



2007/2008 Household Travel Survey

**Presentation of Findings on Walk and Bike Travel
to the
Cooperative Forecasting Committee**

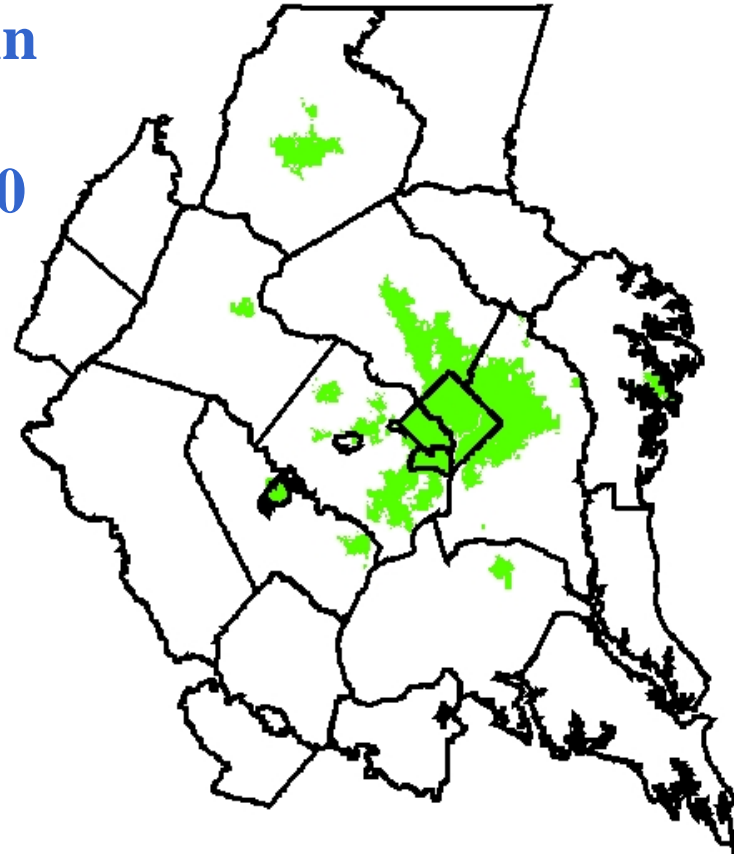
**By
Robert E. Griffiths
Clara Reschovsky**

**National Capital Region Transportation Planning Board
Metropolitan Washington Council of Governments**

July 7, 2009

Sampling Plan

- **11,000 Randomly Selected Households in TPB Region and adjacent areas (+3,500 Baltimore Region Samples)**
- **Ensure a sufficient number of samples in higher density, mixed use urban areas and Regional Activity Centers**
- **Address-based Sample**



Survey Interviewing

- **14-Months of Interviewing**
- **Interviews Conducted Between February, 2007 and March 2008.**
- **Data Collected**
 - 11,578 Household Records
 - 25,515 Person Records
 - 16,678 Vehicle Records
 - 132,383 Trip Records

