



2011 TPB Geographically-Focused Household Travel Surveys Initial Results

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Commuter Connections Subcommittee Meeting
May 15, 2012



Project Background

- Follow-on to 2007-2008 Regional Household Travel Survey that was primarily conducted for the development of the new travel demand model
- Household Travel Survey data collection in specific geographic sub-areas of the region (Case Studies)
- Addresses a need expressed by local planners
- Will provide some current small area community-level socio-economic data that are no longer available from the Decennial Census



Project Objectives

- Analyze daily travel behavior in communities with different densities, physical characteristics and transportation options
- Assist local planners with current local land use and transportation planning efforts
- Build a household travel survey database that can measure changes in local community travel behavior over a period of time (Before and After comparisons)



Arlington County Subareas Spring 2010



Jeff Davis Hwy/Crystal City/Pentagon city

Land Area	=	0.7 sq mi
Households	=	9,600
Population	=	35,200
Pop Density	=	51,200 persons/sq mi

Shirlington Area

Land Area	=	0.6 sq mi.
Households	=	4,200
Population	=	7,200
Pop Density	=	12,900 person/sq mi

Columbia Pike Corridor

Land Area	=	2.5 sq mi
Households	=	9,600
Population	=	15,300
Pop Density	=	6,100



Daily Modal Shares – All Weekday Trips

Area	Drive Alone (SOV)	Carpool (HOV2+)	Transit	Walk	Bike	Other
Crystal City	30%	14%	21%	31%	0.2%	4%
Shirlington	44%	26%	13%	15%	0.4%	2%
Columbia Pike	38%	38%	11%	11%	0.3%	2%



Commuting Trip Modal Shares

Area	Drive Alone (SOV)	Carpool (HOV2+)	Transit	Walk	Bike	Other
Crystal City	21%	4%	53%	19%	0.7%	2%
Shirlington	57%	3%	34%	4%	0.9%	1%
Columbia Pike	63%	8%	25%	2%	1.3%	1%



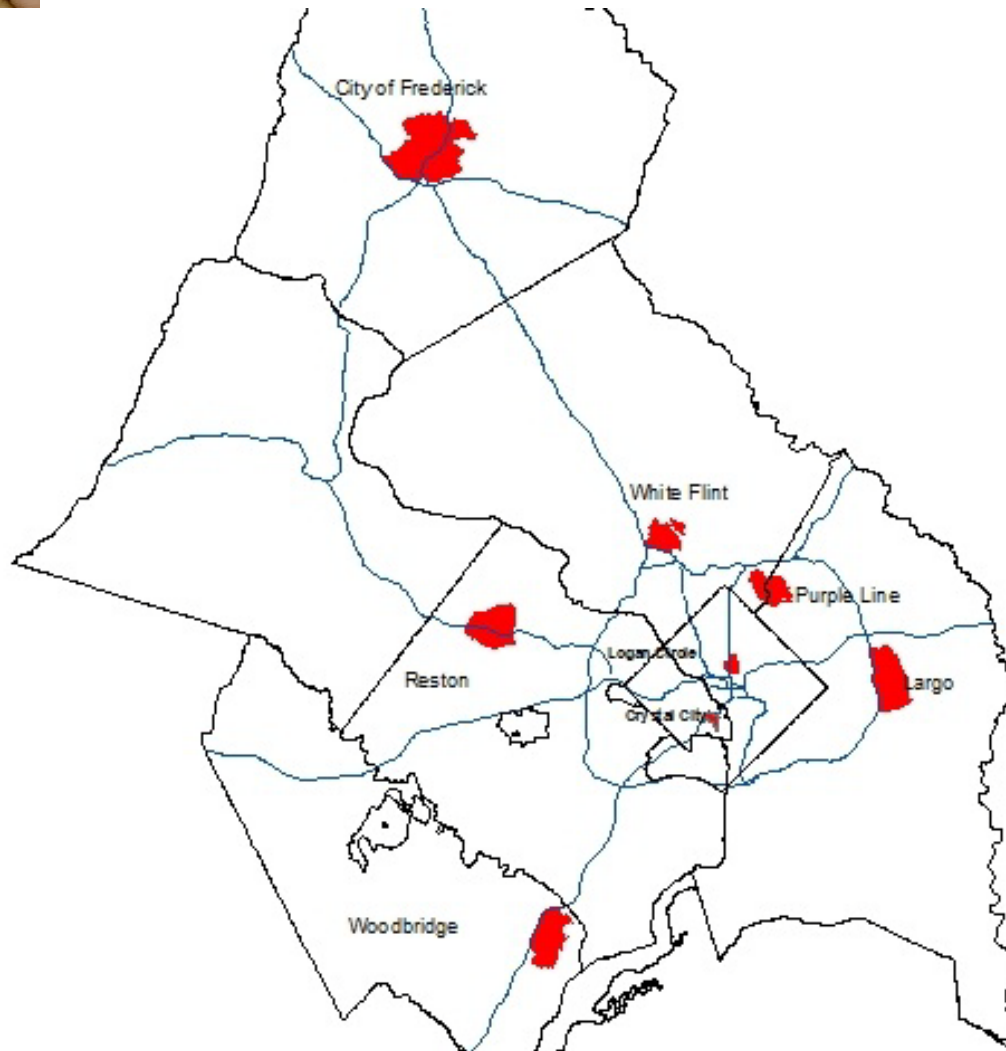
Fall 2011 Data Collection

The seven areas surveyed in the fall of 2011 are:

- The Logan Circle/14th St NW in the District of Columbia (from Massachusetts Ave NW to north of Florida Ave NW)
- The White Flint area in Montgomery County, Maryland
- The Purple Line International Corridor in Montgomery and Prince George's Counties, Maryland (University Blvd from south of I-495 to Adelphi Rd)
- The Largo area in Prince George's County, Maryland
- The City of Frederick, Maryland
- The Reston area in Fairfax County, Virginia
- The Woodbridge area in Prince William County, Virginia



