

# Bicycle and Pedestrian Plan for the National Capital Region



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National Capital Region Transportation Planning Board



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## **Executive Summary**





## **Overview**

This *Bicycle and Pedestrian Plan for the National Capital Region* identifies the capital improvements, studies, actions, and strategies that the region proposes to carry out by 2040 for major bicycle and pedestrian facilities. This plan is an update to the 2006 *Bicycle and Pedestrian Plan for the National Capital Region*, which was the first all-new regional plan specifically for bicycle facilities since 1995, and the first-ever regional pedestrian facilities plan.

The National Capital Region Transportation Planning Board (TPB), composed of governments and agencies from around metropolitan Washington, has developed this plan with the support of its Bicycle and Pedestrian Subcommittee. The plan incorporates the goals, targets, and performance indicators for walking and bicycling from the *TPB Vision* (1998) and the Council of Governments' *Region Forward 2050* (2010) plans.

In addition to building upon the *TPB Vision*, the *Bicycle and Pedestrian Plan for the National Capital Region* draws on and has been shaped by a number of regional, state, and local policy statements, plans, and studies. These include the TPB's regularly updated Constrained Long Range Plan (CLRP) and Transportation Improvement Program (TIP); federal and state guidance on bicycle and pedestrian facilities; and a wealth of state and local bicycle and pedestrian plans from around the region.

The *Bicycle and Pedestrian Plan for the National Capital Region* is intended to be advisory to the CLRP and TIP, and to stand as a resource for planners and the public. In contrast to the CLRP, the *Bicycle and Pedestrian Plan* includes both funded and unfunded projects – projects in this plan may not yet have funding identified to support their implementation.

## **Planning Context**

A number of federal, state, and local activities, as noted above, provide the planning context (Chapter 1) for this document. At all levels the trend is to require or strongly encourage the routine inclusion of pedestrian and bicycle facilities in all transportation, a policy sometimes known as “complete streets”.

Jurisdictions and agencies around the region maintain active bicycle and pedestrian planning and coordination programs. Within this context, the TPB incorporates bicycle and pedestrian considerations into overall regional transportation planning, bike-to-work components of the Commuter Connections program, the Transportation-Land Use

Connections program, and the region's Access for All Committee concerning minority, low-income, and disabled communities. The Transportation Planning Board and the Council of Governments support bicycling and walking and their health, community, pollution reduction, and congestion reduction benefits for the region.

### **Bicycling and Walking in the National Capital Region**

The state of bicycling and walking in the Washington region (Chapter 2) includes success stories, challenges, and opportunities for improvement. Data from the 2007/2008 Household Travel Survey, the U.S. Census, surveys, and other sources provide an understanding of where bicycling and walking are found throughout the region, as well as who is walking and bicycling. These data may point to opportunities for increasing these activities, and support the need to consider bicycling and walking in overall roadway and transit planning and engineering.

### **Safety**

Bicycle and pedestrian safety (Chapter 3) is a key challenge for the region. The plan describes the scope of the safety problem, its geographic and demographic distribution across the region, and the legal rights and responsibilities of drivers, pedestrians, and bicyclists. Unfortunately, bicycle and pedestrian safety issues are found throughout the region. The region and member agencies are actively pursuing a number of engineering, enforcement, and educational strategies to reduce deaths and injuries.

### **Existing Facilities**

The Washington region benefits from a number of popular bicycle and pedestrian facilities in place in our communities (Chapter 4). The region's transit agencies have also worked to provide access and accommodation of bicycling and walking to and on their systems. A goal of this plan is to complement and augment the existing system of facilities.

### **Goals and Indicators**

*Region Forward 2050* and the TPB's *Vision of 1998* both encourage walking and bicycling. *Region Forward 2050* calls for more rapid implementation of the projects in

this plan, increased walking and bicycling, and reduced pedestrian and bicyclist fatalities, as well as setting targets and indicators which will measure progress towards the regional goals. It also calls for specific targets and indicators which will measure progress towards the plan goals. Chapter 5 incorporates the goals in the *Vision* and *Region Forward 2050* relevant to walking and bicycling, as well as the corresponding targets and indicators from *Region Forward*. It also suggests additional indicators which could be used to measure progress.

### **Best Practices**

Convenient and safe bicycle and pedestrian access is a key goal of the TPB's *Vision* and the Council of Governments' *Region Forward 2050* plans. To help achieve this, the Bicycle and Pedestrian Subcommittee developed a set of recommended best practices (Chapter 6) for the design and implementation of bicycle and pedestrian facilities, as well as for the incorporation of bicycling and walking considerations into overall roadway and transit design. Best practices are based upon national and state laws and guidelines.

### **Planned Bicycle and Pedestrian Facilities and Improvements**

Improvements included on the plan's list of regional bicycle and pedestrian projects (overview in Chapter 7 and the full listing in Appendix A) were identified, submitted and reviewed by agency staffs of TPB member jurisdictions. The plan includes 336 bicycle and pedestrian facility improvement projects from across the region.

If every project in the plan were implemented, in 2040 the region will have added over 450 miles of bicycle lanes, over 630 miles of shared-use paths, hundreds of miles of signed bicycle routes (signage without additional construction), more than 80 pedestrian intersection improvements, and ten pedestrian/bicycle bridges or tunnels. A new bicycle and pedestrian crossing over the Potomac would be created, at the American Legion Bridge, and bridges over the Anacostia River would be improved for pedestrians and bicyclists. In addition, 21 major streetscaping projects would improve pedestrian and bicycle access and amenities in DC, Ballston-Rosslyn, Columbia Pike, Tysons Corner and other locations.

If it implements the projects in this plan, by 2040 the region will have over 1700 miles of bike lanes and multi-use paths, more than three times the current total.

### **Progress since the 2006 Bicycle and Pedestrian Plan**

Seventy-three projects from the 2006 Bicycle and Pedestrian Plan have been completed, including the Woodrow Wilson Bridge Trail, the DC Bike Station at Union Station, and the College Park Trolley trail. The region added 53 miles of multiuse path, and 35 miles of bike lane. This does not include projects that have been partially completed, or any privately provided facilities, or projects such as sidewalk retrofits that were too small to be included in a regional plan.

The Washington region has become a national leader in innovative policies and designs, with the District of Columbia becoming the first city in the country to implement a [bike sharing](#) (public self-service bicycle rental) program.

### **Costs**

Total estimated cost of projects in the draft plan is about \$1 billion (2010 dollars). For projects without an agency-submitted estimate, or in which the project appeared to be part of a larger transportation project, cost was imputed on a mileage and project type basis. Cost estimates should be considered as order-of-magnitude and in most cases do not reflect engineering-level estimates.

### **On-Line Resources**

Development of the *Bicycle and Pedestrian Plan for the National Capital Region* has benefited from an on-line plan project database, a resource separate from the printed document. Bicycle and Pedestrian Subcommittee members were able to view, enter, and edit their project listings on-line. This on-line database will facilitate keeping the regional list accurate and up-to-date, and will facilitate integration of information from this plan into the region's *Constrained Long-Range Plan* and Transportation Improvement Program as necessary. A public access version of this on-line version of this database can be found at <http://www.mwcog.org/bikepedplan/>.

### **Outlook**

The TPB's *Vision* and the Council of Governments' *Region Forward 2050* plans call for convenient, safe bicycle and pedestrian access, walkability in regional activity centers and the urban core, reduced reliance on the automobile, increased walking and bicycling overall, inclusion of bicycle and pedestrian facilities in new transportation projects and

improvements, and implementation of a regional bicycle and pedestrian plan. The *Bicycle and Pedestrian Plan for the National Capital Region* provides a blueprint for making the region a better place for bicycling and walking.



# Introduction







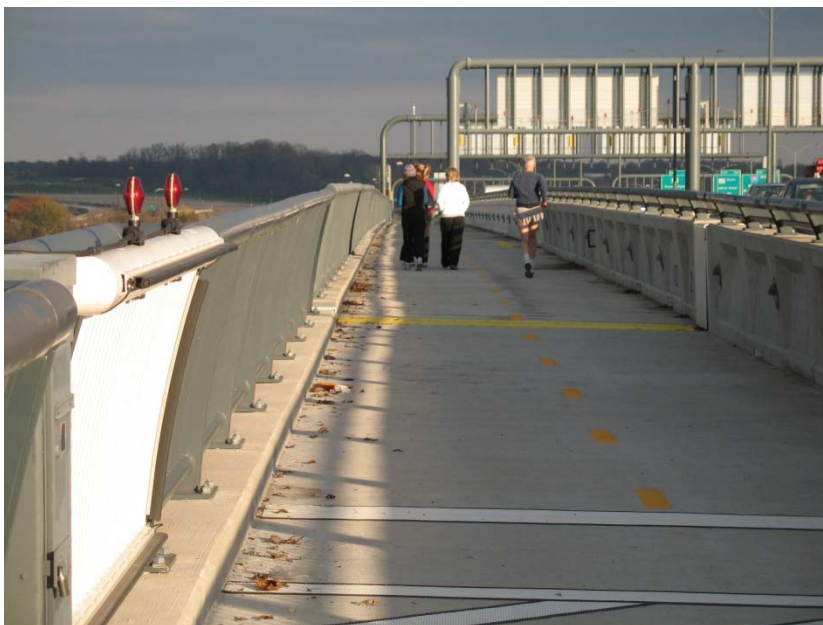
**Bicycling, Walking and the Vision  
of the Transportation Planning Board**

The National Capital Region Transportation Planning Board has long recognized the benefits of bicycling and walking in the region's multi-modal transportation system. The Transportation Planning Board's [Transportation Vision for the 21<sup>st</sup> Century](#), adopted in 1998, emphasizes bicycles and pedestrians in its goals, objectives and strategies. A key part of the *Vision* is a strong urban core and a set of regional activity centers, which will provide for mixed uses in a walkable environment and reduced reliance on the automobile. The *Vision* also calls for the implementation of a regional bicycle and pedestrian plan. Recommendations in this plan will help realize the *Vision*.



**Figure 1: DC Bike Lane**

*The Urban Core has  
a Growing Network  
of Bicycle Lanes*



*The Woodrow  
Wilson Bridge  
Trail opened in  
2009*

**Figure 2: Woodrow Wilson Bridge Trail**

**Region Forward 2050**

The Council of Governments recently completed [Region Forward](#), a vision for the National Capital region in 2050. *Region Forward* builds on the TPB *Vision*, calling for more rapid implementation of the regional bicycle and pedestrian plan, increased walking and bicycling, and reduced pedestrian and bicyclist fatalities.

This plan incorporates the goals, targets, and indicators from *Region Forward* which relate to walking and bicycling, as well as some additional indicators which will help show how well those goals are being met.

**Bicycling and Walking in the National Capital Region**

The Washington region is nationally known for the quality, beauty, and extent of its bicycle paths. Its walkable core neighborhoods attract residents and visitors alike. The region has a strong foundation of walking and bicycling facilities to build upon.<sup>1</sup>

*Walking and  
Bicycling  
account for 9%  
of all trips in the  
region*

Taken together, bicycling and walking are a significant and growing mode of transportation in the Washington region. According to the Metropolitan Washington Council of Governments' 2008 Household Travel Survey walking and bicycling account for 9% of all trips in the Washington region, up from 8.3% in 1994.

*One fourth of all  
driver trips in the  
Washington Region  
are less than 1½ miles  
long*

Recent years have seen progress for bicyclists and pedestrians. Several major new trails and bridges have opened, and most local governments have adopted bicycle, pedestrian, and/or trail plans. Most of the transit agencies in the region, have added bike racks to their buses, Bicycle or pedestrian coordinators and trail planners are now found at most levels of government. In accordance with federal guidance and new state policies, pedestrian and bicycle facilities are increasingly being provided as part of larger transportation projects. Employers are investing in bike facilities at work sites, and developers are including paths in new construction.<sup>2</sup> A pilot bike sharing program, [Smartbike](#), the first such program in the United States, has been implemented in the District of Columbia, and a large-scale regional bike sharing program, *Capital Bikeshare*,

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<sup>1</sup> DC Bicycle Lane Photo: COG/TPB /Michael Farrell

<sup>2</sup> Woodrow Wilson Bridge Trail Photo: COG/TPB /Michael Farrell

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is in the planning phases.

Bicycling and walking could reach a greater potential in the Washington region, however. Many trips currently taken by automobile could be taken by bicycle. The average work trip length for all modes in the Washington Metropolitan Statistical Area is 16.2 miles.<sup>3</sup> But 17% of commute trips are less than five miles, a distance most people can cover by bicycle.

Many people who live far from their jobs, but closer to transit or a carpool location could walk or bike to transit or the carpool instead of driving. The average trip distance to transit or carpool is only 3.1 miles.<sup>4</sup> Only 15% of transit riders and carpoolers travel more than five miles to the transit or carpool location.<sup>5</sup>

The potential for shifting non-work trips to bicycling or walking is even greater than for work trips. The average non-work trip is a little more than five miles, and nearly 3/4 of all trips are non-work trips.<sup>6</sup> The median auto driver trip in the Washington region, according to the 2008 COG Household Travel Survey, is four miles. The median trip for an auto passenger is only 2.8 miles. One fourth of all auto trips are less than 1½ miles in length. Destinations such as schools, shopping, and recreational facilities are often close enough to walk or bicycle. Bicycling and walking have considerable potential to displace automobile trips if suitable transportation, design, safety, parking, school siting, and land development policies are followed.

*The New York Avenue  
Metro Station  
Incorporates a Shared-  
Use Path and Bicycle  
Parking*



**Figure 3: New York Avenue Metro Station and Metropolitan Branch Trail**

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<sup>3</sup> National Capital Region Transportation Planning Board, *2004 State of the Commute Survey Report*, November, 2004, p. 22.

<sup>4</sup> Ibid, p. 27.

<sup>5</sup> Ibid, p. 27.

<sup>6</sup> National Capital Regional Transportation Planning Board, *1994COG/TPB Household Travel Survey: Summary of Major Findings*, January, 1998. Page 5.

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**Plan Development and Organization**

This plan has been prepared by the National Capital Region Transportation Planning Board, the federally designated Metropolitan Planning Organization (MPO) for the Washington region. The TPB is made up of representatives of 20 local governments, the departments of transportation of Maryland, Virginia, and the District of Columbia, the state legislatures, and the Washington Metropolitan Area Transit Authority (WMATA). Member jurisdictions are shown in Figure i-A on page i-5. The area of the TPB members plus Calvert County in Maryland and Stafford County in Virginia comprises the Washington, DC-MD-VA Metropolitan Statistical Area (MSA).

This document presents the long-range Bicycle and Pedestrian Plan for the Washington Region through the year 2040. The plan is a list of regional projects identified by the TPB member jurisdictions, accompanied by recommended best practices and a description of existing facilities and regional trends for bicycling and walking. This plan includes both funded and unfunded projects. It does not specify design guidelines, but refers instead to state and national guidelines for bicycle and pedestrian facilities.

This update of the *Bicycle and Pedestrian Plan for the National Capital Region* seeks to reflect the goals, objectives and strategies of the 1998 *TPB Vision* and *Region Forward 2050* while building on information from previous bicycle plans. It includes performance measures that will show progress towards the *Vision* and *Region Forward* goals.

Pedestrian access and safety receives increased attention in this update, reflecting increased attention to pedestrian issues by the TPB member governments and agencies. . Pedestrian planning is most needed at the county, city and neighborhood level. There is, however, a role for regional pedestrian planning, especially in the area of educating the public.

**Figure i-A  
TPB Planning Area, Washington DC-MD-VA Metropolitan Statistical Area (MSA)**





**Chapter 1**  
**Planning Context**

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## Overview

This *Bicycle and Pedestrian Plan for the National Capital Region* draws on and has been shaped by a number of regional, state, and local policy statements, plans, and studies, including the *Vision* of the Transportation Planning Board, the *Region Forward 2050* vision of the Council of Governments, federal and state guidance on provision of bicycle and pedestrian facilities, the Constrained Long Range Plan and Transportation Improvement Program, and state and local bicycle and pedestrian plans.

This plan is intended to help fulfill the goals of the *TPB Vision* and *Region Forward 2050* for bicyclists and pedestrians. It includes performance measures that will show progress towards the *Vision* and *Region Forward* goals.

### I. Regional Planning

#### The Vision of the Transportation Planning Board

The National Capital Region Transportation Planning Board is the Metropolitan Planning Organization for the Washington region. It brings key decision-makers together to coordinate planning and funding for the region's transportation system.

The TPB's official vision statement for the region, the [\*Transportation Vision for the 21<sup>st</sup> Century\*](#), adopted in 1998, is meant to guide regional transportation investments into the new century. The *Vision* is not a plan with a map or specific lists of projects. It lays out eight broad goals, with associated objectives and strategies that will help the region reach its goals.

*The Vision of the  
TPB calls for more  
Walking and  
Biking*

The *Vision* is supportive of pedestrians and bicyclists. It calls for:

- Convenient, safe bicycle and pedestrian access
- Walkable regional activity centers and urban core
- Reduced reliance on the automobile
- Increased walk and bike mode share
- Including bicycle and pedestrian facilities in new transportation projects and improvements
- Implementation of a regional bicycle and pedestrian plan

Other goals of the *Vision* affect bicyclists and pedestrians, such as: maintaining the existing transportation system, reducing the per capita vehicle miles traveled, linking land use and transportation planning, and achieving enhanced funding for transportation priorities. Sections of the *Vision* relating to bicycle and pedestrian goals are highlighted in Table 1-1.

**Table 1-1: Bicycle and Pedestrian Provisions of the Transportation Vision**

Goal 1. The Washington metropolitan region's transportation system will provide reasonable access at reasonable cost to everyone in the region.

Objective 4: Convenient **bicycle and pedestrian** access.

Strategy 3: Make the region's transportation facilities safer, more accessible and less intimidating for **pedestrians, bicyclists**, and persons with special needs.

Goal 2. The Washington metropolitan region will develop, implement, and maintain an interconnected transportation system that enhances quality of life and promotes a strong and growing economy through the entire region, including a healthy regional core and dynamic region activity center with a mix of jobs, housing, and services in a walkable environment.

Objective 2: Economically strong regional activity centers with a mix of jobs, housing, services, and recreation **in a walkable environment.**

Objective 4: Improved internal mobility with reduced **reliance on the automobile** within the regional core and within regional activity centers.

Goal 5. The Washington metropolitan region will plan and develop a transportation system that enhances and protects the region's natural environmental quality, cultural and historic resources, and communities.

Objective 3: Increased transit, ridesharing, **bicycling and walking** mode shares.

Strategy 7: Implement a regional **bicycle/trail/pedestrian plan** and include **bicycle and pedestrian facilities** in new transportation projects and improvements.

Accompanying the *Vision* is a shorter action agenda with elements to be included in the year 2000 long range transportation plan for the region. Item four on the action agenda calls for a regional congestion management system to achieve significant reduction in single occupant vehicles (SOVs) entering the regional core and regional activity centers by:

- designing and developing circulation systems that maximize the use of transit (rail, monorail, bus, jitney, etc.) and **pedestrian and bicycle** facilities

**Region Forward 2050**

The Council of Governments is a regional organization of Washington area local governments. COG is comprised of 21 local governments surrounding our nation's capital, plus area members of the Maryland and Virginia legislatures, the U.S. Senate, and the U.S. House of Representatives.

COG provides a focus for action and develops sound regional responses to such issues as the environment, affordable housing, economic development, health and family concerns, human services, population growth, public safety, and transportation.

*Region Forward 2050  
Calls for Faster  
Construction of the  
projects in the Bicycle  
and Pedestrian Plan*

In January 2010 the Council of Governments adopted [\*Region Forward\*](#), a vision for the National Capital region in 2050. The goals of *Region Forward* are broader than those of the *TPB Vision*, encompassing areas such as public safety, land use, economic development, housing, and the environment. For transportation, *Region Forward* builds on the *TPB Vision*, calling for more rapid implementation of the regional bicycle and pedestrian plan, increased walking and bicycling, and reduced pedestrian and bicyclist fatalities.

Provisions of *Region Forward* relating to bicycling and walking are summarized in Table 1-2.

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**Table 1-2:  
Bicycle and Pedestrian Provisions of Region Forward 2050**

**Goals:**

- Transit-oriented, compact, **walkable mixed-use communities** emerging in Regional Activity Centers that will capture new employment and household growth.
- A transportation system that maximizes **community connectivity** and **walkability**, and minimizes ecological harm to the region and the world beyond.
- A broad range of public and private transportation choices for our Region which maximizes accessibility and affordability to everyone and **minimizes reliance upon single occupancy use of the automobile**.
- Safe and healthy communities

**Targets:**

**Reduce** daily vehicle miles traveled (VMT) per capita.

**Increase** the rate of construction of bike and pedestrian facilities from the Transportation Planning Board's (bicycle and pedestrian) plan.

Prioritize walking and biking options by **improving pedestrian and bicycle networks**, especially in the regional activity centers. Planning and street improvements will focus on:

- Wide sidewalks
- Street trees
- Mixed-use development
- Pedestrian-friendly public spaces
- Bike stations near transit hubs
- Bike lanes
- Bike sharing

**Increase** the share of **walk, bike** and transit trips

- Give people options to meet everyday needs locally by building mixed-use developments

**Reduce pedestrian and bicyclist fatalities**

- Build sidewalks, bike lanes, and other improvements
- Narrower local streets
- Better crossings
- Lower speeds for vehicles on local streets and arterials
- More education and enforcement

**Indicators:**

- Transit, bicycle and walk share in Regional Activity Centers
- Street/node ratio for Regional Activity Centers
- Square feet of mixed-use development
- Reduced pedestrian and bicyclist fatalities

### **Constrained Long-Range Plan**

The financially Constrained Long-Range Transportation Plan (CLRP) is a comprehensive plan of transportation projects and strategies that the TPB realistically anticipates can be implemented over the next 20 years. The CLRP identifies all regionally significant transportation projects and programs that are planned in the Washington metropolitan area between 2009 and 2030. Over 750 projects are included, ranging from simple highway landscaping to billion-dollar highway and transit projects. Some of the projects will be completed in the near future, while others are only in the initial planning stage.

The projects and programs that go into the CLRP are developed cooperatively by governmental bodies and agencies represented on the National Capital Region Transportation Planning Board (TPB). The TPB Vision, the policy framework adopted by the TPB in 1998, serves as the regional guide for project development.

Federal law requires that the CLRP be updated every four years; the most recent version was adopted in 2010. To receive federal funding, a transportation project in metropolitan Washington must be included in the CLRP. Because funds must be reasonably anticipated to be available for all the projects in the CLRP, the CLRP is realistic plan based upon available resources.

Historically, less than 1% of the capital funding in the CLRP has been specifically for stand-alone bicycle and pedestrian projects. However, since bicycle and pedestrian projects are usually small projects, they are often added to the plan later than the major highway and transit projects. Moreover, much pedestrian and bicycle spending is subsumed within larger highway or transit projects, and thus is not reflected in the amount programmed for bicycle and pedestrian projects. Therefore, the CLRP may under-estimate the amount of bicycle and pedestrian spending that will occur over the next 20 years. State Departments of Transportation may also increase funding levels in the future as they implement policies to routinely accommodate pedestrians and bicyclists in all new transportation projects.

### **Transportation Improvement Program**

The [Transportation Improvement Program](#) (TIP) provides detailed information showing which projects in the CLRP will be completed over the next six-year period. The TIP is updated every year. Like the CLRP, the TIP is subject to federal review. Many projects in the TIP are staged, so a single CLRP project could end being split into multiple TIP projects.

*The Transportation  
Improvement  
Program includes  
\$124 million for  
pedestrian and  
bicycle projects*

Bicycle and pedestrian projects, and transportation projects that include bicycle and pedestrian accommodation, are tracked in TIP.

For example, the Fiscal Year 2010-2015 TIP includes \$124 million for bicycle and pedestrian projects. Of that, \$23 million is programmed for FY 2010, which is less than one percent of the total capital funds for all transportation projects programmed for FY 2010. As with the CLRP, funds spent on bicycle and pedestrian accommodations as part of a larger highway or transit project are often subsumed in budget of the larger project.

### **Top Priority Unfunded Bicycle and Pedestrian Projects**

The Bicycle and Pedestrian Subcommittee of the TPB Technical Committee advises the TPB, TPB Technical Committee, and other TPB committees on bicycle and pedestrian considerations in overall regional transportation planning.

The Subcommittee periodically selects a short list of priority unfunded bicycle and pedestrian projects, which it recommends for inclusion in the TIP. These projects are selected from the regional bicycle plan, and from state and local plans. The subcommittee has compiled and forwarded lists to TPB regularly since 1995, to be included in the solicitation document for the TIP/CLRP. In essence, the TPB urges the jurisdictions to consider funding these projects, which the Bicycle and Pedestrian Subcommittee has judged to be regionally significant, within six years.

The following selection criteria are used:

- **Bicycle Network Connectivity:** priority is given to projects that enhanced connectivity of facilities on the regional bicycle facilities network.
- **Pedestrian Safety:** priority is given to projects that promoted pedestrian safety, especially in areas with documented pedestrian safety problems and no pending road project that could address them.
- **Access to Transit:** priority is given to projects that enhanced access to Metrorail stations and other major transit stops or facilities.
- **Time Frame:** all projects should be able to be completed by 2016, the end of the TIP time frame.
- **Local Support:** the project is a priority for the jurisdiction or jurisdictions in which it is located.
- **Still seeking funding:** the project does not yet have full construction funding committed to it.
- **Reasonable Cost:** the total cost of the list should be a reasonable fraction of the total spending in the region on highways and bridges.

While considerable weight is given to the preference of the representative of the jurisdiction, subcommittee members are urged to think in terms of the regional selection criteria when nominating projects.

Projects are dropped from the list when they receive funding, or if the subcommittee and nominating jurisdiction decide that priorities have changed.

Five projects on the November 2008 list received partial funding, totaling \$2,023,000.

Projects funded since 1995 include:

- The Metropolitan Branch Trail in Washington, D.C.
- The Holmes Run Pedestrian/Bicycle crossing in Alexandria
- Pedestrian and Bicycle Safety Improvements on Route 1 in Fairfax County
- The Dumfries Road (Route 234) Bike Path in Prince William County
- The Rosslyn Circle Crossing in Arlington County
- The Eisenhower Trail in Alexandria
- The Matthew Henson Trail in Montgomery County
- The Falls Road Shared-Use Path in Montgomery County
- The Henson Creek Trail in Prince George's County
- The Millennium Trail in Rockville

### **Bicycling, Walking, and the Regional Transportation Model**

Data relevant to walking and bicycling are gathered as part of the regional [household travel survey](#), and are incorporated into [regional transportation modeling and forecasting](#).

### **Encouraging Bicycling and Walking:**

#### **Bike to Work Day, the Bike to Work Guide, and Guaranteed Ride Home**

To help realize the *TPB Vision* and reduce congestion, air pollution, and single occupant vehicle traffic, the TPB has developed several programs to encourage bicycling and walking in the Washington region. As part of its [Commuter Connections](#) program, every year on the third Friday in May the TPB sponsors a regional Bike to Work Day. This event has grown into one of the largest of its kind in the country, attracting over eight thousand riders to thirty five “pit stops” or rallying points around the region. The event is meant to encourage first-time riders to try bicycling to work.

The Commuter Connections program also supports publication of [Biking to Work in the Washington Area: A Guide for Employers and A Guide for Employees](#), which provides tips for employees and employers. For employees, there are tips on safe cycling, laws, equipment and clothing, and transit connections. For employers, the guide explains the benefits of bicycling to the employer, the types of bicycle parking, and the ways an employer can encourage an employee to bike to work.

Commuter Connections also makes available on-line a regional map of existing bicycle facilities, park and ride lots with bicycle parking, transit, and HOV lanes. The Bicycle

and Pedestrian Subcommittee publishes a map of regional bicycle facilities in cooperation with the ADC Map Company. Maps can be ordered at [www.adcmap.com](http://www.adcmap.com). Regional bike routing is available at [www.ridethecity.com](http://www.ridethecity.com), and Google maps offers both pedestrian and bicycle routing.

People sometimes drive to work because they need to be able to get home quickly in an emergency. To meet that need and help get more people out of their cars, the Commuter Connections program offers a free taxi ride home in an emergency for commuters who regularly (twice a week) carpool, vanpool, bike, walk or take transit to work. Commuters who sign up for the [Guaranteed Ride Home](#) program may use it up to four times per year.

### **Encouraging Walkable Development: the Transportation-Land Use Connections Program**

The [Transportation Land Use Connections](#) (TLC) Program provides support to local governments in the Metropolitan Washington region as they work to improve transportation and land use coordination. Through the program, the TPB provides communities with technical assistance to catalyze or enhance planning efforts for planning for transit and pedestrian access. Since 2007 dozens of pedestrian and transit access planning projects have been funded through the TLC program. Community response has been enthusiastic, and competition for the grants has been stiff.

## **II. Federal Policies**

### **Routine Accommodation of Walking and Bicycling**

U.S. Department of Transportation guidance issued in 2000 calls for bicycling and walking facilities to be incorporated into all transportation projects unless exceptional circumstances exist. Further [guidance issued in March 2010](#) urged agencies to go beyond the minimum standards to provide safe and convenient facilities for pedestrians and bicyclists, set mode share targets, and collect data on walk and bike trips. Bicycling and walking are to have equal importance to other transportation modes. Transportation projects using federal funds may not sever an existing bicycle or pedestrian route, unless an alternate route exists or is provided.

[The US DOT headquarters in Washington, D.C.](#) sets an example for other employers by encouraging employee bicycling.