Edit Checks

- **Walk Trips**

- Check trips > 3 miles and speeds > 6MPH

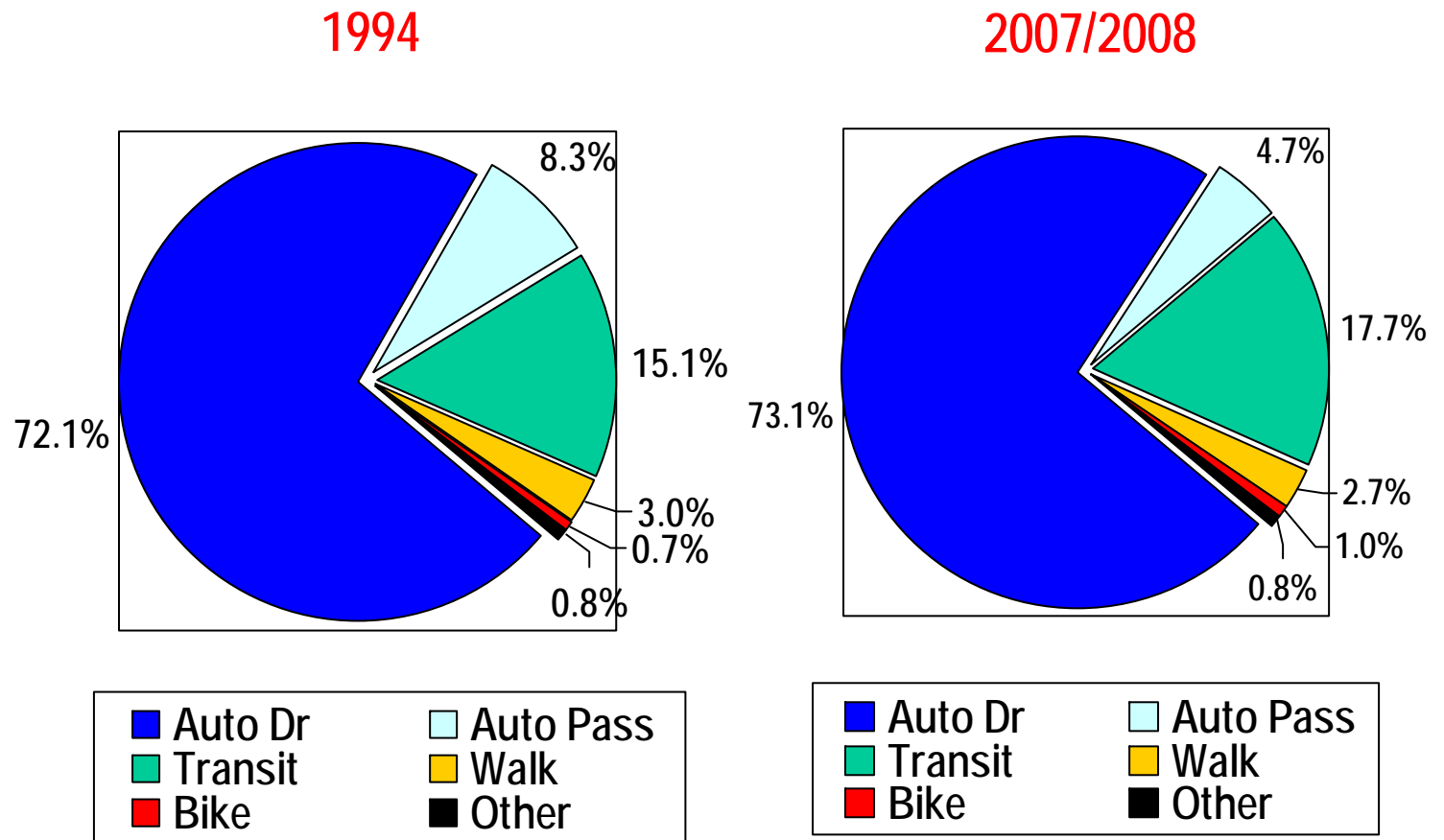
- **Bike Trips**

- Check trips longer than 17 miles and shorter than .4 miles

- Check trips with average speed over 15 MPH

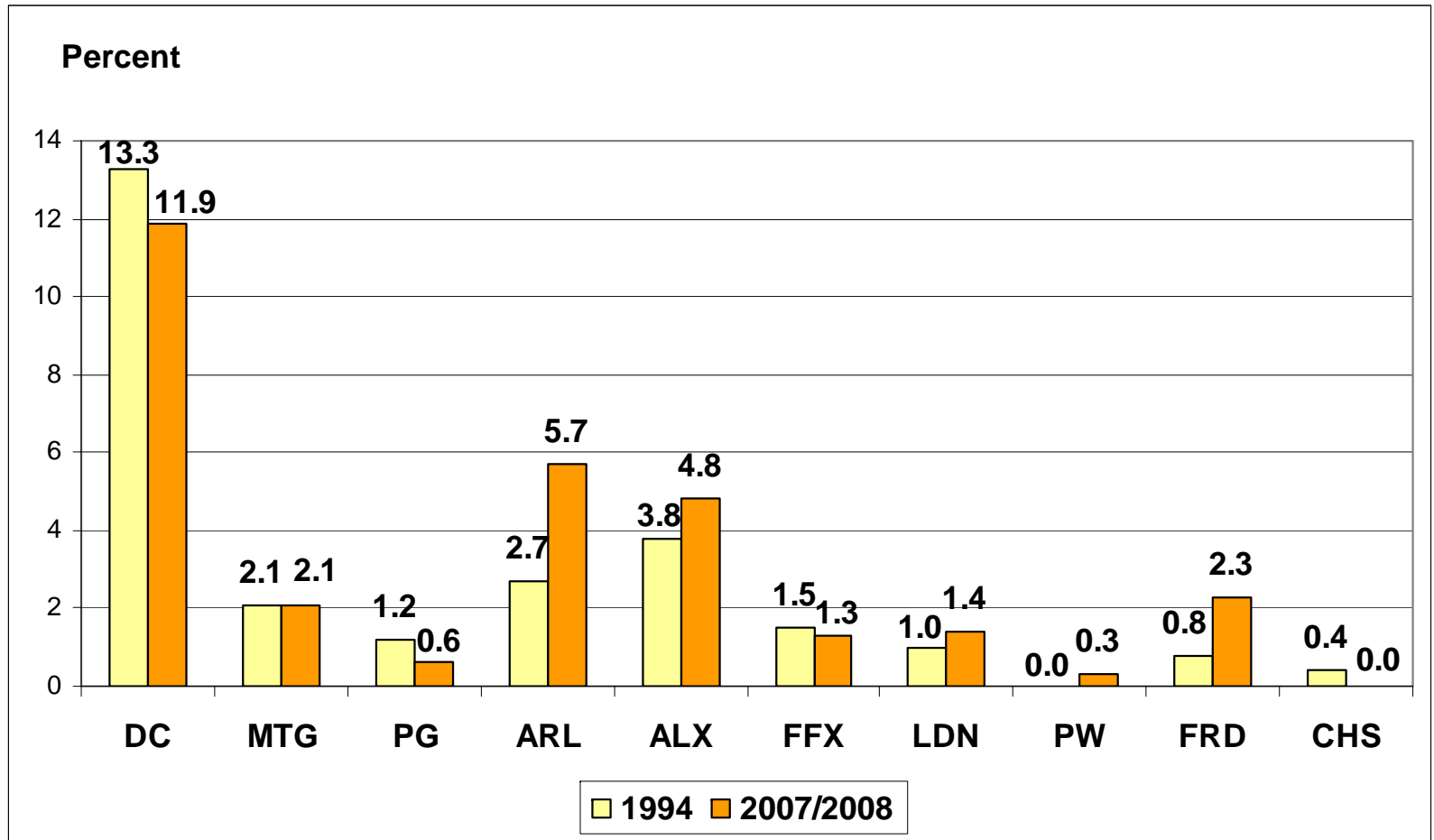
- **Short bike trips attributable to trip chaining**

Change in Commuting Modal Shares (1994-2007/2008)



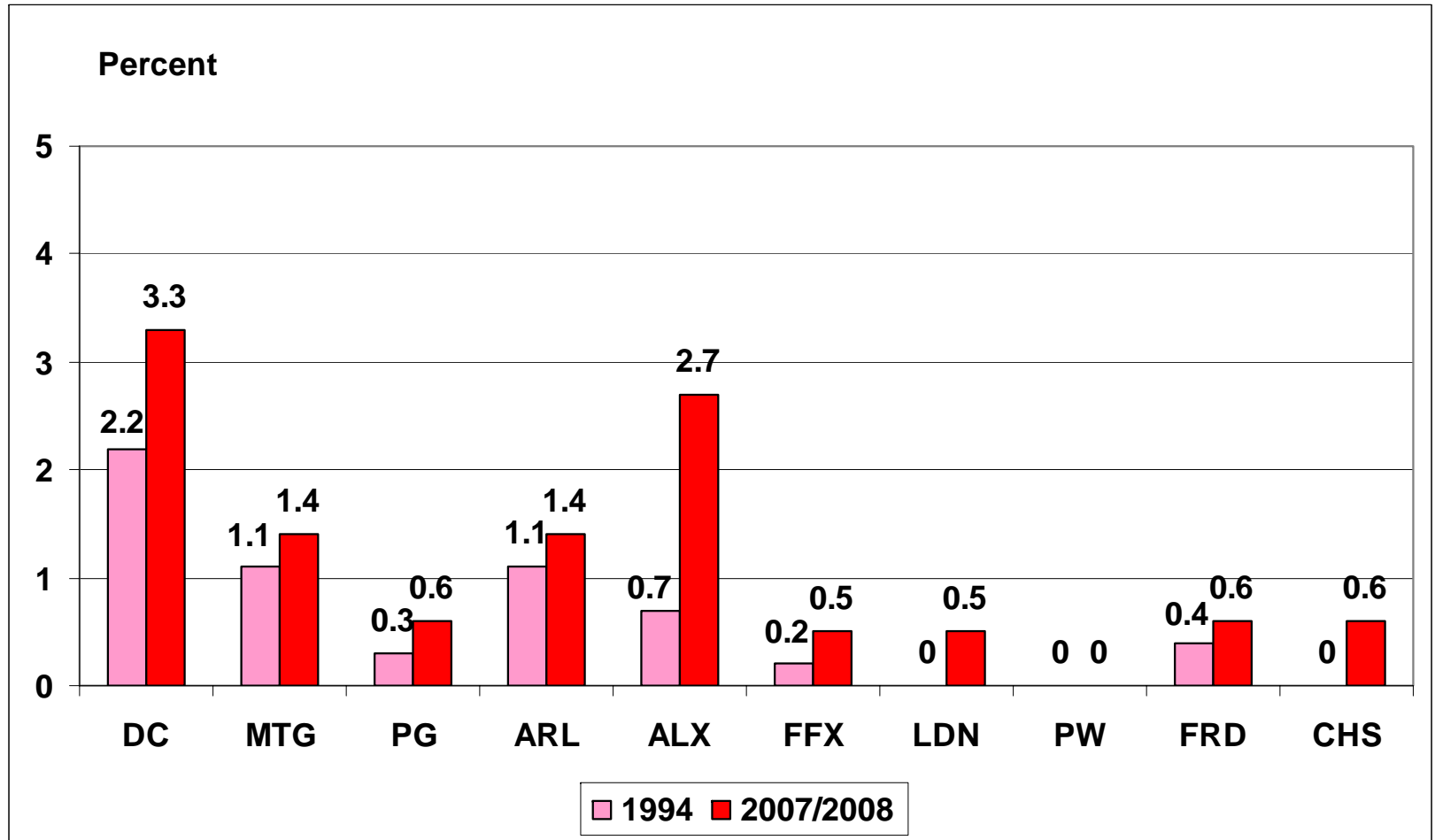
Source: 1994 and 2007/2008 TPB Household Travel Survey

