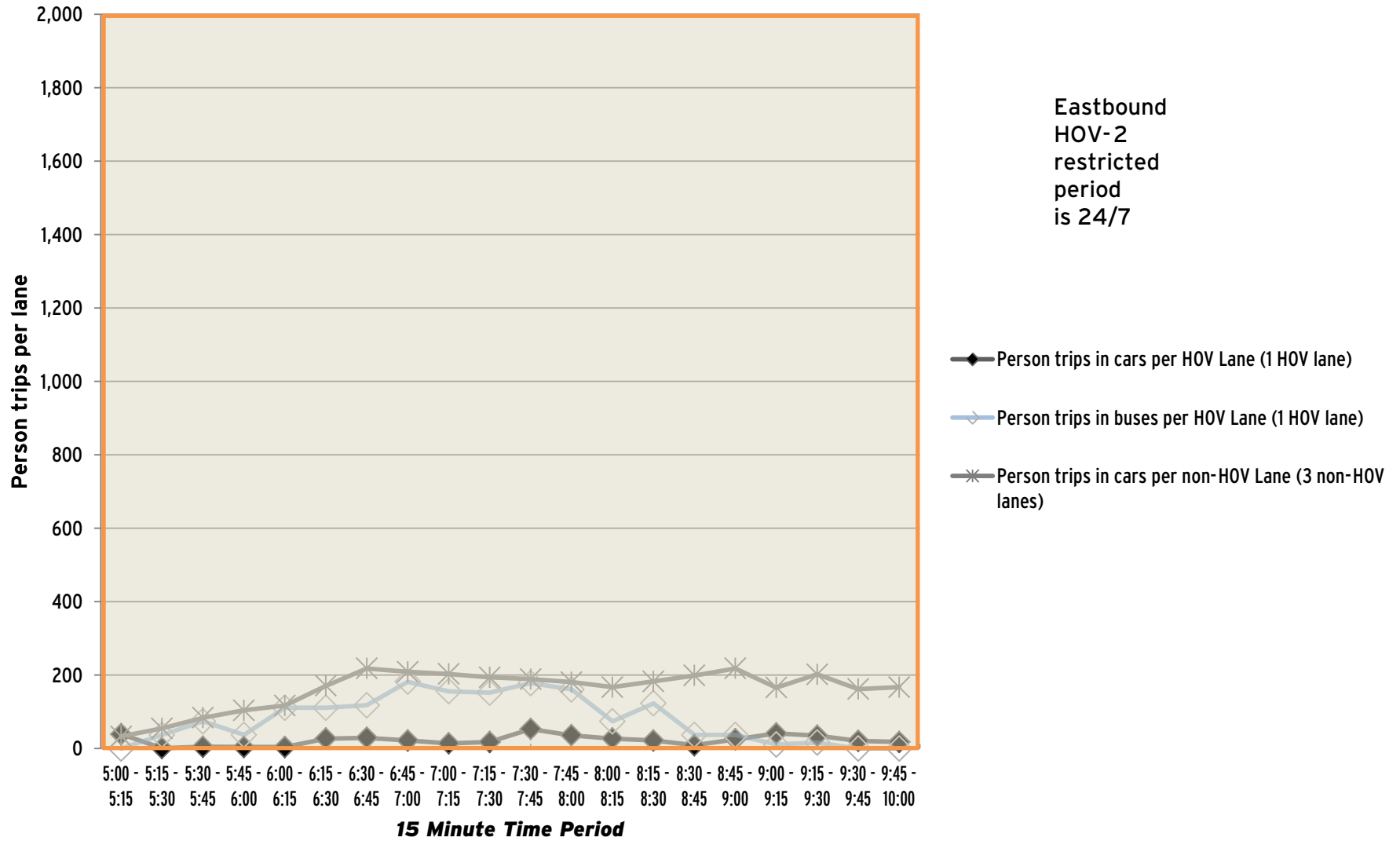
Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	27	0	0	0	1.00	0.00	0	27	27				0	0	27	0	27	0	0
5:15 - 5:30	164	47	0	0	1.22	0.00	0	211	258		1	0	0	0	258	0	212	0	0
5:30 - 5:45	249	25	5	0	1.14	3.60	0	279	317		1	0	0	0	317	2	282	0	0
5:45 - 6:00	252	0	0	0	1.00	0.00	0	252	252		0	0	0	0	252	0	252	0	0
6:00 - 6:15	313	0	0	0	1.00	0.00	0	313	313		0	0	0	0	313	0	313	0	0
6:15 - 6:30	633	0	0	0	1.00	0.00	0	633	633		0	0	0	0	633	0	633	0	0
6:30 - 6:45	834	19	0	0	1.02	0.00	0	853	872		0	0	0	0	872	0	853	0	0
6:45 - 7:00	1,012	31	0	0	1.03	0.00	0	1,043	1,074		0	0	0	0	1,074	1	1,044	0	0
7:00 - 7:15	1,201	4	0	0	1.00	0.00	0	1,205	1,209		0	0	0	0	1,209	0	1,205	0	0
7:15 - 7:30	1,276	2	0	0	1.00	0.00	0	1,278	1,280		1	0	0	0	1,280	0	1,279	0	0
7:30 - 7:45	1,020	2	0	1	1.01	12.00	0	1,023	1,036		0	0	0	0	1,036	0	1,023	0	0
7:45 - 8:00	1,185	22	0	0	1.02	0.00	0	1,207	1,229		0	0	0	0	1,229	5	1,212	0	0
8:00 - 8:15	1,107	11	0	0	1.01	0.00	0	1,118	1,129		0	0	0	0	1,129	1	1,119	0	0
8:15 - 8:30	983	18	0	0	1.02	0.00	1	1,002	1,020		0	0	0	0	1,020	3	1,005	0	0
8:30 - 8:45	1,085	13	0	0	1.01	0.00	0	1,098	1,111		0	0	0	0	1,111	1	1,099	0	0
8:45 - 9:00	1,046	19	0	0	1.02	0.00	0	1,065	1,084		1	0	0	0	1,084	1	1,067	0	0
9:00 - 9:15	1,307	19	0	0	1.01	0.00	0	1,326	1,345		0	0	0	0	1,345	0	1,326	0	0
9:15 - 9:30	1,173	24	0	0	1.02	0.00	1	1,198	1,222		0	0	0	0	1,222	1	1,199	0	0
9:30 - 9:45	903	63	2	1	1.08	6.00	0	969	1,047		0	0	0	0	1,047	1	970	0	0
9:45 - 10:00	808	7	0	1	1.02	12.00	0	816	834		0	0	0	0	834	0	816	0	0

5-Hour Totals

Vehicles	16,578	326	7	3	N/A	N/A	2	16,916	17,292	4	0	0	0	17,292	16	16,936	0	0
Persons	16,578	652	24	36			2											

	Va. 267 HOV Restricted Period		Peak Hour in HOV Period		Peak Hour in monitoring period	
	5 Hours	(6:30 AM - 9:00 AM)	(7:00 AM - 8:00 AM)	(8:30 AM - 9:30 AM)		
Highway Passengers	17,292	11,044	4,754	4,762		
Rail Passengers	0	0	0	0		
Auto and Motorcycle Passengers	17,292	11,044	4,754	4,762		
Autos and Motorcycles	16,916	10,892	4,713	4,687		
Average Auto Occupancy (Includes Motorcycles)	1.02	1.01	1.01	1.02		

**U.S. 50 (John Hanson Highway) Eastbound (OFF-PEAK flow)
Spring 2014
Between Md. 704 (Martin Luther King Highway) and Md. 197 (Collington Road)
Observed person trips per lane by 15 minute interval**



U.S. 50 Eastbound (off-peak-flow) between Md. 704 (M. L. King, Jr. Highway) and Md. 197 (Collington Road)

All Lanes Total

Spring 2014 - 3 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit			Other	+Bus Passengers						
5:00 - 5:15	66	9	16	0	1.53	3.44	0	91	139	0	0	0	0	0	139	0	91	0	0	
5:15 - 5:30	138	8	0	1	1.13	12.00	1	148	167	1	1	0	37	204	1	151	0	0		
5:30 - 5:45	182	35	1	0	1.17	3.00	1	219	256	2	2	0	74	330	1	224	0	0		
5:45 - 6:00	235	33	1	1	1.17	7.50	0	270	316	4	1	0	37	353	1	276	0	0		
6:00 - 6:15	210	53	11	0	1.30	3.55	0	274	355	3	3	0	111	466	1	281	0	0		
6:15 - 6:30	338	66	11	3	1.29	5.00	0	418	540	1	3	0	111	651	0	422	0	0		
6:30 - 6:45	469	92	6	1	1.20	4.29	0	568	683	4	3	7	111	801	1	576	0	0		
6:45 - 7:00	443	95	1	1	1.20	7.50	0	540	648	4	4	34	148	830	1	549	0	0		
7:00 - 7:15	471	59	6	1	1.16	4.86	1	538	624	1	4	8	148	780	0	543	0	0		
7:15 - 7:30	448	71	3	0	1.15	3.00	1	523	600	5	4	4	148	752	2	534	0	0		
7:30 - 7:45	460	64	5	1	1.17	5.17	0	530	619	2	4	30	148	797	6	542	0	0		
7:45 - 8:00	459	55	3	0	1.12	3.33	0	517	579	3	4	13	148	740	4	528	0	0		
8:00 - 8:15	446	38	2	0	1.09	3.00	0	486	528	4	2	0	74	602	0	492	0	0		
8:15 - 8:30	477	42	3	0	1.09	3.00	0	522	570	2	3	12	111	693	0	527	0	0		
8:30 - 8:45	464	63	5	0	1.14	3.20	1	533	607	7	1	0	37	644	6	547	0	0		
8:45 - 9:00	494	69	7	2	1.18	5.11	1	573	679	3	1	0	37	716	7	584	0	0		
9:00 - 9:15	396	60	4	1	1.17	4.80	0	461	540	2	0	11	0	551	4	467	0	0		
9:15 - 9:30	504	60	1	1	1.13	8.00	0	566	640	4	0	16	0	656	0	570	0	0		
9:30 - 9:45	387	57	2	0	1.14	3.00	1	447	508	1	0	0	0	508	2	450	0	0		
9:45 - 10:00	385	65	1	0	1.15	3.00	0	451	518	3	0	0	0	518	3	457	0	0		