### **Americans with Disabilities Act**

The Americans with Disabilities Act (ADA) is a federal civil rights statute that prohibits discrimination against

*The ADA Requires  
that all New and  
Altered Pedestrian  
Facilities be made  
Accessible to the  
Handicapped*



people who have disabilities. Under the ADA, designing and constructing facilities that are not usable by people with disabilities constitutes discrimination. Public rights of way, including pedestrian facilities, are required by federal law to be accessible to people with disabilities.

Both new and altered pedestrian facilities must be made accessible to persons with disabilities, including those who are blind or visually impaired. The courts have held that if a street is to be altered to make it more usable by the general public, it must also be made more usable for those with disabilities.

Government facilities which were in existence prior to the effective dates of the ADA and which have not been altered are not required to be in full compliance with facility standards developed for new construction and alterations. However, they must achieve 'program access.' That is, the program must, when viewed in its entirety, not deny people with disabilities access to government programs and services. For example, curb ramps may not be required at every existing walkway if a basic level of access to the pedestrian network can be achieved by other means, e.g., the use of a slightly longer route. Municipalities should develop plans for the installation of curb ramps and accessible signals such that pedestrian routes are, when viewed in their entirety, accessible to people who are blind or visually impaired within reasonable travel time limits.<sup>1</sup>

Design standards for the disabled, such as smoother surfaces, adequate width, and limits on cross-slope, are also beneficial for the non-disabled pedestrian. Good design for persons with disabilities is good design for all. For more information on the Americans with Disabilities Act, contact the [US Access Board](#).

## **SAFETEA-LU**

### *All Federal Transportation Funds may be used for Bicycle and Pedestrian Projects*

Under the SAFETEA-LU (Safe, Accountable, Flexible, Efficient Transportation Equity Act: Legacy for Users) federal transportation bill signed in August 2005, bicycle and pedestrian projects remain broadly eligible for nearly all funding categories, either for projects incorporated into something larger, or for stand-alone bicycle and pedestrian projects. The bill authorized \$286 billion for highways and transit from 2005 through 2009, a 22% increase over the previous federal transportation bill, TEA-21. SAFETEA-LU was scheduled for a full re-authorization in 2009, but is currently being extended with little substantive change in its provisions.

Transportation Enhancements, half of which historically have been spent on bicycle or

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<sup>1</sup> American Council for the Blind, *Pedestrian Safety Handbook: A Handbook for Advocates*. [www.acb.org](http://www.acb.org)

pedestrian projects, was funded nationally at a level of \$3.25 billion over five years. The Recreational Trails Program set aside \$110 million for non-motorized trails. SAFETEA-LU also contained a number of high priority projects, sometimes known as legislative earmarks, many of which are bicycle or pedestrian projects.<sup>2</sup> Pedestrian and bicycle projects are *not*, however, limited to set-aside programs and high priority projects. They are broadly eligible for funding from highway and transit funds.

Under SAFETEA-LU bicyclists, pedestrians, and people with disabilities are explicitly required to be given an opportunity to comment on metropolitan transportation plans.

### **Safe Routes to School**

Aside from the general increase in funding under SAFETEA-LU, the most important new set-aside for bicyclists and pedestrians was the [Safe Routes to School](#) (SRTS) Program. The goals of the program are to enable and encourage children to walk and bike to school, improve safety, and reduce traffic and air pollution near schools. Eligible activities include both infrastructure and non-infrastructure projects. Infrastructure projects include bicycle parking, crosswalks, sidewalks, traffic calming, on and off-street bicycle facilities, etc. on any public road or trail in the vicinity of a school. Non-infrastructure projects include public awareness and outreach to encourage walking and bicycling to school, traffic education and enforcement near schools, student sessions, training, SRTS program managers, and a State Coordinator. Not less than 10% or more than 30% of SRTS funds must be set aside for non-infrastructure projects.

Funds are administered by State Departments of Transportation, with 100% federal share – no local match required. Each state is to receive funds in proportion to K-8 school enrollment, but not less than \$1 million. The budget grew from \$54 million in 2005 to \$183 million in 2009.

As this program has developed, interest, and applications for funding have varied greatly between different schools and school districts. Some school districts have embraced the program, while others have maintained bus and drive-only policies. Urban school districts have been more receptive to the program. [Growing emphasis on fighting childhood obesity](#) has helped build support.

### **American Recovery and Reinvestment Act**

Signed into law on February 17, 2009, the [American Recovery and Reinvestment Act](#) of 2009 (ARRA) provided over \$48 billion for transportation, including \$27.5 billion for highway infrastructure investment, \$8.4 billion for transit capital assistance, \$8 billion for high speed rail, \$1.5 billion for a

*The District of Columbia spent nearly half its stimulus funds on pedestrians and bicyclists*

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<sup>2</sup> See [www.bikeleague.org](http://www.bikeleague.org) for further information on the Bicycle and Pedestrian provisions of SAFETEA-LU.

competitive grant program for surface transportation, and \$1.3 billion for Amtrak.

The District of Columbia was allocated \$123.5 million, Maryland \$431 million (\$129 million sub-allocated to urban areas) and Virginia \$694.5 million (\$208 million sub-allocated to urban areas) in highway formula funds.

ARRA is a one time, “stimulus” bill, intended to promote recovery from the economic recession. Projects funded through ARRA are supposed to be capable of implementation within a relatively short time frame, which has in practice caused funds to be directed to those projects for which design was already complete, and which did not need additional right of way.

The District of Columbia spent nearly half its \$123.5 million allocation on bicycle and pedestrian projects. Over \$50 million will be spent on streetscaping and sidewalk construction, \$4 million for [Safe Routes to School](#), and a \$3 million on an expanded bike sharing program. In addition bridge reconstruction projects will include upgraded sidewalks. Since projects are bid as a whole, the cost of the pedestrian portion of a project is not estimated separately.

Apart from \$4.6 million for ADA improvements, Maryland had no identifiable pedestrian or bicyclist projects funded under ARRA. Maryland stimulus funds largely went to resurfacing and bridge rehabilitation projects, often on limited-access highways. Out of \$160 million programmed so far in Northern Virginia, \$10 million has been allocated to identifiable pedestrian and bicycle projects, such as pedestrian bridges and underpasses, trail reconstruction, streetscaping, and traffic calming.

The degree to which pedestrians and bicyclists benefit from the Act depends to a great degree on the extent to which the Departments of Transportation have included pedestrian and bicycle facilities in their project planning and design. An effective “routine accommodation” or “complete streets” policy is critical.

### **III. State Policies**

#### **District of Columbia**

Reflecting its urban character, the District of Columbia is doing more to encourage walking or bicycling than is currently envisioned in Maryland or Virginia. [District of Columbia Department of Transportation](#) intends to create a “walk-centric, bike-centric” city. DDOT’s two-year “[Action Agenda](#)” calls for safety, sustainability, and increasing livability and prosperity by creating great spaces that are the “living room” of the city.

Streetscaping projects and traffic calming projects are a high priority. By providing pedestrians with plenty of well-designed, safe, and comfortable space, the city hopes to

increase retail sales and property values. Business Improvement Districts are to have considerable input into transportation projects.

*The District of Columbia is to become a “walk-centric, bike-centric” city.*

Pedestrian and bicyclist injuries are to be reduced by 10% per year. To reduce pedestrian injuries, the “Action Agenda” calls for traffic calming, traffic enforcement, speed and red light cameras, speed limits lower than 25 mph, lead pedestrian intervals at crosswalks, and reconstruction of high-crash intersections.

Due to the built-up character of the District of Columbia, DDOT rejects road widening as a means of increasing transportation capacity. Instead, DDOT aims to shift travel from less space-efficient modes, such as single occupant driving, to more space efficient modes, such as walking, bicycling, and public transportation.

DDOT’s strategy for shifting auto trips to transit, walk, and bike trips encompasses both transportation and land development elements. The District of Columbia will encourage mixed use development projects that promote and support non-auto mobility. Reduced auto parking, increased bike parking, on-site car and bike sharing, and transportation demand management plans will reduce auto trips generated by new development.

On a citywide basis there is to be car sharing, bike sharing, new transit service, streetcars, reduced off-street parking requirements, required off-street bike parking, and rapid construction of new pedestrian and bicyclist infrastructure. The current [Bicycle Master Plan](#) (2005) is to be updated and expanded to reflect changed priorities.

Strategies to address congestion directly include congestion pricing, variable pricing for on-street parking, and double-parking and loading zone enforcement. Nearly all the proposed congestion reduction measures will increase the monetary cost of driving. None involve allocating additional space for travel lanes.

## **Maryland**

The State of Maryland’s Bicycle and Pedestrian Access Act provides that “Access to and use of transportation facilities by pedestrians and bicycle riders shall be considered in all phases of transportation planning, including highway design, construction, reconstruction, and repair.”<sup>3</sup> The Maryland Department of Transportation is to “work to ensure” that transportation options for pedestrians and bicycle riders will be enhanced and not negatively impacted by a project or improvement. The [Twenty Year Bicycle and Pedestrian Access Master Plan](#) (2002) calls for MDOT to

*Maryland will “strive” to provide bicycle and pedestrian facilities “wherever possible”*

<sup>3</sup> Maryland Department of Transportation, [Twenty Year Bicycle and Pedestrian Access Master Plan](#), October, 2002. Pp. 13, 32.

“strive” to integrate bicycle and pedestrian facilities into routine roadway development “wherever possible”.

A [Bicycle and Pedestrian Advisory Committee](#) advises State government agencies on issues directly related to bicycling and pedestrian activity including funding, public awareness, safety and education. MDOT has published [pedestrian design guidelines](#), [accessibility guidelines for pedestrian facilities](#), a bicyclist education video, and other materials designed to share information on best practices with respect to the engineering, education, and enforcement aspects of walking and bicycling.

Overall Maryland’s efforts to promote walking and bicycling are less ambitious than the District of Columbia’s. Provision of accommodations for pedestrians and bicyclists in transportation projects is encouraged but not mandatory.

### Virginia

In 2004, the Virginia Department of Transportation released its policy for [bicycle and pedestrian accommodation](#), which commits VDOT to routinely accommodating pedestrians and bicyclists as part of all new construction and reconstruction projects, unless exceptional circumstances exist.<sup>4</sup>

Since 2004 VDOT has developed a process to ensure that bicycle and pedestrian accommodations are provided in accordance with the policy. The [Bicycle and Pedestrian Accommodations Decision Process](#) gives designers a step by step process to determine if bicycle / pedestrian accommodations are appropriate for the characteristics of a particular roadway, and a [Bicycle and Pedestrian Accommodations](#) list and a design guide provides project managers with a menu of possible accommodations. A series of [implementation guidance documents](#) for localities have also been developed to improve communication between agencies regarding planning and accommodation of pedestrians and cyclists under terms of the 2004 policy.

VDOT maintains all roads in Virginia outside of urban areas, including thousands of miles of residential streets originally built by developers. In view of the importance of secondary streets for vehicular, pedestrian, and bicycle movement, VDOT has revised its [Secondary Street Acceptance Requirements](#) (SSAR) to mandate higher levels of street connectivity in urban areas, as well as adequate pedestrian accommodation. New streets and

*Virginia requires “routine accommodation” of pedestrians and bicyclists in transportation projects*

*Virginia requires new developments to connect with the surrounding streets*

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<sup>4</sup> [www.virginiadot.org](http://www.virginiadot.org)

developments are required to connect to the surrounding streets and future developments in a way that adds to the capacity of the transportation network.

The policy divides Virginia into “compact”, suburban, and rural areas, with graduated connectivity requirements for each. Narrower streets, traffic calming and “context-sensitive” design are encouraged where appropriate.

New development proposals initially submitted to counties and VDOT after June 30, 2009, must comply with the requirements of the SSAR.

Cul-de-sac development patterns have long been an obstacle to walking or bicycling in suburban areas. More direct, traffic-calmed secondary streets will allow more people to walk or bike to local destinations.

Virginia has adopted a fairly stringent set of requirements mandating accommodation of pedestrians and bicyclists on both public roads and private developments which are accepted by State for maintenance, which in Virginia means almost all development. As the economy recovers, and new development applications fall under the new rules, we will be able to see the results of the new policies.

### **“Complete Streets”**

Routine accommodation policies are sometimes known as “[complete streets](#)” policies.<sup>5</sup> “Complete streets” are defined as streets that are designed and operated to enable safe access for all users, including motorists, pedestrians, bicyclists, and transit users, as well as senior citizens, children, and persons with disabilities. The District of Columbia, Virginia, Arlington, Alexandria, and a number of other jurisdictions have adopted or are moving towards complete streets policies.

Federal and State policies have evolved, from not requiring (or in some cases prohibiting) the use of transportation funds for pedestrian or bicycle facilities, towards requiring the provision of such facilities. These federal and state guidelines and policies have led to an increase in the number of pedestrian and bicycle facilities provided, with more facilities provided as part of larger transportation projects rather than as stand-alone projects.

Federal and State policies are also evolving away from encouraging single-use cul-de-sac development patterns typical of the last half of the 20<sup>th</sup> century, to encouraging mixed use development and a connected street grid that is far more accessible to pedestrians and bicyclists.

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<sup>5</sup> [www.completestreets.org](http://www.completestreets.org)

**IV: Local Bicycle and Pedestrian Planning**

Nearly every jurisdiction in the region has completed a bicycle or pedestrian plan, and most have at least part time bicycle or pedestrian planner. Table 1-2 shows local and state plans and studies and the year published. Jurisdictions and agencies drew projects from these individual plans and submitted them for incorporation into the Regional Bicycle and Pedestrian Plan. Local plans may include unfunded projects.

**Table 1-2:  
Major Bicycle and Pedestrian Plans and Studies  
Of the Washington Region**

<b>Jurisdiction/ Agency</b>	<b>Plan/Study</b>	<b>Year</b>
Arlington County	Pedestrian Transportation Plan, Bicycle Transportation Plan, <a href="#">Bike Lane Plan</a> <a href="#">Arlington Master Plan - Pedestrian Element</a>	1997, 1994 2001, 2008
City of Alexandria	<a href="#">Pedestrian and Bicycle Mobility Plan</a>	2008
District of Columbia	<a href="#">District of Columbia Bicycle Master Plan, District of Columbia Pedestrian Master Plan</a>	2005, 2009
Fairfax County	Countywide Trails Plan, <a href="#">County Bicycle Map</a>	2002, 2009
Frederick County	<a href="#">Frederick County Bikeways and Trails Plan</a>	1999
City of Gaithersburg	Bikeways and Pedestrian Plan	1999
City of Laurel, Maryland	<a href="#">Bikeway Master Plan</a>	2009
Loudoun County	Loudoun County Bicycle and Pedestrian Master Plan	2003
Maryland Department of Transportation	<a href="#">Twenty Year Bicycle and Pedestrian Access Master Plan</a>	2002
MNCPPC – Prince George's County	Transportation Priority List (Joint Signature Letter) <a href="#">Countywide Master Plan of Transportation</a>	1999 2009
Montgomery County	<a href="#">Countywide Bikeways Functional Master Plan</a>	2005
National Capital Planning Commission	<a href="#">Comprehensive Plan for the National Capital</a>	2004



National Capital Region Transportation Planning Board	Priorities 2000: Metropolitan Washington Greenways & Circulation Systems, Bicycle and Pedestrian Plan for the National Capital Region	2001, 2006, 2010
National Park Service	Paved Recreation Trails Plan	1990
Prince William County	Thoroughfares Plan (part of Comprehensive Plan), Greenways and Trails Plan	1998, 1993
City of Rockville	<a href="#">Bikeway Master Plan</a>	2004
Virginia Department of Transportation, Northern Virginia Office	<a href="#">Northern Virginia Regional Bikeway and Trail Network Study</a>	2003
WMATA	<a href="#">Metrorail Bicycle &amp; Pedestrian Facilities Planning Study.</a>	2010
<b>Jurisdiction/ Agency</b>	<b>Plan/Study</b>	<b>Year</b>

Table 1-3 shows the approximate number of full-time planners each agency has working on bicycle, pedestrian, and trails planning.

**Table 1-3:  
Agency Bicycle/Pedestrian Planning Staff  
Full-Time Equivalents (FTE's)**

<b>Jurisdiction/ Agency</b>	<b>Bicycle Planner FTE's</b>	<b>Pedestrian Planner FTE's</b>	<b>Trails Planner FTE's</b>
Arlington County	1	1	1
City of Gaithersburg	0.5		
City of Alexandria	0.5	0.5	
City of College Park	0.5		

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**CHAPTER 1:  
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City of Frederick	0.5	0.5	
City of Rockville	0.5	0.5	
District of Columbia	2	1	1
Fairfax County	1	1	2
Frederick County	0.25	0.25	
Loudoun County	0.5		
Maryland Department of Transportation	1	2	1
MNCPPC – Montgomery County	0.33	0.33	1
MNCPPC – Prince George's County			1
Montgomery County	1	1	1
National Capital Region Transportation Planning Board	0.5	0.5	
National Park Service			1
Prince William County			0.5
WMATA	0.5	0.5	
Virginia Department of Transportation, Northern Virginia Office	1	1	
<b>Jurisdiction/ Agency</b>	<b>Bicycle Planner FTE's</b>	<b>Pedestrian Planner FTE's</b>	<b>Trails Planner FTE's</b>

## **V: Regional Bicycle and Pedestrian Planning**

### **Precursors to the Current Plan**

The Washington region completed its first major bicycle study, the *Washington Regional Bikeways Study* in 1977. This study, created under the supervision of the Regional Bikeways Technical Subcommittee of the Transportation Planning Board Technical Committee, provided an overview of bicycling characteristics and the potential market for bicycle commuting.

In 1988 the Bicycle Technical Subcommittee began work on a bicycle element for incorporation into the region's transportation plan. The plan identified the extent to which bicycle facilities and planning processes already existed in the region, highlighted areas of concern for the future, and drafted a set of policy principles to be applied by the region's jurisdictions in updating their own transportation plans, as well as a list of recommended bicycle projects. The *Bicycle Element* was adopted by the Transportation Planning Board as part of the region's Constrained Long-Range Plan in November 1991.

In 1995, the Transportation Planning Board adopted an update to the 1991 *Bicycle Element*, the Bicycle Plan for the National Capital Region, as an amendment to the Constrained Long-Range Plan. The revised plan emphasized bicycling for transportation and recommended project lists and policy principles produced by the Bicycle Technical Subcommittee.

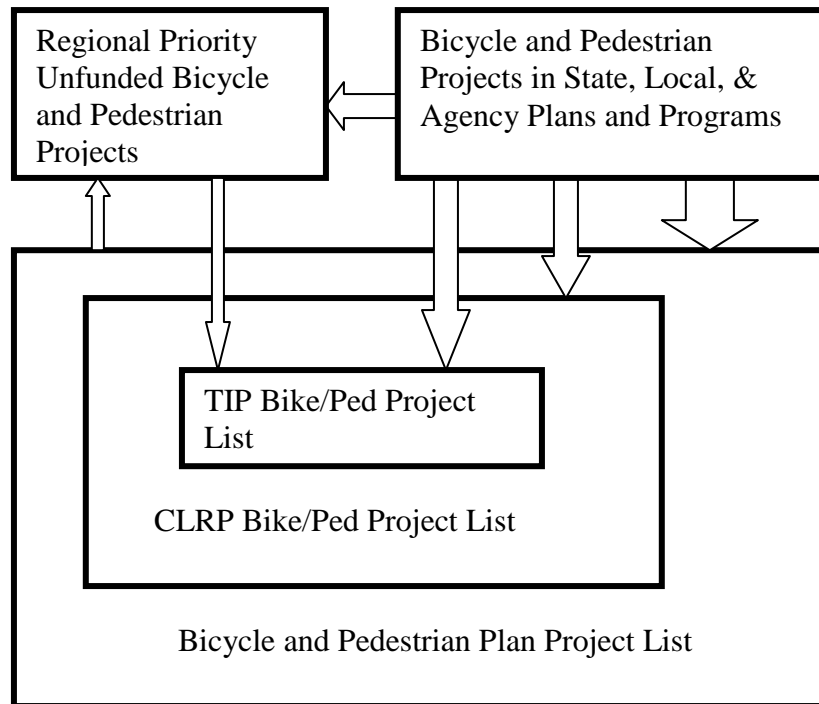
In February 2001, the TPB completed the *Priorities 2000: Greenways and Circulation Systems* reports, which identified greenway and pedestrian circulation systems priorities.

Except for the *Priorities 2000* reports, predecessors to the 2006 *Bicycle and Pedestrian Plan for the National Capital Region* were "bicycle" plans. The 2006 plan fully incorporated pedestrian elements for the first time. This plan is an update to the 2006 plan.

### **Sources of the Regional Plan Projects**

State, local, and agency bicycle and pedestrian plans are the source of the projects in this plan. All bicycle and pedestrian projects that are programmed in the TIP are also in the CLRP and in this plan. The plan, however, includes many projects that are not in the TIP or the CLRP. Figure 1-1 illustrates the relationships between the various project lists.

**Figure 1-1**



### **Outlook**

The Transportation Planning Board and the Council of Governments have a continuing and growing commitment to walking, bicycling, and the concentration of future growth in walkable, mixed-use activity centers. COG’s *Region Forward 2050* shares the goals of the TPB’s *Vision* and proposes specific performance indicators and a schedule for reporting progress. Increasing the rate at which projects in this plan are constructed is an explicit goal of the Council of Governments’ *Region Forward 2050* vision.

The Federal, State, and local policy environment has been changing in ways that make it more likely that goals of the regional plans will be met. Complete Streets policies are being adopted, strengthened and implemented. Pedestrian and bicycle facilities in most jurisdictions will no longer be “amenities” which agencies will consider providing, but facilities that they will routinely provide as part of every project. At the same time, land use, parking, and urban design policies are changing in ways that will make walking and bicycling a viable choice for more trips.

As the economy recovers and development restarts, the effects of the policy changes of the last few years will become evident in the way people live, work, and travel in our region.

**Chapter 2**  
**Bicycling and Walking in the Washington Region**

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**Overview**

Residents of the Washington region walk and bicycle at about the same rate as the nation as a whole. Tables 2-1 and 2-2 show the share of walking and bicycling trips to work for the ten largest metropolitan areas.

*Nationally,  
10% of all  
urban area  
trips are made  
on foot or by  
bike*

Throughout the second half of the 20<sup>th</sup> Century, driving increased, while walking, bicycling, and public transportation declined. In 2000 2.93% of Americans walked to work, and 0.38% bicycled. By comparison, in 1960 9.9% of workers walked to work.<sup>2</sup> The number of people driving alone rose from 73.2% in 1990 to 75.7% in 2000, while use of public transportation fell by 0.5%.

	Table 2-1 Pedestrian Commuting in the Ten Largest Metropolitan Areas <sup>1</sup>	% Walk to Work 2000 Census	% Walk to Work 2006- 2008
1	New York	5.55%	6.2%
2	Boston	4.12%	4.8%
3	San Francisco	3.25%	4.2%
4	Philadelphia	3.88%	3.7%
5	Washington	3.10%	3.0%
6	Chicago	3.13%	2.9%
7	Los Angeles	2.56%	2.6%
8	Detroit	1.83%	1.5%
9	Houston	1.62%	1.5%
10	Dallas-Fort Worth	1.48%	1.3%
	United States	2.93%	2.8%

in 1990 to 75.7% in 2000, while use of public transportation fell by 0.5%.

*Trips in the  
Urban Core are  
Usually Short  
Enough to Walk  
or Bike*

In the first decade of the 21<sup>st</sup> Century, growth in solo driving share appears to have stopped, and transit, walking and bicycling mode shares have stabilized. 75.8% of workers drove alone in 2006-2008, which is essentially the same as in 2000, and public transportation grew from 4.7% to 4.9%.

	Table 2-2: Bicycle Commuting in the Ten Largest Metropolitan Areas	% Bike to Work 2000	% Bike to Work 2006- 2008
1	San Francisco	1.12%	1.4%
2	Los Angeles	0.63%	0.7%
3	Boston	0.38%	0.7%
4	Philadelphia	0.33%	0.5%
5	Chicago	0.31%	0.5%
6	Washington	0.30%	0.5%
7	New York	0.30%	0.4%
8	Houston	0.30%	0.3%
9	Detroit	0.18%	0.2%
10	Dallas--Fort Worth	0.14%	0.2%
	United States	0.38%	0.5%

The walk and bike modes are more common than the census commute mode numbers would lead one to believe. Work trips account for less than 20% of all trips, and walking and biking are more common for other

1 2000 US Census, 2006-2008 American Community Survey

2 1960 Census of Population, Characteristics of Population, United States Summary

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purposes. Nationally, 9.5% of all urban area trips were made on foot, and 0.9% by bicycle in 2001. In the Mid-Atlantic region, 15.8% of all trips are made on foot, and 0.8% by bicycle.<sup>3</sup>

Regionally, bicycling and walking are concentrated in the core neighborhoods of the Washington region, especially areas near downtown D.C. and certain Metro stations, as well as college campuses and military bases.

In the past decade walk mode shares for all trips have grown, while bike mode shares have stabilized. Walking and bicycling have grown in the core. Bicycling, however, suffered a steep decline in the outer jurisdictions, resulting in no net increase between 1994 and 2007/2008.

Ethnicity, geography, age, and car ownership affect the decision to walk or bicycle. People under the age of 44 are more likely to walk or bicycle than people older than age 44, and people over age 65 have the lowest rates of walking and bicycling. People living in households without cars are more likely to walk or bicycle than those that have one, and those living in households with only one car are more likely to walk or bicycle than those owning two. Middle-income groups are slightly less likely to walk or bicycle than either low-income or high-income groups. Whites are more likely to bicycle.

Distance is a major barrier to commuter cycling, along with absence of safe routes, and lack of end-of-trip facilities such as showers and lockers.<sup>4</sup> Trips in the outer suburbs are usually farther than most people are willing to walk or bicycle. However, most commute trips that are short enough to be bikable or walkable are still taken by car. The average trip distance to transit or carpool is very short.

Transit and walking are interdependent, with 80% of bus and 60% of Metrorail access trips on foot. Mode of access varies tremendously by Metro station. Bicycling to transit is less common and varies greatly by Metro station, with the lowest rates of bicycle access found east of the Anacostia river.

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3 Pucher, John, "Socioeconomics of Urban Travel: Evidence from the 2001 NHTS". *Transportation Quarterly*, Vol. 57, No. 3, Summer 2003 (49-77). Page 54.

4 Metropolitan Washington Council of Governments, *2004 Bike to Work Day Survey- Summary of Results*, June, 2005. Page 6.



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**Walking and Bicycling According to the COG/TPB Household Travel Survey**

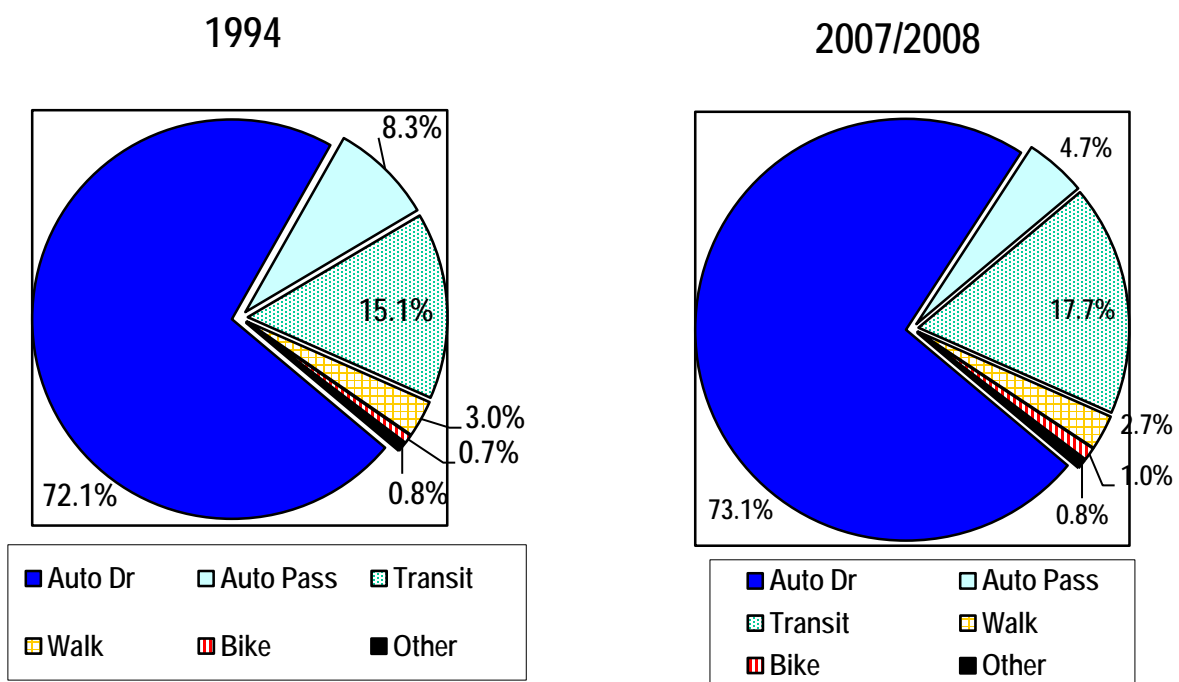
The household travel survey is a roughly once in a decade survey of households in the greater Washington region. The survey was done in 1994, and again in 2007-2008. It is the best available source of information on travel mode shares in the Washington region.

For the most recent survey, 11,000 randomly selected households in TPB Region and adjacent areas (+3,500 in the Baltimore Region) were surveyed. Higher numbers of samples were taken in higher density, mixed use urban areas, and regional activity centers. The sample was address-based. Interviews were conducted between February 2007 and March 2008. Travel is weekday travel only; week-end travel was not counted.