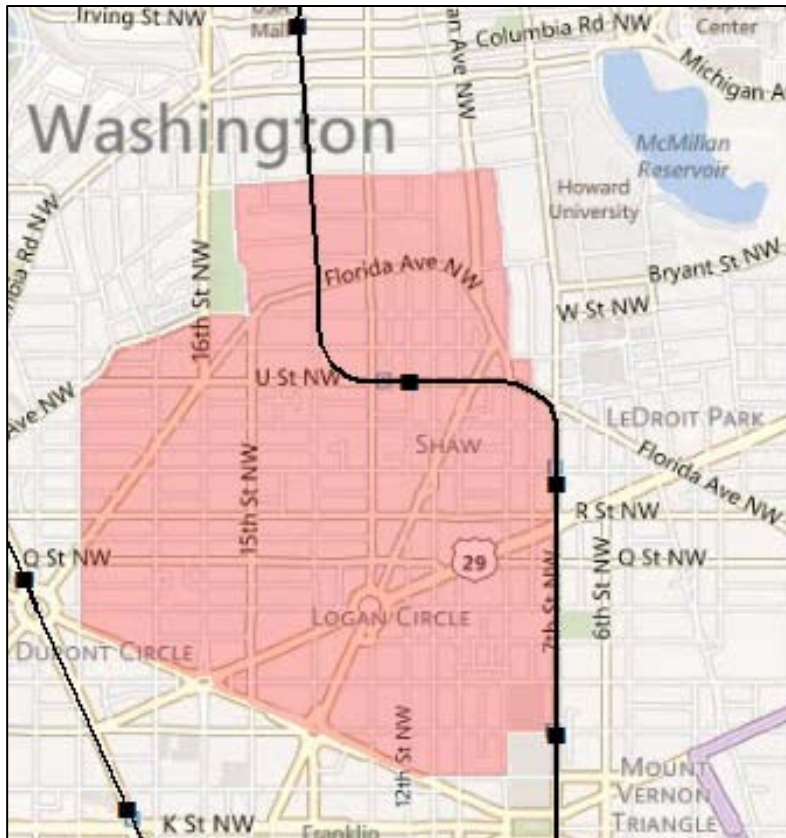
Fall 2011 Survey Areas



Note: Crystal City surveyed in Spring 2010



Logan Circle/ 14th St NW



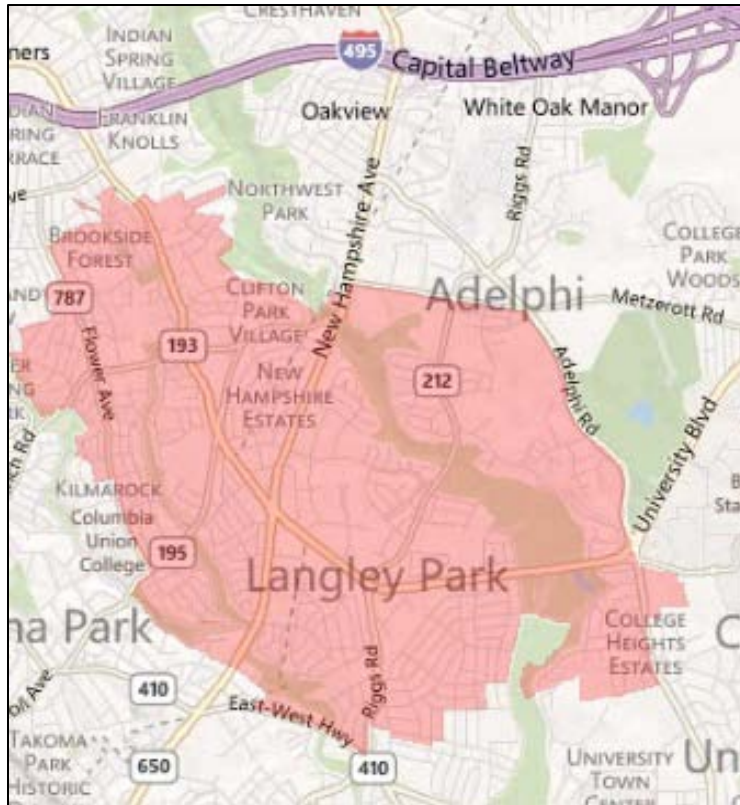
Notable Features:

Land Area: = 1.1 sq mi
Households = 23,933
HH Population = 41,314
Pop Density = 37,100 persons/sq mil

85% - Live in an apartment or condo
57% - "Cell Phone Only" households
Median Household Income = \$75,000
More Bicycles than Vehicles per HH
(Av # of Vehicles = 0.65/HH
Av # of Bikes = .82/HH)



Purple Line / International Corridor – Prince’s George’s and Montgomery Counties



Notable Features:

Land Area: = 1.1 sq mi

Households = 23,933

HH Population = 41,314

Pop Density = 37,100 persons/sq mil

45% - Live in an apartment or condo

46% - “Cell Phone Only” households

Median Household Income = \$70,000

Av. HH Size = 2.84 persons/HH

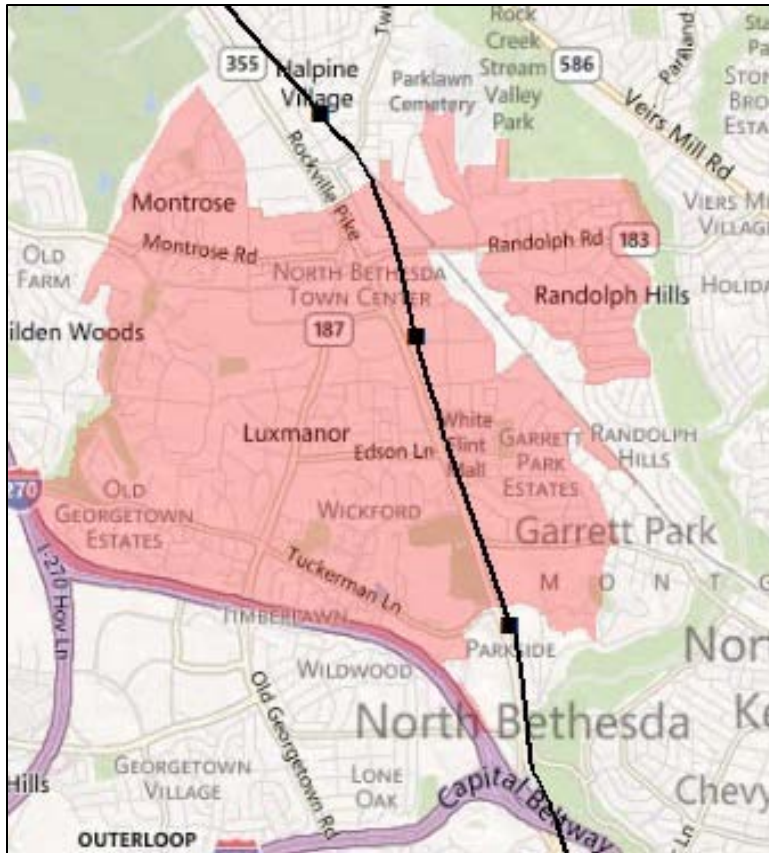
Av # of Vehicles = 1.55/HH

Av # of Bikes = 1.21/HH

Median Length of Residence = 12 years



White Flint – Montgomery County



Notable Features:

Land Area:	=	1.1 sq mi
Households	=	23,933
HH Population	=	41,314
Pop Density	=	37,100 persons/sq mil

- 61% - Live in an apartment or condo
- 23% - “Cell Phone Only” households
- Median Household Income = \$72,500
- Av. HH Size = 2.12 persons/HH
- Av # of Vehicles = 1.46/HH
- Av # of Bikes = 0.86/HH
- Median Length of Residence = 12 years



Largo/Kettering – Prince George’s County



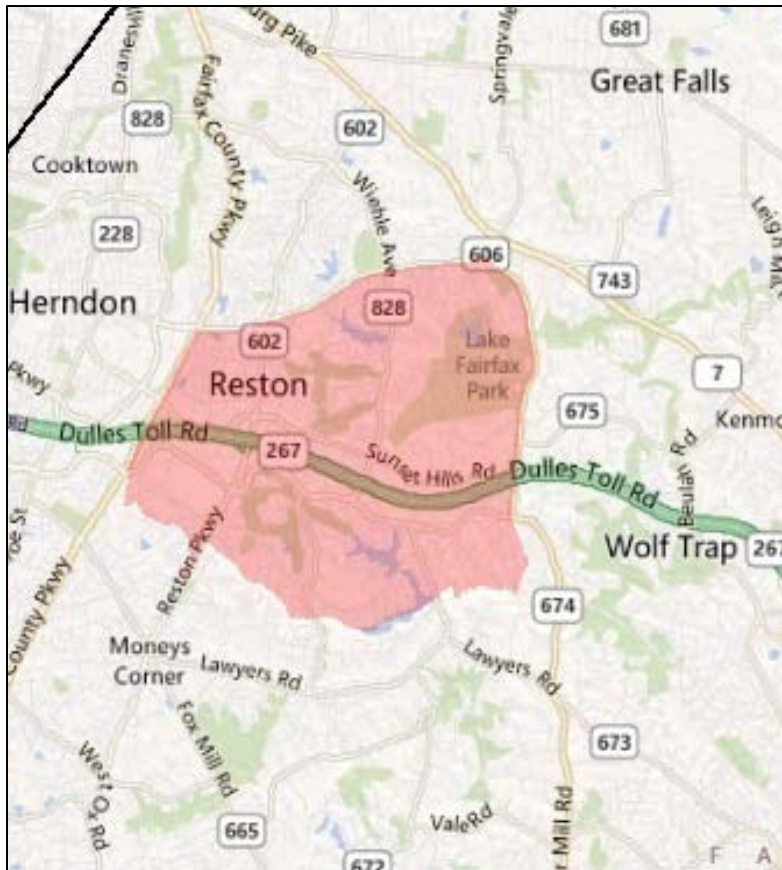
Notable Features:

- Land Area: = 1.1 sq mi
- Households = 23,933
- HH Population = 41,314
- Pop Density = 37,100 persons/sq mil
- 19% - Live in an apartment or condo
- 12% - “Cell Phone Only” households
- Median Household Income = \$75,000
- Av. HH Size = 2.42 persons/HH
- Av # of Vehicles = 1.93/HH
- Av # of Bikes = .76/HH
- Median Length of Residence = 14 years

New Development is taking place now close to Metro, future opportunities for more growth



Reston – Fairfax County



Notable Features:

Land Area: = 1.1 sq mi
Households = 23,933
HH Population = 41,314
Pop Density = 37,100 persons/sq mil

49% - Live in an apartment or condo
35% - “Cell Phone Only” households
Median Household Income = \$106,000
Av. HH Size = 2.10 persons/HH
Av # of Vehicles = 1.73/HH
Av # of Bikes = .93/HH
Median Length of Residence = 11 years