Walk Commuting Share by Jurisdiction of Residence (1994 – 2007/2008)



Source: 1994 and 2007/2008 TPB Household Travel Survey

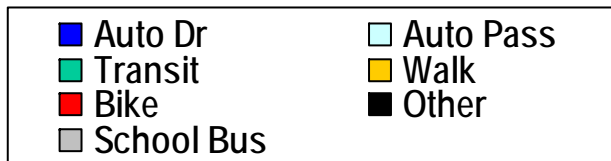
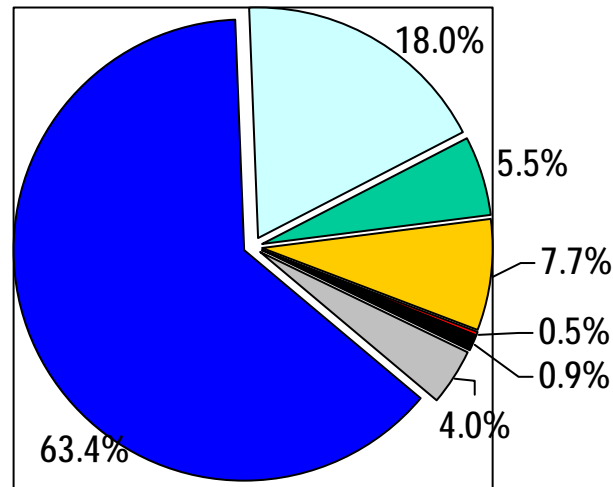
Bike Commuting Share by Jurisdiction of Residence (1994 – 2007/2008)



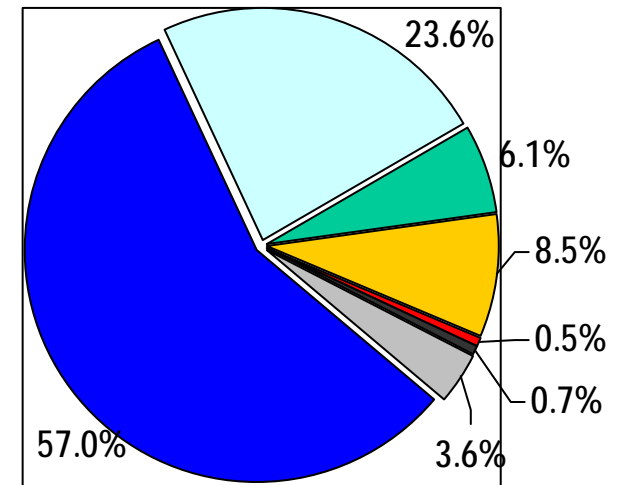
Source: 1994 and 2007/2008 TPB Household Travel Survey

Change in Daily Trip Modal Shares (1994-2007/2008)