Comparing the results of the 1994 and the 2007/2008 surveys, walk commuting has fallen from 3% to 2.7%, but bicycle commuting has increased slightly, from 0.7% to 1%. Bicycling grew by the same amount as walking declined. Auto commute trips remained stable, while auto passenger (carpooling) declined steeply, and transit use grew.

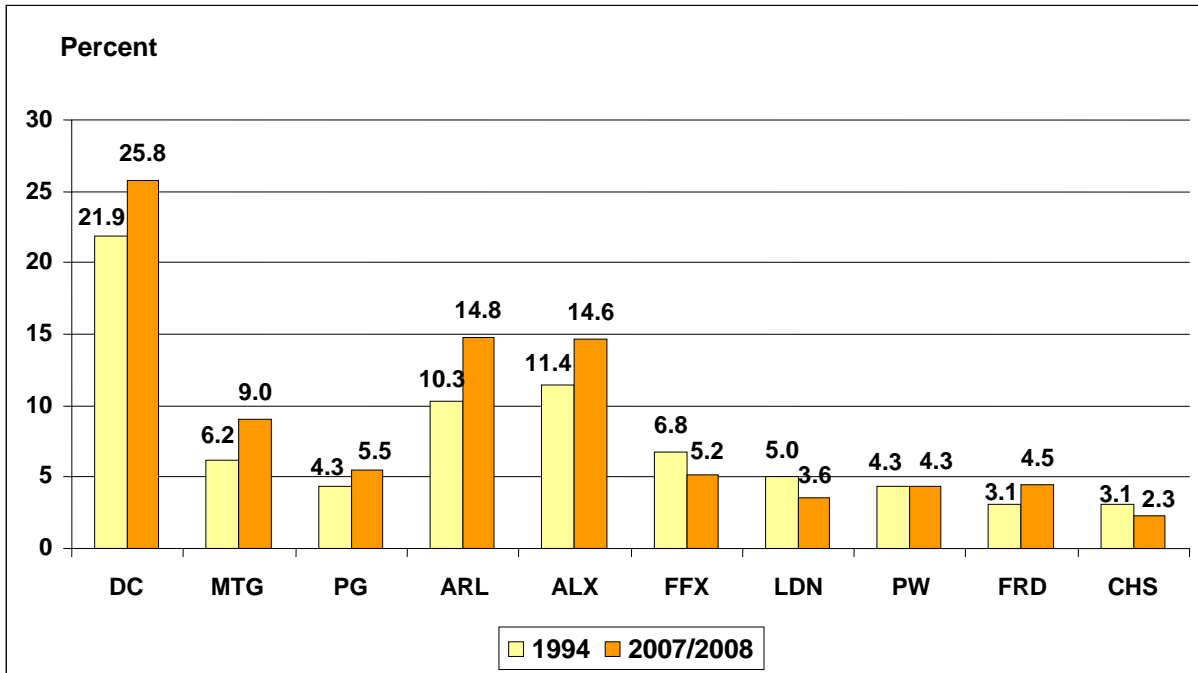
These results are generally consistent with the 2000 US Census and 2006-2008 American Community Survey results for the Washington region, which also show walk commuting decreasing and bicycle commuting increasing.

**Chart 2-1: Change in Commuting Mode Shares 1994-2007/2008**

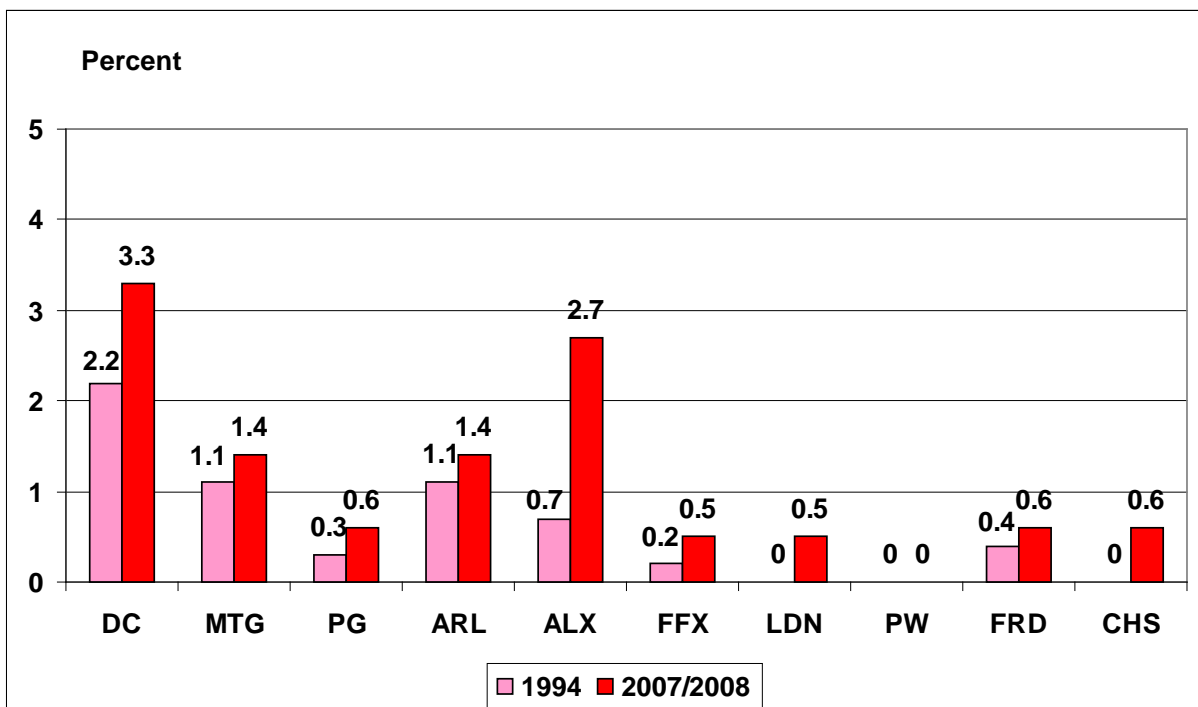


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**Chart 2-2: Walk Commute Share by Jurisdiction**



**Chart 2-3: Bike Commute Mode Share by Jurisdiction**



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Walk commuting grew in urban core, and in Montgomery and Frederick Counties, but fell in other suburban areas, notably Fairfax and Loudoun Counties, which experienced considerable auto-oriented suburban growth.

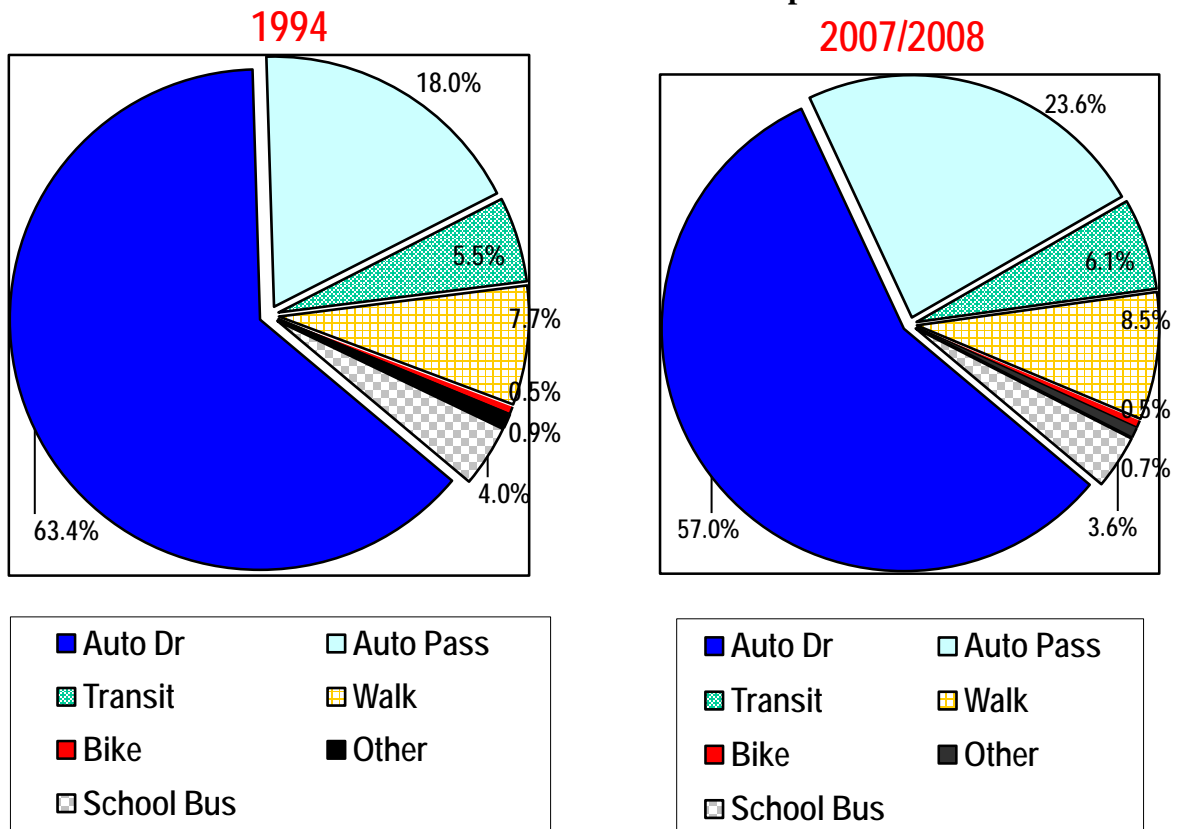
Bike commuting grew in most jurisdictions from a low base, with the biggest increases in the District of Columbia and Alexandria.

**Mode Share Trends for All Trips in the Washington Region**

Commute trips, while they get a lot of attention, account for less than 20% of all trips in the Washington region. Nonwork trips have different characteristics than work trips, and overall trends in mode share are different from trends in commuter mode share.

Solo driving declined significantly in the Washington region between 1994 and 2007/8, while auto passenger, transit, and walk modes increased. Bicycling remained stable at the regional level.

**Chart 2-4: Mode Share for All Trips**

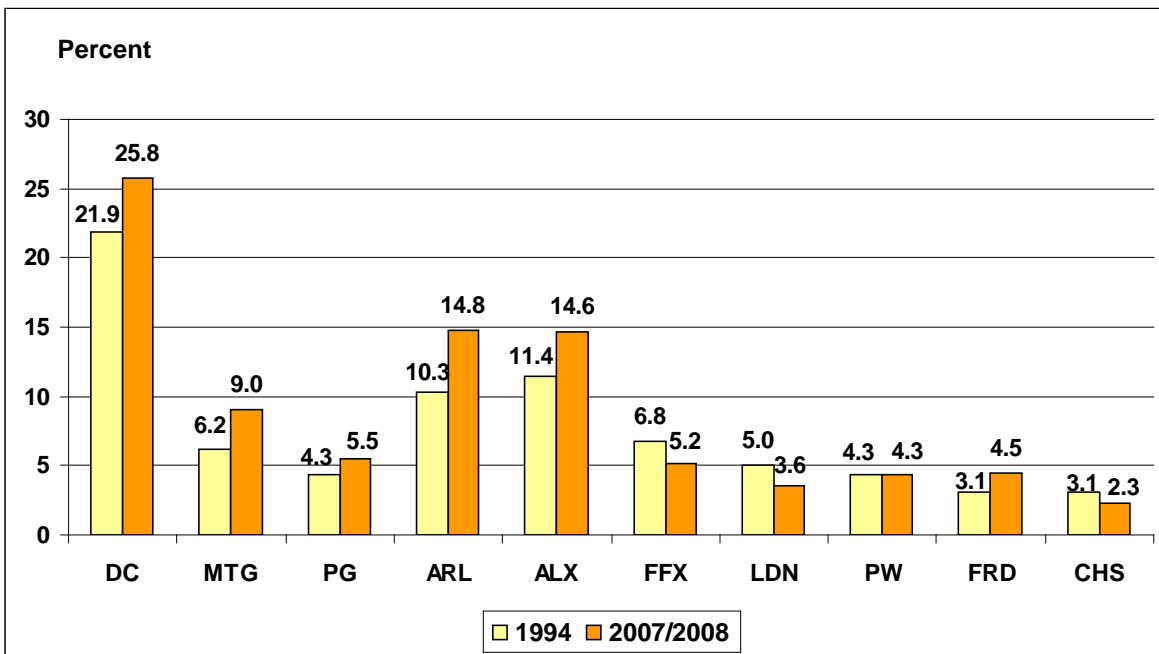


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**Walk and Bike Mode Share by Jurisdiction**

Walking has increased most jurisdictions, with the notable exceptions of declines in Fairfax and Loudoun Counties. The biggest increases were in the urban core and in Montgomery County.

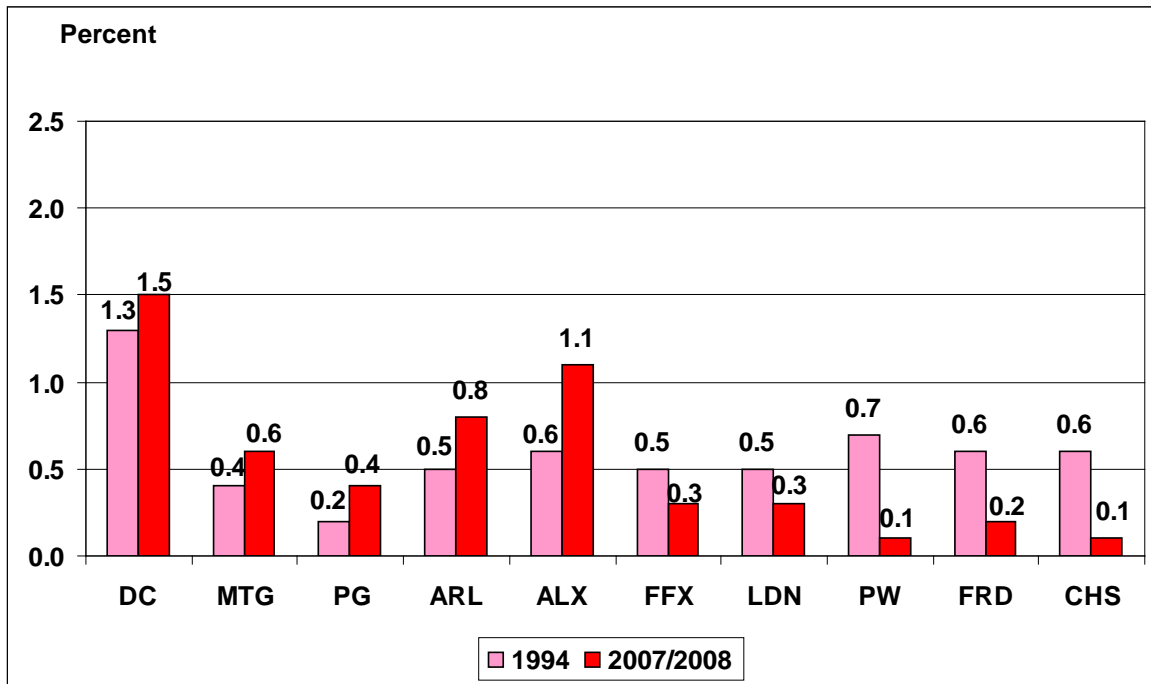
**Chart 2-5: Daily Walk Trip Share by Jurisdiction of Residence  
(1994 – 2007/2008)**



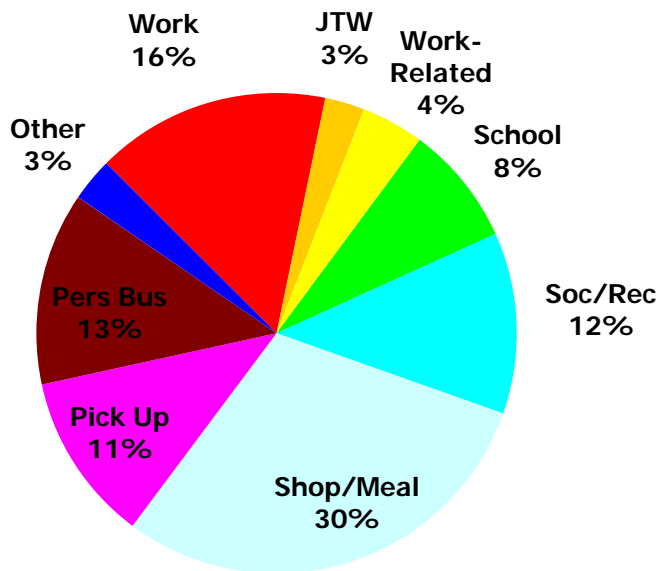
Bike mode share grew in the urban core, but fell steeply from low starting levels in the outer suburban counties. Growth in bicycling in the core has been offset by an equal decline in the outer suburbs, adding up to zero growth at the metropolitan level. The outer counties have experienced greatly increased auto traffic, much of it on narrow country roads without bike lanes or other accommodation. Fear of traffic is a commonly cited reason in surveys for not riding.

Alexandria had the largest increase at .5% followed by Arlington at .3%.

**Chart 2-6: Daily Bike Trip Share by Jurisdiction of Residence  
(1994 – 2007/2008)**



**Chart 2-7: Daily Trips by Trip Purpose**



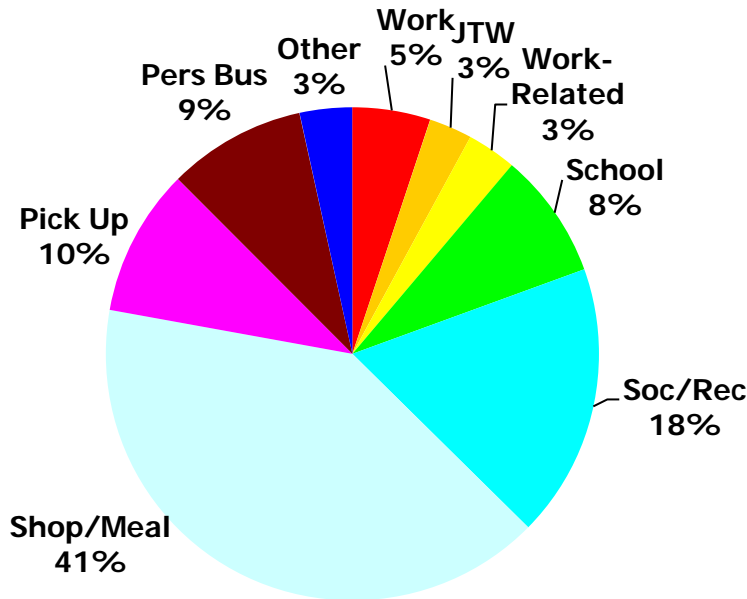
**Daily Trips by Trip Purpose in the Washington Region**

Commuter trips account for less than 20% of total daily trips in the Washington region, but have average trip lengths 3 times the distance of other trips for non-work purposes.

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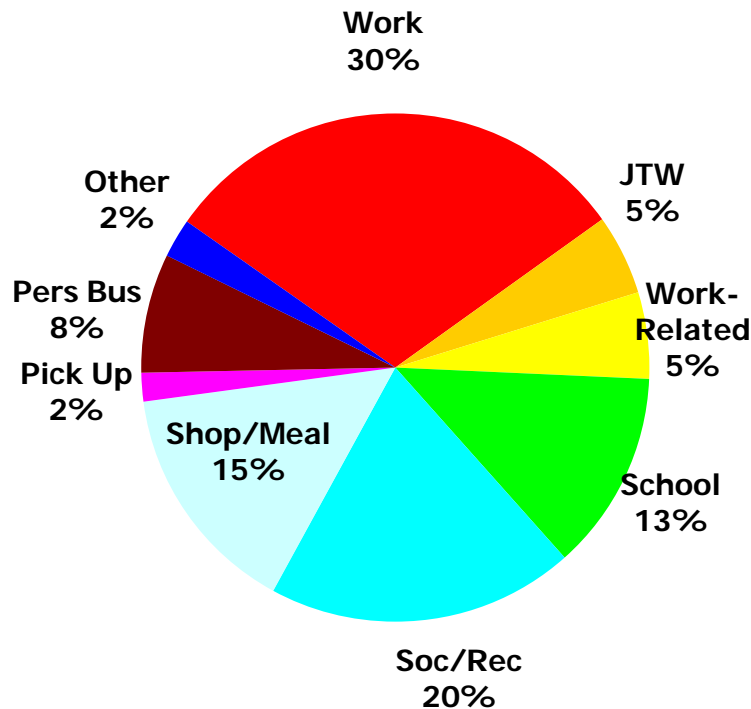
Commute trips also have the highest median trip length, at 9.3 miles.

**Chart 2-8: Walk Trips by Purpose**



The vast majority of walking trips are for shopping, meals, recreation, or social visits. Compared to all trips, pedestrians are more likely to be doing a shopping, dining, or social/recreational trip, and less likely to be going to work.

**Chart 2-9: Bike Trips by Purpose**



Bicyclists are more likely to be going to work or school than either “all trips” or “walk trips”, and are less likely to be on shopping, dining, or social/recreational trips. This is the opposite of what one might expect based on median trip lengths. A possible explanation is that most bicyclists now live in walkable urban areas and have

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short, but not quite walkable commutes, so they will commute to work by bicycle but are more likely to walk for other purposes.

Alternately, it may be that bicyclists, while few in number, tend to stick with their chosen mode for all types of trips (like car drivers). Walking is more conducive to being an access mode or being used for only some legs of a trip chain.

**Trip Lengths by Purpose**

Based on trip lengths and number of trips shown below, school, shopping/meal, social/recreational, and personal business trips might be more susceptible to being shifted to walk or bike modes than commute trips.

**Table 2-1: Trip Length Distribution by Purpose  
(Distance in Miles, 2007/2008 Household Travel Survey)**

<b>Purpose</b>	<b>25%</b>	<b>Median</b>	<b>75%</b>	<b>90%</b>
Work	4.3	9.3	17.1	25.8
To Work after other stop (JTW)	1.5	4.8	12.9	22.1
Work-Related	1.8	5.6	13.4	24.8
School	0.9	2.1	4.7	9.3
Social/Recreational	1.0	2.9	6.7	13.7
Shop/Meal	0.7	2.1	5.4	12.0
Pick-Up	0.8	2.2	5.2	11.2
Personal Business	1.4	3.5	7.5	14.9
Other	0.8	1.5	4.1	7.3

**Trip Lengths by Mode**

The median auto trip length in the Washington region is only four miles, and 25% of auto trips are 1.5 miles or less. The median auto passenger trip, which includes many child passengers, is only 2.2 miles, with 25% of auto passenger miles being 1.5 miles or less.

The median walk distance of 0.3 miles is consistent with most estimates of people’s willingness to walk. The median bike trip distance of 1.5 miles is brought down in the household travel survey by some short trips that are part of trip chains. Other sources show typical bike trip lengths as being five miles or less.

**Table 2-2: Trip Length Distribution by Mode  
(Distance in Miles)**

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

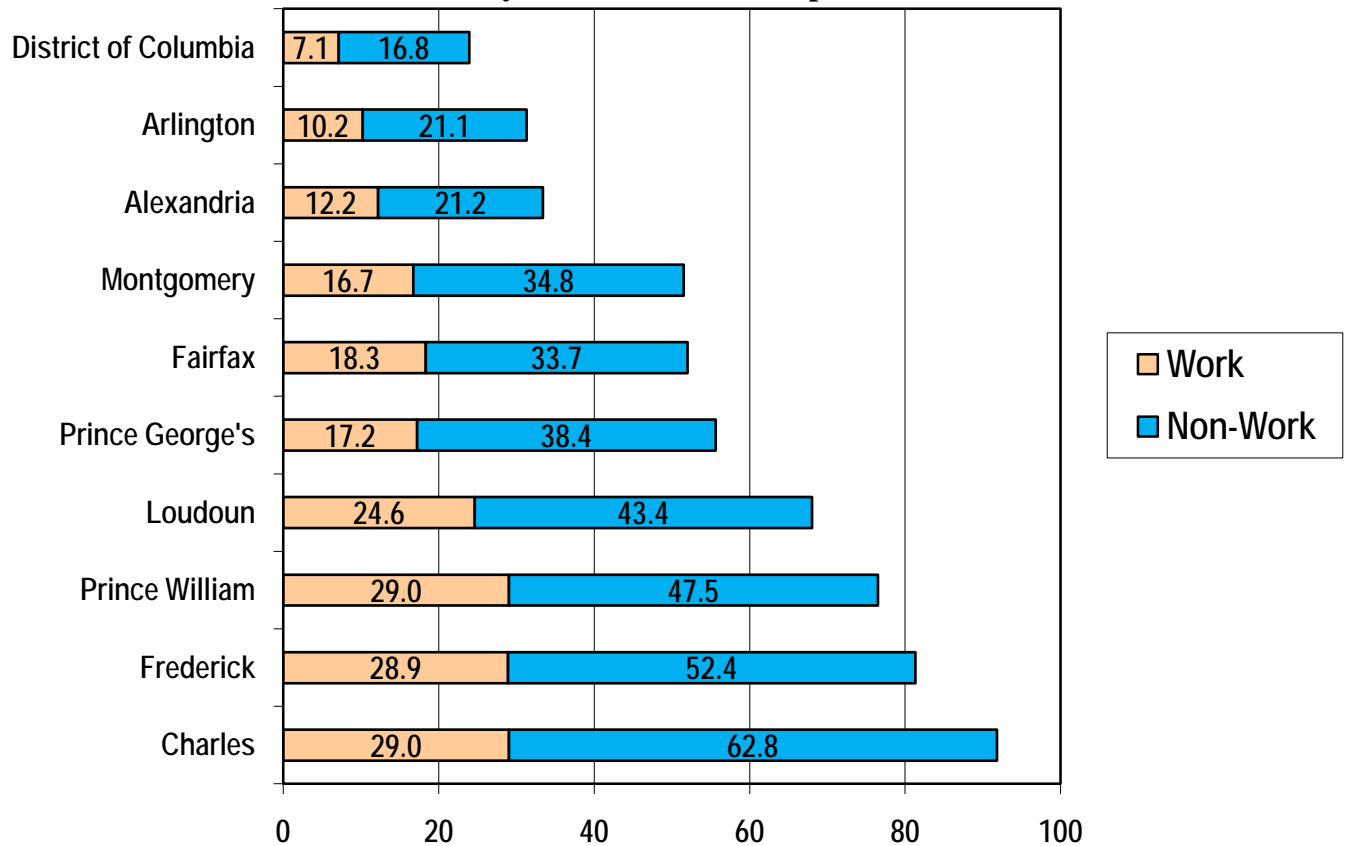
**Average Daily Miles Traveled By Jurisdiction**



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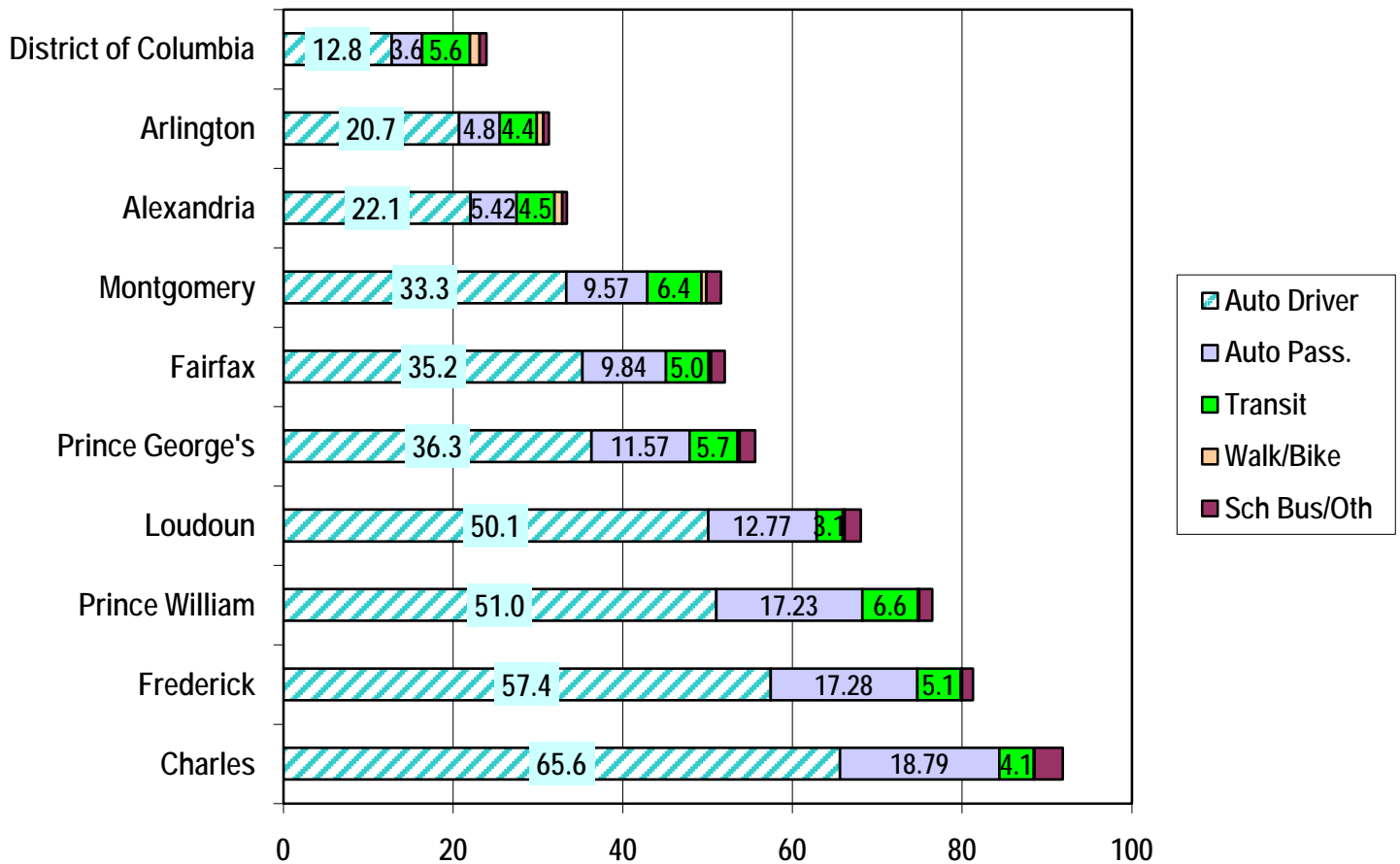
Households in the urban core make slightly fewer trips per day, and travel far fewer miles per day than households in the outer jurisdictions. The average DC household makes seven trips per day and travels 23.9 miles, while the average Charles County household makes nine trips per day, and travels 91.8 miles, or nearly four times as far.