Woodbridge – Prince William County



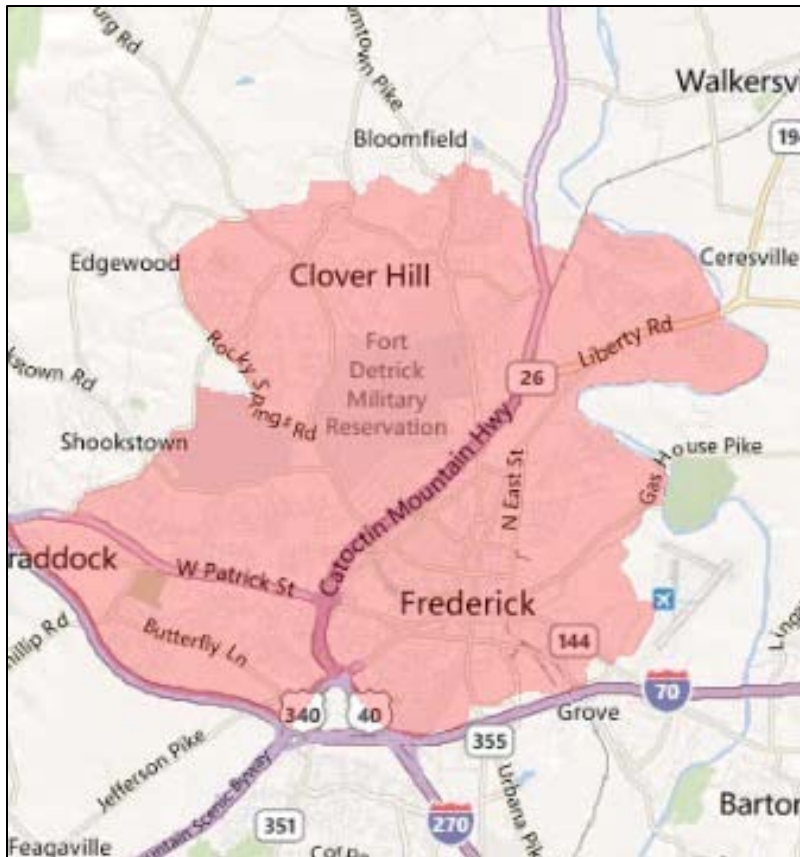
Notable Features:

Land Area: = 1.1 sq mi
Households = 23,933
HH Population = 41,314
Pop Density = 37,100 persons/sq mil

34% - Live in an apartment or condo
33% - “Cell Phone Only” households
Median Household Income = \$65,500
Av. HH Size = 2.79 persons/HH
Av # of Vehicles = 1.84/HH
Av # of Bikes = 0.86/HH
Median Length of Residence = 9 years



City of Frederick, Maryland



Notable Features:

Land Area: = 1.1 sq mi
Households = 23,933
HH Population = 41,314
Pop Density = 37,100 persons/sq mil

28% - Live in an apartment or condo
35% - "Cell Phone Only" households
Median Household Income = \$72,500
Av. HH Size = 2.38 persons/HH
Av # of Vehicles = 1.78/HH
Av # of Bikes = 1.22/HH
Median Length of Residence = 12 years



Age Distribution

Area	0-4	5-17	18-34	34-49	50-64	65+
14 th Street	3%	5%	50%	24%	12%	6%
Purple Line	9%	14%	36%	22%	13%	6%
White Flint	6%	12%	25%	22%	18%	17%
Largo	6%	18%	22%	24%	21%	10%
Reston	7%	13%	27%	23%	19%	12%
Woodbridge	9%	19%	30%	23%	14%	6%
Frederick	7%	16%	26%	22%	17%	11%



Household Size Distribution

Area	1-Person HH	2-Person HH	3-Person HH	4+-Person HH
14 th Street	56%	31%	7%	6%
Purple Line	22%	23%	15%	40%
White Flint	37%	34%	14%	16%
Largo	32%	28%	17%	23%
Reston	38%	33%	14%	16%
Woodbridge	22%	26%	17%	35%
Frederick	30%	31%	16%	23%



Daily Modal Shares – All Weekday Trips

Area	Drive Alone (SOV)	Carpool (HOV2+)	Transit	Walk	Bike	Other
14 th Street	13%	6%	15%	56%	7.2%	3%
Crystal City	30%	14%	21%	31%	0.2%	4%
Purple Line	32%	31%	7%	23%	2.4%	5%
White Flint	40%	28%	8%	18%	0.5%	6%
Largo	50%	32%	4%	9%	0.5%	5%
Reston	48%	32%	3%	14%	0.2%	3%
Woodbridge	39%	41%	2%	12%	0.3%	6%
Frederick	45%	37%	2%	11%	0.9%	5%