5-Hour Totals

Vehicles	7,472	1,094	89	13	N/A	N/A	7	8,675	10,116	56	40	135	1,480	11,731	40	8,811	0	0
Persons	7,472	2,188	293	156			7											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:30 AM - 8:30 AM)
Highway Passengers	11,731	2,832
Rail Passengers	0	0
Auto and Motorcycle Passengers	10,116	2,296
Autos and Motorcycles	8,675	2,055
Average Auto Occupancy (Includes Motorcycles)	1.17	1.12

U.S. 50 Eastbound (off-peak-flow) between Md. 704 (M. L. King, Jr. Highway) and Md. 197 (Collington Road)

HOV Lane Total

Spring 2014 - 3 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders +Bus Passengers		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other							
5:00 - 5:15	4	2	9	0	2.60	3.44	0	15	39	0	0	0	0	39	0	15	0	0	0	
5:15 - 5:30	1	0	0	0	1.00	0.00	0	1	1	0	1	0	37	38	0	2	0	0	0	
5:30 - 5:45	0	1	1	0	2.50	3.00	0	2	5	0	2	0	74	79	0	4	0	0	0	
5:45 - 6:00	4	0	0	0	1.00	0.00	0	4	4	0	1	0	37	41	0	5	0	0	0	
6:00 - 6:15	2	1	0	0	1.33	0.00	0	3	4	0	3	0	111	115	0	7	0	0	0	
6:15 - 6:30	2	5	1	1	3.00	7.50	0	9	27	0	3	0	111	138	0	12	0	0	0	
6:30 - 6:45	0	13	1	0	2.07	3.00	0	14	29	1	3	7	111	147	1	19	0	0	0	
6:45 - 7:00	1	9	1	0	2.00	3.00	0	11	22	2	4	34	148	204	1	17	0	0	0	
7:00 - 7:15	0	7	0	0	2.00	0.00	0	7	14	1	4	8	148	170	0	12	0	0	0	
7:15 - 7:30	1	8	0	0	1.80	0.00	1	10	18	1	4	4	148	170	0	16	0	0	0	
7:30 - 7:45	15	13	0	1	1.83	12.00	0	29	53	2	4	30	148	231	0	33	0	0	0	
7:45 - 8:00	20	8	0	0	1.29	0.00	0	28	36	1	4	13	148	197	0	33	0	0	0	
8:00 - 8:15	15	6	0	0	1.29	0.00	0	21	27	0	2	0	74	101	0	24	0	0	0	
8:15 - 8:30	10	6	0	0	1.38	0.00	0	16	22	1	3	12	111	145	0	19	0	0	0	
8:30 - 8:45	3	3	0	0	1.50	0.00	0	6	9	0	1	0	37	46	1	9	0	0	0	
8:45 - 9:00	6	8	1	0	1.67	3.00	0	15	25	0	1	0	37	62	0	16	0	0	0	
9:00 - 9:15	3	13	0	1	2.41	12.00	0	17	41	1	0	11	0	52	1	18	0	0	0	
9:15 - 9:30	3	16	0	0	1.84	0.00	0	19	35	1	0	16	0	51	0	19	0	0	0	
9:30 - 9:45	0	10	0	0	1.91	0.00	1	11	21	0	0	0	0	21	0	11	0	0	0	
9:45 - 10:00	2	8	0	0	1.80	0.00	0	10	18	0	0	0	0	18	0	10	0	0	0	

5-Hour Totals

Vehicles	92	137	14	3	N/A	N/A	2	248	450	11	40	135	1,480	2,065	4	301	0	0
Persons	92	274	46	36			2											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:30 AM - 8:30 AM)
Highway Passengers	2,065	674
Rail Passengers	0	0
Auto and Motorcycle Passengers	450	138
Autos and Motorcycles	248	94
Average Auto Occupancy (Includes Motorcycles)	1.81	1.47

U.S. 50 Eastbound (off-peak-flow) between Md. 704 (M. L. King, Jr. Highway) and Md. 197 (Collington Road)

Non-HOV Lane Total
Spring 2014 - 3 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total Auto Persons		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									+ MC Riders	+ MC Riders	Transit	Other	Transit	Other	+Bus Passengers	+Bus Passengers				
5:00 - 5:15	62	7	7	0	1.32	3.43			100		0	0	0	0	100	0	76	0	0	
5:15 - 5:30	137	8	0	1	1.13	12.00	1	147	166		1	0	0	0	166	1	149	0	0	
5:30 - 5:45	182	34	0	0	1.16	0.00	1	217	251		2	0	0	0	251	1	220	0	0	
5:45 - 6:00	231	33	1	1	1.17	7.50	0	266	312		4	0	0	0	312	1	271	0	0	
6:00 - 6:15	208	52	11	0	1.30	3.55	0	271	351		2	0	0	0	351	1	274	0	0	
6:15 - 6:30	336	61	10	2	1.25	4.58	0	409	513		1	0	0	0	513	0	410	0	0	
6:30 - 6:45	469	79	5	1	1.18	4.50	0	554	654		3	0	0	0	654	0	557	0	0	
6:45 - 7:00	442	86	0	1	1.18	12.00	0	529	626		3	0	0	0	626	0	532	0	0	
7:00 - 7:15	471	52	6	1	1.15	4.86	1	531	610		0	0	0	0	610	0	531	0	0	
7:15 - 7:30	447	63	3	0	1.13	3.00	0	513	582		3	0	0	0	582	2	518	0	0	
7:30 - 7:45	445	51	5	0	1.13	3.80	0	501	566		2	0	0	0	566	6	509	0	0	
7:45 - 8:00	439	47	3	0	1.11	3.33	0	489	543		2	0	0	0	543	4	495	0	0	
8:00 - 8:15	431	32	2	0	1.08	3.00	0	465	501		3	0	0	0	501	0	468	0	0	
8:15 - 8:30	467	36	3	0	1.08	3.00	0	506	548		2	0	0	0	548	0	508	0	0	
8:30 - 8:45	461	60	5	0	1.13	3.20	1	527	598		6	0	0	0	598	5	538	0	0	
8:45 - 9:00	488	61	6	2	1.17	5.38	1	558	654		3	0	0	0	654	7	568	0	0	
9:00 - 9:15	393	47	4	0	1.12	3.00	0	444	499		2	0	0	0	499	3	449	0	0	
9:15 - 9:30	501	44	1	1	1.11	8.00	0	547	605		4	0	0	0	605	0	551	0	0	
9:30 - 9:45	387	47	2	0	1.12	3.00	0	436	487		1	0	0	0	487	2	439	0	0	
9:45 - 10:00	383	57	1	0	1.13	3.00	0	441	500		3	0	0	0	500	3	447	0	0	