**Chart 2-10: Average Daily Miles Traveled Per Household  
by Jurisdiction and Purpose**



Nor are all the long trips in the outer suburbs commute trips; outer suburban households travel three to four times as many non-work miles as DC households. Low-density development patterns in the outer suburbs appear to be generating trip distances which are significantly longer than what most people are willing to walk or bicycle.

**Chart 2-11: Average Daily Miles Traveled Per Household  
by Jurisdiction and Mode**



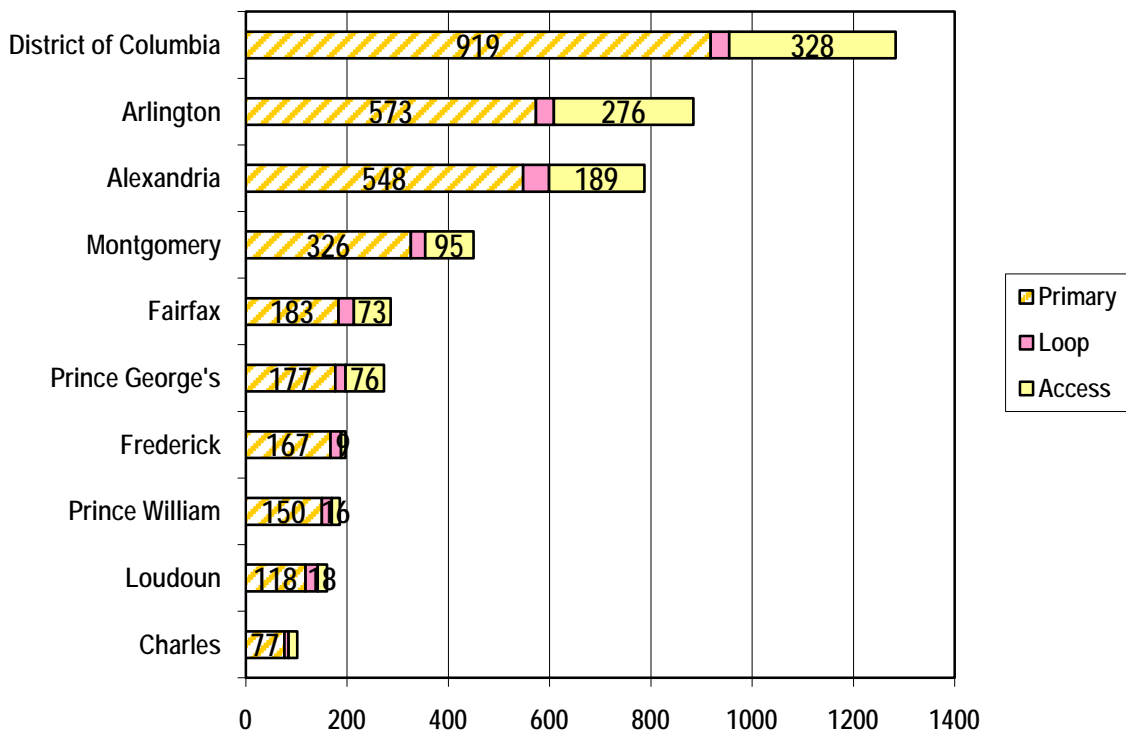
DC residents use an automobile for about half the miles they travel, while more than 90% of outer suburban residents' travel mileage is in a car, with transit and school buses accounting for the rest.

**Table 2-3: Total Weekday Walk and Bike Trips by Type in the Washington Region  
(in Thousands)**

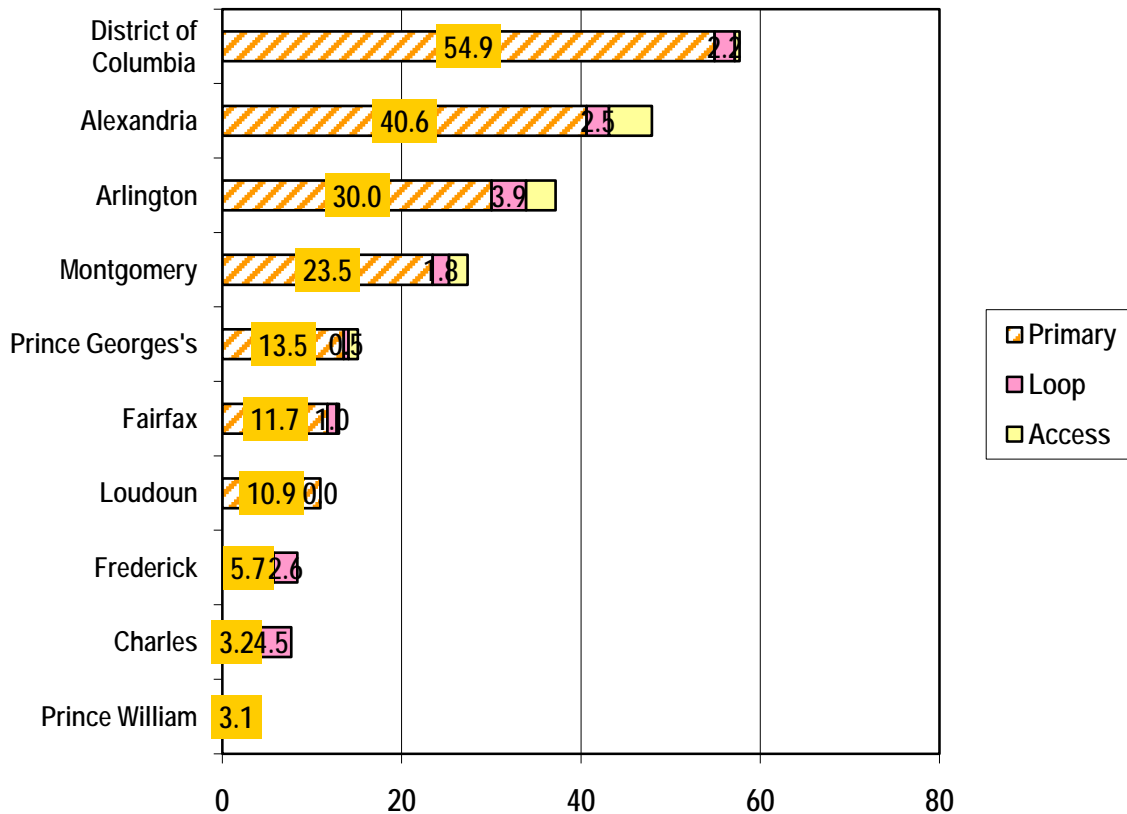
Type of Trip	Walk	Bike
<b>Primary Travel Mode</b>	1,370.0	87.5
<b>“Loop” Trips</b>	123.8	6.9
<b>Metrorail Access</b>	464.3	4.3
<b>Metrorail Egress</b>	469.0	4.0
<b>Total</b>	2,427.1	102.7

Access to transit accounts for a high proportion of the walk trips in the region, especially in the urban core.

**Chart 2-12: Weekday Walk Trips by Jurisdiction of Residence and Type  
Per 1,000 Population in Households**



**Chart 2-13: Weekday Bike Trips by Jurisdiction of Residence and Type Per 1,000 Population in Households**



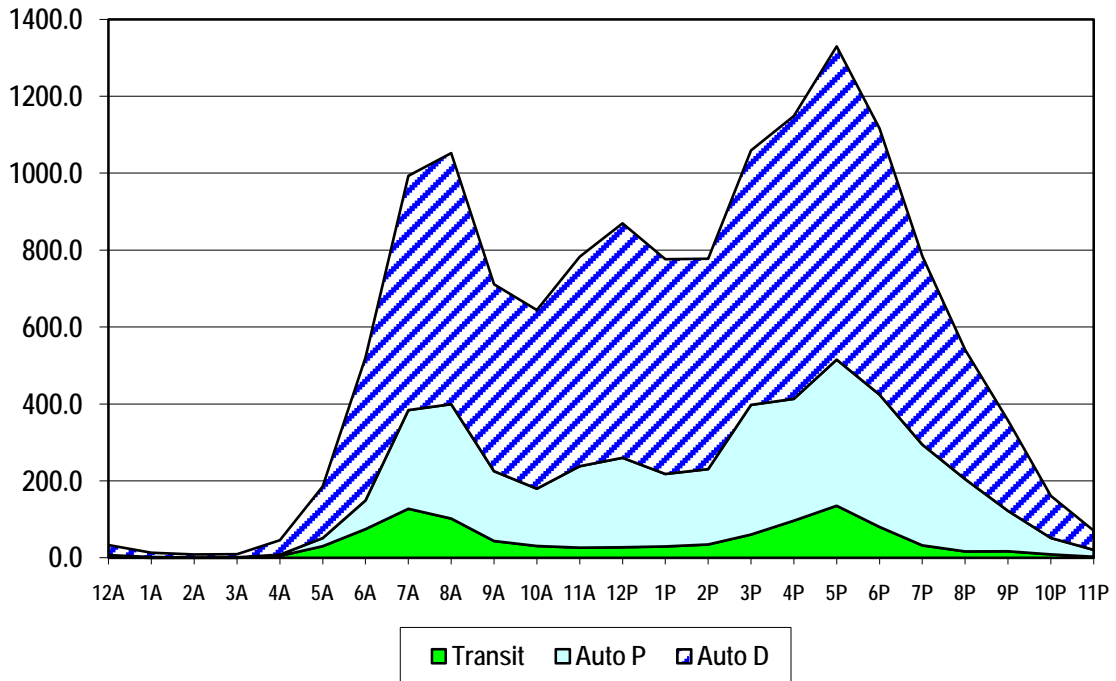
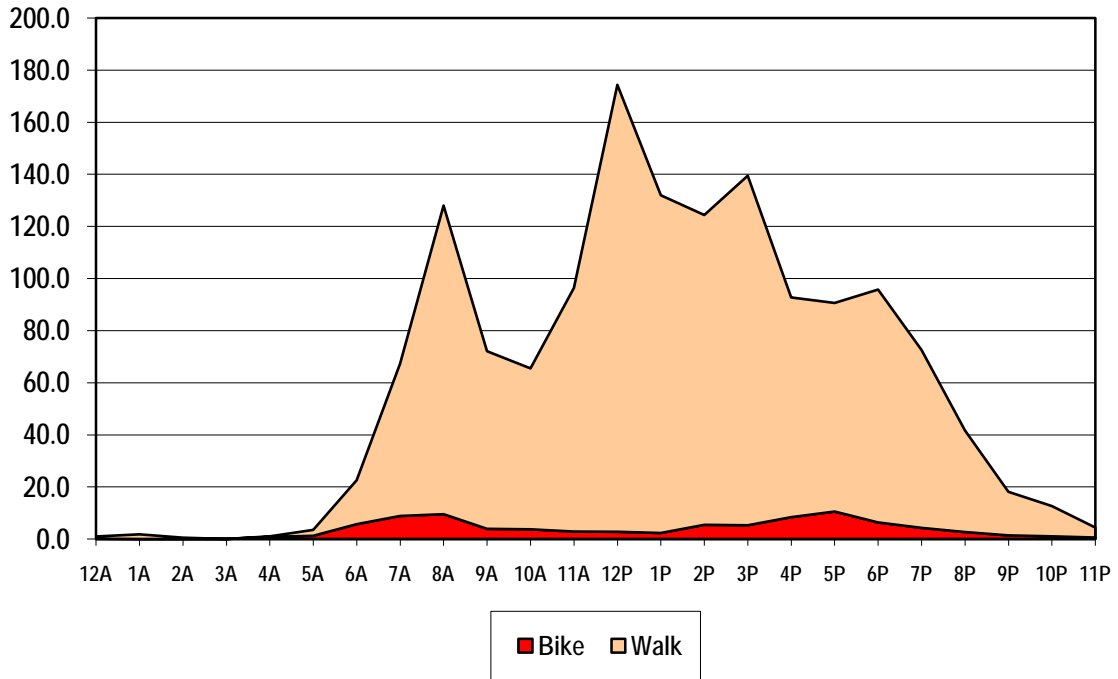
While DC residents are most likely to bicycle, Alexandria and Arlington are most likely to use bicycle to access Metrorail. Charles County has the highest rate of “loop” bicycle trips.

**Walking and Bicycling by Time of Day**

Walk trips peak at lunch hour, then around 3 p.m. when school lets out, and then during the morning rush hour just before 8 a.m. This is different from auto, auto passenger, and transit modes, which are highest at 5 p.m, and next highest at 8 a.m.

Bike trips are much more evenly distributed throughout the day than other modes. Bike trips peak at the evening and morning rush.

**Chart 2-14: Walking and Bicycling by Time of Day**



### **Walking and Bicycling Trends According to the US Census**

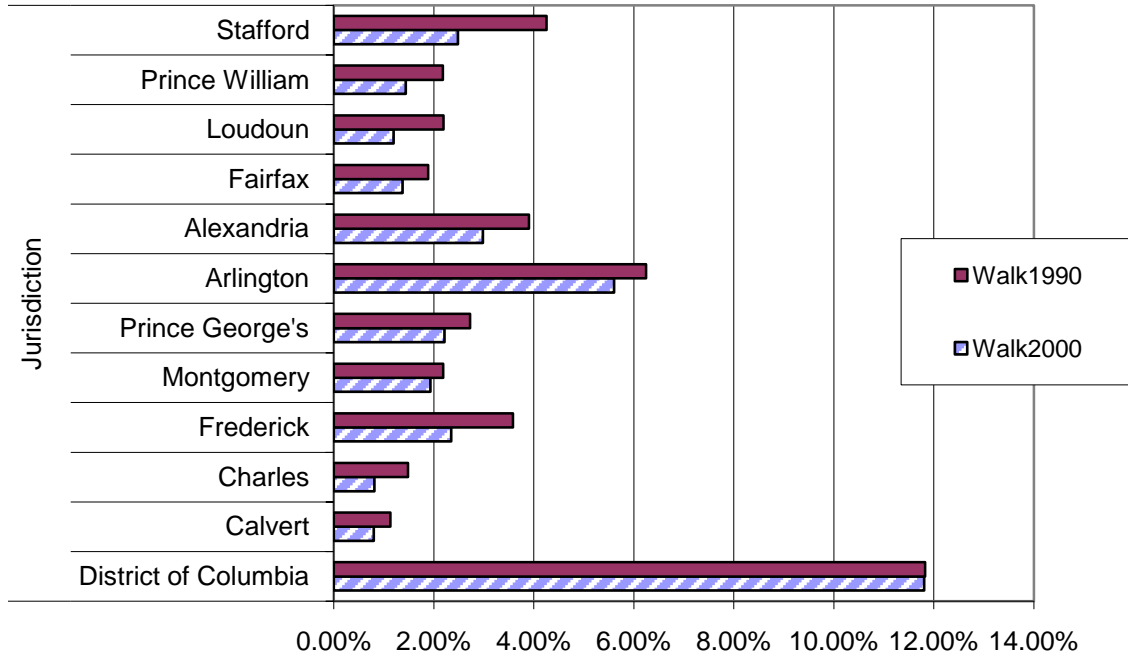
The last United States census was the 2000 census. The Census contains no information on travel in general, but does gather data on journey to work. The main thing the census can offer which the COG/Household Travel Survey does not is accurate information on journey work as the census tract level. Since bicycling and walking vary a lot by neighborhood, even block to block, this kind of fine-grained information is useful. However, at this point the 2000 census information is somewhat dated.

The 2010 census form will be shortened, and the decennial census will no longer provide information on journey to work. In place of the long form, the census bureau carries out an annual survey, the American Community Survey (ACS), which contains information on journey to work. However, the ACS sample is too small to be reliable on a census tract level. Currently a three-year rolling average of data is available. When five-year averages become available, in about a year, it will be possible to say something about bike and mode share at the census tract level.

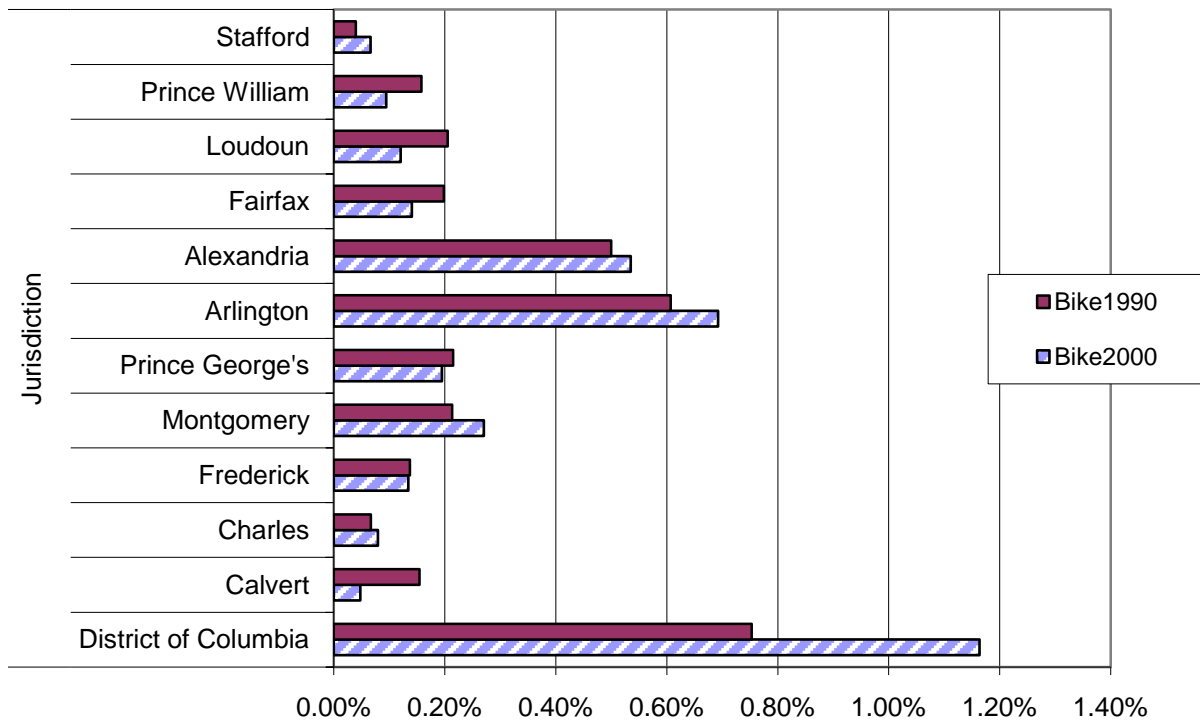
The 20<sup>th</sup> Century trend towards less walking and bicycling also held for the Washington Metropolitan Statistical Area. In 1990, 6,633 people (0.3 %) biked to work on an average day in the Washington area and 85,292 (3.9 %) walked. In 2000, 7,532 people (0.3%) biked to work and 72,700 (3.1%) walked. It should be noted that the census numbers tend to undercount pedestrian trips, since a walk trip to transit is counted as a transit trip, not as a walk trip. Charts 2-15 and 2-16 below show the changes in walking and biking to work by jurisdiction.

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**Chart 2-15: Percentage of Workers Walking to Work**



**Chart 2-16: Percentage of Workers Biking to Work**



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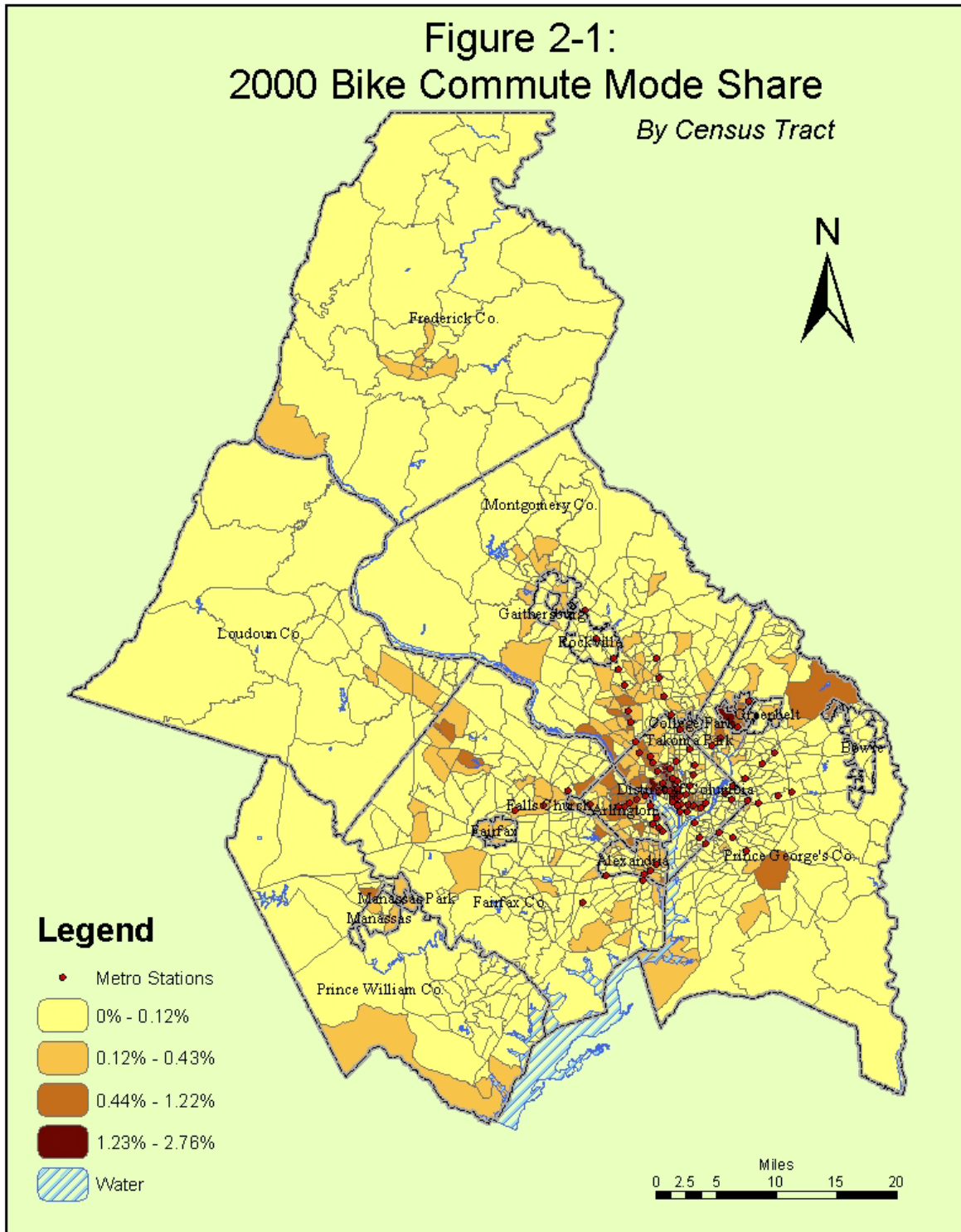
Generally, the urban core of the Washington region, consisting of the District of Columbia, Arlington, and Alexandria, has experienced modest losses in pedestrian mode share and considerable gains in bicycling. The District of Columbia has maintained its pedestrian mode share for the journey to work, while increasing its bicycle mode share considerably. The outer suburban jurisdictions had relatively few people bicycling or walking to work in 1990, and that number fell further during the decade that followed.

### **Mode Share by Census Tract**

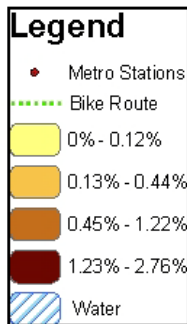
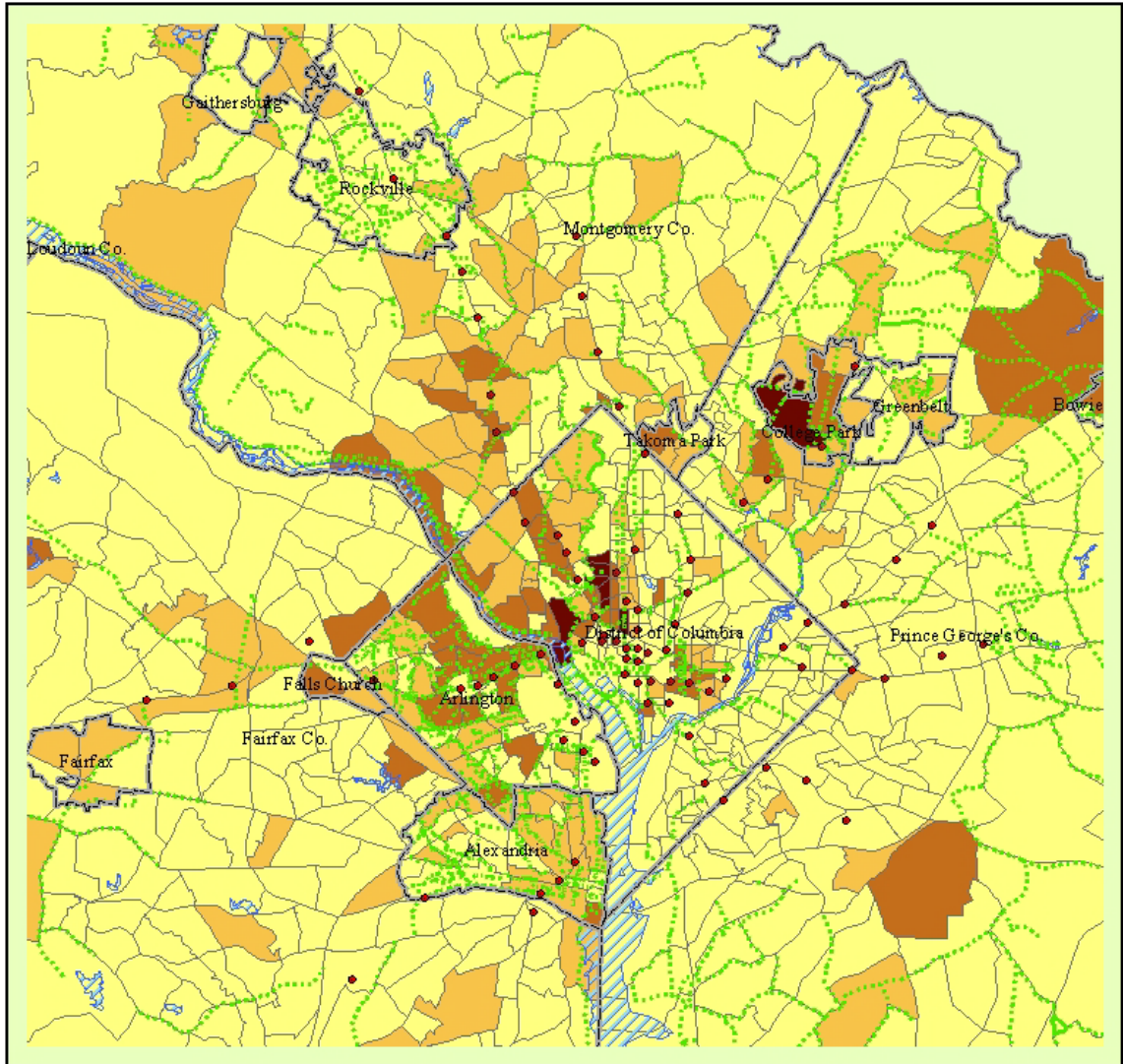
Figure 2-1 shows the percentage of home-based work trips by bicycle for each census tract within the TPB member jurisdictions. Figure 2-3 shows the percentage of home-based work trips by foot. Figures 2-2 and 2-4 show bicycle and walk work trips respectively for the area served by Metrorail. The maps show that bicycling and walking are concentrated in the neighborhoods surrounding downtown D.C., Capitol Hill, and North Arlington. The neighborhoods closest to downtown show the highest walk mode shares, while those a little further out have the highest bike mode shares. Census tracts abutting major facilities such as the W&OD, the C&O, and the Mt. Vernon Trails tend to show higher levels of bicycling. College campuses and military bases such as University of Maryland, Ft. Meyers, Bolling Air Force Base, the National Institute of Health, Walter Reed, Howard, Georgetown and Gallaudet all have high walk or bike mode share.