1994

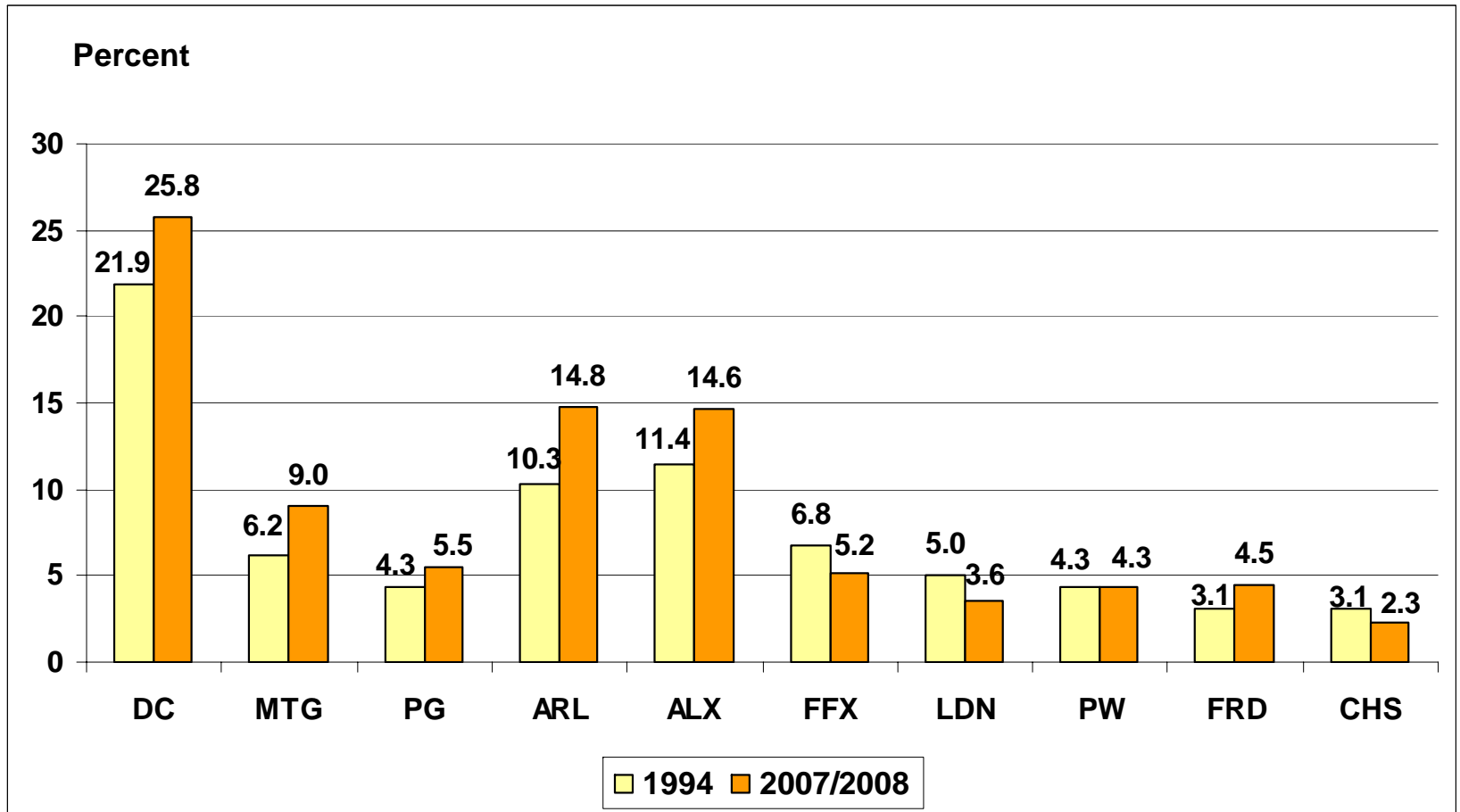


2007/2008



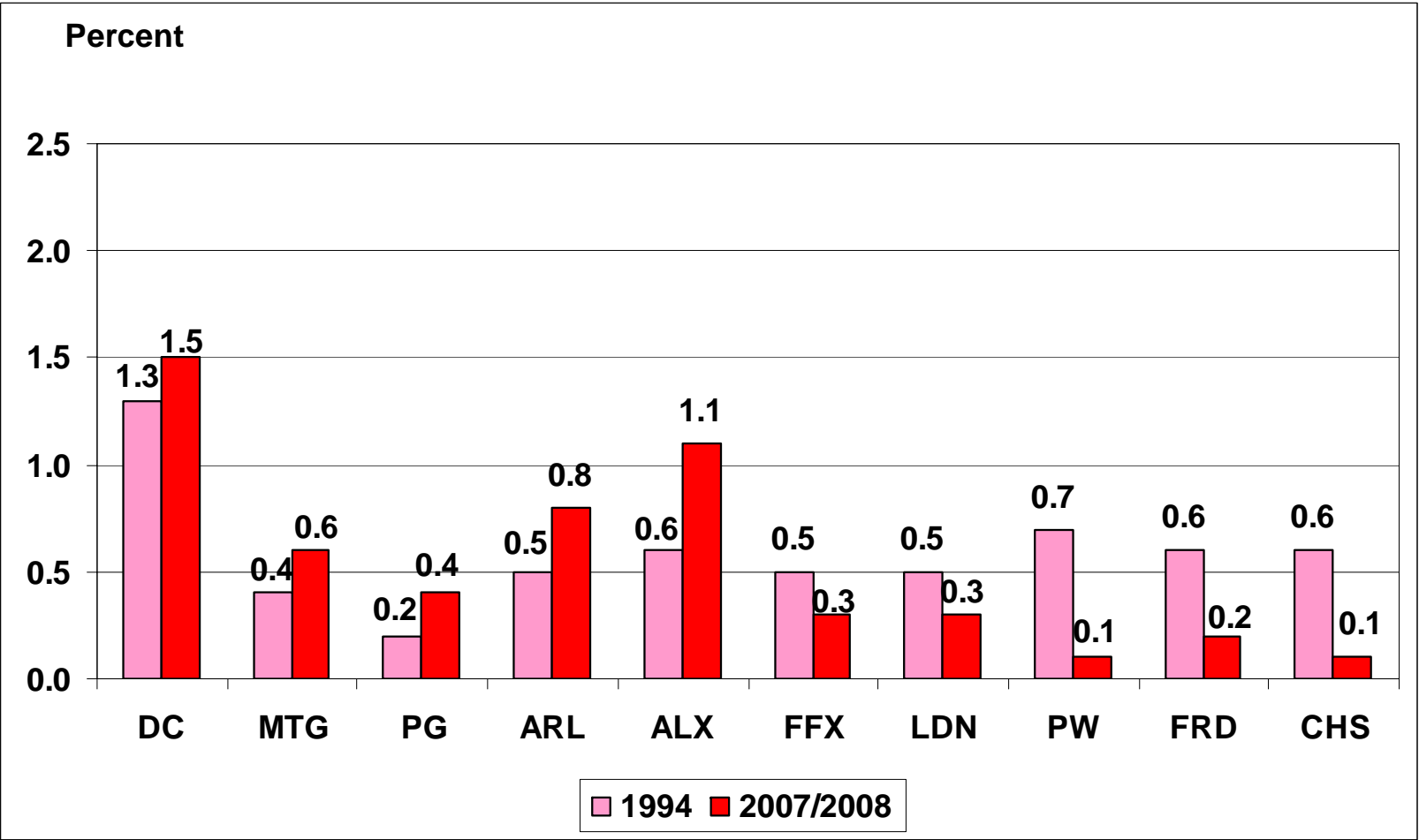
Source: 1994 and 2007/2008 TPB Household Travel Survey

Daily Walk Trip Share by Jurisdiction of Residence (1994 – 2007/2008)



Source: 1994 and 2007/2008 TPB Household Travel Survey

Daily Bike Trip Share by Jurisdiction of Residence (1994 – 2007/2008)