5-Hour Totals

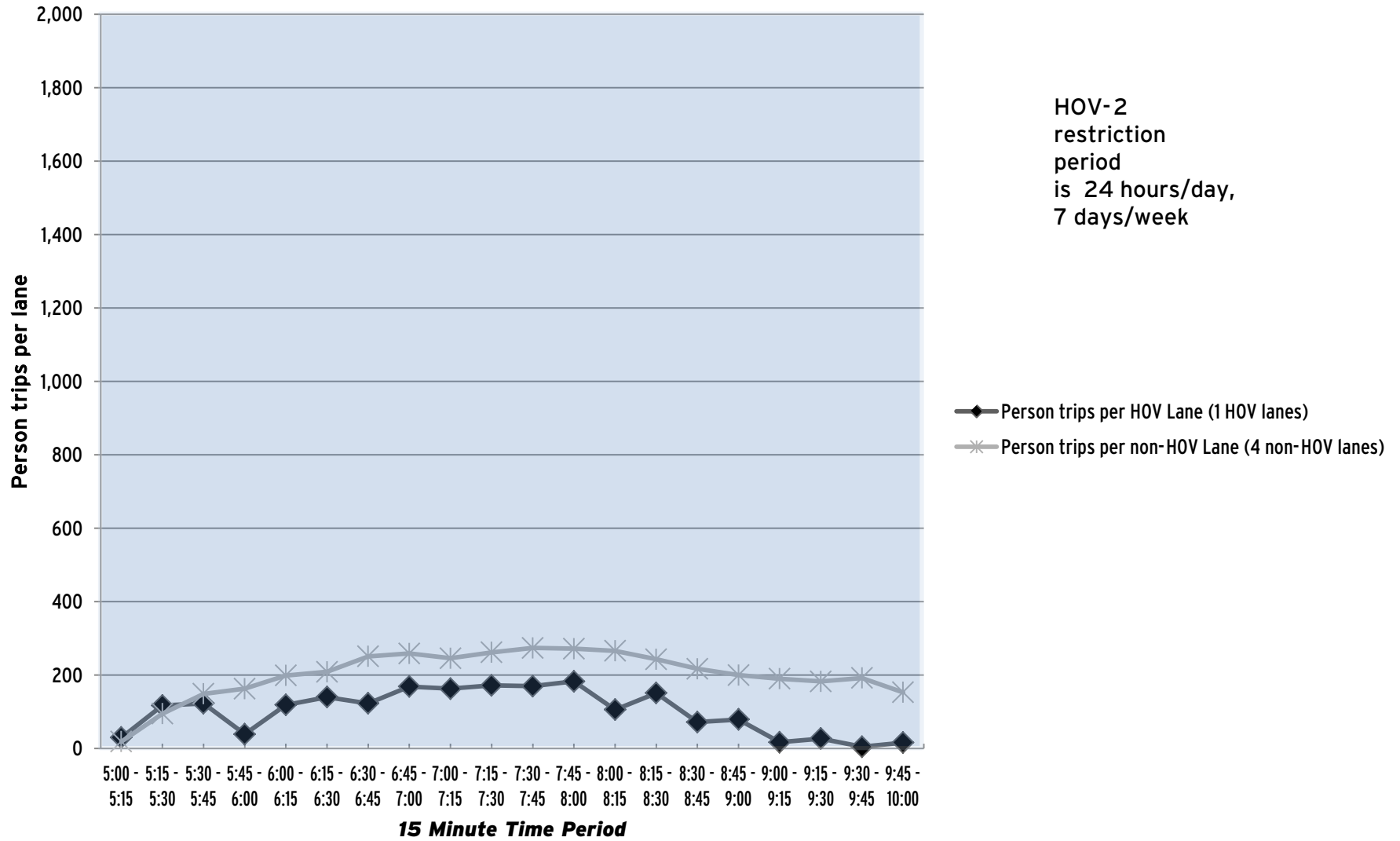
Vehicles	7,380	957	75	10	N/A	N/A	5	8,427	9,666	47	0	0	0	9,666	36	8,510	0	0
Persons	7,380	1,914	247	120			5											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:30 AM - 8:30 AM)
Highway Passengers	9,666	2,158
Rail Passengers	0	0
Auto and Motorcycle Passengers	9,666	2,158
Autos and Motorcycles	8,427	1,961
Average Auto Occupancy (Includes Motorcycles)	1.15	1.10

**U.S. 50 westbound between
Md. 3/U.S. 301 and Md. 197(Collington Road)
Spring 2014
Observed person trips per lane by 15 minute interval**

HOV-2
restriction
period
is 24 hours/day,
7 days/week



U.S. 50 Westbound between U.S. 301/Md. 3 (Crain Highway) and Md. 197 (Collington Road)

All Lanes Total

Fall 2014 - 11 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other	+Bus Passengers	Transit					
5:00 - 5:15	16	13	17	0	2.26	3.65	0	46	104	1	0	0	0	104	0	47	0	0		
5:15 - 5:30	326	8	12	0	1.11	3.42	1	347	384	0	3	0	111	495	0	350	0	0		
5:30 - 5:45	581	12	0	0	1.02	0.00	1	594	606	0	3	0	111	717	0	597	0	0		
5:45 - 6:00	635	6	1	0	1.02	5.00	2	644	654	1	1	0	37	691	0	646	0	0		
6:00 - 6:15	787	8	0	0	1.01	0.00	2	797	805	0	3	0	111	916	0	800	0	0		
6:15 - 6:30	735	48	2	2	1.09	7.50	2	789	863	2	3	0	111	974	4	798	0	0		
6:30 - 6:45	823	79	3	2	1.12	6.80	1	908	1,016	0	3	0	111	1,127	3	914	0	0		
6:45 - 7:00	875	70	2	3	1.11	8.40	1	951	1,058	1	4	0	148	1,206	1	957	0	0		
7:00 - 7:15	882	44	5	1	1.07	4.67	1	933	999	0	4	0	148	1,147	0	937	0	0		
7:15 - 7:30	941	46	3	2	1.08	6.80	3	995	1,070	0	4	0	148	1,218	1	1,000	0	0		
7:30 - 7:45	1,003	48	1	1	1.06	7.50	4	1,057	1,118	3	4	0	148	1,266	1	1,065	0	0		
7:45 - 8:00	1,004	46	4	1	1.06	4.80	4	1,059	1,124	0	4	0	148	1,272	0	1,063	0	0		
8:00 - 8:15	996	46	2	0	1.05	3.00	3	1,047	1,097	0	2	0	74	1,171	0	1,049	0	0		
8:15 - 8:30	918	45	1	0	1.05	3.00	2	966	1,013	0	3	0	111	1,124	1	970	0	0		
8:30 - 8:45	839	24	5	0	1.04	3.00	1	869	903	1	1	0	37	940	0	871	0	0		
8:45 - 9:00	701	55	1	2	1.10	9.00	2	761	840	1	1	0	37	877	1	764	0	0		
9:00 - 9:15	622	68	2	1	1.12	6.00	0	693	776	0	0	0	0	776	0	693	0	0		
9:15 - 9:30	583	68	4	2	1.15	6.17	4	661	760	0	0	0	0	760	1	662	0	0		
9:30 - 9:45	660	50	0	1	1.09	12.00	2	713	774	0	0	0	0	774	8	721	0	0		
9:45 - 10:00	472	65	4	1	1.15	4.80	2	544	628	0	0	0	0	628	0	544	0	0		

5-Hour Totals

Vehicles	14,399	849	69	19	N/A	N/A	38	15,374	16,592	10	43	0	1,591	18,183	21	15,448	0	0
Persons	14,399	1,698	229	228			38											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:15 AM - 8:15 AM)
Highway Passengers	18,183	4,927
Rail Passengers	0	0
Auto and Motorcycle Passengers	16,592	4,409
Autos and Motorcycles	15,374	4,158
Average Auto Occupancy (Includes Motorcycles)	1.08	1.06

U.S. 50 Westbound between U.S. 301/Md. 3 (Crain Highway) and Md. 197 (Collington Road)

HOV Lane Total

Fall 2014 - 11 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers.		Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ MC Riders	Transit	Other	Transit	Other	+ Bus Passengers	Trucks			
5:00 - 5:15	2	5	5	0	2.50	3.60	0	12	30	0	0	0	0	30	0	12	0	0	
5:15 - 5:30	1	1	1	0	2.00	3.00	0	3	6	0	3	0	111	117	0	6	0	0	
5:30 - 5:45	0	6	0	0	2.00	0.00	0	6	12	0	3	0	111	123	0	9	0	0	
5:45 - 6:00	0	1	0	0	2.00	0.00	0	1	2	0	1	0	37	39	0	2	0	0	
6:00 - 6:15	2	3	0	0	1.60	0.00	0	5	8	0	3	0	111	119	0	8	0	0	
6:15 - 6:30	7	5	0	1	2.23	12.00	0	13	29	0	3	0	111	140	2	18	0	0	
6:30 - 6:45	2	5	0	0	1.71	0.00	0	7	12	0	3	0	111	123	2	12	0	0	
6:45 - 7:00	1	10	0	0	1.91	0.00	0	11	21	0	4	0	148	169	1	16	0	0	
7:00 - 7:15	7	4	0	0	1.36	0.00	0	11	15	0	4	0	148	163	0	15	0	0	
7:15 - 7:30	9	7	0	0	1.41	0.00	1	17	24	0	4	0	148	172	1	22	0	0	
7:30 - 7:45	3	9	0	0	1.69	0.00	1	13	22	0	4	0	148	170	0	17	0	0	
7:45 - 8:00	5	14	0	0	1.67	0.00	2	21	35	0	4	0	148	183	0	25	0	0	
8:00 - 8:15	10	8	2	0	1.60	3.00	0	20	32	0	2	0	74	106	0	22	0	0	
8:15 - 8:30	5	15	1	0	1.74	3.00	2	23	40	0	3	0	111	151	0	26	0	0	
8:30 - 8:45	5	10	3	0	1.84	3.00	1	19	35	0	1	0	37	72	0	20	0	0	
8:45 - 9:00	2	13	0	1	2.33	12.00	2	18	42	0	1	0	37	79	0	19	0	0	
9:00 - 9:15	9	4	0	0	1.31	0.00	0	13	17	0	0	0	0	17	0	13	0	0	
9:15 - 9:30	9	9	0	0	1.50	0.00	0	18	27	0	0	0	0	27	0	18	0	0	
9:30 - 9:45	1	2	0	0	1.67	0.00	0	3	5	0	0	0	0	5	1	4	0	0	
9:45 - 10:00	1	4	2	0	2.00	3.00	1	8	16	0	0	0	0	16	0	8	0	0	

5-Hour Totals

Vehicles	81	135	14	2	N/A	N/A	10	242	430	0	43	0	1,591	2,021	7	292	0	0
Persons	81	270	45	24			10											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:15 AM - 8:15 AM)
Highway Passengers	2,021	631
Rail Passengers	0	0
Auto and Motorcycle Passengers	430	113
Autos and Motorcycles	242	71
Average Auto Occupancy (Includes Motorcycles)	1.78	1.59

U.S. 50 Westbound between U.S. 301/Md. 3 (Crain Highway) and Md. 197 (Collington Road)