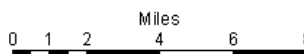
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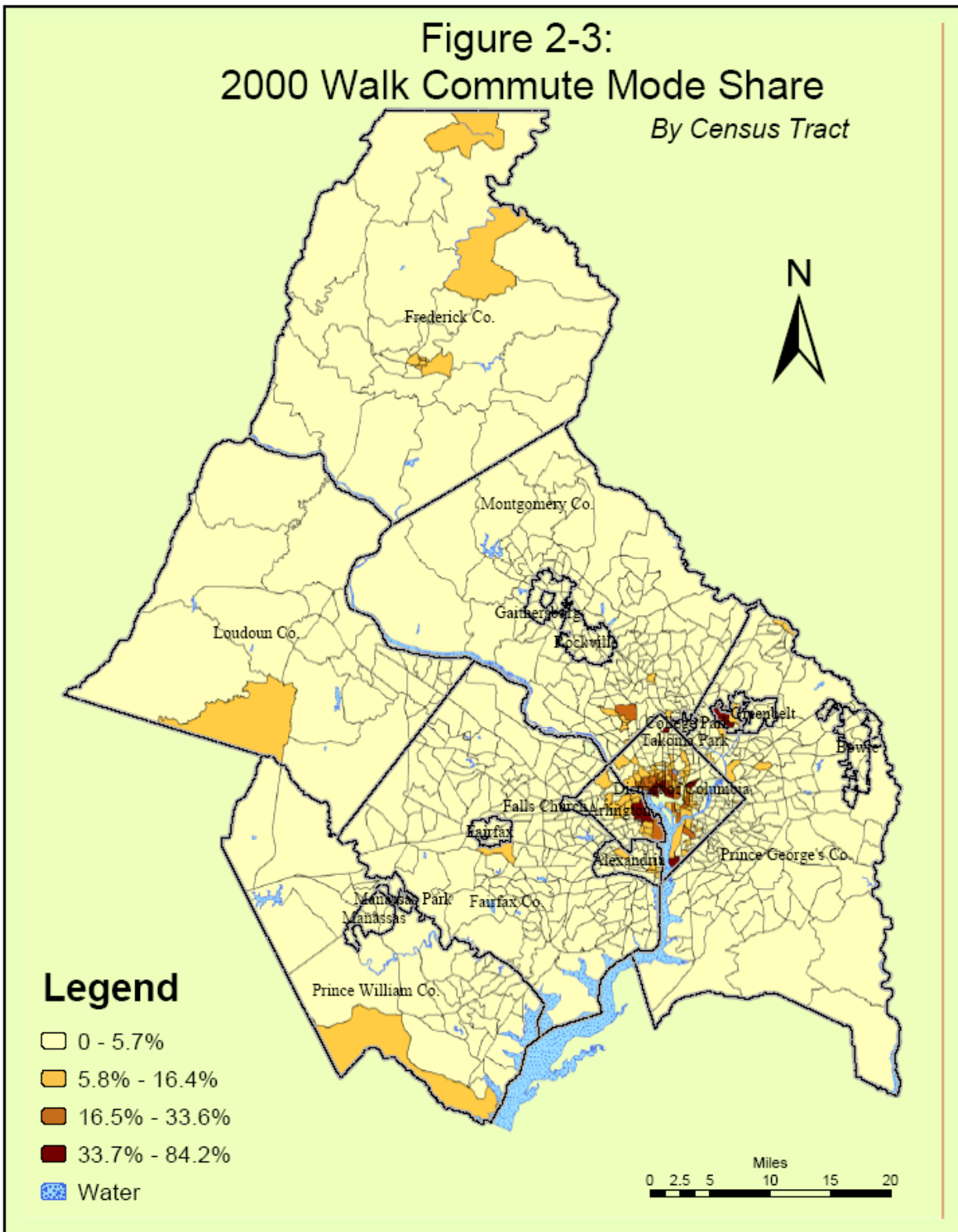
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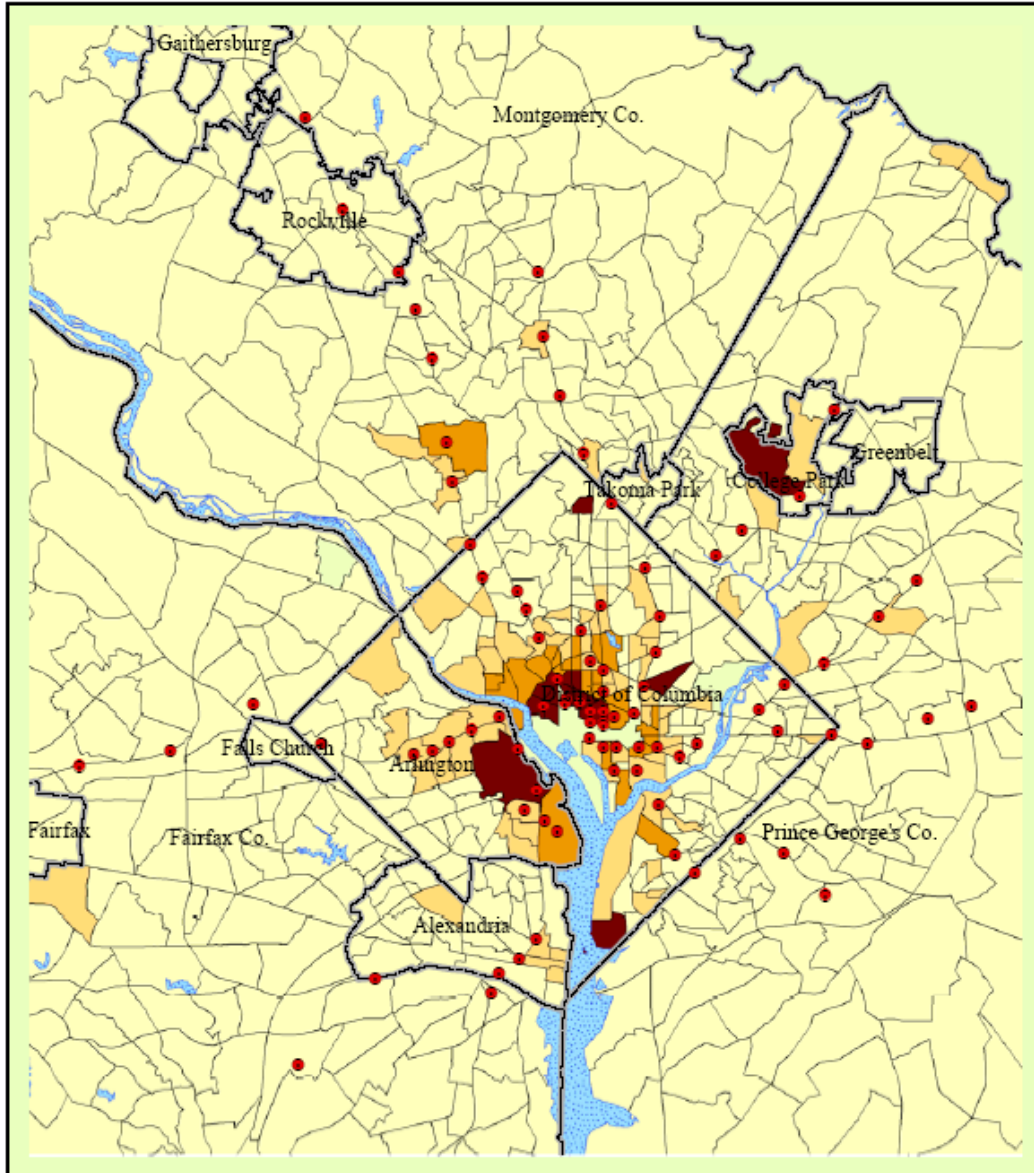
**Figure 2-2:**  
**2000 Bike Commute Mode Share**  
*By Census Tract*



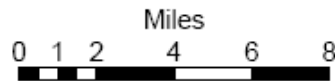
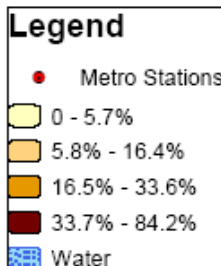
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**Figure 2-4:**  
**2000 Walk Commute Mode Share**  
*By Census Tract*



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**Bicycling in the Metro Core**

COG/TPB periodically takes a count of vehicular traffic, including bicycle traffic but excluding pedestrian traffic, entering downtown D.C. and Arlington, as well as traffic crossing the beltway. Cordon counts are not done in other parts of the region.

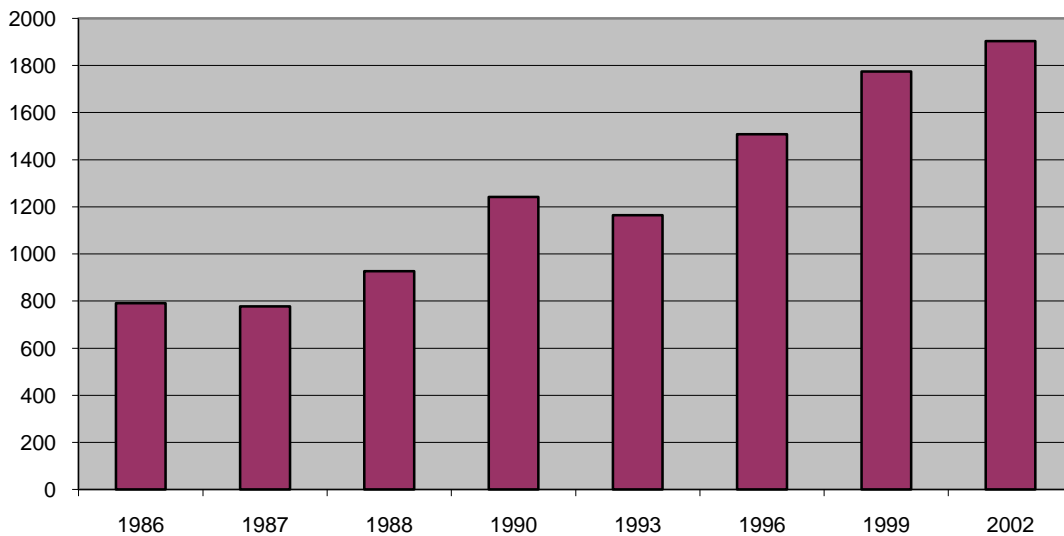
*Bicycling is  
Growing  
Rapidly in  
Downtown D.C.  
and North  
Arlington*

COG/TPB's cordon counts confirm the census data indicating a concentration of bicycling in the neighborhoods close to downtown D.C., Arlington, and Alexandria.

The counts show that bicycle traffic into the downtown Metro core is growing rapidly, with bicycle traffic into the D.C. section of the Metro core more than doubling from 1986 to 2002. The number of bicyclists entering the Metro core within the District of Columbia has grown steadily from 474 in 1986 to 1,379 in 2002. The number of cyclists crossing the Potomac bridges grew from 317 in 1986 to 525 in 2002.

Bicycle traffic into the Arlington section of the Metro core increased from 409 to 645 bicyclists between 1999 and 2002, while Potomac bridge traffic declined slightly over the same period, indicating that more people are bicycling to destinations, probably employment, within Arlington in the morning. Chart 2-17 shows the number of bicycles entering the D.C. section of the Metro core from 1986 to 2002.

Chart 2-17:  
Bicycles Entering D.C. Section of the Metro Core

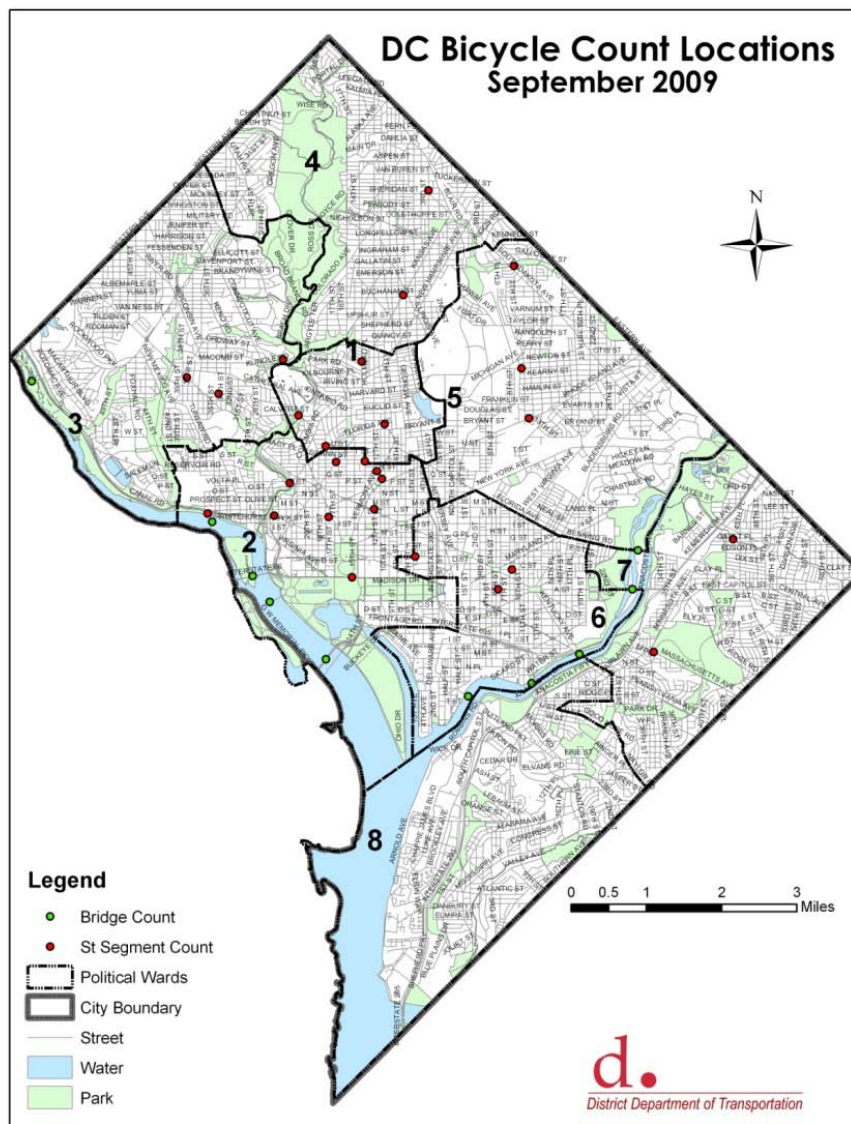


Bicycle traffic is also counted on the beltway cordon, including traffic on shared-use paths, but the a.m. volumes recorded are a fraction of the numbers entering the Metro core.

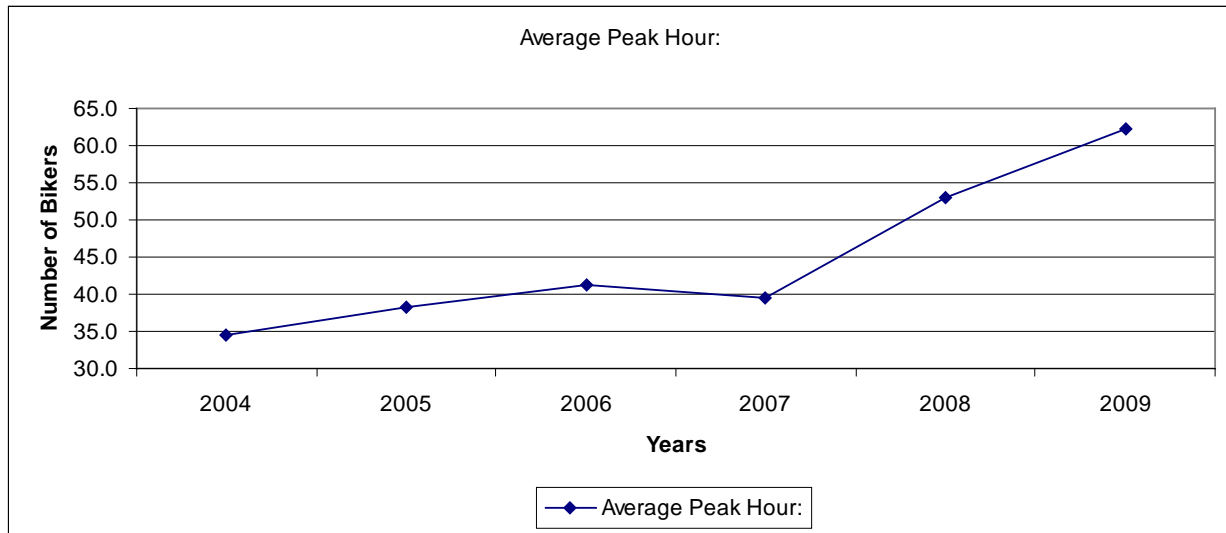
**District of Columbia Bicycle Counts**

The District of Columbia Department of Transportation has an annual bicycle count program since 2004, which in 2008 and 2009 was performed under contract by COG/TPB. Counts are taken at selected locations in the District Columbia, and on the bridges entering the District of Columbia. Numbers varied a lot by location; bridge locations and some central locations had hundreds of bicyclists per hour, others, in the outer wards, had few or none.

**Figure 2-5: DC Bicycle Count Locations**



**Chart 2-18: Average Peak Hour Bike Counts in DC**



Overall, peak hour bicycle counts have increased 84% since 2004. The period since 2007 has seen the most rapid growth.

### **Demographic Characteristics of Pedestrians and Bicyclists**

Ethnicity, geography, income, age, and car ownership affect the decision to walk or bicycle to work. The best recent source of this demographic information on pedestrian and bicycle commuters in the Washington region is the 2007 Commuter Connections *State of the Commute Survey*. However, the *State of the Commute Survey* and the US Census both measure work trips only, and the conclusions in terms of both the prevalence and distribution of walking and bicycling can be quite different for all trips than for work trips. Nationally, the 2001 *National Household Personal Transportation Survey* is the best source of demographic data on pedestrians and bicyclists for all types of trips.

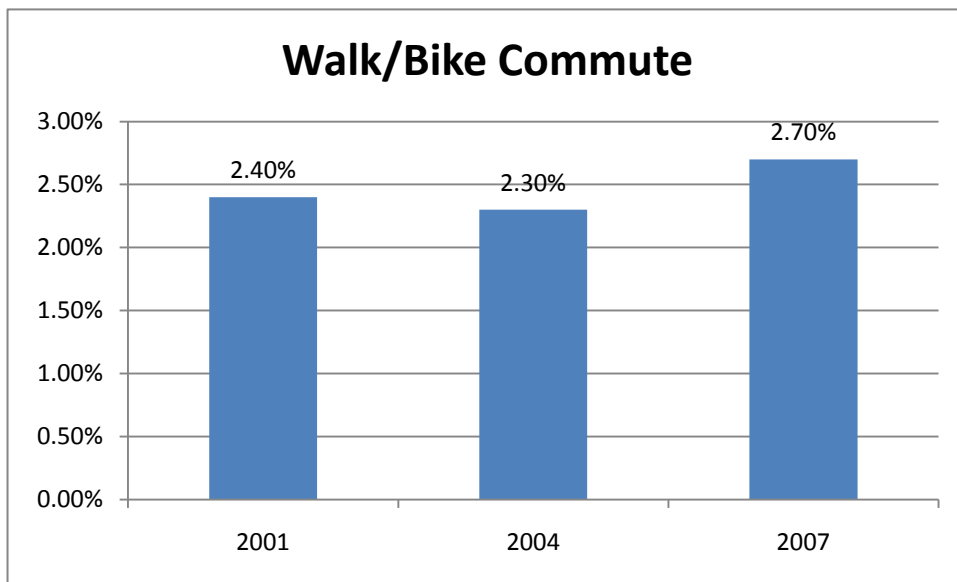
All data in the following tables comes from the 2007 *State of the Commute Survey* unless otherwise noted. Walking and bicycling were not calculated separately in the *State of the Commute Survey* for the subcategories of ethnicity, income, age, and state of residence due to sample size issues. All mode shares are for primary commute mode, 3+ days per week. Walk/bike mode share varies by household income, state of residence, number of vehicles in the household, ethnicity, and age.

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The 2007 *State of the Commute* shows a modest increase in walking and bicycling, from 2.4% in 2001 to 2.7% in 2007. *State of the Commute Surveys* show lower mode share for walking and bicycling than does the 2000 Census, a discrepancy probably explained by differing methodologies.

**Chart 2-19: Walk/Bike Commute Mode Share**



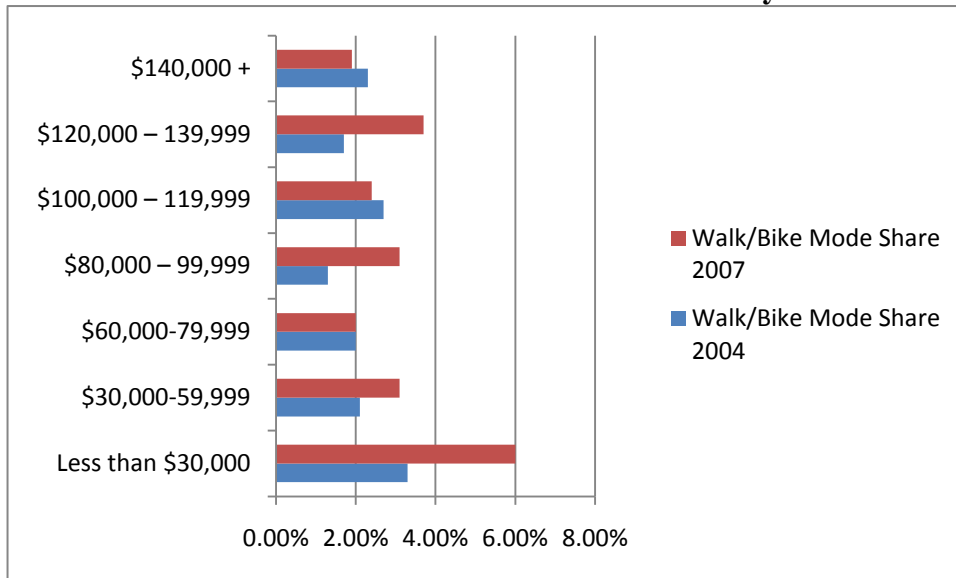
**A. Household Income**

Chart 2-4 shows walking and bicycling commute mode share by income. Walking and bicycling to work are somewhat more prevalent among the low-income (less than \$30,000 household income per year) than among the very high-income (more than \$140,000 per year). Bicycling and walking are slightly more common at the top and the bottom of the income distribution than in the middle. This is roughly consistent with the national data for all trips.



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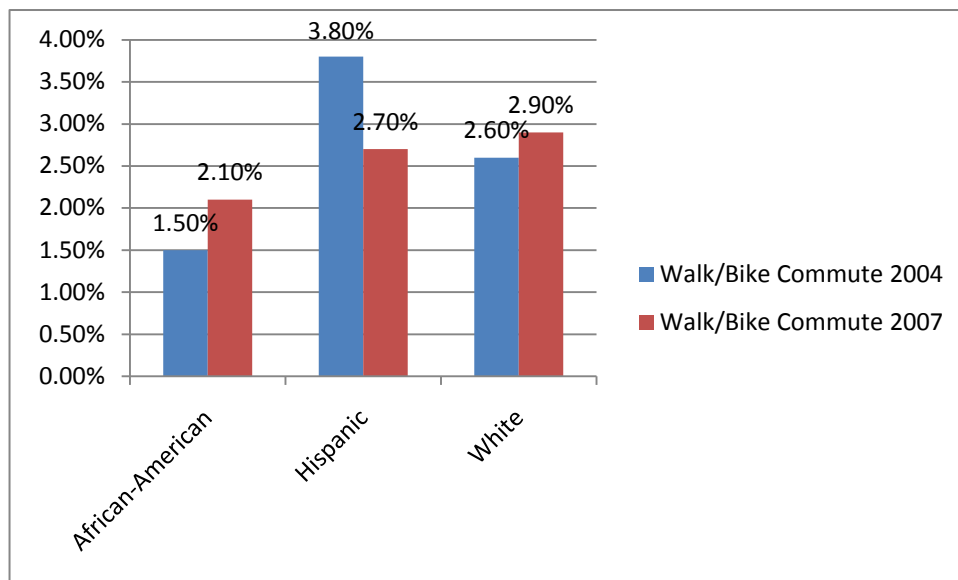
**Chart 2-20: Walk/Bike Mode Share by Income**



**B. Ethnicity**

Walk/bike commute mode share differs more by ethnicity than by income. Whites have the highest walk/bike mode share at 2.9%, African-Americans the lowest at 2.1%.

**Chart 2-21: Walk/Bike Commute Mode Share by Ethnicity**



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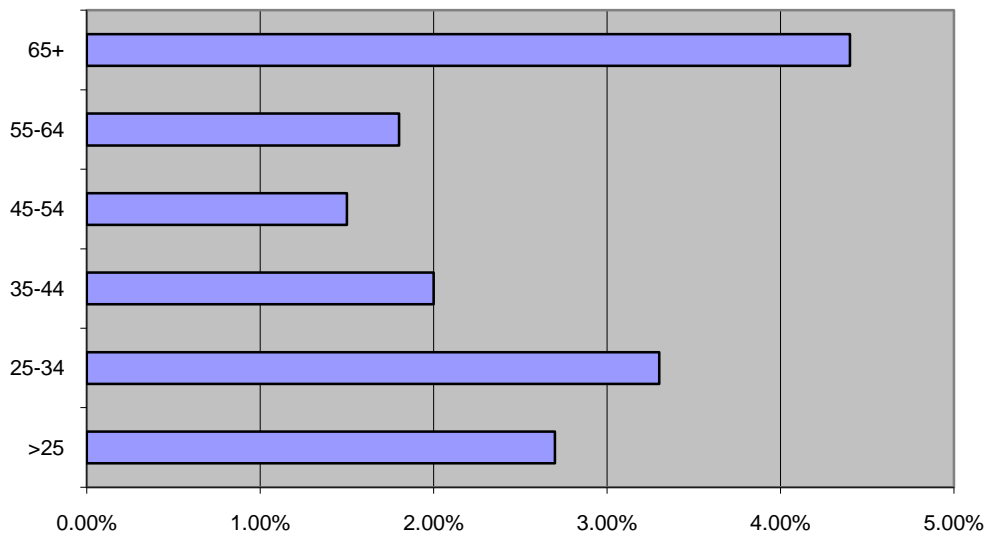
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National data for all trips, however, show African-Americans and Hispanics both walking for about 12% of all trips, though African-Americans bicycle less. Whites walk less than any other ethnic group, but take 0.9% of their trips by bike, the same as Hispanics.<sup>5</sup>

**C. Age**

Chart 2-6 shows walk/bike commute mode share by age. People under 35 and over 65 are more likely to walk or bike to work than the middle-aged. Nationally the elderly have a lower than average mode share for bicycling, so we can presume that most of the elderly are walking rather than bicycling.

**Chart 2-22: Walk/Bike Commute Mode Share by Age**



**D. Motor Vehicles per Household**

Vehicles per household is another strong predictor, as shown in Table 2-4. People in households without any vehicles are much more likely to walk or bike to work than households that own one, while those living in households with one vehicle are more likely to walk or bicycle to work than those owning more than one vehicle. Non-work trips also shift radically away from walking in households that have at least one car.

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<sup>5</sup> Ibid, p. 68.

**Table 2-4  
Walk/Bike Mode Share by Number of Vehicles**

Number of Vehicles in the Household	0	1	2	3	4+
Walk/Bike Commute Mode Share 2004	11.40%	3.70%	1.20%	1.40%	0.60%
Walk/Bike Commute Mode Share 2007	12.40%	4.0%	1.20%	1.40%	0.60%
Walk Mode Share – All Trips (NPTS) <sup>6</sup>	41.1%	12.5%	7.8%	6.3% (3 or more)	
Bike Mode Share – All Trips (NPTS)	2.4%	0.7%	0.9%	0.8% (3 or more)	

**Trip Distances**

Distance was the third most frequently cited reason, by 28% of respondents, to COG/TPB’s 2007 Bike to Work Day survey to explain why they were *not* riding to work. Reasons One and Two were “Don’t ride in cold/winter” (34%) and “No safe route” (33%). So trip distance is of great interest when gauging the potential for increasing bicycling (or walking). The 2007 SOC survey asked respondents about the length of their commutes. Commute mileage is shown in Table 2-5 below.

**Table 2-5: Commute Distance**

Distance	Less than 5 miles	5 to 9 miles	10 to 14 miles	15 to 19 miles	20+ miles
Percentage	17%	20%	17%	12%	33%

17% of commutes in the Washington region are less than five miles and therefore potentially bikable on a daily basis. The average commute distance for Bike to Work Day survey respondents was 10.1 miles.

Another major potential source of walk or bike trips is the trip to transit, park and ride lot, or vanpool and carpool pick-up point. As shown in Table 2-6, access trips to alternative mode meetings points tended to be short. Respondents traveled an average of 3.1 miles.

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<sup>6</sup> Ibid, p. 57.

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The majority of respondents (51%) traveled one mile or less to the meeting point. Another 14% said they traveled between two miles. Only 11% of respondents traveled more than five miles. Based on the distances being traveled, many of the 28% of respondents who are currently driving to their alternative mode meeting point might be able to walk or bicycle instead.