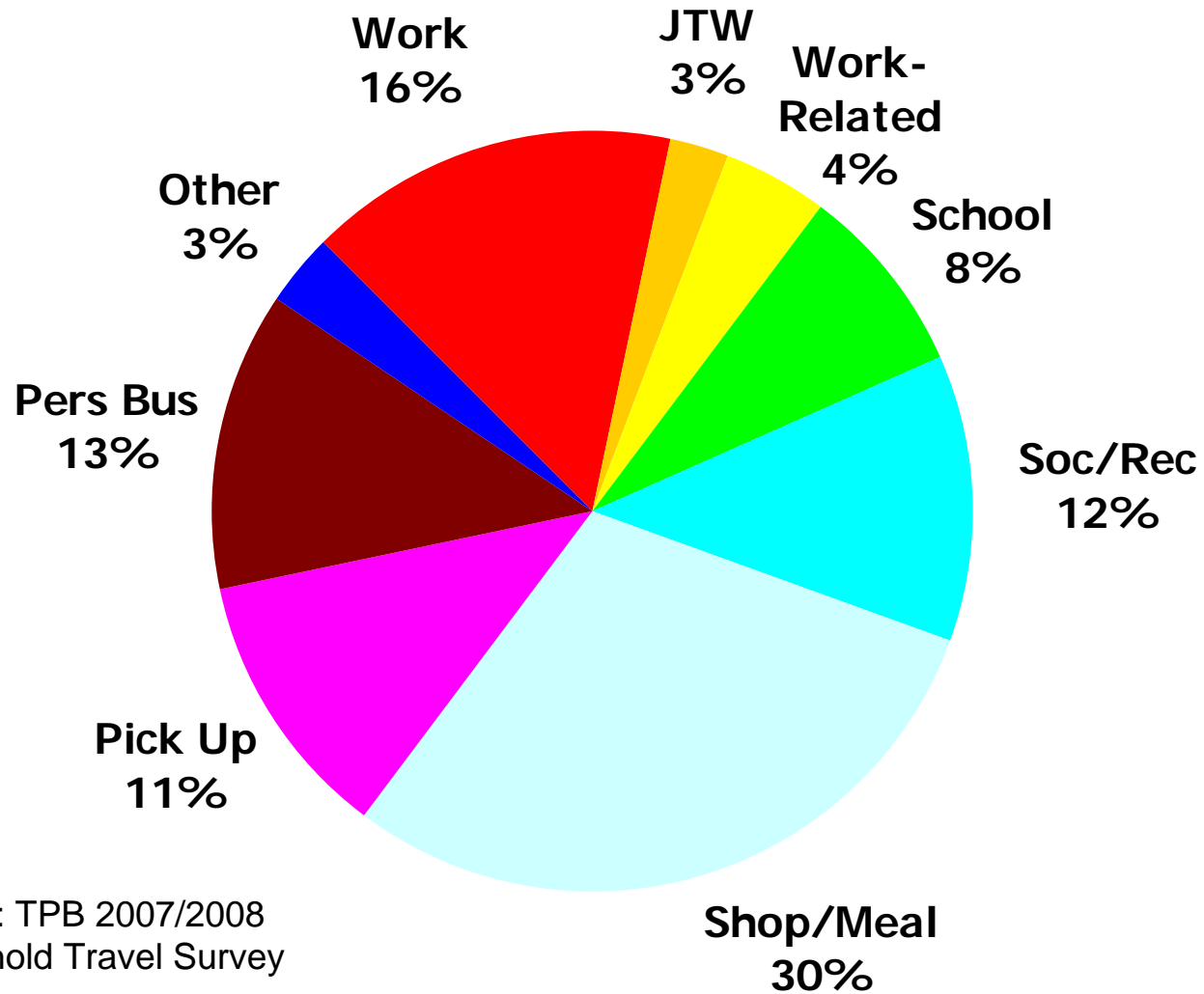
Source: 1994 and 2007/2008 TPB Household Travel Survey

Trip Length Distribution by Mode (Distance in Miles)

Mode	25%	Median	75%	90%
Auto D	1.5	4.0	9.7	18.7
Auto P	1.2	2.8	6.4	12.9
Transit	3.5	6.9	14.1	23.4
School Bus	1.2	2.3	4.6	8.2
Walk	0.1	0.3	0.5	0.9
Bike	0.8	1.5	4.1	7.3

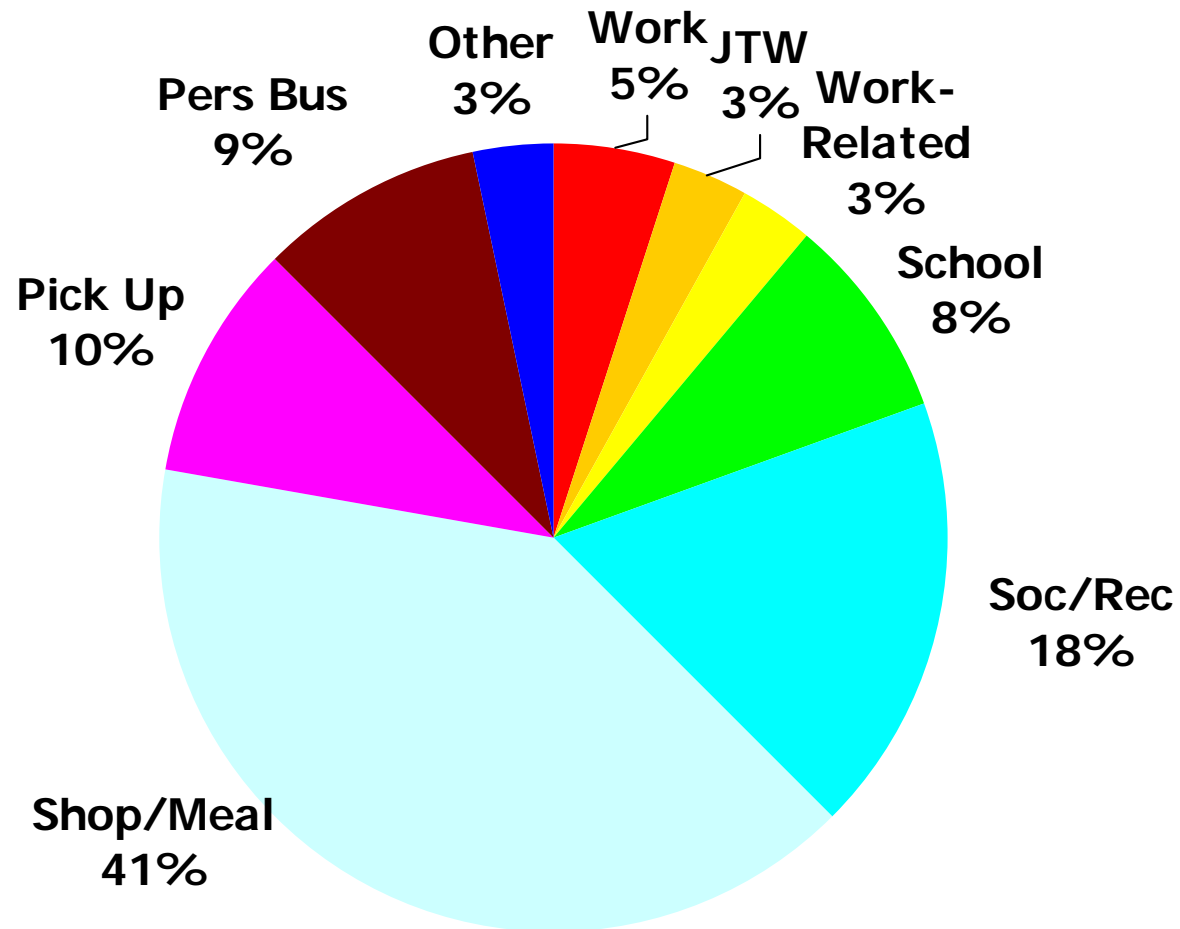
Source: TPB 2007/2008 Household Travel Survey

Daily Trips By Purpose (All Modes)