Non-HOV Lane Total

Fall 2014 - 11 September 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other	+Bus Passengers						
5:00 - 5:15	14	8	12	0	2.18	3.67	0	34	74			0	0	74	0	35	0	0		
5:15 - 5:30	325	7	11	0	1.10	3.45	1	344	378	0	0	0	0	378	0	344	0	0		
5:30 - 5:45	581	6	0	0	1.01	0.00	1	588	594	0	0	0	0	594	0	588	0	0		
5:45 - 6:00	635	5	1	0	1.01	5.00	2	643	652	1	0	0	0	652	0	644	0	0		
6:00 - 6:15	785	5	0	0	1.01	0.00	2	792	797	0	0	0	0	797	0	792	0	0		
6:15 - 6:30	728	43	2	1	1.07	6.00	2	776	834	2	0	0	0	834	2	780	0	0		
6:30 - 6:45	821	74	3	2	1.11	6.80	1	901	1,004	0	0	0	0	1,004	1	902	0	0		
6:45 - 7:00	874	60	2	3	1.10	8.40	1	940	1,037	1	0	0	0	1,037	0	941	0	0		
7:00 - 7:15	875	40	5	1	1.07	4.67	1	922	984	0	0	0	0	984	0	922	0	0		
7:15 - 7:30	932	39	3	2	1.07	6.80	2	978	1,046	0	0	0	0	1,046	0	978	0	0		
7:30 - 7:45	1,000	39	1	1	1.05	7.50	3	1,044	1,096	3	0	0	0	1,096	1	1,048	0	0		
7:45 - 8:00	999	32	4	1	1.05	4.80	2	1,038	1,089	0	0	0	0	1,089	0	1,038	0	0		
8:00 - 8:15	986	38	0	0	1.04	0.00	3	1,027	1,065	0	0	0	0	1,065	0	1,027	0	0		
8:15 - 8:30	913	30	0	0	1.03	0.00	0	943	973	0	0	0	0	973	1	944	0	0		
8:30 - 8:45	834	14	2	0	1.02	3.00	0	850	868	1	0	0	0	868	0	851	0	0		
8:45 - 9:00	699	42	1	1	1.07	7.50	0	743	798	1	0	0	0	798	1	745	0	0		
9:00 - 9:15	613	64	2	1	1.12	6.00	0	680	759	0	0	0	0	759	0	680	0	0		
9:15 - 9:30	574	59	4	2	1.14	6.17	4	643	733	0	0	0	0	733	1	644	0	0		
9:30 - 9:45	659	48	0	1	1.08	12.00	2	710	769	0	0	0	0	769	7	717	0	0		
9:45 - 10:00	471	61	2	1	1.14	6.00	1	536	612	0	0	0	0	612	0	536	0	0		

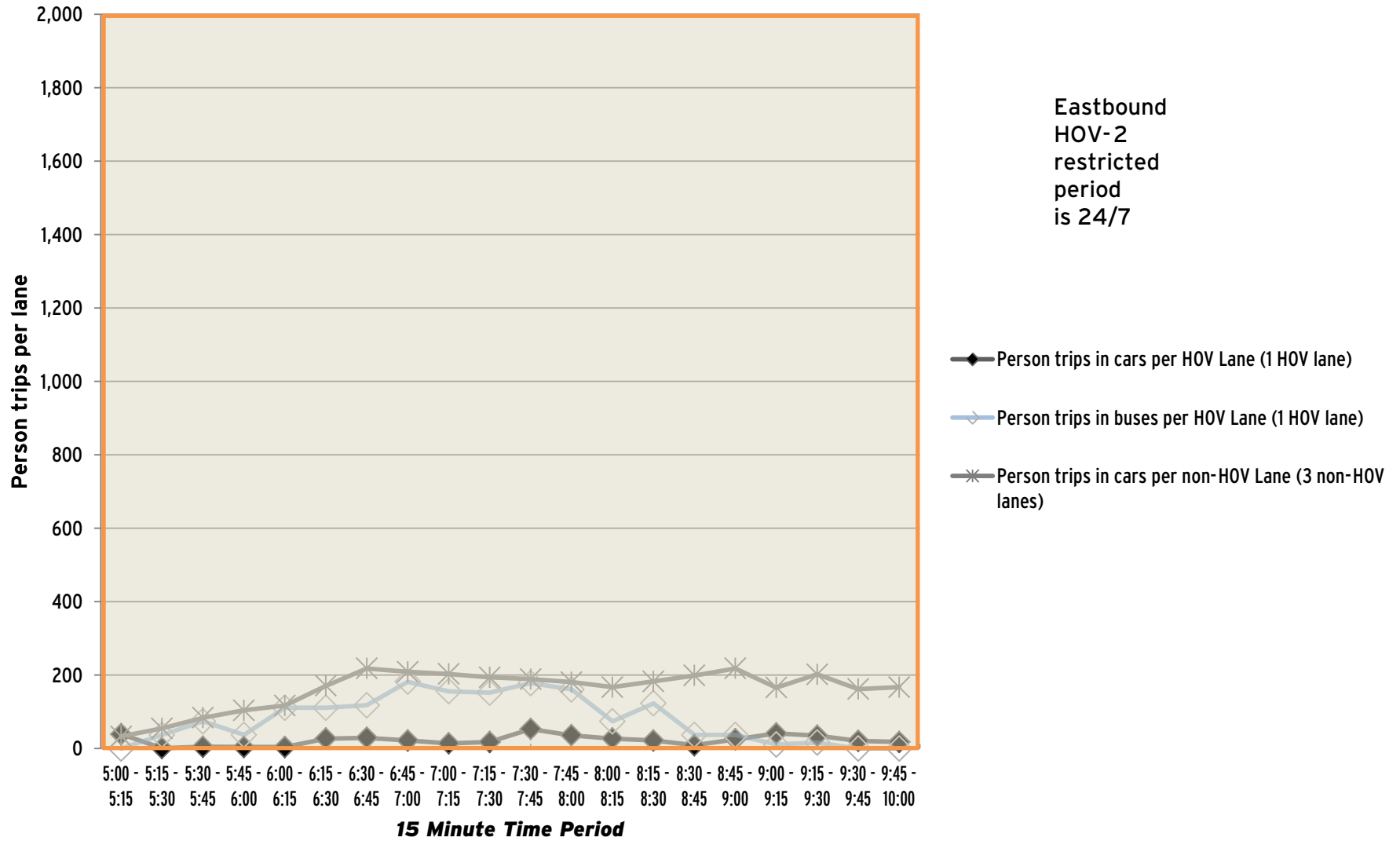
5-Hour Totals

Vehicles	14,318	714	55	17	N/A	N/A	28	15,132	16,162	10	0	0	0	16,162	14	15,156	0	0
Persons	14,318	1,428	184	204			28											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:15 AM - 8:15 AM)
Highway Passengers	16,162	4,296
Rail Passengers	0	0
Auto and Motorcycle Passengers	16,162	4,296
Autos and Motorcycles	15,132	4,087
Average Auto Occupancy (Includes Motorcycles)	1.07	1.05

**U.S. 50 (John Hanson Highway) Eastbound (OFF-PEAK flow)
Spring 2014
Between Md. 704 (Martin Luther King Highway) and Md. 197 (Collington Road)
Observed person trips per lane by 15 minute interval**



U.S. 50 Eastbound (off-peak-flow) between Md. 704 (M. L. King, Jr. Highway) and Md. 197 (Collington Road)

All Lanes Total

Spring 2014 - 3 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses Transit	Other	Bus Passengers		Total Auto Pers. + MC Riders		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	+ Bus Passengers			Transit	Other						
5:00 - 5:15	66	9	16	0	1.53	3.44	0	91	139	0	0	0	0	0	139	0	91	0	0	
5:15 - 5:30	138	8	0	1	1.13	12.00	1	148	167	1	1	0	37	204	1	151	0	0		
5:30 - 5:45	182	35	1	0	1.17	3.00	1	219	256	2	2	0	74	330	1	224	0	0		
5:45 - 6:00	235	33	1	1	1.17	7.50	0	270	316	4	1	0	37	353	1	276	0	0		
6:00 - 6:15	210	53	11	0	1.30	3.55	0	274	355	3	3	0	111	466	1	281	0	0		
6:15 - 6:30	338	66	11	3	1.29	5.00	0	418	540	1	3	0	111	651	0	422	0	0		
6:30 - 6:45	469	92	6	1	1.20	4.29	0	568	683	4	3	7	111	801	1	576	0	0		
6:45 - 7:00	443	95	1	1	1.20	7.50	0	540	648	4	4	34	148	830	1	549	0	0		
7:00 - 7:15	471	59	6	1	1.16	4.86	1	538	624	1	4	8	148	780	0	543	0	0		
7:15 - 7:30	448	71	3	0	1.15	3.00	1	523	600	5	4	4	148	752	2	534	0	0		
7:30 - 7:45	460	64	5	1	1.17	5.17	0	530	619	2	4	30	148	797	6	542	0	0		
7:45 - 8:00	459	55	3	0	1.12	3.33	0	517	579	3	4	13	148	740	4	528	0	0		
8:00 - 8:15	446	38	2	0	1.09	3.00	0	486	528	4	2	0	74	602	0	492	0	0		
8:15 - 8:30	477	42	3	0	1.09	3.00	0	522	570	2	3	12	111	693	0	527	0	0		
8:30 - 8:45	464	63	5	0	1.14	3.20	1	533	607	7	1	0	37	644	6	547	0	0		
8:45 - 9:00	494	69	7	2	1.18	5.11	1	573	679	3	1	0	37	716	7	584	0	0		
9:00 - 9:15	396	60	4	1	1.17	4.80	0	461	540	2	0	11	0	551	4	467	0	0		
9:15 - 9:30	504	60	1	1	1.13	8.00	0	566	640	4	0	16	0	656	0	570	0	0		
9:30 - 9:45	387	57	2	0	1.14	3.00	1	447	508	1	0	0	0	508	2	450	0	0		
9:45 - 10:00	385	65	1	0	1.15	3.00	0	451	518	3	0	0	0	518	3	457	0	0		