**Table 2-6**  
**Distance Traveled from Home to Alternative Mode Meeting Point**

(n=1,230)

Distance	2004	2007
1 mile or less	59%	51%
2 miles	10%	14%
3 miles	7%	8%
4 to 5 miles	9%	12%
6 to 10 miles	10%	11%
11 miles or more	5%	4%

**Table 2-7**  
**Means of Getting from Home to Alternative Mode Meeting/Transfer Point**

(n=1,577)

Access Mode to Alternative Mode	2004	2007
Walk	39%	35%
Picked up at home	15%	12%
Drive to a central location (e.g., Park & Ride)	18%	18%
Drive alone to driver's/passenger's home	11%	10%
Bus/transit	9%	12%
I am the carpool/vanpool driver	5%	10%
Dropped off/another CP/VP	1%	1%
Other*	1%	2%

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**Walking and Bicycling to Transit**

Walking is the dominant mode of access to transit. The census walk to work mode share does not include walk trips to transit, since a walk trip to transit is counted as a transit trip

rather than as a walk trip. In areas with high transit ridership the census walk to work numbers significantly undercount the amount of walking to or from work. According to the 2004 *State of the Commute Survey*, 83% of bus commuters walk to the bus.<sup>7</sup>

In 2007 WMATA surveyed passengers at all 86 of its Metrorail stations. The primary purpose of the survey was to estimate the percentage of total ridership residing in each jurisdiction. Passengers *entering* each Metro station were queried throughout the entire day, so the “mode of access” number for any given Metro station includes both people on their way to work or some other destination, and those on their way home. “Mode of Access” is the mode people use to get to the station, not to leave it. Appendices E and F show mode of access to Metrorail by station.<sup>8</sup>

**62.1% of  
Metrorail  
Passengers  
Walk to the  
Station**

In 2007 62.1% of all Metrorail passengers walked to the station, which is slightly more than in 2002. 0.55% arrived by bicycle, an increase from the 0.31% who arrived by bicycle in 2002. 13.7% drove, and another 6.1% arrived as auto passenger or were dropped off by someone. 15.6% arrived at the Metro station by bus.

However the AM peak results, which are the best measure of how people access the system (as opposed to any particular station), show higher auto mode and bus mode of access. Pedestrian mode of access for the AM peak is only 33.3%. and bike is 0.7%. Nearly 40% of Metrorail customers get into the system by automobile.

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<sup>7</sup> 2004 *State of the Commute Survey Results*. Metropolitan Washington Council of Governments, p. 63.

<sup>8</sup> 2007 WMATA Rail Passenger Survey, from the table “Origin Station by Mode of Access”.

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<b>Table 2-8 Mode of Access to Metrorail in 2007</b>	<b>Percent of Daily Total</b>	<b>AM Peak</b>
Bus	15.6	22.3
Auto Driver	13.7	29.3
Auto Passenger	5.5	9.3
Rode with someone who Parked	0.6	1
Bike	0.5	0.7
Walk	62.1	33.3
Commuter Rail	1.7	3.8
Taxi	0.2	0.2

Mode of Access varies greatly by station, from Capitol South, with 95% access by foot, to Branch Avenue, with 3.7% access by foot. The thirty stations for pedestrian access (as a percentage of total passengers accessing that station) are all located in the District of Columbia, Arlington, or Alexandria. Stations with a very high share of pedestrians tend to be located in major employment centers, with people walking from work to the station, rather than from home to the station. However, largely residential-area stations such as Cleveland Park, Eastern Market, and Columbia Heights are found in the top twenty. Dense, mixed-use areas such as Bethesda, Foggy Bottom, Crystal City, Pentagon City, Friendship Heights, Van Ness, Dupont Circle, Shaw, and the Rosslyn-Ballston Corridor have high percentages of pedestrian access as well.

The bicycle mode of access to Metrorail ranged from 4% at West Hyattsville to zero at 14 stations.<sup>9</sup> Stations with more bicycling tended to be located in the western portion of the region, have access to a major shared-use path, be near a major University, and/or be located in an area with a bicycle-friendly street grid. Stations with no bicycling are either in dense urban employment centers with no bicycle parking, or are located in the eastern portion of the region. Brookland CUA was a notable exception, with no bicycle access despite the presence of a university.

Of the sixteen stations located east of the Anacostia River in 2007, ten had bicycle access that rounded to zero. All stations in Fairfax and Montgomery Counties had some bicycle use. The WMATA *Rail Passenger Survey* confirms what the census tells us about the

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<sup>9</sup> 2007 WMATA Rail Passenger Survey, Table "Mode of Access"

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distribution of walking and bicycling in the region, with walking and bicycling heavily concentrated in the Metro core and at certain inner suburban stations.

### **Outlook**

Walking and bicycling taken together are significant travel modes in the Washington region, especially for non-work trips, and for trips to transit. Walking is the larger mode, and it is growing, while cycling is less common, and is stable at the regional level.

Commutes are getting longer across the region, and the fastest population growth is taking place in outer jurisdictions that have low and declining levels of walking and bicycling. Those areas have developed in ways that make utilitarian walking and bicycling difficult and dangerous, with long distances, lack of direct routes, heavy, fast automobile traffic, and incomplete facilities for walking or bicycling.

The story in the urban core is different. In the District of Columbia, Arlington, Alexandria, and portions of Montgomery County, walking and bicycling are growing rapidly. In mixed-use activity centers people walk and bicycle. Where land uses are separated and development densities are lower, walking and bicycling are much less common.

It is likely that the urban core and inner suburban communities will develop over the next thirty years in ways that will be conducive to walking and bicycling. In 2005 73% of the region's employment was found within a series of "regional activity clusters", or concentrations of employment and housing identified by the TPB. Many inner suburban activity centers have already reached critical levels of traffic congestion, and regional projections call for rapid employment growth in these same areas. Seventy-two percent of regional employment growth to 2030 is planned to take place within these clusters, as well as fifty-four percent of household growth.<sup>10</sup> Under "Complete Streets" policies new

*Growth in  
Walking and  
Bicycling will  
likely occur in the  
Urban Core and  
Regional Activity  
Centers*

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10 Metropolitan Washington Council of Governments, *Growth Trends to 2030: Cooperative Forecasting in the Washington Region*, October, 2005. Pp. 2, 14-15.

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development should accommodate pedestrians and bicyclists. If growth occurs in ways that are consistent with the TPB *Vision* and *Region Forward 2050*, creating activity centers that mix jobs, housing and services in a walkable environment, we can expect walking and bicycling to increase.



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### **Summary of Data Sources**

Major sources of data for bicycling and walking in the Washington region include the 1994 and 2007/2008 COG/TPB *Household Travel Surveys*, the US Census, the Commuter Connections *State of the Commute Survey*, COG/TPB's cordon counts, DDOT's bicycle counts, pedestrian and bicycle crash data from the Departments of Transportation, WMATA's 2002 and 2007 *Rail Passenger Surveys*, and the 2007 *Bike to Work Day Survey*.

#### **A. COG/TPB Household Survey**

The household travel survey is a roughly once in a decade survey of households in the greater Washington region. The survey was done in 1994, and again in 2007-2008. It is the best available source of information on travel mode shares in the Washington region.

For the most recent survey, 11,000 randomly selected households in TPB Region and adjacent areas (+3,500 in the Baltimore Region) were surveyed. Higher numbers of samples were taken in higher density, mixed use urban areas, and regional activity centers. The sample was address-based. Interviews were conducted between February 2007 and March 2008. Travel is weekday travel only; week-end travel was not counted.

#### **B. 2000 US Census**

The most fine-grained data on travel behavior comes from the Census. Every 10 years the Census Bureau asks roughly one in seven individuals (those who fill out the 'long form') how they get to work. People are polled at their home, not at their place of work. The most recent data available is from the 2000 Census. The biggest limitation of the Census data is that it only contains commute trips. Only one quarter of all trips in the Washington region are commute trips.<sup>11</sup> However, commute trips occur at the most congested time of day.

For the 2010 census there will be no long form. Instead, a five-year rolling average of the annual American Community Survey will be used to discover travel mode shares.

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11 National Capital Region Transportation Planning Board, *1994 COG/TPB Household Travel Survey: Summary of Major Findings*. January, 1998. Page 4.

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**C. Bike Counts**

COG/TPB's cordon counts are conducted by machine or in person, on specific roads or trails. In cordon counts, COG/TPB counts the volume of traffic crossing a series of points along an imaginary circle. For example, one cordon line is the Capital Beltway. At approximately 60 points along the Beltway, COG/TPB counts all vehicles crossing over or under the Beltway. Another cordon line is known as the Metro Core, circling downtown DC and part of Arlington. Counts take place on a single day, so results may vary widely depending on weather, transportation incidents, security emergencies, or other factors. Pedestrians are not counted. Bicyclists crossing the cordon line may or may not be commuters; they are counted but not stopped or asked their trip purpose. In most cases the numbers represent only one day of counting and can not be viewed as a daily average.

The District of Columbia also contracts with COG/TPB to do bicycle counts within the District, as described on page 2-24.

**D. 2007 Commuter Connections State of the Commuter Survey**

The *State of the Commute Survey* is a random sample survey of 6,610 employed persons in the 11 jurisdictions of the Washington Metropolitan designated (air quality) non-attainment region. Commuter Connections commissions this survey in order to evaluate the effectiveness of its programs. The region polled is the Washington Metropolitan Statistical Area, shown in figure i-1 on page i-4, minus Stafford County but adding Calvert and Charles Counties. The sample size of the *State of the Commute Survey* permitted the calculation of walk/bike mode shares by annual income, ethnicity, age, and state of residence.

The SOC survey does not provide any information on non-work trips. Surveys were carried out from January 31<sup>st</sup> to April 28<sup>th</sup>, 2007, by telephone, and asked about behavior "last week". This methodology differs somewhat from U.S. Census, which asks about behavior during the first week in April. The 2001 and 2004 SOC surveys show lower numbers for walking and bicycling than does the census.

**E. 2007 WMATA Rail Passenger Survey**

In 2007, Metro conducted a survey of its rail passengers. Surveys were distributed to rail patrons entering stations on weekdays between April 17 and May 24, 2007. Data were collected for the full day, divided into a.m. and p.m. peak and off-peak periods. Riders could

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drop off responses in collection boxes stationed throughout the system or return them by mail. The primary purpose of the survey was to allow Metro to estimate the percentage of total ridership residing in each jurisdiction. However, the survey also asked riders what mode of transportation they used to access or egress the station. 66,321 valid survey responses were obtained.

**F. 2007 Bike to Work Day Survey**

The *Bike to Work Day Survey* is a survey of participants in the regional Bike to Work Day of May 18, 2007. It is not a random sample, but it provides a portrait of a self-selected group of cyclists. In November 2004, COG/TPB mailed surveys to all 6,600 registered participants, and got back 2,411 completed surveys, a response rate of 37%.

Participants in Bike to Work Day often rode considerable distances for the event, with 26% riding 10-15 miles, and another 17% riding more than 15 miles. However, the post-ride survey indicates that people may be willing to ride farther for a one-day event than they will on a daily basis. Several months after the event participants were asked if they still biked to work, and if not why not. Of the 444 respondents who did not continue riding to work after participating in Bike to Work Day, 38% cited weather, while another 33% cited lack of a safe route, 28% cited distance, 16% cited lack of showers or changing facilities, 9% cited lack of bike parking/storage, and 8% cited the need for a car to take care of personal business.



**Chapter 3**  
**Pedestrian and Bicycle Safety**

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## Overview

Pedestrian and bicycle fatalities and injuries are a serious problem in the Washington region. Nearly a quarter of all traffic fatalities in the region are pedestrian or cyclist. Every jurisdiction has a significant pedestrian safety problem. Pedestrian and bicyclist fatalities account for at least 9% of total traffic fatalities in every major jurisdiction.

While all areas and demographic groups are affected, some groups are more affected than others. Urban areas and inner suburban areas are more heavily affected than the outer suburbs, Hispanics and African-Americans more than Whites and Asians.

Adjusted for their high walk and bike mode shares, the urban core jurisdictions are the safest places to walk or bicycle.

This section will describe the scope of the pedestrian and bicycle safety problem, its distribution across the region by jurisdiction and ethnicity, and the legal rights and responsibilities of drivers, pedestrians, and bicyclists. It will also discuss the region's efforts to deal with the problem through the "Street Smart" pedestrian and bicycle safety campaign.

## The Scope of the Problem: Fatalities

Pedestrian safety is a major problem nationally and in the metropolitan Washington region. Of the 37,261 traffic fatalities in the United States in 2008, 4,378, or 8.5%, were pedestrians.<sup>1</sup> 69,000 pedestrians were injured in 2008. Urban areas have higher pedestrian fatality rates than rural areas. The Washington-Baltimore region ranks 32nd out of the 50 largest metropolitan areas in terms of pedestrian deaths per capita.<sup>12</sup>

Pedestrians and bicyclists account for nearly a quarter of those killed on the roads in the Washington region. Over 2,600 pedestrians and bicyclists are injured every year, and 89 are killed. On average, there are 395 traffic fatalities per year in the Washington region.<sup>3</sup> Chart 3-1 shows average annual pedestrian and bicycle fatalities in the Washington Region, as a proportion of total traffic fatalities.

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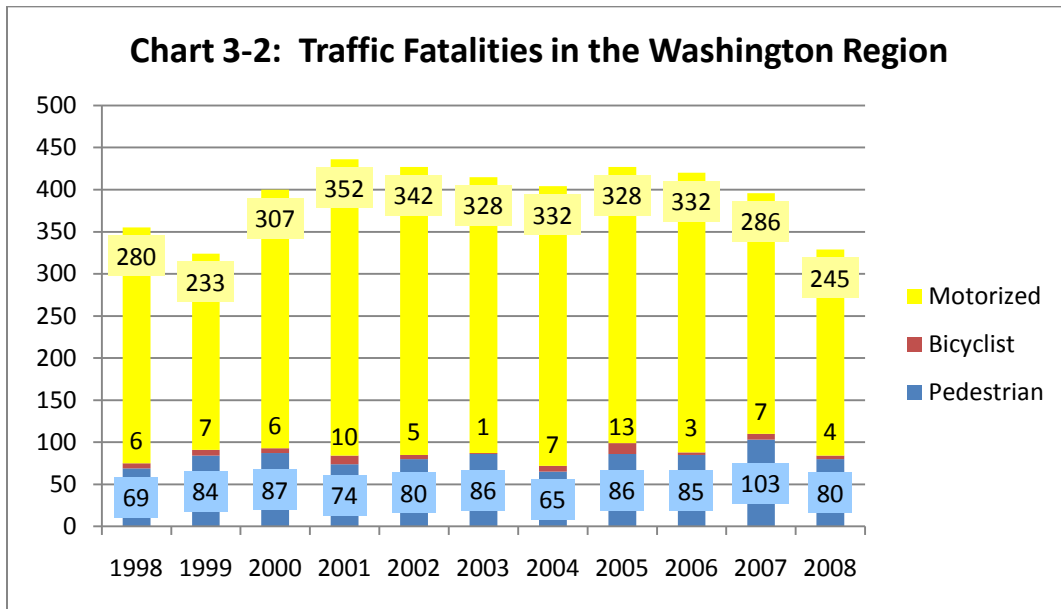
<sup>1</sup> [www.nhtsa.dot.gov](http://www.nhtsa.dot.gov)

<sup>2</sup> *Mean Streets 2004*, Surface Transportation Policy Project, p. 17.

<sup>3</sup> Regional totals compiled from data provided by the District Department of Transportation, the Maryland Office of Highway Safety, and the Virginia Department of Motor Vehicles.

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Chart 3-2 shows the yearly variations in traffic fatalities from 1998-2008. Overall traffic fatalities have been declining since 2005, while pedestrian and bicyclist fatalities have remained roughly flat. The *proportion* of total fatalities that are pedestrian or bicyclist out total fatalities is rising.



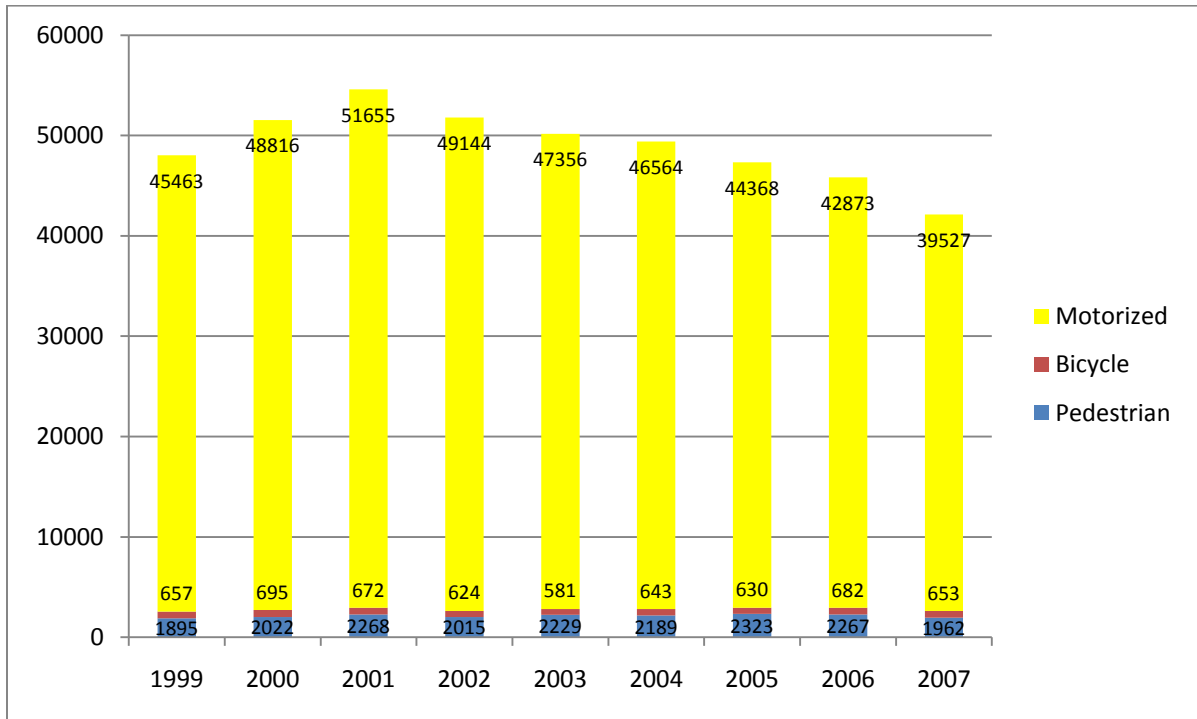
## Injuries

Pedestrian injuries exact a steep toll as well. Of the approximately 3000 persons hit by motor vehicles every year in the region, 90% suffer some sort of injury. Approximately 500 injured pedestrians every year require more than 24 hours of hospitalization, which at an average cost of about \$25,000 leads to more that \$12 million in hospitalization charges alone.<sup>4</sup> This is probably only a fraction of the total financial costs, which would include costs for those hospitalized for less than 24 hours, further medical care, disability, and lost time at work. Many of the people being hit can ill afford such a setback.

<sup>4</sup> Northern Virginia Injury Prevention Prevention Center, INOVA Regional Trauma Center (2005). *Pedestrian Injury in the Washington, D.C. Metropolitan Region*. Page 37.



**Chart 3-4: Traffic Injuries in the Washington Region**

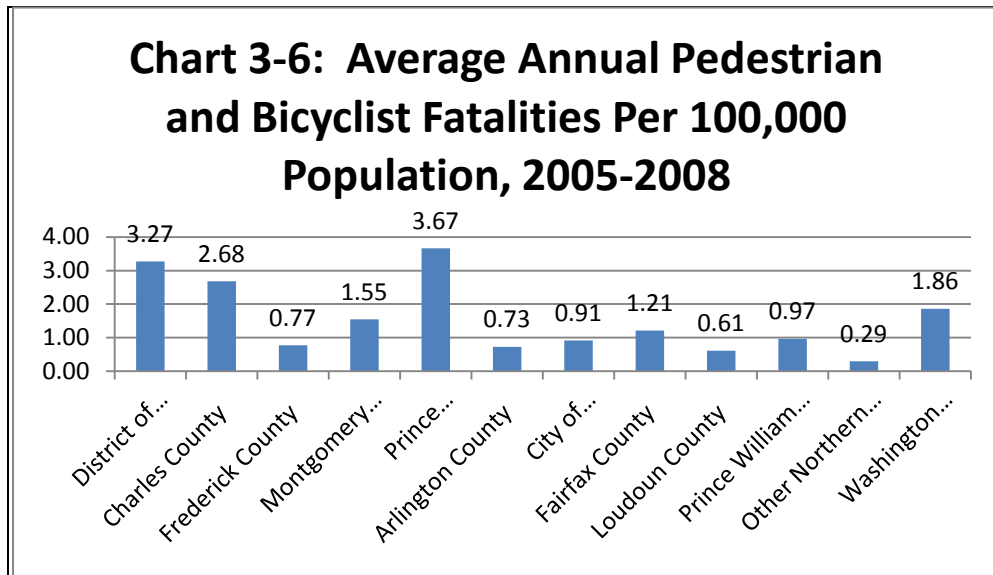
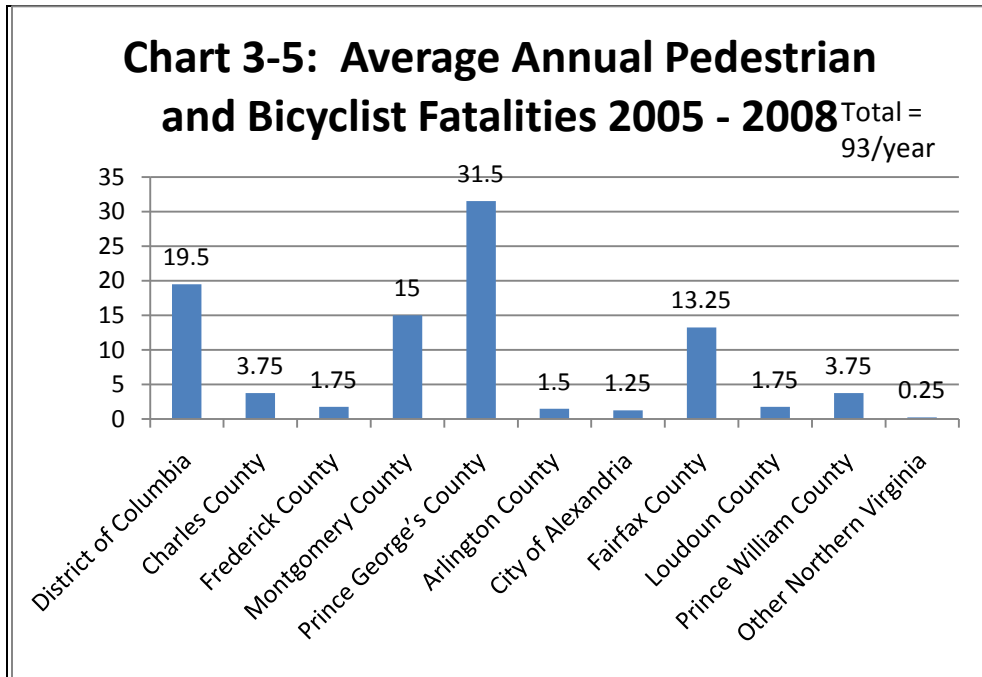


Pedestrian injuries in the Washington region declined steadily from 2001 to 2007. However, total traffic injuries declined much faster, so the proportion of traffic injuries that are pedestrian or bicyclist is rising.

**Distribution of Pedestrian and Bicycle Fatalities by Jurisdiction**

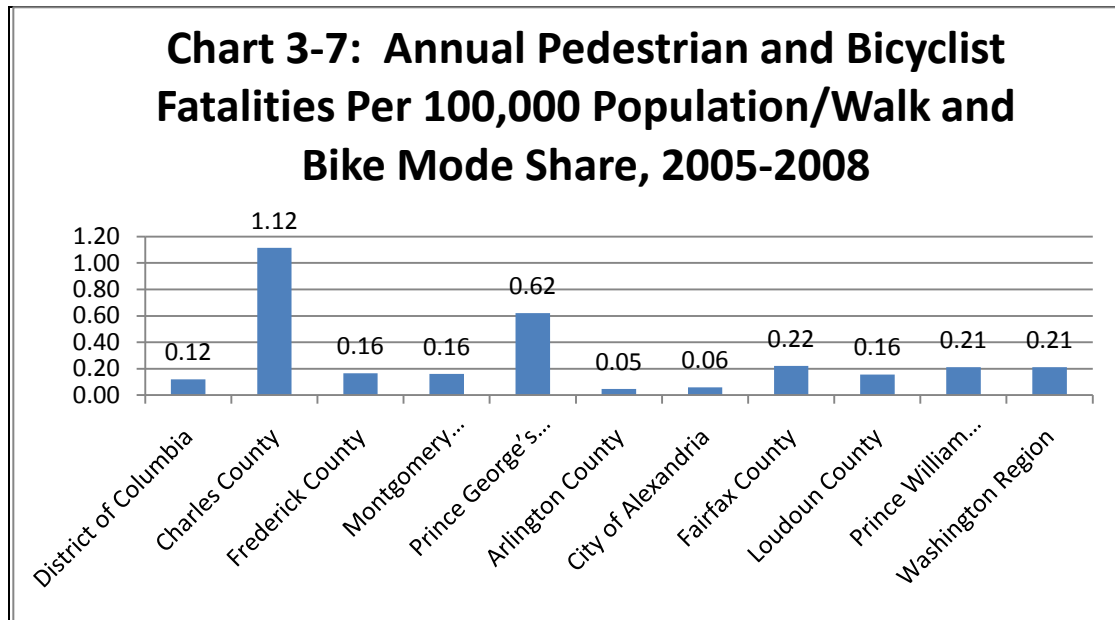
The region is often divided into an urban core, consisting of Arlington, Alexandria and the District of Columbia, the inner suburbs of Fairfax, Montgomery, and Prince George’s Counties, and the outer suburbs, such as Frederick, Loudoun, and Prince William Counties. Manassas, Manassas Park, the City of Falls Church, and the City of Fairfax are shown as “Other Northern Virginia”.<sup>5</sup> Outer suburban jurisdictions had fewer pedestrian fatalities than inner jurisdictions, as seen in Chart 3-5.

<sup>5</sup> Towns in Northern Virginia are not included in the surrounding Counties; their traffic fatalities are tallied separately.



Even when calculated as a rate per 100,000 population as in Chart 3-6, the outer jurisdictions mostly have below-average pedestrian and bicyclist fatality rates. The Virginia jurisdictions all have fatality rates below the regional average, while Prince George's County, the District of Columbia, and Charles County have the highest rates in the region.

A fair comparison should take into account exposure as well as fatalities per population. Dividing pedestrian and bicyclist fatality rates by walk and bike mode share gives a more accurate impression of the risk.



Corrected for exposure, walking and bicycling appear to be safer in the urban core areas with numerous pedestrians than in the inner or outer suburbs.

### **Safety in Numbers**

In the Washington region the jurisdictions with the most pedestrians are the safest places to walk. The urban core has good pedestrian facilities and low traffic speeds, and drivers expect to see pedestrians and bicyclists. The pedestrian crash rate tends to fall as the number of pedestrians at a location increases. Doubling the number of pedestrians at an intersection already crowded with pedestrians will usually result in little, if any, increase in pedestrian crashes.<sup>6</sup> Similar effects have been noted for cyclists, with cities having the highest rates of bicycling also having the lowest crash rate per bicycle trip.<sup>7</sup> High levels of walking and bicycling are associated, in advanced industrialized nations, with very low auto-involved crash rates.<sup>8</sup> The Netherlands has half the overall traffic fatality rate of the United States, despite a very high walk and bike mode share.

*Pedestrians  
find Safety  
in Numbers*

<sup>6</sup> Raford, Noah. *Space Syntax: An Innovative Pedestrian Volume Modeling Tool for Pedestrian Safety*. Presented at the 2004 TRB Conference, January, 2004. (TRB2004-000977) p. 8.

<sup>7</sup> Denmark Ministry of Transport (1994) *Safety of Cyclists in Urban Areas: Danish Experiences*.

<sup>8</sup> Pucher, John. "Making Walking and Bicycling Safer: Lessons from Europe," *Transportation Quarterly*, Summer 2000.

Experience of other nations shows that it is possible to reduce pedestrian and bicycle fatalities while increasing walking and bicycling. On the other hand, it is not possible to eliminate pedestrian fatalities by eliminating pedestrian facilities and discouraging walking; even in our least pedestrian-oriented jurisdictions, pedestrian fatalities account for at least 9% of total traffic fatalities. For the foreseeable future there will be people without cars, and there will always be some trips that will be made on foot. The region's most dangerous areas for walking have high-speed roads and poor pedestrian facilities, together with people who lack automobiles.

### **Ethnicity and Hospitalization Rates**

There are large differences in the rates of hospitalization for pedestrian injury by ethnicity. The rate of hospitalization per 100,000 population for pedestrian injuries for Hispanics is nearly three times as high as that for Whites, and twice that for African-Americans.<sup>9</sup>

*Hispanics are  
three times as  
likely as Whites to  
be hospitalized for  
a Pedestrian  
Injury*

Geographically, the highest rates of hospitalization are found in the area east of the Anacostia river in the District of Columbia, most of Prince George's County inside the beltway, the Columbia Pike corridor in Arlington, the area between Fairfax City and Falls Church in Fairfax County, and Dumfries in Prince William County.<sup>10</sup>

### **Factors contributing to Pedestrian and Bicycle Crashes**

Data from the Washington region indicate that drivers are about as likely as pedestrians to be at fault in a crash. Drivers were cited for a violation in about half the crashes.<sup>11</sup> Males aged 25 to 34 are most likely to hit pedestrians, while pedestrians who are hit are most likely to be males aged 25 to 44. Pedestrian crashes are most likely to occur at the evening rush hour, 5-7 p.m., with 6-9 a.m. the second most likely.<sup>12</sup> Alcohol is a serious problem for both pedestrians and motorists, affecting approximately one third of crashes.

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<sup>9</sup> Northern Virginia Injury Prevention Prevention Center, INOVA Regional Trauma Center (2005). *Pedestrian Injury in the Washington, D.C. Metropolitan Region*. Page 35.

<sup>10</sup> *Ibid*, pp. 40-42.

<sup>11</sup> INOVA study, page 23.