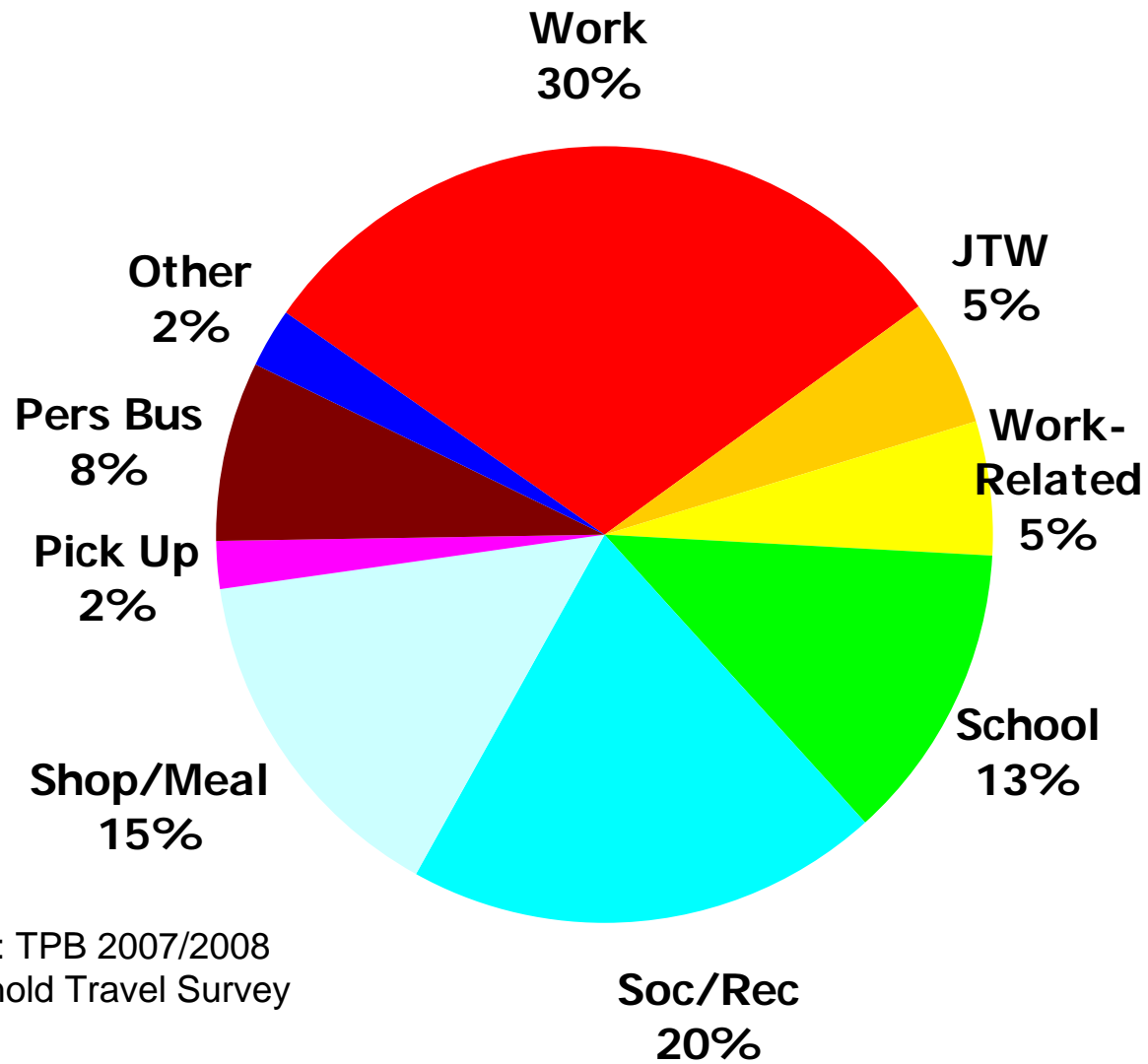
Source: TPB 2007/2008
Household Travel Survey

Daily Walk Trips By Purpose



Source: TPB 2007/2008
Household Travel Survey

Daily Bike By Purpose



Source: TPB 2007/2008
Household Travel Survey

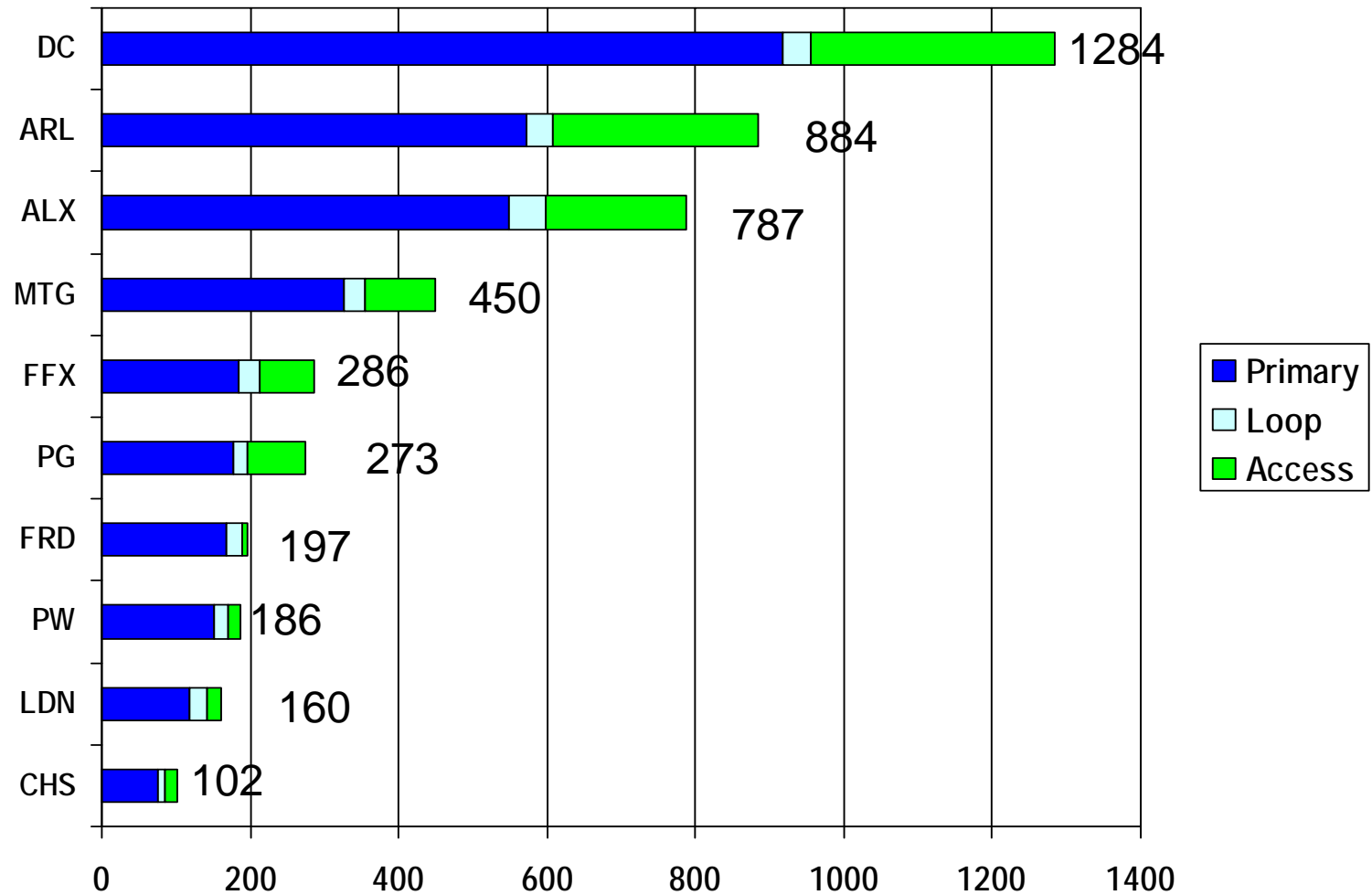
Total Weekday Walk and Bike Trips by Type (in Thousands)

