If You Lived Here
You’d Be Driving Less by Now
Arlington County Commuter Services

TDM for Site Plans

Employer/Multi-Family/Developer Services

Direct Outreach, Information, and Sales

Bikeshare
Source: NACTO Urban Street Design Guide; http://www.nacto.org/usdg/
16 residential buildings = 7 apartments, 1 extended-stay hotel, and 8 condos

Study Building Locations

Data Collection methods:
- Voluntary resident survey
- 24 x 7 vehicle trip and parking data
- Field survey Property manager interviews

Legend:
- Metro Stations
- Study Projects
- Street Network
- Quarter Mile Radius from Study Projects
- Census Blocks included in Study Statistics

Source: Planning Research and Analysis Team, Planning Division, Department of Community Planning, Housing & Development, March 2013.
Commute Mode Shares Compared

Source: 2010 Metropolitan Washington Council of Governments State of the Commute Survey; Resident Surveys
Sample Sizes: Region, n = 6,050; Live in Arlington, n = 551; Study Buildings, n = 1,283
Non-Work Trip Mode Share

**Share of all Non-Work Trips**

<table>
<thead>
<tr>
<th>Mode</th>
<th>Study Residents</th>
<th>Arlington Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive alone</td>
<td>40%</td>
<td>40%</td>
</tr>
<tr>
<td>Transit</td>
<td>14%</td>
<td>8%</td>
</tr>
<tr>
<td>Bike/Walk</td>
<td>25%</td>
<td>16%</td>
</tr>
<tr>
<td>Drive / ride with others</td>
<td>21%</td>
<td>36%</td>
</tr>
</tbody>
</table>

**Source:** Resident Surveys; 2009 Arlington Resident Survey
Daily Trips per Occupied Unit (Mon-Thurs) and Neighborhood Intensity

(Residents + Employees) / Acre within 1/4 Mile of Building

Trips per Occupied Unit

(Residents + Employees) / Acre within 1/4 Mile of Building
Observed Peak-Hour Vehicle Trip-Generation Rates Compared with ITE Standard Rates, Function of Distance from Metro

Share of ITE Standard (Percent)

- Weekday AM
- Weekday PM
- Saturday
- Sunday

< 0.2 miles from Metrorail
> 0.2 miles from Metrorail; in Metro Corridor
Outside Metro Corridor
Garage Utilization by Distance to Metro

- **Maximum**:
  - Less than 0.2 miles from Metrorail: 80%
  - Greater than 0.2 miles from Metrorail; in Metro Corridor: 81%
  - Outside Metro Corridor: 82%

- **Minimum**:
  - Less than 0.2 miles from Metrorail: 40%
  - Greater than 0.2 miles from Metrorail; in Metro Corridor: 37%
  - Outside Metro Corridor: 20%
Survey Question Q26  Listed below are travel services or benefits that might be available at the building or in the complex where you live…. For each service or benefit, indicate … if the service: is available and you have used it, is available and you have not used it, is not available – Transit schedule or route information; Shuttle to bus/train; Discounted transit pass; Transit route/schedule info.
Q26 Listed below are travel services or benefits that might be available at the building or in the complex where you live. For each service or benefit, indicate if the service: is available and you have used it, is available and you have not used it, is not available – Bicycle or walking information; Secure parking for bicycles.
Q25 Listed below are travel services or benefits that might be available at your work. For each service or benefit, indicate … if the service: is available and you have used it, is available and you have not used it, is not available.
Results from Trip-Generation Studies Compared

Results from Trip-Generation Studies Compared, Buildings Closer than One Mile to Rail

Takeaways

Our Findings
• Vehicle-trip generation lower than ITE predictions.
• Residents use transit, bike, and walk more than other Arlingtonians and regional residents.
• Work-based TDM and land use influence commute mode choice, while residential TDM influences non-work trips.

Implications
• Planning standards are important, but they might over-estimate vehicle trips and parking needs for your development
• TDM mandates help with data collection
• Join the effort to make better standards.
Thank You

Contact me, Stephen Crim, at stephen.crim@mobilitylab.org

Visit our web site: http://www.mobilitylab.org
Twitter: @mobilitylabteam
Facebook: https://www.facebook.com/MobilityLabTeam
Meetup: http://www.meetup.com/MobilityLab/
Resources


• DDOT Study: [http://tiny.cc/DDOT-trip-gen](http://tiny.cc/DDOT-trip-gen)

Appendix: Building Sample Characteristics

• 3,700 occupied dwelling units (96%)
• 4,840 total parking spaces, all types
• 1.04 – 1.55 residential parking spaces per unit (not including visitor/retail spaces)
• Over 38,000 trips counted
• 11 sites within Metrorail corridors, 5 outside
• 3 sites outside the Metrorail corridors offer shuttle to Metro or ongoing transit subsidy
• East Falls Church is considered outside Metrorail corridors for purposes of this study