<sup>12</sup> *Ibid*, page 12.

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**Legal Status of Bicyclists and Pedestrians**

State traffic codes allow bicyclists to travel on most roadways with the general rights and responsibilities of drivers of vehicles. Bicyclists must ride in the same direction as traffic, use lights after dark, and yield to pedestrians. Like operators of other slow-moving vehicles, cyclists--when traveling at less than the normal speed of other traffic--should generally ride as far to the right as safely practicable, except when preparing to turn left, passing, avoiding obstructions, mandatory turn lanes or unsafe pavement conditions, or when the travel lane is not wide enough to safely split with a motor vehicle. Cyclists may use the full travel lane if the lane is too narrow to allow them to ride to the right of motor vehicles safely. Cyclists may usually ride on roadway shoulders, paths and sidewalks, except where prohibited. Cyclists have the rights and duties of pedestrians when traveling on paths, sidewalks, and crosswalks, however, they must yield to pedestrians in those locations. Rules relating to bicycles are summarized on page E-4 of the Metropolitan Washington Council of Governments' *Bike to Work Guide*, on the [Washington Area Bicyclist Association](#) web site, and in Table 3-1 below.<sup>13</sup>

**Table 3-1: Selected Bicycle Rules in the Washington Area<sup>14</sup>**

	DISTRICT OF COLUMBIA	MARYLAND	VIRGINIA
<b>General</b>	<b>Bicyclists traveling on roadways have all the general rights and duties of drivers of vehicles.</b>		
<b>Where to Ride</b>	Ride <b>with the flow</b> of traffic as closely as practicable to the right-hand curb or edge of roadway or left-hand curb on one-way streets.	Ride <b>with the flow</b> of traffic as closely as practicable to the right side of roadway.	Same as DC.
	Full lane use allowed when traveling at the normal speed of traffic, passing, preparing for a turn, avoiding hazards, traveling in a lane 11 feet wide or less, avoiding a mandatory turn lane and when necessary for the bicyclist's safety.	Full lane use allowed when traveling at the normal speed of traffic, operating on a one-way street, passing, preparing for a turn, avoiding hazards, traveling in a lane too narrow to share and avoiding a mandatory turn lane.	Full lane use allowed when traveling at the normal speed of traffic, passing, preparing for a turn, avoiding hazards, traveling in a lane too narrow to share and avoiding a mandatory turn lane.

<sup>13</sup> See [www.commuterconnections.org](http://www.commuterconnections.org)

<sup>14</sup> See <http://www.waba.org/areabiking/bikelaws.php>

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BICYCLE SAFETY**

<b>Restricted Roads</b>	Prohibited from interstate and controlled access highways, as marked	Prohibited from expressways, toll bridges, toll tunnels, and other marked roads.	Prohibited from interstate and controlled access highways, as marked.
<b>Passing Cars</b>	Allowed to pass on left or right, in the same lane or changing lanes, or pass off road.	Exercise due care when passing.	Same as DC.
<b>Cars Passing Cyclists</b>		Motorists must give cyclists three feet of clearance when passing	
<b>Dooring</b>	No person shall open any door of a vehicle unless it is safe to do so and can be done without interfering with moving traffic.	A person may not open the door of any motor vehicle with intent to strike, injure or interfere with any bicyclist.	Not mentioned.
<b>Bicycling Two Abreast</b>	Allowed when it does not impede traffic. May not ride more than two abreast.		
<b>Mandatory Use of Bike Lanes and Paths</b>	Not required.	Use of bike lanes required when available except when passing, preparing for a turn or avoiding hazards. No required use of separated paths.	Not required.
<b>Cycling on Sidewalks</b>	Yield right of way to pedestrians.		
	Prohibited in the central business district (bounded by Massachusetts Ave. NW, 2nd St NE-SE, D St SE/SW, 14th St NW, Constitution Ave and 23rd St NW). Allowed where posted in this area, and prohibited where posted outside this area. <a href="#">View Map&gt;&gt;</a>	Allowed where permitted by local ordinance (such as in Montgomery County).	Allowed except where prohibited by local ordinance, such as Prince William County and Alexandria. Must give audible signal before passing pedestrian.
<b>Audible Warning Devices</b>	Bell or other device required, sirens prohibited.	Bells allowed (not required), sirens and whistles prohibited.	Bell not required.
<b>Helmets</b>	Required for any operator or passenger under 16 years of age.	Same as DC.	Required by local ordinance for any operator or passenger 14 years of age or younger in Alexandria, Arlington Co., Fairfax Co. Falls Church, Vienna and other jurisdictions.

<b>Lights at Night</b>	Front white light and rear red reflector (or rear red light) required when dark, may be attached to operator.	Front white light and rear red reflector (or rear red light) required when dark.	Front white light and rear red reflector required when dark, may be attached to operator; rear red light required on roads 35 mph and up.
	<b>District of Columbia</b>	<b>Maryland</b>	<b>Virginia</b>

Pedestrians are not vehicle operators and are not subject to the same rules. Persons on rollerblades, skateboards, etc. operating on the street are considered pedestrians, but bicyclists are not. Motorists must yield to pedestrians when making turns across adjacent crosswalks. “Jaywalking” is legal in most locations, but pedestrians must yield to motorists if they are crossing at a location other than a crosswalk. Pedestrians may not cross at mid-block if they are between two signal-controlled intersections; they must use the crosswalk. Tables 3-2 and 3-3 summarize the rules in each state regarding pedestrians.

**Table 3-2: Pedestrian Traffic Law—Motor Vehicles Drivers**

	DISTRICT OF COLUMBIA	MARYLAND	VIRGINIA <sup>15</sup>
Crosswalk Definition	Same as Maryland	Any intersection of two roadways is a legal crosswalk, whether marked or not. Pedestrians have the same rights in marked crosswalks as in unmarked crosswalks	Same as Maryland
Blocking a Crosswalk	Pedestrians have the right of way in the sidewalk. Parking on the sidewalk prohibited.	A motorist may not park or stop in a crosswalk	Same as Maryland
Sidewalk	Same as Maryland	Pedestrians have the right of way in the sidewalk	Pedestrians have the right of way in the sidewalk.
Right Turn on Red	Same as Maryland	Vehicles turning right on red must yield to pedestrians in the crosswalk	Same as Maryland
Turn on Green	A pedestrian who has begun crossing on the walk signal shall be given the right-of-way by the driver of any vehicle to continue to	Vehicles turning either right or left on a green light must yield to pedestrians in the adjacent crosswalk	Same as Maryland

<sup>15</sup> <http://virginiadot.org/infoservice/bk-laws.asp>, [www.bikewalkvirginia.org](http://www.bikewalkvirginia.org)

	the opposite sidewalk or safety island, whichever is nearest.		
Red Light	The driver of a vehicle shall <b>STOP</b> and give right of way to a pedestrian crossing the roadway within any marked crosswalk or unmarked crosswalk at an intersection.	Motorist should stop before the crosswalk, or if no crosswalk is striped, before the intersection	Same as Maryland
Stop-Controlled or Uncontrolled Intersection		Motorist must stop for any pedestrian in the same half of the roadway as the motorist, or who is approaching from the adjacent lane in the other half of the roadway. No motorist may pass another vehicle which has stopped for a pedestrian	The drivers of vehicles entering, crossing, or turning at intersections shall change their course, slow down, or <i>stop if necessary</i> to permit pedestrians to cross such intersections safely. Pedestrians have the right of way unless the speed limit is more than 35 mph, in which case the motorist has the right of way.

**Table 3-3:  
Pedestrian Traffic Law—Pedestrians**

	DISTRICT OF COLUMBIA	MARYLAND	VIRGINIA
Green light	A pedestrian facing a green light (other than a turn arrow) may cross the roadway, within a marked or an unmarked crosswalk	A pedestrian facing a green light (other than a turn arrow) may cross the roadway, within a marked or an unmarked crosswalk	Same as Maryland
Red light	Pedestrians shall not enter the roadway on a steady red light.	Pedestrians shall not enter the roadway on a steady red light	Same as Maryland
Pedestrian Control Signal	Pedestrians shall not enter the roadway when there is a flashing “Don’t Walk” or “Wait” indicator	Pedestrians shall not enter the roadway when there is a flashing “Don’t Walk” or “Wait” indicator	Same as Maryland
Stop-controlled or uncontrolled intersection	Essentially the same as Maryland, but with a specific prohibition on walking suddenly into the path of a vehicle:  (a) No pedestrian shall suddenly leave a curb, safety platform, safety zone, loading platform or other designated place of safety and walk or turn into the path of a vehicle which	Pedestrians may cross the roadway within a marked or unmarked crosswalk	Same as Maryland, except the pedestrian must yield to motor vehicle traffic if the speed limit is 35 mph or more. Pedestrians may not disregard approaching traffic when entering or crossing an intersection



	is so close that it is impossible for the driver to yield.		
Crossing at Other Than Crosswalks	Same as Maryland	<p>(a) If a pedestrian crosses a roadway at any point other than in a marked crosswalk or in an unmarked crosswalk at an intersection, the pedestrian shall yield the right-of-way to any vehicle.</p> <p>(b) If a pedestrian crosses a roadway at a point where a pedestrian tunnel or overhead pedestrian crossing is provided, the pedestrian shall yield right of way to any vehicle.</p> <p>(c) Between adjacent intersections at which a traffic control signal is in operation, a pedestrian may cross a roadway only in a marked crosswalk.</p> <p>(d) A pedestrian may not cross a roadway intersection diagonally.</p>	Same as Maryland, except that pedestrians may not enter the roadway at any point where drivers view of them is blocked by a parked vehicle or other obstruction.
Pedestrians on Roadways		<p>(a) A pedestrian may not walk on a roadway where sidewalks are provided.</p> <p>(b) Where no sidewalk is provided, a pedestrian may walk only on the left side of the roadway, facing traffic.</p>	Same as Maryland

**Pedestrian and Bicyclist Enforcement and Education: The “Street Smart” Campaign**

Pedestrian and bicycle safety efforts generally fall into three broad categories of actions, the three E’s: Engineering, Education, and Enforcement. Engineering deals with the design of safer roads, streets, and pedestrian and bicycle facilities. Education includes both classroom-based training and behavioral modification campaigns. Enforcement consists of enforcement of the traffic laws with respect to pedestrians and bicyclists. The regional pedestrian and bicycle safety campaign, Street Smart, deals primarily with education through mass media.



**Figure 1: Street Smart Poster**

on the web site, <http://bestreetsmart.net>.

Efforts to enforce pedestrian laws have also been stepped up in conjunction with the “Street Smart” pedestrian and bicycle safety campaign. Law enforcement has helped reinforce the campaign message, just as it has been used effectively as part of anti-drunk



**Figure 2: Spring 2010 Press Event and Speed Demonstration**  
Photo Credit: Stratacomm

Street Smart was created in 2002 by the region’s governments in response to an ongoing regional pedestrian and bicycle safety problem. Since the region is a single media market, a unified regional campaign is the most cost-effective approach. The program is supported by federal funds made available through state governments, with local funds matching the federal funds, and is administered by the National Capital Region Transportation Planning Board.

The Street Smart campaign is a one-month blitz of radio, cable, transit, and internet advertising, supported public relations activities and by concurrent law enforcement. The goal of the campaign is to change driver and pedestrian behavior in order to reduce deaths and injuries. Motorists are urged to “Be Alert”, bicyclists to “Obey Signs and Signals”, and transit riders to “Cross after the bus leaves the stop”. All materials, including radio spots, are translated into Spanish. Since 2007 campaigns have been held twice per year, in the fall and in the spring. Campaign materials can be found

driving and seatbelt advertising campaigns. Public awareness of these heightened enforcement activities has been a key aspect of this campaign. Research shows that fear of fines and legal consequences is more effective at changing behavior than fear of death or injury. Also the TV and press media often covers enforcement stings, increasing the public’s perception that they are likely to be ticketed for breaking the law.

The Street Smart campaign sponsors annual seminars on best practices in pedestrian safety enforcement for law enforcement officers. Participating agencies report the number of warnings and citations issued.

### **Evaluation**

Pre and post-campaign surveys show that the public is hearing and remembering the Street Smart messages. For example, surveys taken before and after the campaign of April, 2009 show that awareness of the “Yield to Pedestrians” message rose by 30 percentage points among drivers, and awareness of law enforcement increased by 25 percentage points.

### **Outlook**

Pedestrian and bicycle safety has drawn increasing attention in the Washington region and at all levels of government. To build walkable communities, walking and bicycling need to be made safer. Improved occupant protection and vehicle design have saved the lives of many motorists, but we have not made comparable progress for people outside motor vehicles. As the population of car-less immigrants and poor people grows in suburban areas that were designed for driving, pedestrian and bicyclist safety will remain a challenge.

The Street Smart campaign is yielding positive results, but it is meant to complement, not replace, local three “E” safety efforts. States, cities, and counties need to continue engineering and building safer streets, enforcing the pedestrian safety laws, and educating motorists and pedestrians. We know that the streets can be made safe for pedestrians and bicyclists, because some of our jurisdictions have already done it. Agencies that make pedestrian safety a priority are getting results, while those that do not, are not.

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<sup>i</sup> *Mean Streets 2004*, Surface Transportation Policy Project, p. 17.



**Chapter 4**  
**Existing Facilities for Bicyclists and Pedestrians**

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August 27<sup>th</sup>, 2010 draft

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**Overview**

The Washington region has excellent long-distance separated facilities for bicyclists and pedestrians, and an urban core and certain regional activity centers that have good pedestrian and bicycle facilities. On the other hand, many activity centers, not originally designed with pedestrians in mind, have grown dense enough to generate significant



**Figure 1: Informal foot path**

*Informal Foot-  
Paths Show where  
People Walk*

pedestrian traffic, and face challenges in terms of providing safe facilities and crossing locations for pedestrians and bicyclists. Other parts of the region have developed at low densities, with separated land uses and indirect routes, which increase pedestrian and bicycle travel time. Pedestrian and bicycle accommodations are not always provided.<sup>1</sup>

Bicycle connections with transit are generally good, with bicycle parking, bus bicycle racks, and bikes

permitted on Metrorail at most hours. Walking is the primary mode of access to transit. Conditions for pedestrian access are excellent at many rail stations, though at some rail stations, originally designed primarily with auto and transit access in mind, pedestrian access could be improved. Bus stops in places originally designed primarily for automobiles often have access and safety problems.

Pedestrians are found throughout the region, and pedestrian traffic is increasingly found in places that were not built for it. This section highlights some of the region's successes in providing for bicycling and walking. These successes can serve as examples of what the region needs to serve its pedestrians and bicyclists.

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<sup>1</sup> Photo of Informal Path, Southern Avenue, Prince George's County, MD: COG/TPB, Michael Farrell

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**Shared-Use Paths<sup>2</sup>**



**Figure 2: Mount Vernon Trail**

The Washington region is renowned for the quality and extent of its major shared-use paths. Shared-use paths are typically located in their own right-of-way, such as a canal, railway, or stream valley, or in the right-of-way of a limited-access highway or parkway, such as the George Washington Memorial Parkway. Shared-use paths are eight to twelve feet in width. The region has approximately 200 miles of major shared-use paths, either paved or level packed gravel surface suitable for road

bikes. Well-known trails include the W&OD and Mount Vernon Trails in Virginia, and the C&O Canal, Capital Crescent, and Rock Creek Trails connecting the District of Columbia and Maryland. Many of the region's shared-use paths go through heavily populated areas, connect major employment centers, and get significant commuter traffic. More information on trails in the Washington region can be found at [www.bikewashington.org](http://www.bikewashington.org).

The region continues to build new trails along stream valleys and in conjunction with major highway projects, but the remaining inventory of disused rail lines, which often provide the best opportunities for shared-use paths, is fairly small.

**Side-Paths<sup>3</sup>**

Side-paths differ from shared-use paths in that they do not have their own right of way, but are closely adjacent to a non-limited access roadway and thus subject to more frequent conflict



**Figure 3: Side Path on Fairfax County Parkway**

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<sup>2</sup> Photo of Mt. Vernon Trail, Arlington, VA: COG/TPB, Michael Farrell

<sup>3</sup> Photo of Sidepath on the Fairfax County Parkway: Photographer Unknown

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with driveways, side streets, and turning traffic. Side-paths differ from sidewalks in that they must be at least eight feet wide and are designed to meet the needs of bicyclists.

The Washington region has approximately 300 miles of side-paths, and there are plans to expand that mileage considerably.

Side-paths meet the need for a separated pedestrian facility and provide separation from traffic that is valued by child and slow-moving cyclists, especially in places where the road has speeds of 40 mph or more and high traffic volumes. However, the AASHTO (American Association of State Highway and Transportation Officials) [Guide for the Development of Bicycle Facilities](#) offers a number of cautions regarding the use of side-paths or wide sidewalks for bicycles. Frequent driveways, especially with poor sightlines, are hazardous to bicyclists on side-paths. Side-paths remove bicyclists from the motorists' line of sight and allow travel against the flow of traffic, so they may increase the potential for conflicts with motor vehicles at intersections. Since the facility is shared with pedestrians, there is also a potential for cyclist-pedestrian crashes. Side-paths are most suitable where driveways and intersections are few and sight-lines are good. Intersection crossings should be designed carefully, with a protected signal phase providing the best level of protection.

### **Bicycle Lanes**

Bicycle lanes are marked lanes in the public right-of-way that are by law exclusively or preferentially for use by bicyclists. Bike lanes are one-way, with a bicycle symbol or arrow indicating the correct direction of travel. The minimum width next to a curb is 4 feet for roadways with no curb or gutter, next to a curb or parked cars 5 feet. Bike lanes are provided on both sides of the street, except for one-way streets, and allow travel only



**Figure 4: Bicycle Lane**

in the same direction as adjacent motor vehicle traffic. On-street bicycle lanes are generally much less expensive than separated paths. Bike lanes decrease wrong-way riding, define the road space that cyclists are expected to use, increase cyclists' comfort level, and call attention to the presence of cyclists on the roadway. Bicycle lanes are not generally considered safe or adequate for pedestrians, though in rural areas without sidewalks the roadway shoulder serves as both a bicycle lane and as a pedestrian facility.<sup>4</sup>

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<sup>4</sup> Bike lane photo: [www.pedbikeimages.org](http://www.pedbikeimages.org) / Dan Burden

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The number of bicycle lanes is growing rapidly. The District of Columbia currently has 60 miles of bicycle lanes, up from 19 miles in 2006, and three in 1995, Arlington County has 24 miles, up from three in 1995, and Montgomery County has 17 miles.<sup>5</sup> The regional mileage of bicycle lanes can be expected to expand significantly in the future as the District of Columbia, Arlington County, and Montgomery County all have ambitious plans to build more. A map of regional bicycle paths, lanes, and on-road routes can be ordered at [www.adcmap.com](http://www.adcmap.com).

### **Buffered Bicycle Lanes**

A buffered bicycle lane is a bicycle lane with a spatial buffer to increase the distance between the bicycle travel lane and the automobile travel lane or the parking zone. The buffer zone is usually marked with striped paint. Buffered bike lanes are sometimes used where there is higher than normal speeds, traffic volumes or truck volumes, or high-turnover parking. It allows additional space to be provided for bicyclists without creating something that looks like a travel lane to motorists. There are currently none in the Washington region, though that may change soon.

### **Cycle Tracks**

A cycle track is a bicycle-only facility that provides physical separation within the right of way from vehicle travel lanes. Cycle tracks can be either one-way or two-way, on one or



both sides of a street, and are separated from vehicles by wands, bollards, curbs/medians, parked cars, or a combination of these elements. Cycle tracks can either incorporate bicycle-only signal phases at intersections (for 100% separation) or utilize “mixing zones” to merge bicycle and motor vehicle traffic.<sup>6</sup>

Cycle tracks have long been viewed skeptically in the United States, and notably in the AASHTO Guide for the Development of Bicycle

**Figure 5: 15th Street NW Cycle Track**

<sup>5</sup> *Countywide Bikeways Functional Master Plan*, March 2005. Maryland-National Capital Park and Planning Commission. Page 12.

<sup>6</sup> National Association of City Transportation Officials. <http://www.nacto.org/cycletracks.html>

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Facilities, due to the potential conflicts with turning vehicles, and lack of visibility of cyclists to turning vehicles when separated by parked cars.

*Cycle Tracks  
can Increase  
Ridership by 18-  
20%*

Cycle tracks have been used in numerous cities in Europe with mixed results.<sup>7</sup> Installation of cycle tracks was found to result in an increase in collisions at intersections in Copenhagen, which more than offset a decrease in motorist-overtaking collisions and collisions with parked cars, for a net increase in the number of collisions of 9%. However, the same study showed that installing cycle tracks increased bicycle (and moped) ridership 18 to 20 percent.<sup>8</sup> Installing bike lanes resulted in a 5 to 7% increase in ridership, and a 5% increase in crashes. For both cycle tracks and bike lanes the number of riders can be expected to increase more than the number of crashes.

Riders perceive cycle tracks as safer, and it should be noted that motorist-overtaking collisions, while relatively rare, account for a disproportionate number of serious and fatal injuries.

New York City, Portland, OR, Cambridge, MA, and now the District of Columbia are installing cycle tracks. The first segment of buffered bicycle lane in the District of Columbia was installed in 2009 on 15<sup>th</sup> Street NW. The District of Columbia is planning a network of such facilities in downtown DC. Space for them is being made by removing travel lanes, as was done on 15<sup>th</sup> Street NW, which was reduced from four lanes to three.

**Dual Facilities**

In recognition of the fact that fast-moving cyclists may be better off with an on-road facility, Montgomery County is planning many of its bicycle routes as dual facilities, with both an on-road bike lane and a side-path for pedestrians and slow bicyclists. VDOT's *Northern Virginia Bikeway and Regional Trail Study* recommends that both on- and off-road accommodation be provided.<sup>9</sup> Under the new routine accommodation policy, VDOT is to provide adequate facilities for pedestrians and bicyclists even if not called for in the local plan.

Where bicycle and pedestrian volume warrant it, and right of way permits, multi-use paths may be split into parallel pedestrian and bicycle paths. This separation allows cyclists and rollerbladers to maintain speed without risk to pedestrians. The Washington

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<sup>7</sup> Jensen, Søren Underlien, Claus Rosenkilde and Niels Jensen. Road safety and perceived risk of cycle facilities in Copenhagen. Available at: [http://www.ecf.com/files/2/12/16/070503\\_Cycle\\_Tracks\\_Copenhagen.pdf](http://www.ecf.com/files/2/12/16/070503_Cycle_Tracks_Copenhagen.pdf)

<sup>8</sup> *Cycle Tracks: Lessons Learned*. February 2009. Alta Planning and Design. Page 1.

<sup>9</sup> *Northern Virginia Regional Bikeway and Trail Network Study*. November, 2003. Virginia Department of Transportation, Northern District Office. Page 19.

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& Old Dominion Trail in Northern Virginia includes several sections with gravel pedestrian paths that parallel the paved shared-use path.

### **Signed Bicycle Routes**

The region has hundreds of miles of signed bicycle routes. Signed routes have the advantage of being inexpensive and informative for cyclists. A signed route has not necessarily had any bicycle-related improvements apart from signing. However, bicycle-friendly features such as paved shoulders, a wide curb lane, or low traffic volumes or speeds *may* be present. The trend with bicycle route signs is to include information on distances to destinations.



**Figure 6: DC Bike Route Sign**

### **Long-Distance Bicycle Routes**

Several notable long-distance routes promoted by national-level organizations pass through the Washington region. These include the East Coast Greenway, Bicycle Route 1, and the American Discovery Trail. The East Coast Greenway Alliance is promoting what will eventually be a mostly off-road path connecting all the major cities of the East Coast. Currently 20% open for public use, it will span 2,600 miles from Calais, Maine to Key West, Florida. With the exception of the National Capital Mall, the proposed route through the Washington region is not yet signed. Bicycle Route 1 is part of a national network of low-traffic road routes promoted by the Adventure Cycling Association. The American Discovery Trail is a coast-to-coast, recreational, non-motorized trail, which follows the C&O Canal Towpath and the Anacostia River Tributary Trails. All organizations promoting long-distance routes rely on local agencies and organizations to realize their vision.

### **Exclusive Bus/Bicycle Lanes**

Exclusive bus lanes are sometimes used on streets with heavy bus traffic. Bicycles are sometimes permitted to use those lanes. Bus/Bike Lanes can be found in the District of Columbia. Conflicts can occur due to differences in speed between buses and bicyclists.

### **Bridges**

With the completion of the Woodrow Wilson Bridge trail, cyclists may now cross the Potomac River on the capital beltway at between Alexandria.

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**Figure 7: Woodrow Wilson Bridge Trail**

This new multi-use path allows riders on the Mt. Vernon Trail to access the National Harborplace development in Prince George's County without going on street. Connections are also provided an on-street network of bicycle routes in Prince George's County.

The 14<sup>th</sup> Street Bridge, the Memorial Bridge, the Theodore Roosevelt Bridge, the Key Bridge, and the Chain Bridge all have bicycle and pedestrian facilities. In

the north, cyclists and pedestrians may use the ferry at White's Ferry, which connects Montgomery County and Loudoun County. Cyclists may use the US 15 bridge at Point of Rocks and the MD 17 bridge at Brunswick to get across Frederick County and Loudoun County, though they have no separated facilities.

On the Anacostia River separated bicycle and pedestrian facilities of uneven quality are available on the South Capitol Street (Frederick Douglas Memorial) bridge, the 11<sup>th</sup> Street bridge, the Pennsylvania Avenue Bridge, the East Capitol Street Bridge, and the Benning Road Bridge. The District of Columbia is in the process of upgrading these crossings as these aging bridges are replaced and rebuilt.

### **On-Line Bicycle and Pedestrian Routing**

The last few years have seen a flowering of on-line resources that enable cyclists and pedestrians to locate facilities and plan their routes. For bicyclists, RidetheCity ([www.ridethecity.com/dc](http://www.ridethecity.com/dc)) is a tool that allows cyclists to point and click their proposed origins and destinations, and choose between a "direct route", a "safe route" and a "safer route". The results show whether a trail, on-street bike lane, or street is being used. "Safer" routes use trails and bike lanes at the expense of increased distance. Ride the City is available only in the New York and DC regions.

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Google maps also provides walking and bicycling directions. The bicycling directions show paths, bike lanes, and on-street bike routes, but offer no options for selecting more direct or safer routes.

Accessed via smart phone, these and other on-line applications can replace paper maps for most purposes.

### **Bicycles and Public Transit**

The region has made tremendous progress integrating bicycling and public transit, with secure bike parking available at most rail stations, bicycles permitted on Metrorail at most times, and most of the buses in the region now equipped with bicycle racks. Specific agency policies and facilities are described below.

#### **Metrorail Guidelines**

- Bicycles are permitted on Metrorail (limited to two bicycles per car) weekdays except 7-10 a.m. and 4-7 p.m. Bicycles are permitted all day Saturday and Sunday as well as most holidays (limited to four bicycles per car). Bicycles are not permitted on Metrorail on July 4th or other special events or holidays when large crowds use the system.
- Folding bikes are permitted on Metrorail during rush hours if fully enclosed in a carrying bag.
- No tricycles, training wheels, tandem bicycles or recumbent bicycles are allowed on Metrorail.
- For other Bike on Rail guidelines see:  
[http://www.wmata.com/getting\\_around/bike\\_ride/bikes\\_rail.cfm](http://www.wmata.com/getting_around/bike_ride/bikes_rail.cfm)

#### **Metrorail Facilities**

- For the most up to date information on bicycle parking at Metrorail, go to the [WMATA web site](http://www.wmata.com) and click on the stations tab. You can see which stations have bike racks and lockers. Or go to [http://www.wmata.com/getting\\_around/bike\\_ride/parking.cfm](http://www.wmata.com/getting_around/bike_ride/parking.cfm) for a list of stations with bike racks and lockers, and information on how to rent a bike locker.
- Systemwide, WMATA maintains about 1,280 single bike lockers and about 1,600 bike racks - with capacity for about 3,150 bikes. Racks are first come, first

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served. At many downtown stations, local jurisdictions provide additional bike parking near stations.

### **Metrobus**

- All Metrobuses have racks on the front that carry **up to** two bicycles. No permit is required. Instructions for how to use bus bike racks is available at [http://www.wmata.com/getting\\_around/bike Ride/bikes\\_bus.cfm](http://www.wmata.com/getting_around/bike Ride/bikes_bus.cfm).
- Metro has adopted [guidelines](#) for the design and placement of bus stops to improve their safety, comfort, accessibility, and efficiency.

### **Park and Ride**

Of the 175 park and ride lots in the Washington DC-MD-VA Metropolitan Statistical Area, about 50 have bike lockers or racks. [Commuter Connections](#) lists information on Park and Ride lots.

### **Commuter Rail**

Collapsible bicycles are permitted on all [VRE trains](#). Full size bicycles will only be allowed on the last three northbound, the mid-day, and the last three southbound trains on each line.

Collapsible bicycles are permitted on [MARC](#), but not full-size bicycles. No bag or case is required.

### **Pedestrian Access to Transit**

82% of Metrobus passengers walk to transit, and 62% of all Metrorail trips start with the passenger walking to the rail station. However, the a.m. peak walk mode of access, which is the best measure of how people originally get into the system, is 33%.

The quality of pedestrian access to Metrorail and Metrobus is uneven. Many suburban rail stations were built with an emphasis on automobile and bus access. Bus stops are often placed in areas with no sidewalks or available crosswalks. Inventorying conditions and making recommendations for specific locations is beyond the scope of this plan, but there have been a number of efforts to do so, such as MTA's Access 2000 Study, COG/TPB's Walkable Communities Workshops, and efforts in Fairfax County and Montgomery County to improve bus stop safety.