Type of Trip	Walk	Bike
Primary Travel Mode	1,370.0	87.5
“Loop” Trips	123.8	6.9
Metrorail Access	464.3	4.3
Metrorail Egress	469.0	4.0
Total	2,427.1	102.7

Source: TPB 2007/2008 Household Travel Survey

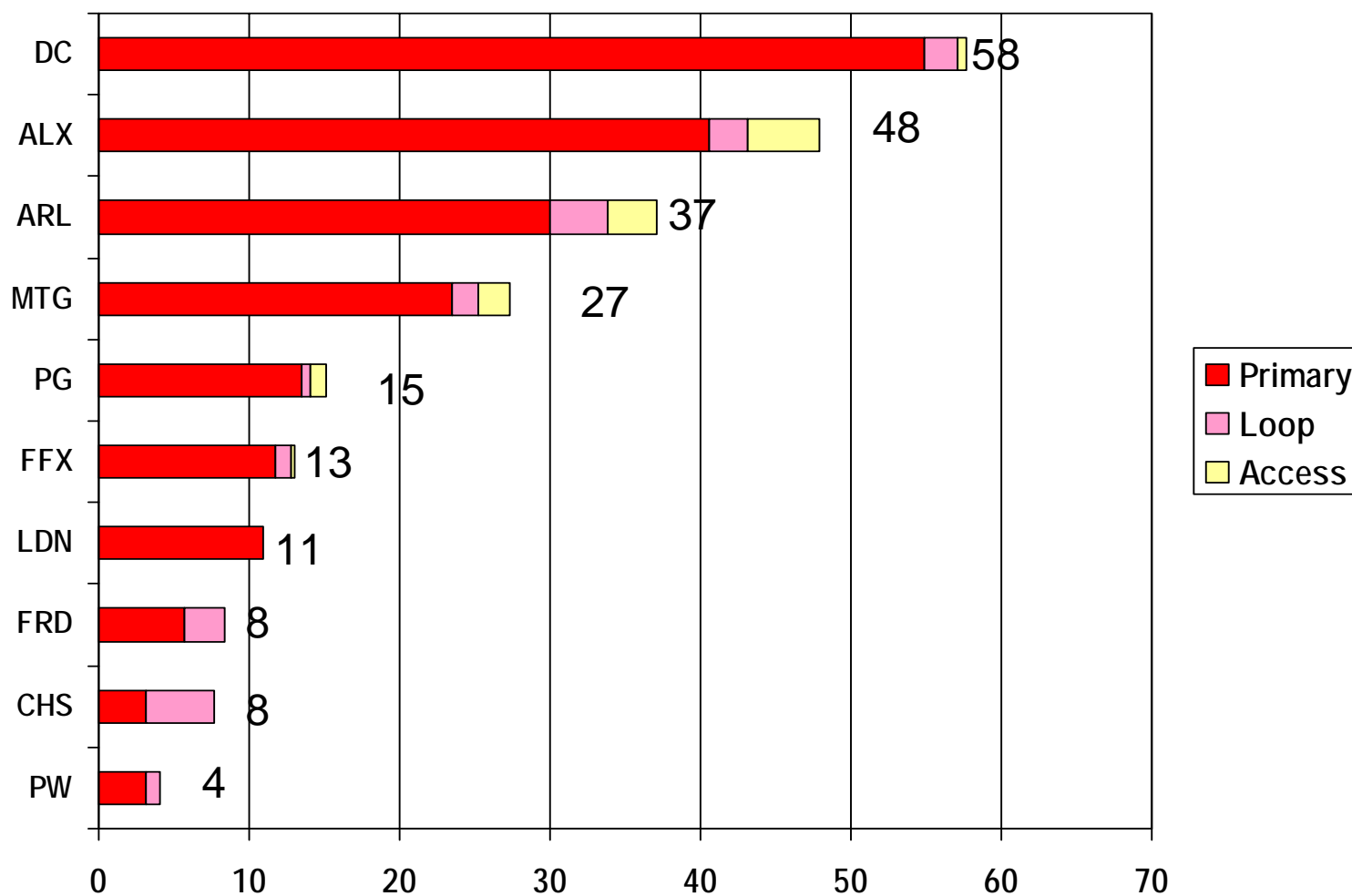
Weekday Walk Trips by Jurisdiction of Residence and Type Per 1,000 Population in Households

Source: TPB 2007/2008 Household Travel Survey



Weekday Bike Trips by Jurisdiction of Residence and Type Per 1,000 Population in Households

Source: TPB 2007/2008 Household Travel Survey



Importance of Regional Activity Center/Clusters for Walk, Bike and Transit Travel