5-Hour Totals

Vehicles	7,472	1,094	89	13	N/A	N/A	7	8,675	10,116	56	40	135	1,480	11,731	40	8,811	0	0
Persons	7,472	2,188	293	156			7											

U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:30 AM - 8:30 AM)
Highway Passengers	11,731	2,832
Rail Passengers	0	0
Auto and Motorcycle Passengers	10,116	2,296
Autos and Motorcycles	8,675	2,055
Average Auto Occupancy (Includes Motorcycles)	1.17	1.12

U.S. 50 Eastbound (off-peak-flow) between Md. 704 (M. L. King, Jr. Highway) and Md. 197 (Collington Road)

HOV Lane Total

Spring 2014 - 3 June 2014

Time	1 Vehicles	2 Vehicles	3+ Vehicles	Vans	Avg Auto Occ.	3+ Avg Auto Occ.	Motorcycles (MC)	Total Autos + MC	Total		Buses		Bus Passengers		Total Auto Pers. + MC Riders +Bus Passengers		Trucks	Total Vehicles	Rail Metro	Comm.
									Auto Persons + MC Riders	Transit	Other	Transit	Other							
5:00 - 5:15	4	2	9	0	2.60	3.44	0	15	39	0	0	0	0	39	0	15	0	0	0	
5:15 - 5:30	1	0	0	0	1.00	0.00	0	1	1	0	1	0	37	38	0	2	0	0	0	
5:30 - 5:45	0	1	1	0	2.50	3.00	0	2	5	0	2	0	74	79	0	4	0	0	0	
5:45 - 6:00	4	0	0	0	1.00	0.00	0	4	4	0	1	0	37	41	0	5	0	0	0	
6:00 - 6:15	2	1	0	0	1.33	0.00	0	3	4	0	3	0	111	115	0	7	0	0	0	
6:15 - 6:30	2	5	1	1	3.00	7.50	0	9	27	0	3	0	111	138	0	12	0	0	0	
6:30 - 6:45	0	13	1	0	2.07	3.00	0	14	29	1	3	7	111	147	1	19	0	0	0	
6:45 - 7:00	1	9	1	0	2.00	3.00	0	11	22	2	4	34	148	204	1	17	0	0	0	
7:00 - 7:15	0	7	0	0	2.00	0.00	0	7	14	1	4	8	148	170	0	12	0	0	0	
7:15 - 7:30	1	8	0	0	1.80	0.00	1	10	18	1	4	4	148	170	0	16	0	0	0	
7:30 - 7:45	15	13	0	1	1.83	12.00	0	29	53	2	4	30	148	231	0	33	0	0	0	
7:45 - 8:00	20	8	0	0	1.29	0.00	0	28	36	1	4	13	148	197	0	33	0	0	0	
8:00 - 8:15	15	6	0	0	1.29	0.00	0	21	27	0	2	0	74	101	0	24	0	0	0	
8:15 - 8:30	10	6	0	0	1.38	0.00	0	16	22	1	3	12	111	145	0	19	0	0	0	
8:30 - 8:45	3	3	0	0	1.50	0.00	0	6	9	0	1	0	37	46	1	9	0	0	0	
8:45 - 9:00	6	8	1	0	1.67	3.00	0	15	25	0	1	0	37	62	0	16	0	0	0	
9:00 - 9:15	3	13	0	1	2.41	12.00	0	17	41	1	0	11	0	52	1	18	0	0	0	
9:15 - 9:30	3	16	0	0	1.84	0.00	0	19	35	1	0	16	0	51	0	19	0	0	0	
9:30 - 9:45	0	10	0	0	1.91	0.00	1	11	21	0	0	0	0	21	0	11	0	0	0	
9:45 - 10:00	2	8	0	0	1.80	0.00	0	10	18	0	0	0	0	18	0	10	0	0	0	

5-Hour Totals

Vehicles	92	137	14	3	N/A	N/A	2	248	450	11	40	135	1,480	2,065	4	301	0	0
Persons	92	274	46	36			2											

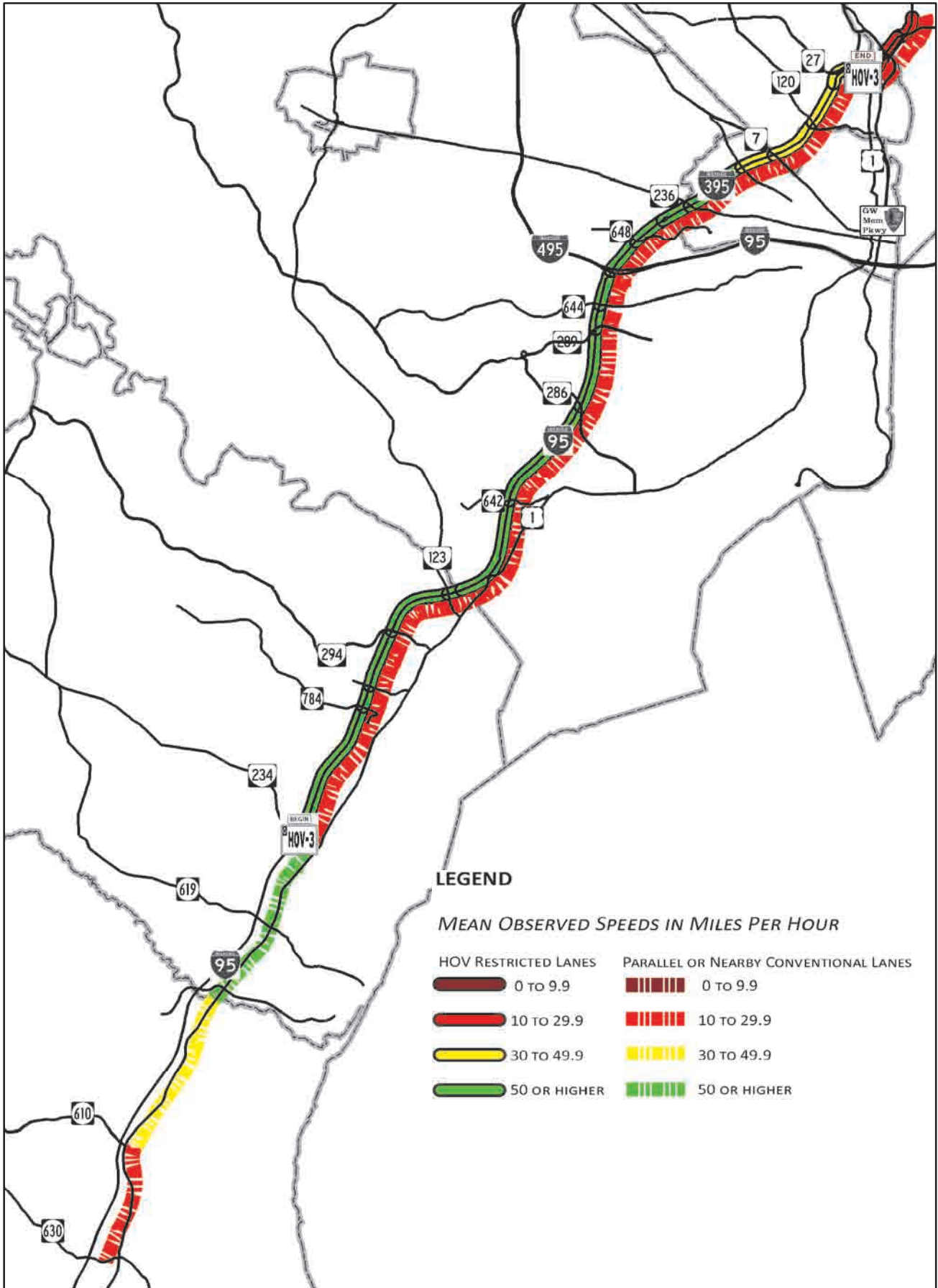
U.S. 50 HOV Restricted

	Period 24/7 5 Hours	Peak Hour (7:30 AM - 8:30 AM)
Highway Passengers	2,065	674
Rail Passengers	0	0
Auto and Motorcycle Passengers	450	138
Autos and Motorcycles	248	94
Average Auto Occupancy (Includes Motorcycles)	1.81	1.47