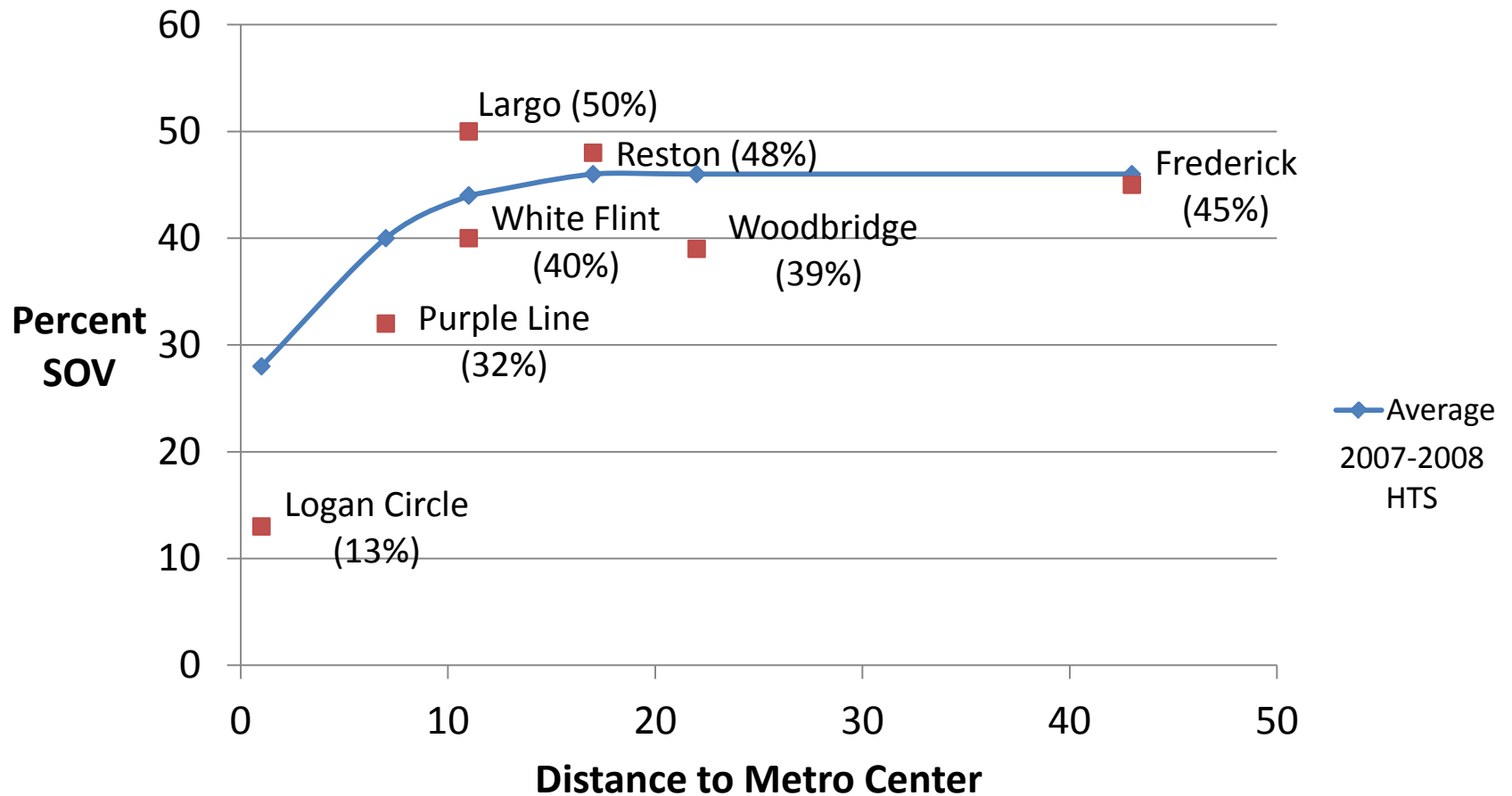


Commuting Trip Modal Shares

Area	Drive Alone (SOV)	Carpool (HOV2+)	Transit	Walk	Bike	Other
14 th Street	21%	4%	28%	33%	10.6%	2%
Crystal City	21%	4%	53%	19%	0.7%	2%
Purple Line	56%	17%	16%	4%	6.6%	1%
White Flint	61%	12%	20%	6%	0.2%	2%
Largo	70%	11%	13%	3%	2.8%	---
Reston	70%	17%	8%	3%	0.7%	2%
Woodbridge	76%	13%	8%	1%	0.3%	2%
Frederick	78%	12%	4%	4%	1.5%	---