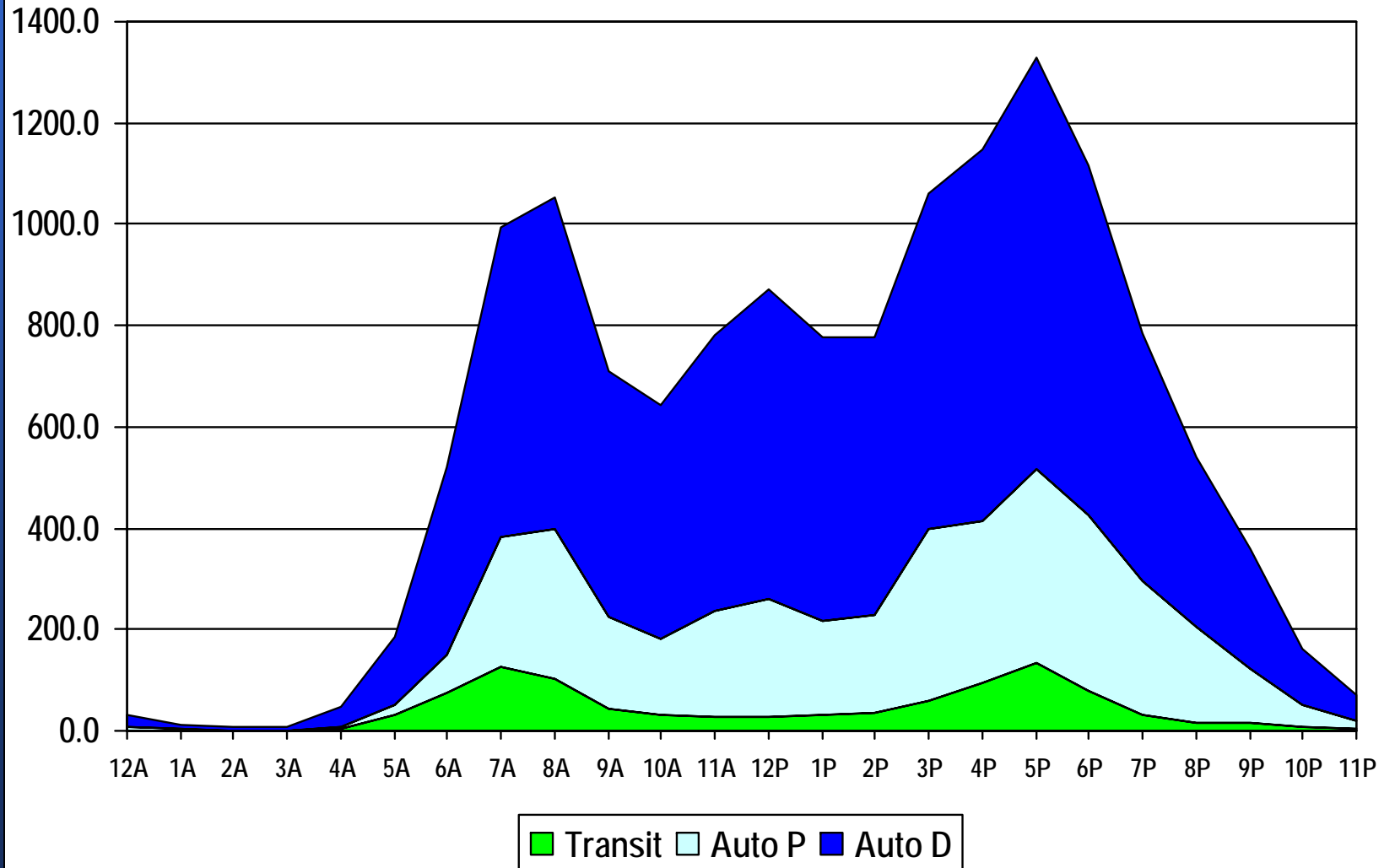
- **37% of All Weekday Trips Begin or End in a Regional Activity Center/Cluster**
- **65% of Transit Trips Begin or End in a Regional Activity Center/Cluster**
- **63% of Walk Trips Begin or End in a Regional Activity Center/Cluster**
- **58% of Bicycle Trips Begin or End in a Regional Activity Center/Cluster**



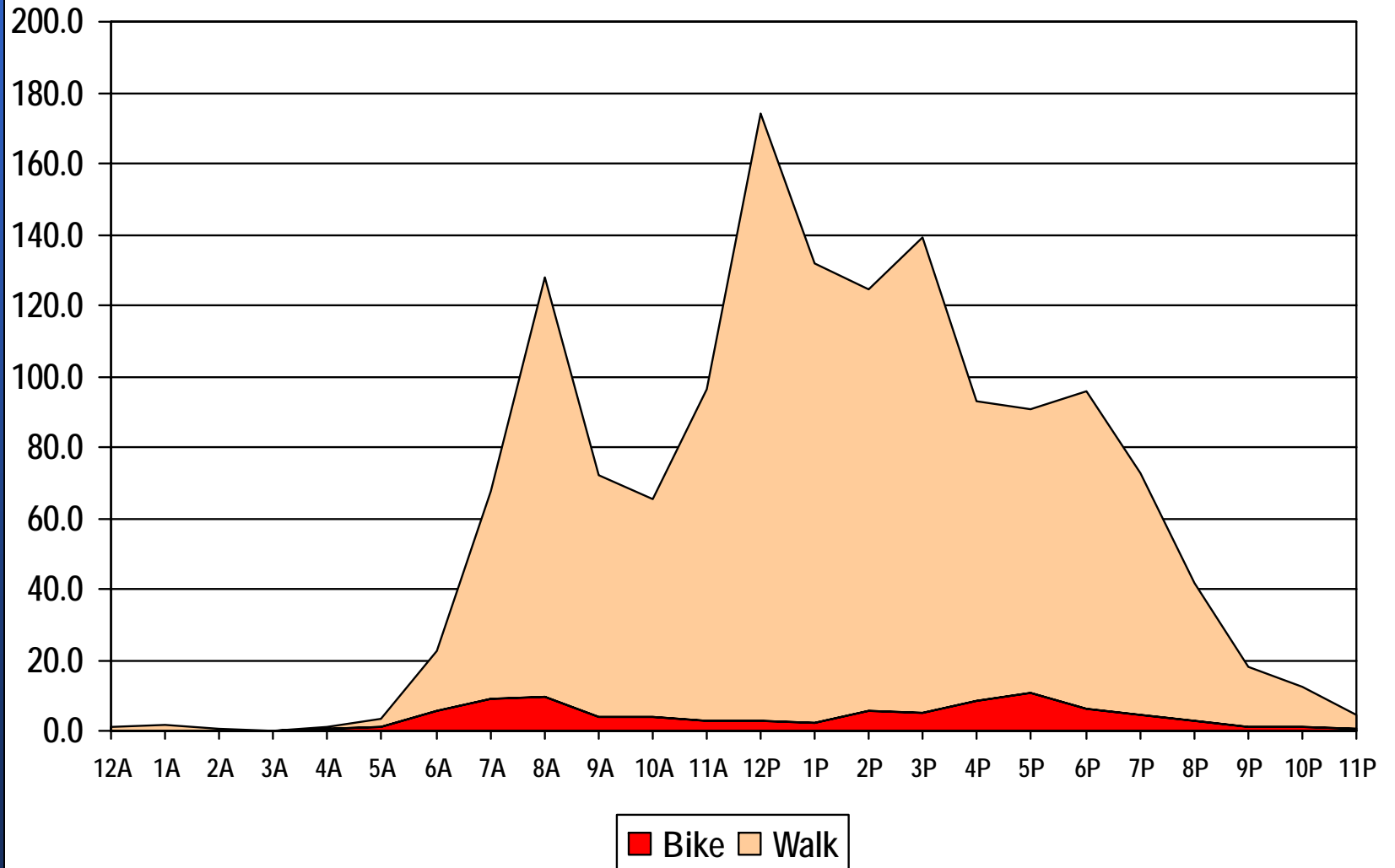
Major Findings for Regional Activity Center/Clusters

- **#1 – Smaller Household Sizes**
- **#2 – Fewer Workers per Household**
- **#3 – Fewer Vehicles per Household**
- **#4 – More Walking and Transit Use**
- **#5 – Less Auto Travel and Fewer Vehicle Miles of Travel per Household**

Weekday Auto and Transit Trips By Time of Day (in Thousands)



Weekday Walk and Bike Trips By Time of Day (in Thousands)



Weekday Walk and Bike Trips by Time of Day in the Selected Activity Centers (in Thousands)