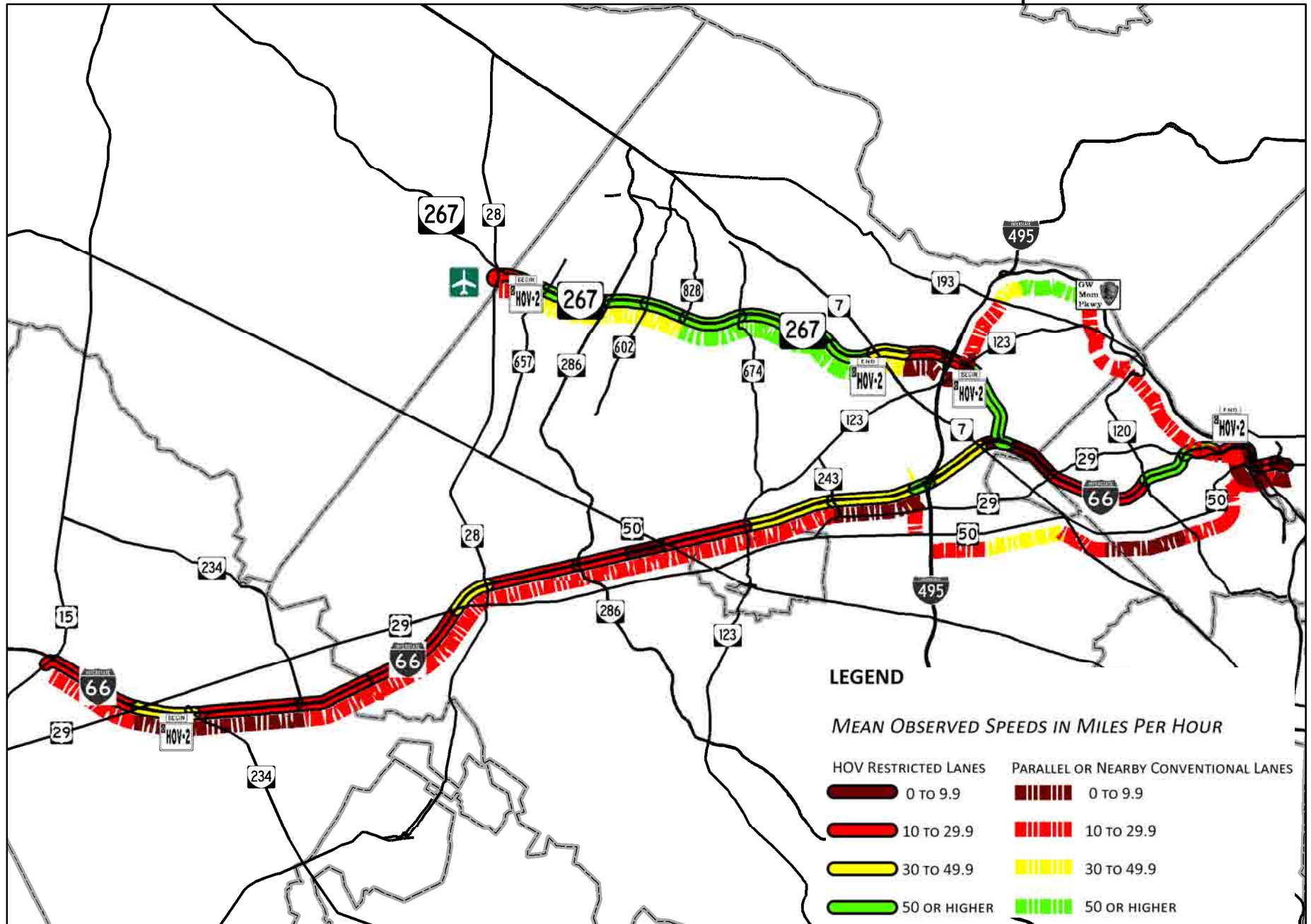
APPENDIX B
A.M. TRAVEL TIME RUN PLOTS (HOV AND NON-HOV) AND DATA

Travel time run routes were designed to show the differences in speeds and elapsed times between the HOV and non-HOV modes. The HOV routes maximize use of HOV lanes in each corridor, and provide examples of the maximum savings in travel time that can be associated with the current configuration of these HOV facilities. Non-HOV routes parallel the HOV routes on the same facility, except for I-66 (between I-495 and the T. Roosevelt Bridge (Potomac River), where the non-HOV route follows I-495 to U.S. 50 (Arlington Boulevard) and re-joins I-66 at the west end of the span) and Va. 267/Dulles Connector/I-66 (the non-HOV route follows I-495 to the George Washington Memorial Parkway and re-joins I-66 at the T. Roosevelt Bridge).

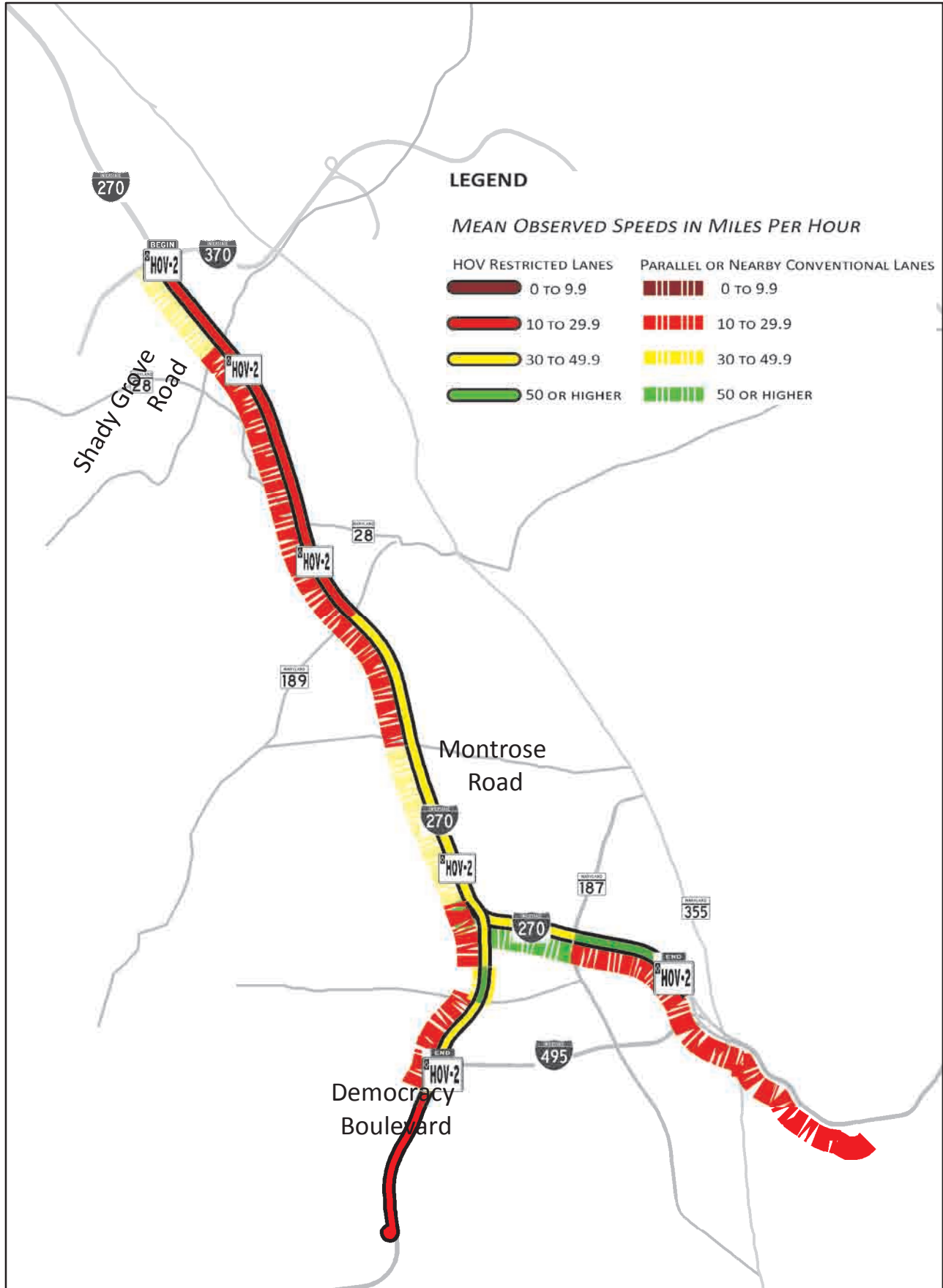
I-95 and I-395 Northbound HOV and Non-HOV Mean Speeds