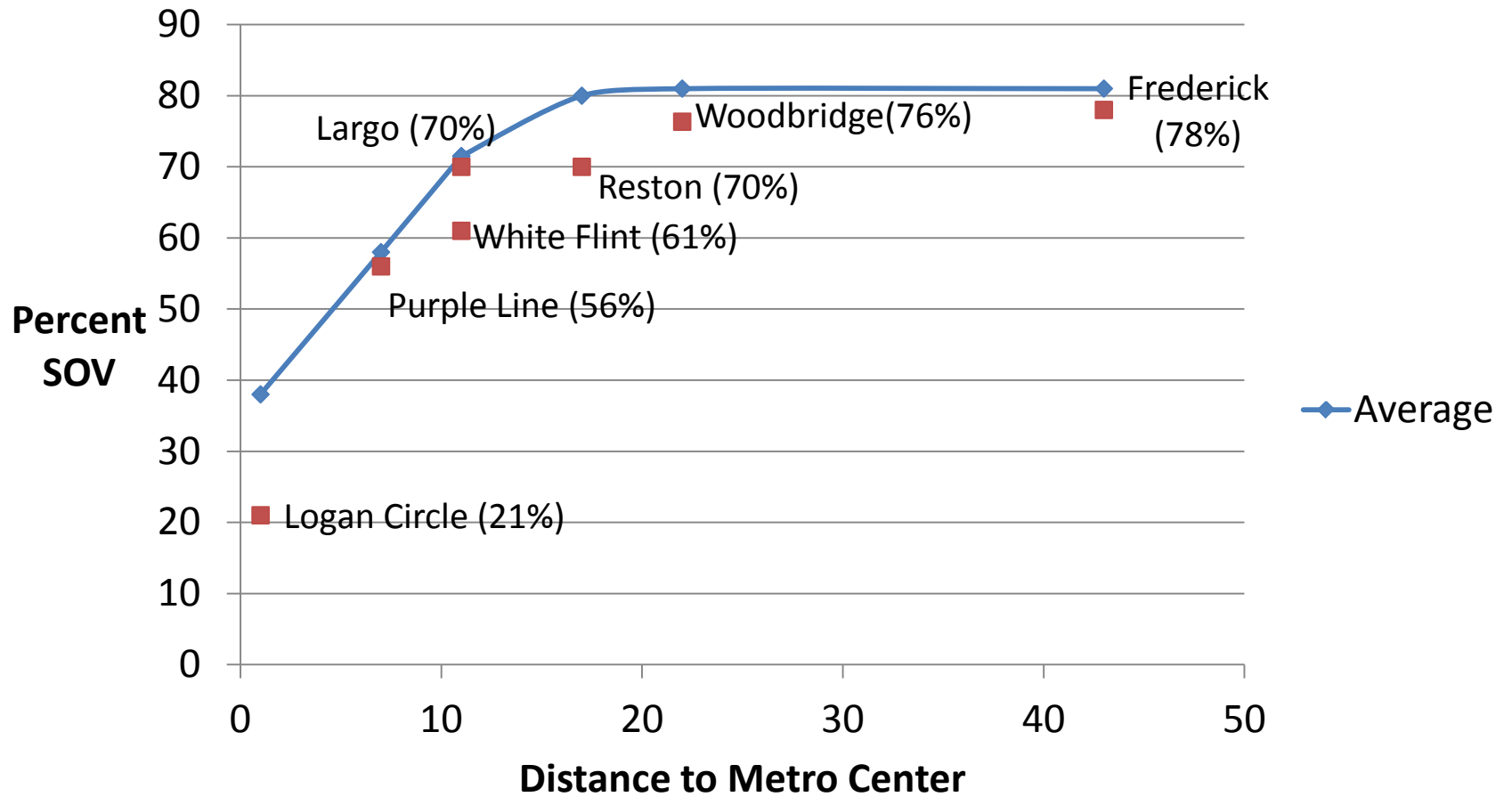


Percent SOV – All Weekday Trips



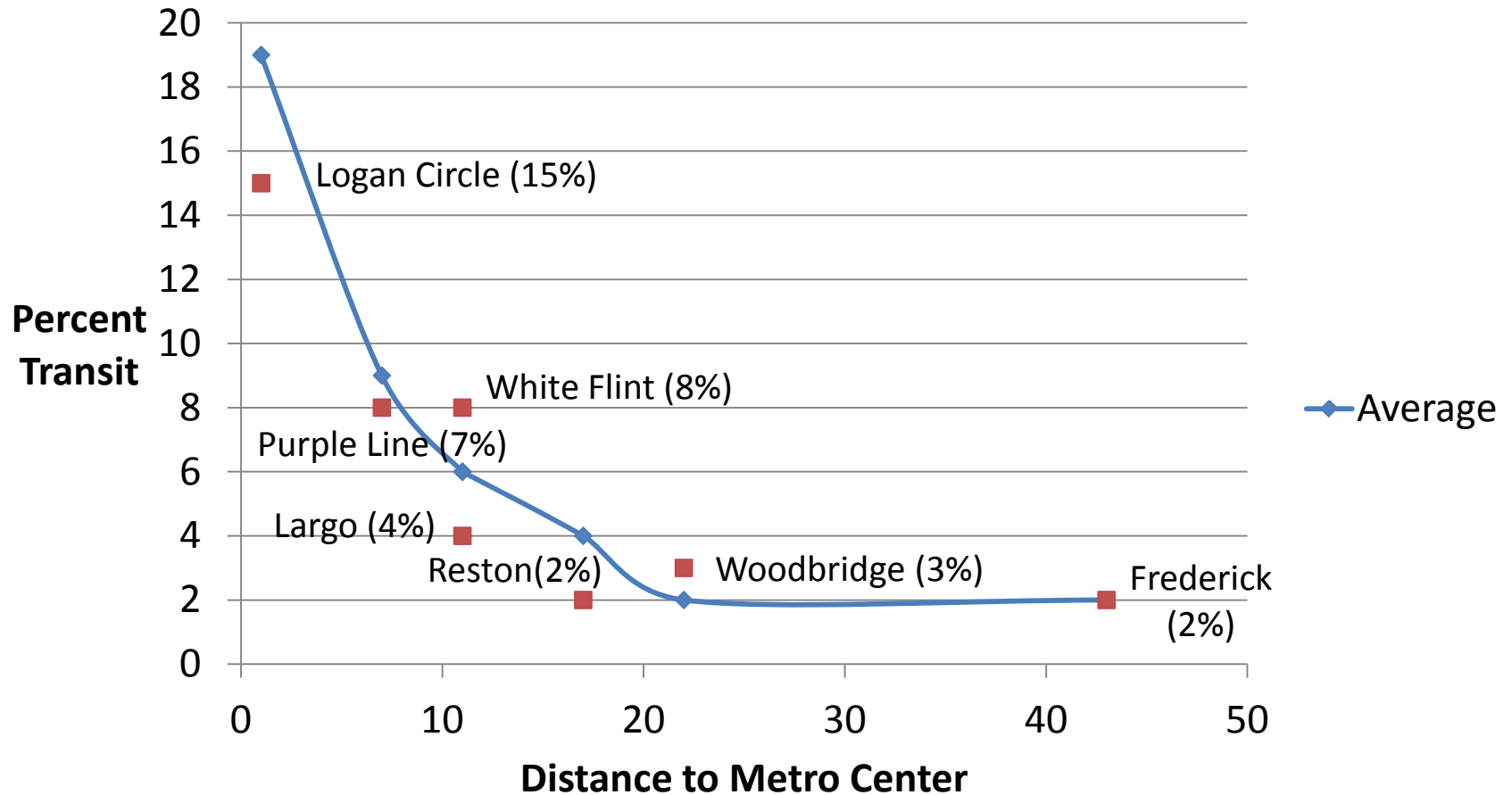


Percent SOV – Commuting Trips



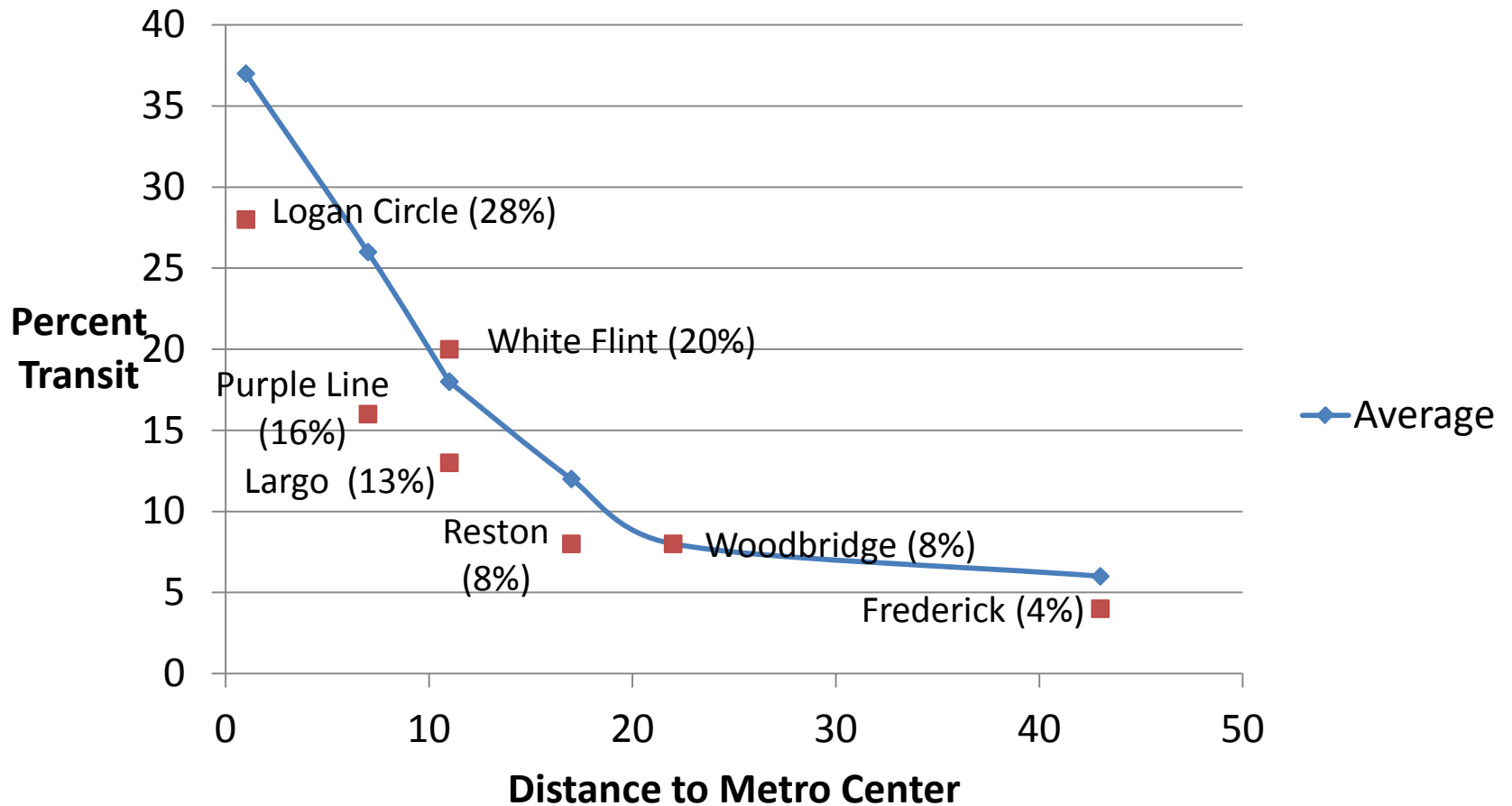


Percent Transit – All Weekday Trips



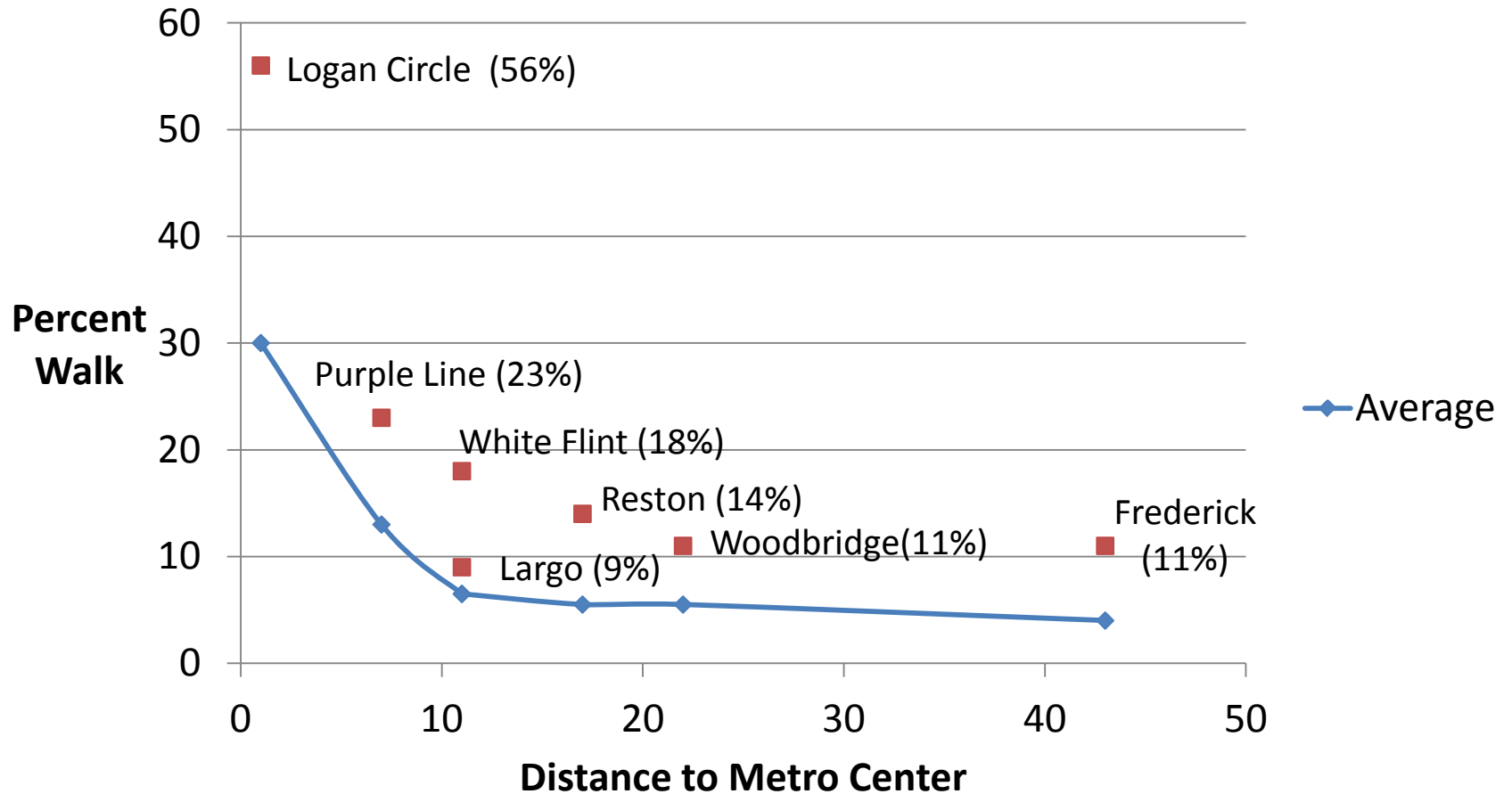


Percent Transit – Commuting Trips



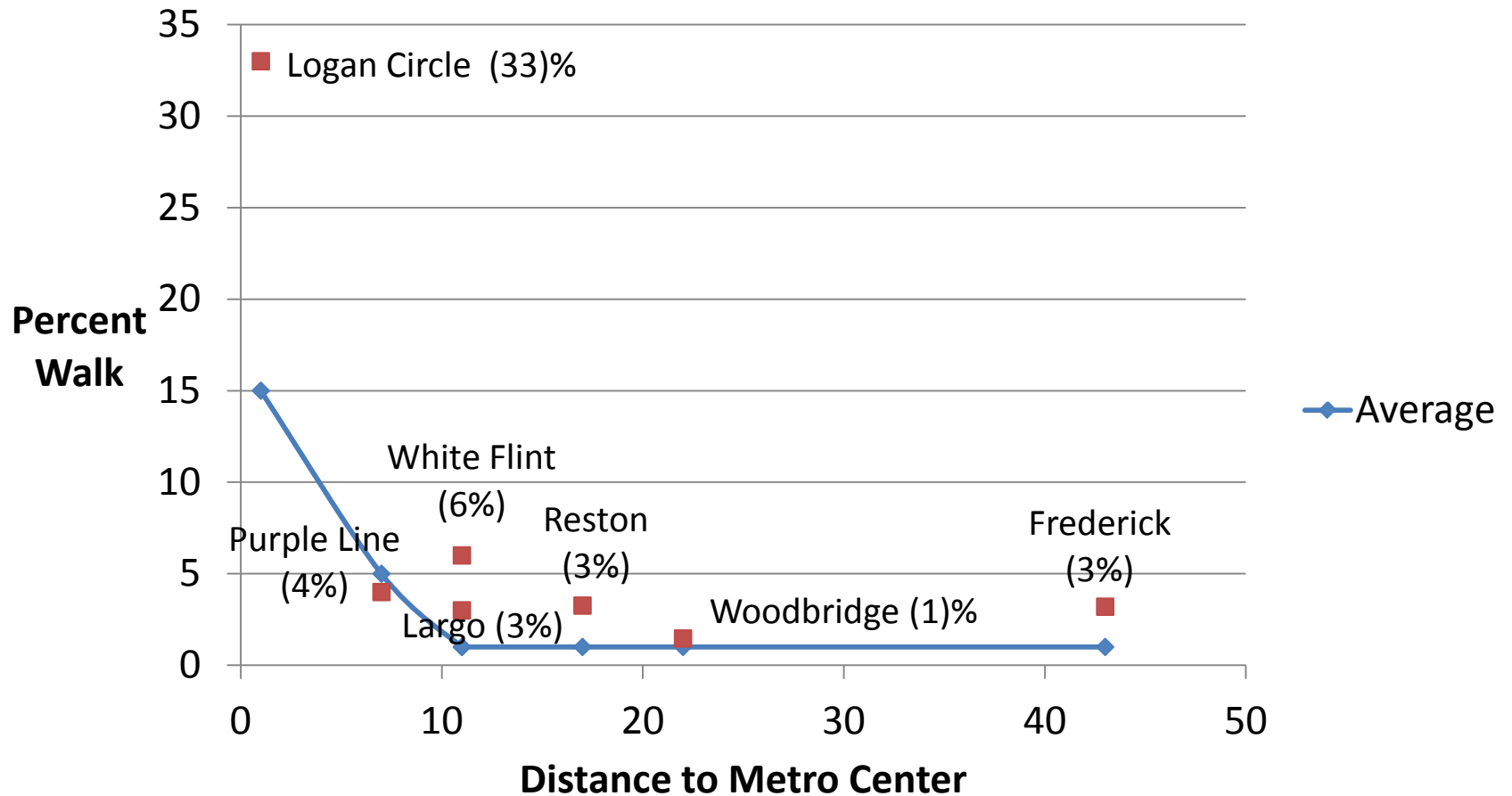


Percent Walk – All Weekday Trips





Percent Walk – Commuting Trips





What's Next?

- More Analysis of Survey Data
- Use/Non-Use of Transit Analysis
- Follow-on to CNT Housing and Transportation Study
- Additional Data Collection



Spring 2012 Data Collection

The seven areas now being surveyed are:

- Friendship Heights in the District of Columbia and Montgomery County, Maryland
- New York Avenue Corridor in the District of Columbia
- St. Charles Urbanized Area in Charles County, Maryland
- National Harbor in Prince George's County, Maryland
- Beauregard Corridor in the City of Alexandria, Virginia
- East Falls Church and West Falls Church Metrorail Station areas in Arlington County, the City of Falls Church and Fairfax County, Virginia
- The Dulles North Area in Loudoun County, Virginia



Fall 2012 Data Collection

The six areas to be surveyed in the fall of 2012 are:

- Federal Center/Southwest/Navy Yard in District of Columbia
- H Street NE Corridor in the District of Columbia
- Silver Spring in Montgomery County, Maryland
- US 1/Green Line in Prince George's County, Maryland
- City of Fairfax in Virginia
- City of Manassas in Virginia

(areas subject to further review and refinement)



Fall 2013 Data Collection?

Thinking ahead – additional areas to be surveyed in 2013:

- Tysons Corner in Fairfax County
- St Elizabeth/Anacostia in the District of Columbia
- Greenbelt in Prince George's County

(areas subject to further review and refinement)