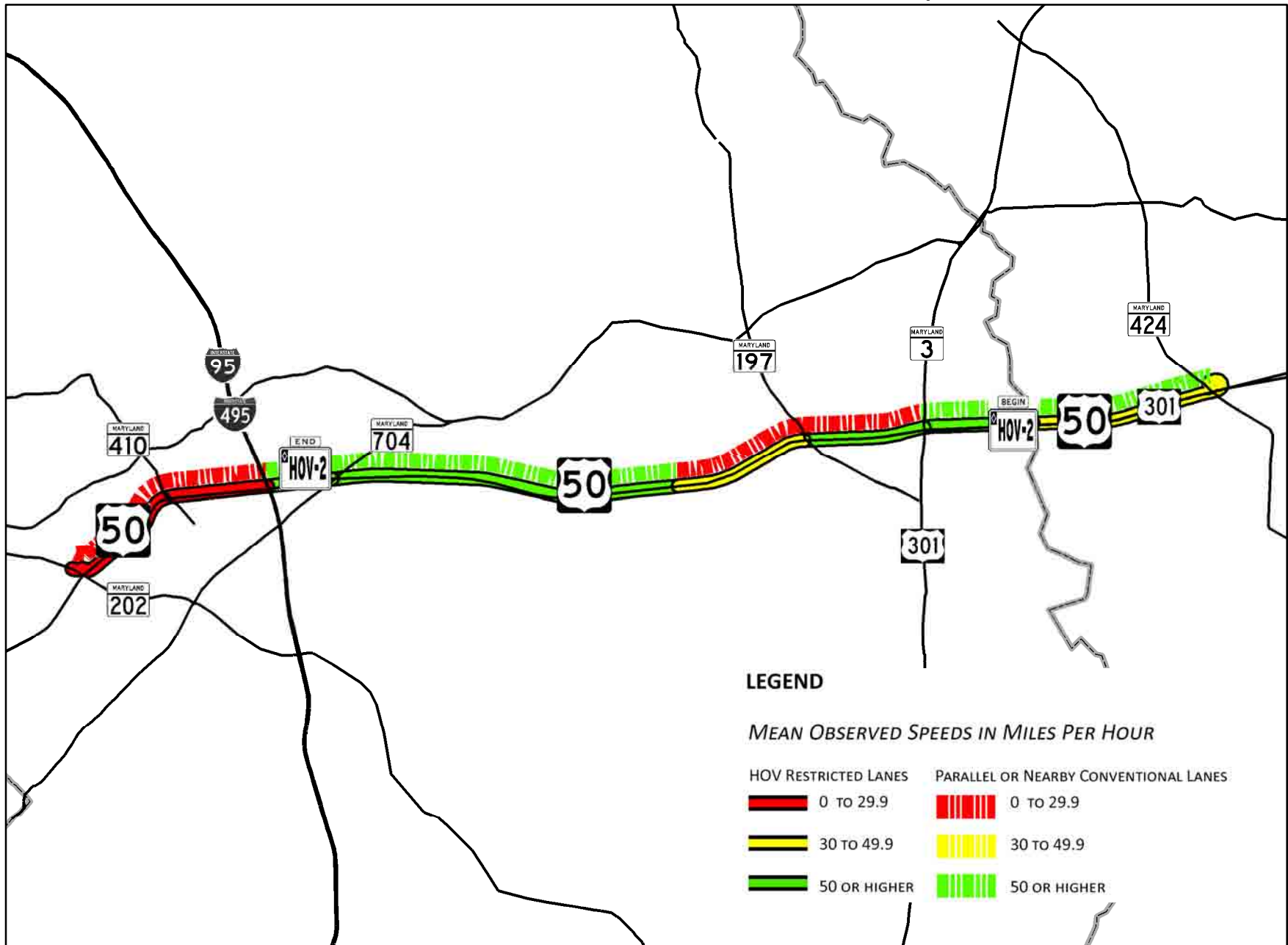
Eastbound I-66 and Va. 267 HOV and non-HOV Mean Speeds



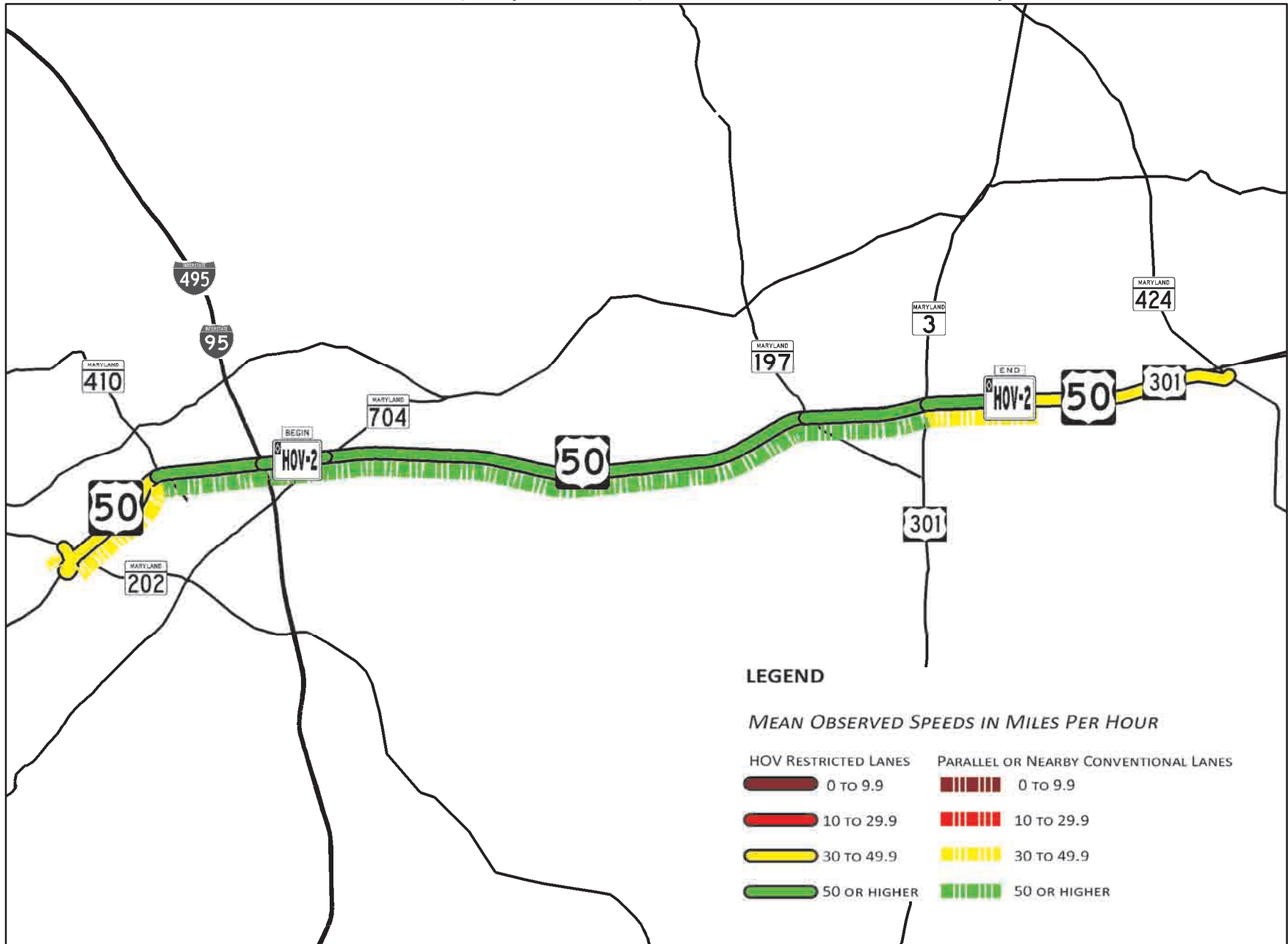
I-270 Southbound HOV and non-HOV runs Mean Speeds



US50 Westbound HOV and Non-HOV Mean Speeds



U.S. 50 Eastbound (off-peak-flow) HOV and Non-HOV Mean Speeds



**APPENDIX C
COUNTING SITE LOCATIONS**

COUNTING SITE LOCATIONS

STATION	HOV/HIGHWAY FACILITY	TRAFFIC COUNT LOCATION
I-395-B	I-395 - Shirley Highway	HOV and non-HOV roadways north of Va. 120 (S. Glebe Rd.)
I-395-C	I-395 - Shirley Highway	<p>A.M. and P.M. non-HOV roadway north of Va. 648 (Edsall Road).</p> <p>A.M. and P.M. HOV roadway at Turkeycock Run ramps A.M. counts do not include slipramp traffic from non-HOV to HOV roadway P.M. HOV roadway counts include slipramp traffic from non-HOV to HOV roadway</p>
I-95-A	I-95 - Shirley Highway	I-95 between Va. 7900 (Franconia-Springfield Parkway) and Va. 7100 (Fairfax County Parkway) [Newington] interchange
I-95-B	I-95	I-95 between Va. 234 and Va. 784 (counts taken at Dumfries Scales)
I-66-C	I-66	Between Fairfax Drive and N. Sycamore Street

STATION	HOV/HIGHWAY FACILITY	TRAFFIC COUNT LOCATION
I-66-D	I-66	Between Va. 7 (Leesburg Pike) and I-495
I-66-E	I-66 between I-495 and Va. 243 (Nutley Street)	A.M. - from Vienna Metro station parking deck P.M. - from west of Vienna Metro station - exiting traffic from I-66 to Va. 243 is added to count to compute correct link volume
I-66-G	I-66 between U.S. 50 (Lee Jackson Highway) and Monument Drive	
I-66-H	I-66 between U.S. 29 (Lee Highway) and Va. 234 (Sudley Road)	At Bull Run rest area (west of Fairfax County/Prince William County line)
I-66-I	Va. 267 (Dulles Toll Road) and Dulles Access Road	Just east of Va. 123 interchange
I-270-A	I-270	I-270 north of Rockledge Drive
I-270-B	I-270 (main and C-D roadways)	I-270 south of Md. 189 (Falls Road)
I-270-C	I-270 (main and C-D roadways)	I-270 south of I-370/Sam Eig Highway
I-270-F	I-270Y(I-270 Spur)	I-270 Spur north of

STATION	HOV/HIGHWAY FACILITY	TRAFFIC COUNT LOCATION
		Democracy Boulevard
VA-267-B	Va. 267 (Dulles Toll Road)	Eastbound (A.M.): Between Trap Road and Va. 7
US-50-C	U.S. 50 (John Hanson Highway)	Between Md. 704 and Md. 197
US-50-D	U.S. 50 (John Hanson Highway)	Between Md. 197 and Md. 3/U.S. 301

**APPENDIX D
OCCUPANCY AND CLASSIFICATION DETAILS**

1. Field staff do not count persons that are not visible. With the exception of van-pool vans (please see discussion below), assumptions about auto occupancy are not made. In particular, this means that small children and persons sleeping in the back seat of vehicles passing a count station may not be seen.
2. Refer to Table F-1 to see how vehicles are classified.
3. Note that the occupancy count is performed only for the first six categories of vehicles.
4. Van-pool vans (full-sized domestic "stretch" vans with privacy windows and an overhang of at least three feet from the rear wheel to the rear bumper) or vans without privacy windows with eight or more occupants are tallied on the "V" button on the computer. Occupancies for vans with less than 8 passengers are tallied for the number of persons observed, as for a regular automobile.
4. All buses are counted in the vehicle classification procedure. Buses are classified as either "Transit Bus" or "Other Bus." Transit buses include Metrobuses and other public transit buses (Fairfax Connector, and Montgomery County Ride-On), whether they are in-service, not-in-service, or on charter. All other buses (including commuter buses) are classified as "Other Bus".

**TABLE D-1
VEHICLE CLASSIFICATION AND OCCUPANCY
FOR HOV FACILITY and CORDON COUNTS**

OBSERVED VEHICLE	CLASSIFICATION FOR HOV FACILITY AND CORDON COUNTS					OCCUPANCY COUNT	
	AUTO	TRUCK	MOTOR CYCLE	VAN-POOL	BUS	YES	NO
Private Passenger Car	X					X	
Station Wagon	X					X	
Taxi, limousine and similar commercial auto	X					X	
Auto Pulling Trailer	X					X	
Recreational Vehicle	X					X	
Light, Single Unit Truck (2 axles/exactly 4 tires) [includes pickup	X					X	

trucks and panel vans, Suburbans, conversion vans, Jeeps, sport utility vehicles, etc.]							
Medium Single Unit Truck (2 axles, 6 tires)		X					X
Heavy Single Unit Truck (3, 4 or 5 axles, 6-16 tires)		X					X
Tractor Trailer Truck (includes double trailer combinations)		X					X
Motorcycle (includes motorcycle with sidecar and three-wheeled motorcycles)			X				X
Moped			X				X
Van-pool Van				X			X
Metrobus (All)					X		X

Other Transit Buses (All)					X		X
All Other Buses (In-Service, Out of Service etc.)					X		X

APPENDIX E
VAN-POOL MONITORING METHOD

The high occupancy of van-pool vans has presented some technical problems for monitoring vehicle occupancy. Further complications arise from the fact that nearly all van-pool vans have darkened or silvered windows (privacy windows) which prevent traffic monitoring technicians from determining van occupancies. In addition, the traffic counting software used to tally occupancies does not have a higher classification than 7 occupants. To provide a consistent basis for monitoring van-pool vehicles, the following methodology was adopted in 1990, and has been used by all COG/TPB monitoring projects since then:

1. Van-pools are defined as vans with 8 or more occupants.
2. Field technicians are instructed to use the "V" button for van-pools.
3. Field technicians are trained to identify a van-pool as a stretch-van with privacy windows and an overhang of at least three feet from the rear wheel to the rear bumper (15 passenger van); or a van without privacy windows having eight or more occupants.
4. As part of training, field technicians are also shown several real stretch-vans as reference points. All other vehicles are classified by occupancy, so a van with 5, 6, or 7 visible occupants would be counted with other vehicles having that occupancy.

In 1989, COG/TPB conducted a mail-back survey of van-pool operators. From this survey, a van-pool factor of 12 persons per van-pool van was developed, and has been used for all Cordon Counts since 1990 and this HOV Facilities Count.

APPENDIX F
TRAVEL TIME RUN METHODOLOGY

For travel time runs, the "floating car" methodology was used to collect speed and elapsed time data. This methodology requires a driver to keep up with the average speed of traffic, which means that about half of the vehicles in traffic pass the data collection car, and the other half of the vehicles are passed by the data collectors.

Tracking units using the Global Positioning System (GPS) were used in each vehicle to log speeds at approximately a 2 to 4 second interval for the entire route. The recorded speeds were then aggregated for each segment of the network (HOV and non-HOV) to compute harmonic mean speeds for the system.

HOV trips maximized use of available HOV lanes at all times. When conducting travel time runs in concurrent-flow HOV lanes, drivers were instructed to drive at speeds at which they were keeping up with other vehicles in the HOV lanes.

APPENDIX G
GLOSSARY of ABBREVIATIONS and TERMS

GLOSSARY of ABBREVIATIONS and TERMS

Abbreviation or term	Definition
Average auto occupancy	The numerator of the calculation is the number of auto passengers and drivers observed, plus the number of van-pools counted times 12. The denominator is the number of autos, auto-like vehicles, motorcycles and van-pools counted.
Automobile	Passenger cars, includes station wagons, taxicabs and limousines.
Auto-like vehicle	Vans (excepting van-pool vans), pickup trucks, other light trucks, sport-utility vehicles, recreational vehicles and panel trucks with single rear wheels, and generally with a gross vehicle weight of less than 10,000 pounds.
Barrier-separated HOV lane	HOV lane or lanes that are separated from conventional lanes by steel or concrete barriers. HOV lanes in the I-95/I-395 corridor are barrier-separated, as are two short sections of the I-270 HOV facility.
Car-pool	Autos or auto-like vehicles used to transport at least two persons (three persons in the I-95/I-395 corridor).
COG/TPB	Metropolitan Washington Council of Governments/National Capital Region Transportation Planning Board.
Commuter Bus	Bus service oriented to the outer jurisdictions (cities of Annapolis, Frederick, Fredericksburg and Manassas, and counties of Anne Arundel, Frederick (Md.), Calvert, Charles, Howard, Loudoun, Prince William, Queen Anne's, St. Mary's, Stafford and Warren). Service is provided under contract to public entities such as PRTC, Loudoun County, the MTA (all commuter bus service in Maryland serving work-end destinations in the Washington region is operated under MTA contract), and by private firms (in Virginia) such as Brooks Transit, Lee, National Coach Works, and Quick's. Does not include van-pools.
Commuter rail	Passenger rail service oriented towards the schedules of commuters, and operated by the MTA (MARC rail) and the VRE.
Concurrent-flow HOV lanes	HOV lanes which are not separated from the conventional lanes by a physical barrier. Pavement markings and highway signing are used to distinguish concurrent-flow HOV lanes from conventional lanes.

Abbreviation or term	Definition
Conventional lanes	Lanes running parallel to HOV lanes (as part of the same highway facility) that are not HOV restricted.
Exclusive HOV facility	A highway facility dedicated to HOV traffic during the HOV restricted period.
HOV	High-occupancy vehicle. Includes autos and auto-like vehicles meeting the HOV requirement, motorcycles (regardless of the number of riders) and transit, commuter, charter, long-haul, school and prison buses. Includes trucks meeting the HOV requirement (on some HOV facilities).
HOV-2	Autos and auto-like vehicles with two (or more) occupants.
HOV-3	Autos and auto-like vehicles with three (or more) occupants.
HOV-4	Autos and auto-like vehicles with four (or more) occupants. No facilities in the Washington region are designated HOV-4 as of Fall 1997.
HOV requirement	Minimum number of persons needed in a vehicle in order to legally use an HOV facility. Generally expressed as HOV-2, HOV-3 or HOV-4, and varies by facility.
HOV-restricted period	The time during which an HOV facility is restricted to HOV use only. Varies by facility.
LOS	Level of Service. Describes how well a transportation facility is performing (LOS A means no congestion, while LOS E describes a facility operating just short of capacity, and LOS F describes a facility that is failing).
MDOT	Maryland Department of Transportation.
Metro	See WMATA.
Motorcycles	A motor-driven vehicle with two or three wheels and designed to routinely operate at freeway speeds.
MTA	Mass Transit Administration, a modal administration of the Maryland Department of Transportation. Operates commuter bus lines and the three MARC commuter rail lines between points in Maryland and Union

Abbreviation or term	Definition
PRTC	<p>Station in Washington.</p> <p>Potomac and Rappahannock Transportation Commission.</p>
SHA	<p>State Highway Administration, a modal administration of the Maryland Department of Transportation.</p>
SOV	<p>Single-occupant vehicle - term applies to autos and auto-like vehicles when exactly one person is using the vehicle.</p>
Transit Bus	<p>Includes buses that serve the inner and core jurisdictions of the region. Transit service operated by WMATA (Metrobus), the Cities of Alexandria (DASH) and Fairfax (CUE), Fairfax County (Connector), Montgomery County (Ride-On) and Prince George's County (THE BUS).</p>
Trucks	<p>Trucks and recreational vehicles with a gross vehicle weight of 10,000 pounds or more, with at least six tires in contact with the pavement.</p> <p>Includes dump trucks, tractor-trailers and other medium and heavy-duty commercial vehicles.</p> <p>Does not include pickup trucks, vans and panel trucks with exactly four tires in contact with the pavement.</p> <p>The number of passengers in a truck is not recorded as part of COG/TPB's monitoring methodology.</p>
Van-pool	<p>A passenger (window) van with 1 seat for the driver and 14 seats for passengers, generally referred to as a 15 seat van.</p> <p>In this report, van-pools are assumed to carry 12 persons per vehicle. This factor is based on a survey of van-pool operators done in 1989.</p> <p>Van-pools are included in the calculation for average auto occupancy.</p>
VDOT	<p>Virginia Department of Transportation</p>
VRE	<p>Virginia Railway Express.</p> <p>Operates two commuter rail lines between Northern Virginia and Union Station in Washington.</p>
WMATA	<p>Washington Metropolitan Area Transit Authority, a public transportation partnership between the District of Columbia, Maryland and Virginia.</p> <p>Synonymously referred to as Metro.</p>