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[WMATA](#) has developed a set of *Guidelines for Station Site and Access Planning*, and WMATA has plans to upgrade pedestrian access at Metrorail stations and carry out station-area development. WMATA also finished an inventory of conditions at all its bus stops in 2008. The inventory included information on the presence of bus shelters, sidewalks, and location at a controlled intersection.<sup>10</sup> Suburban bus stops often lack a nearby controlled intersection for safe street crossing, and may also be missing sidewalks. A soon to be completed study on [bicycle and pedestrian access](#) to Metrorail will provide details on pedestrian access to rail transit.

### **Bike Parking**

The [District of Columbia](#), Arlington, Alexandria, and other jurisdictions provide bike racks on public property for short-term bicycle parking. They also [require](#) secure long-term bicycle parking to be provided as part of new development.

### **DC Bike Station**



**Figure 8: DC Bike Station at Union Station**  
Photo Credit: COG/TPB



**Figure 9: DC Bike Station Interior**

In response to demand for secure bicycle parking at Union Station, in 2009 the District of Columbia opened a Bike Station. The facility houses over 100 bicycles in 1,600 sq. ft. of free-standing ultra-modern glass and steel design. It is staffed 66 hours per week and available to members 24/7 for self-service parking. In addition to secure bike parking, the facility also provides a changing room, lockers, bike rental, bike repair, bike rental, and

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<sup>10</sup> *WMATA Bus Stop Inventory Project*. Kristin Haldeman, Presentation to TPB Access for All Subcommittee, November 2008.



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retail sales. The Bikestation location at Union Station allows commuters to take public transportation to the station, pick up their bicycles and go to work, shopping or entertainment.

The DC bike station is a unique structure designed for a particular site. It required an unusual degree of architectural review due to its location on the National Mall. Far less expensive, modular self-service bike parking structures are available.

### **Bike Sharing**

Bike sharing is self-service public bicycle rental. It is similar to a car-sharing system, such as ZipCar, where members pay a fee and have access to any available bike throughout the regional system. Unlike earlier “public bicycle” or “yellow bike” programs, which failed due to lack of means of preventing theft, modern bicycle sharing links rentals to a user’s credit card, which can be charged if the bicycle is not returned. Bike sharing has become common and popular in Europe, with programs in dozens of cities.



The District of Columbia has a pilot bike sharing program, [Smartbike](#), with 100 bikes at ten docking stations in downtown DC. The first bike sharing system in North America, Smartbike is a precursor to a much larger system, which will be known as Capital Bikeshare.

[Capital Bikeshare](#) will likely (funding permitting) incorporate more than 3000 bicycles at over 300 docking stations in the District of Columbia, Arlington, Alexandria, Fairfax

*Capital Bikeshare will  
have over 3000  
bicycles and 300  
stations*

County, Montgomery County, and the City of College Park. The majority of bicycles and stations are expected to be in the District of Columbia and in Arlington. Capital Bikeshare will use the [Bixi bikeshare](#) system developed in Montreal. Bixi’s solar-powered semi-mobile bike stations require no utility hook-up, which will expedite installation. Capital Bikeshare is currently the largest planned bike share system in the United States.

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**Outlook**

Facilities for bicycling and walking in the Washington region are likely to improve significantly in the future. Federal, regional, state and local policies and transit agency initiatives all call for better and more complete facilities. Bicycle lanes, cycle tracks, and dual facilities for pedestrians and bicyclists will become more common, and a major regional bike sharing program will soon be in place in the urban core jurisdictions.

**Chapter 5**  
**Goals and Indicators**

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## **Introduction**

As seen in Chapter One, both the Vision of the Transportation Planning Board (1998) and the Region Forward (2010) vision plan of the Council of Governments encourage walking and bicycling. *Region Forward*, a vision for the National Capital region in 2050, was adopted in January 2010. *Region Forward* builds on the TPB *Vision*, calling for more rapid implementation of the regional bicycle and pedestrian plan, increased walking and bicycling, and reduced pedestrian and bicyclist fatalities. The goals of *Region Forward* are broader than those of the TPB *Vision*, encompassing areas such as public safety, land use, economic development, housing, and the environment. New development is to be concentrated in walkable, mixed-use activity centers.

## **Goals**

Region Forward 2050 includes a set of goals, and targets and indicators that will help measure whether those goals are being met. Many of those goals relate to walking and bicycling:

### **Transportation**

1. A broad range of public and private transportation choices for our region which maximizes accessibility and affordability to everyone and **minimizes reliance upon single occupancy use of the automobile.**
2. A transportation system that maximizes community connectivity and walkability, and minimizes ecological harm to the region and the world beyond.

### **Land Use**

1. Enhancement of established neighborhoods of differing densities with **compact, walkable infill development**, rehabilitation and retention of historic sites and districts, and preservation of open space, farmland and environmental resource land in rural areas.
2. **Transit-oriented and mixed-use communities** emerging in regional activity centers that **will capture new employment and household growth.**

### **Energy & Environment**

1. Significant **decrease in greenhouse gas emissions**, with substantial reductions in the built environment and transportation sector.
2. Protect and enhance region's environmental resources by meeting and exceeding standards for our air, water, and land.

### **Public Safety & Health**

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1. Safe communities for residents and visitors.
2. ...protect the public health, safety, welfare, and preserve the lives, property, and economic well-being of the region and its residents.
3. Healthy communities with ...a **focus on wellness and prevention**

### **Targets and Indicators**

In order to measure progress towards the broad transportation goals, *Region Forward* recommends that certain indicators be tracked. Table 5-1 below shows some of the targets and primary indicators from *Region Forward* that relate to walking and bicycling as well as corresponding, additional indicators which the bicycle and pedestrian subcommittee believes will give a more complete and timely picture of the region's progress. A (?) designates an indicator for which a practical data source has not yet been identified.

**Table 5-1:**

**Region Forward 2050 Targets & Indicators**

**Suggested Supporting Indicators**

<b>Region Forward Targets</b>	<b>Primary Indicators</b>	<b>Data Source/Freq.</b>	<b>Baseline</b>	<b>Suggested Supporting Indicators</b>	<b>Data Sources/Freq.</b>	<b>Baseline</b>
Increase the share of walk, bike, and transit trips.	Mode split – Percent of Walk, Bike and Transit Trips	2007/2008 household travel survey/10 years	Bike: 0.5% Walk: 8.5% Transit: 6.1% Auto: 81.6%	<ol style="list-style-type: none"> <li>1. Walk and bike commute mode share</li> <li>2. Pedestrian and bicyclist counts</li> <li>3. Pedestrian Access to Transit Mode Share *AM peak access</li> <li>4. Bike Access to Transit mode share *AM peak access</li> <li>5. Bike share trips Number of bike share trips per day &amp; per bike share bike.</li> <li>6. % Female cyclists</li> </ol> <p>Adopt complete streets policies - Jurisdictions with complete streets policies</p>	<ul style="list-style-type: none"> <li>• US Census – American Community Survey (ACS) five year rolling average/Annual</li> <li>• DC, Arlington counts/annual</li> <li>• WMATA rail passenger survey/5 years</li> <li>• Regional Bike Share trip numbers/annual</li> </ul>	<ul style="list-style-type: none"> <li>• ACS available in 2010</li> <li>• DC Average 2009 Peak hour count = 69</li> <li>• female bicyclists = 19%</li> <li>• 0.55% bicycle mode of access to Metro in 2007</li> <li>• 62.12% walk mode of access to Metro in 2007</li> <li>• 33.3% am peak walk mode, 0.7% bike mode</li> </ul>
Reduce VMT per capita	VMT per capita	2008 CLRP/Annual	Vehicle Miles Traveled per capita = 22.94	Share of VMT reduction attributable to increase in walking and bicycling	Estimate from mode shift to walking and bicycling/Annual	ACS 2010

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Increase the rate of construction of bicycle and pedestrian facilities from the TPB plan.	Number of bicycle and pedestrian projects from the CLRP	Number of bicycle and pedestrian projects in the CLRP	CLRP/Annual	<p>Pedestrian and Bicycle Infrastructure Construction</p> <ol style="list-style-type: none"> <li>Centerline mileage of bike lane built</li> <li>Mileage of Side Path Built</li> <li>Mileage of Multiuse path built</li> <li>Bicycle and pedestrian bridges and underpasses built</li> <li>Public bicycle parking <ul style="list-style-type: none"> <li>Staffed bike stations</li> </ul> </li> <li>Number of Streetscaping projects completed/ Number of pedestrian intersection improvement projects completed</li> </ol> <p>Access to Transit</p> <ol style="list-style-type: none"> <li>Bike share stations and bike share bikes at rail stations and transit hubs</li> <li>Bike share stations and bike share bikes within 3 miles of a transit hub</li> <li>Bike parking - Rack spaces, lockers bike cage, bike parking structure spaces</li> <li>Parking usage rates (?)</li> </ol> <p>Bike Sharing</p> <ol style="list-style-type: none"> <li>Number of bike sharing stations</li> <li>Number of bike sharing bicycles</li> </ol>	<ul style="list-style-type: none"> <li>Bicycle and Pedestrian Regional Project Database/ Annual</li> <li>WMATA rail passenger survey/5 years</li> <li>WMATA web site – Bike ‘N Ride</li> <li>WMATA Bus Stop Inventory/?</li> <li>Capital Bikeshare</li> </ul>	<p>9 miles bike lane/year 13 miles shared use path/year 5 bridges/tunnels 1 staffed bike station 9 streetscaping projects 16 pedestrian intersection projects 77 Metro Stations have racks and/or lockers. 1,280 single bike lockers and about 1,600 bike racks - with capacity for about 3,150 bikes Zero bike cage spaces, bike parking structure spaces 10 bike sharing stations 100 bike sharing bikes</p>
<b>Targets</b>	<b>Primary Indicators</b>	<b>Data Source/Freq.</b>	<b>Baseline</b>	<b>Suggested Supporting Indicators</b>	<b>Data Sources/Freq.</b>	<b>Baseline</b>
Reduce pedestrian and bicyclist fatalities and	Pedestrian and Bicyclist Injuries and	Virginia DMV, DDOT, and Maryland Office of	2004-2008: 84 pedestrian deaths 7 bicyclist	<p>Education</p> <ul style="list-style-type: none"> <li>Number of school children trained in safe walking and bicycling (?)</li> <li>Recognition of key safety</li> </ul>	<ol style="list-style-type: none"> <li>Safe Routes to School Program/Annual</li> </ol>	<ul style="list-style-type: none"> <li>3500 children trained in DC in 2008, 2700 in Rockville.</li> </ul>



injuries	Fatalities	Highway Safety/Annual	deaths 2007: 1962 pedestrian injuries 653 bicyclist injuries	<p>messages by the general public</p> <ul style="list-style-type: none"> <li>• Number of Bike to Work day participants</li> </ul> <p>Enforcement: Number of pedestrian-related and bicycle-related citations and warnings issued as part of the Street Smart campaign.</p> <ol style="list-style-type: none"> <li>1. Speeding</li> <li>2. Speeding, school zone</li> <li>3. Reckless driving</li> <li>4. Passing stopped school bus</li> <li>5. Failure to yield to pedestrian or bicyclist</li> <li>6. Cross against the signal (pedestrian)</li> <li>7. Walk into the path of motor vehicle outside marked or unmarked crosswalk.</li> <li>8. Ignore traffic signal (bicyclist)</li> <li>9. Wrong way riding</li> <li>10. Ride on sidewalk where prohibited</li> </ol>	<ol style="list-style-type: none"> <li>2. Street Smart Annual Report</li> <li>3. Bike to Work Day Annual Report</li> <li>4. Street Smart Enforcement Reports/annual</li> </ol>	<p>Virginia SRTS does not tally such numbers.</p> <ul style="list-style-type: none"> <li>• 8500 Bike to Work Day participants in 2010</li> </ul>
<b>Targets</b>	<b>Primary Indicators</b>	<b>Data Source/Freq.</b>	<b>Baseline</b>	<b>Suggested Indicators</b>	<b>Data Sources/Freq.</b>	<b>Baseline</b>



**Chapter 6**  
**Best Practices**



The *TPB Vision* and *Region Forward* plans call for a transportation system that allows convenient and safe bicycle and pedestrian access, with dynamic regional activity centers and an urban core that contain a mix of jobs, housing and services in a walkable environment. In order to achieve these goals, the Bicycle and Pedestrian Subcommittee has developed the following set of recommended best practices.

**A. Incorporate bicycle and pedestrian elements in all jurisdictional planning and design policies. Adopt “Complete Streets” policies.**

*“VDOT will initiate all highway construction projects with the presumption that the projects shall accommodate bicycling and walking”*



**Figure 1: Missing sidewalk near Ft. Totten Metro**

1. Include bicycling and walking, including provisions for persons with disabilities, in all stages of the transportation and land use planning process, from initial concept through implementation.<sup>1</sup>
2. In particular, consistent with federal policy, every jurisdiction and agency should adopt a “complete streets” or routine accommodation policy such as the Virginia Department of Transportation has adopted. Under “complete streets” policies pedestrians and bicyclists will be accommodated as part of all transportation projects, with a few limited and well-defined exceptions. Typical exceptions drawn from Oregon’s “Bicycle Bill”, which has been the model for such ordinances, are listed below:
  - a. Bicyclists and pedestrians are prohibited by law from using the roadway, as with a tunnel or limited-access highway. In this instance, a greater effort may be necessary to accommodate bicyclists and pedestrians elsewhere within the right of way or within the same transportation corridor.
  - b. The cost of establishing bikeways or walkways would be excessively disproportionate to the need or probable use. Excessively disproportionate is

*Many Agencies  
involve Walking  
and Biking  
Advocates in the  
Planning Process*

<sup>1</sup> Ft. Totten, DC Photo: COG/TPB, Michael Farrell

defined as exceeding twenty percent of the cost of the larger transportation project.

- c. Where sparsity of population or other factors indicate an absence of need. This exception is meant for remote rural areas that are not likely to experience development within the life span of the investment. Since the life span of a bridge may be 50 years or more, the existing sparsity of population should be expected to continue for that long; otherwise pedestrian and bicycle facilities should be provided.

Agencies should carry out periodic **audits to monitor compliance** with a Complete Streets policy once it is adopted.

An effective complete streets policy is critical, since retrofitting pedestrian and bicycle accommodations is far more expensive than designing them in from the beginning. Policies which urge agencies to “consider” or “encourage” the provision of pedestrian and bicycle facilities often do not provide clear guidance as to when pedestrian or bicycle facilities should or should not be provided. Absent a clear mandate, pedestrian and bicycle facilities tend to be omitted.

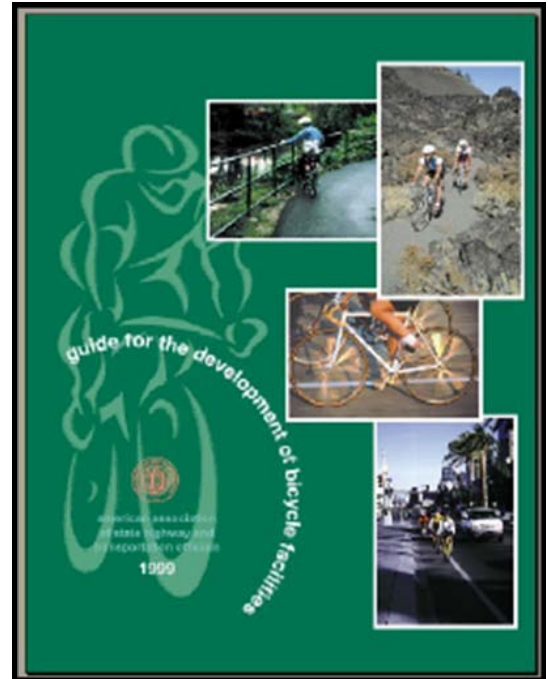
*In 2010, the region budgeted roughly \$23 million for bicycle and pedestrian projects, or about 1% of transportation capital expenditures*

- 3. Take into account likely future demand for bicycling and walking facilities in planning transportation projects; do not adopt designs that would preclude future improvements.
  - 4. Encourage public participation by bicyclists and pedestrians and other community groups in the planning process.
  - 5. Ensure adequate funding for bicycle and pedestrian transportation staff and facilities, including land acquisition, design, construction, and proper maintenance.
  - 6. Integrate bicycling and walking into new development.
    - a. Require land developers to finance and construct sidewalks, shared-use paths, and bicycle parking facilities within their developments.
    - b. Require land developers to design developments in a way that facilitates internal and external bicycle and pedestrian access. New development should feature a dense network of interconnected streets to minimize trip distance and offer many low-speed, low-traffic routes. Superblock and cul-de-sac development patterns should be discouraged, and transit-oriented development should be encouraged. Use the Virginia Department of Transportation’s [Secondary Street Acceptance Requirements](#) as a model.
-

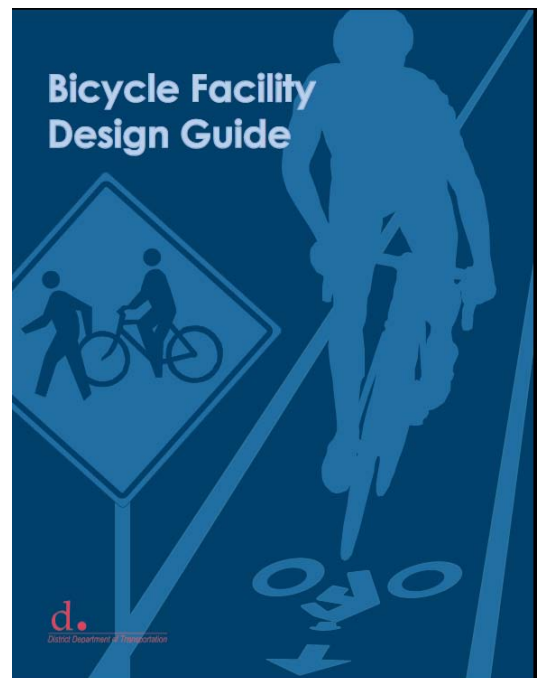
7. Design, construct, operate, and maintain sidewalks, shared-use paths, street crossings (including over- and undercrossings), pedestrian signals, signs, street furniture, transit stops and facilities, and all connecting pathways so that **all pedestrians, including people with disabilities**, can travel safely and independently.
8. Improve inter-jurisdictional coordination to identify, plan, construct and preserve **multi-jurisdictional routes**, and provide connecting links for existing routes to assure the establishment of a continuous bicycle and pedestrian transportation system throughout the Washington metropolitan area.
  - a. Identify networks of existing bicycle routes (both on-street and off-street) in the urban core, suburbs, developing fringe, as well as connecting **long distance inter-city routes**. Ensure that these routes are included in land use and transportation plans, and not eliminated as development occurs.
  - b. Identify shared-use path corridors before they are developed, and preserve opportunities for development as shared-use paths.
  - c. Identify existing physical barriers to bicycling (such as rivers and streams, bridges, railroad tracks, highway crossings, and limited access highways with no crossing route) and identify solutions to overcome them.
  - d. Implement uniform wayfinding and/or designation for inter-jurisdictional routes that will provide easily understood instructions and information.
  - e. Convene and participate in a regional **working group** consisting of state and regional representatives to identify regional and long distance travel corridors for bicyclists, develop common guide signage guidelines, and develop of recommended bikeway alignments within travel corridors.

**B. Develop and adhere to consistent bicycle and pedestrian facility design and construction standards in each jurisdiction:**

1. Assure adequate planning, construction and maintenance standards for comfortable and safe bicycling on both on-street routes and off-street paths, as well comfortable and safe walking on paths and sidewalks. Assure that safety is the primary consideration in all design standards.
  - a. Adopt, as minimum standards for privately and publicly built facilities, the AASHTO *Guide for the Development of Bicycle Facilities*, AASHTO's *A Policy on Geometric Design of Highways and Streets*, and the AASHTO *Guide for the Planning, Design and Operation of Pedestrian Facilities*, the *ADA Accessibility Guidelines* from the U.S. Architectural and Transportation Barriers Compliance Board (Access Board), and the *Manual on Uniform Traffic Control Devices* from the Federal Highway Administration.
  - b. Establish and maintain **minimum design and maintenance standards** for each type of facility.
  - c. In accordance with [federal guidance](#), **go beyond the minimum requirements where necessary** to provide safe and comfortable accommodation for bicyclists and pedestrians. Agencies such as the District of Columbia Department of Transportation have developed their own design manuals to meet their specific needs, and which may incorporate experimental measures which are not found in the current AASHTO bicycle facility design guide.



**Figure 2: AASHTO Guide for the Development of Bicycle Facilities**



**Figure 3: DDOT Bicycle Facility Design Guide**



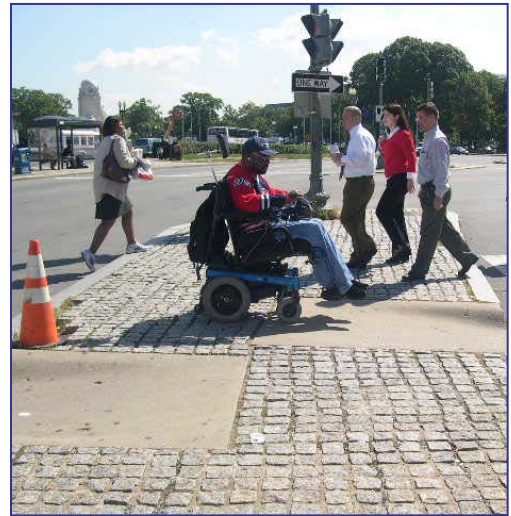
2. Improve Access for Persons with Disabilities to Pedestrian Facilities<sup>2</sup>

The Transportation Planning Board's Access for All Advisory Committee has identified the following recommended best

*Poorly Placed Curb Ramps and Rough Pavement can be Difficult to Navigate in a Wheelchair*

practices for improving access for persons with disabilities to pedestrian facilities. More detailed recommendations can be found in the *ADA Accessibility Guidelines* as noted above. With the exception of hand-rails on steep sidewalks, all of the following practices are legally required under the

ADA for all new facilities and all reconstructed facilities:



**Figure 4: Pedestrian Island near Union Station**

- a. Sidewalks should have curb ramps. Ramps should be well-maintained, well-placed, and not too steep in order to permit their use by persons in wheelchairs.<sup>3</sup>
- b. The height of wheelchair users should be considered when placing shrubs or other objects where they might block them from the view of motorists.
- c. Objects such as security barriers, fences, fire hydrants, telephone poles, parking meters, newspaper boxes, signal control boxes, and other street furniture should be placed in locations where they will not block curb ramps.
- d. The placement of crosswalk buttons must take into consideration the needs of people with disabilities.
- e. Audible pedestrian signals make communities safer for all pedestrians, including seniors and children as well as people with visual impairments.
- f. Sidewalks with steep slopes are difficult for people with disabilities to navigate, especially for people who use manual wheelchairs or people who have trouble walking. Hand rails could help mitigate these difficulties.

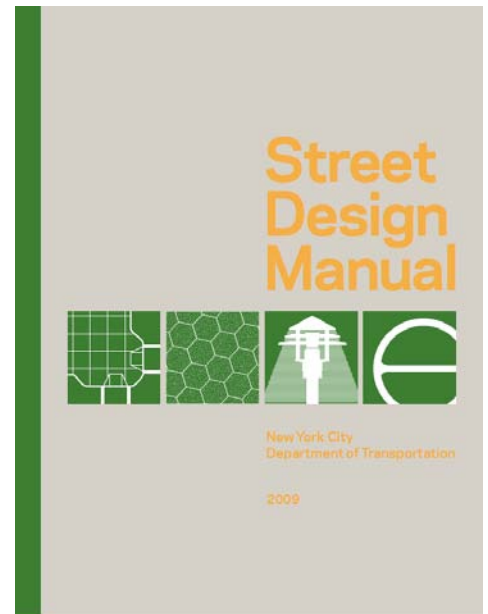
<sup>2</sup> "Lessons Learned" fact sheet for Disability Awareness Day. National Capital Region Transportation Planning Board Access for All Committee, October 20, 2004.

<sup>3</sup> Wheelchair ramp photo: COG/TPB, Access for All Committee

**C. Minimize roadway width, curb radii & crossing distance.<sup>4</sup>**

To minimize pedestrian crossing distances and reduce impermeable, heat-absorbing asphalt coverage, the paved roadway of **all streets should be designed to be the minimum width — and have the minimum number of lanes** — that safely and cost-effectively allow for the desired operations of motor vehicles, buses, and bicyclists. Excess width should be reallocated to provide walking, transit, and bicycling facilities, public open space, green cover, and/or stormwater source control measures. If financial limitations preclude final implementation of street retrofits (e.g., curbing, streetscaping, etc.), the reallocation of space should still proceed with temporary or least costly approaches such as restriping.

To further reduce pedestrian crossing distances and slow turning vehicles, **all roadway corners should be designed with the smallest possible radius** that still accommodates the intended vehicle and emergency vehicles.



**Figure 5: New York City Street Design Manual**

**D. Set target vehicle speeds appropriate to surrounding land use.<sup>5</sup>**

Streets should be designed with target speeds and speed limits appropriate to their surrounding uses and desired role in the vehicular network. Slower target speeds and speed limits should be considered on local streets, residential streets, alleys; on streets adjacent to schools, senior or disabled pedestrian trip generators; waterfronts, parks, rail stations, and other significant pedestrian destinations.

**Traffic calming** features may be designed in from the beginning, or retrofitted where needed, to bring traffic speeds down to the desired level.<sup>6</sup>

**E. Improve bicycle and pedestrian circulation within and between regional activity centers and the urban core.**

1. Improve sidewalks, bikeways, intersections, signage and links to transit for bicyclists and pedestrians in activity centers

<sup>4</sup> New York City Department of Transportation, [Street Design Manual](#), 2009. Page 46.

<sup>5</sup> Ibid,

<sup>6</sup> Ibid, pp. 76-91.

2. Improve access to and between regional activity centers.
  - a. Provide access to activity centers from surrounding neighborhoods.
  - b. Provide facilities to connect nearby activity centers.



**Figure 6: Bike Racks and Lockers at New York Avenue Metro Station**

**F. Integrate bicycling and walking into the public transportation system.<sup>7</sup>**

1. Provide safe and convenient access for pedestrians and bicyclists to all Metro and commuter rail stations and park-and-ride lots.
2. Improve bicycle parking at Metro, commuter rail stations, and park and ride lots. Replace broken and obsolete bicycle racks with current models. Provide safe, secure, covered high capacity bike parking, with both long- and short term rental options.
3. Improve customers' ability to make the "last mile" of their trip by locating bike sharing or increasing bike parking options at rail stations, and eliminate the need to bring a bike on the train during peak periods. If/when capacity constraints permit, expand the hours when bicycles are permitted on Metrorail.

*All Metrobuses have been equipped with racks to carry up to two bikes per bus*



**Figure 7: Bike on Metrobus.  
Photo Credit: WABA**

4. Provide bicycle racks on all transit buses.<sup>8</sup>
5. Provide for more efficient accommodation of bicycles on future rail services, including commuter rail, Metro, and light rail, in the Washington region.

<sup>7</sup> Photo of NY Avenue Metro Bike Lockers: COG/TPB, Michael Farrell

<sup>8</sup> Photo of Bike on Bus by WABA/Eric Gilliland

Vertical storage racks such as those on the [River light rail line](#) in New Jersey are a good model.

**G. Provide adequate bicycle support facilities.**

1. Enact zoning laws to require bicycle parking and related facilities as part of all new construction or major renovation, including office, retail, and housing developments.
  - a. Construct bicycle parking facilities in well-traveled and lighted areas. Facilities should be covered and secure.
  - b. Require placement of bicycle parking facilities in convenient locations;



**Figure 8: On-Street Bike Parking, Seattle**

*A keypad-controlled bike cage with racks is very secure*

short-term parking should be as close as possible to building entrances; long term parking facilities should be located in secure areas.

- c. Ensure the provision of showers and changing facilities in all new or renovated commercial developments.

2. Provide bicycle parking on public property. Jurisdictions should

install bicycle parking in public spaces where there is demand, such as public libraries, parks, and sidewalks near storefront retail.<sup>9</sup>

*The District of Columbia requires bicycle parking in any building with automobile parking, and installs bike racks on public sidewalks on request*



**Figure 9: Bike Cage, Stanford University**

<sup>9</sup> Photo of bike cage on Stanford Campus, COG/TPB, Michael Farrell

The Washington, D.C. Department of Transportation has established the following bicycle parking requirements for property owners:

- Bicycle parking is required for office, retail and service uses that provide car parking
- The required number of bike parking spaces is five percent (5%) of the required number of automobile parking spaces
- Bicycle parking must be convenient, secure, and well-lit
- For older buildings, one percent (1%) of the amount of required parking spaces may be converted to bicycle parking spaces
- DDOT offers free technical advice and racks for existing garages and off-street parking lots

## **H. Build a regional Bike Sharing Program**

Bike sharing is self-service public bicycle rental. It is similar to a car-sharing system, such as ZipCar, where members pay a fee and have access to any available bike throughout the regional system. Unlike earlier “public bicycle” or “yellow bike” programs, which failed due to lack

of means of preventing theft, modern bicycle sharing links rentals to a user’s credit card, which can be charged if the bicycle is not returned. Bike sharing has become common and popular in Europe, with programs in dozens of cities.

See Chapter 4, pp. 10-11 for details on bike sharing in the Washington region. The bike sharing system for the Washington region is [Capital Bikeshare](#).

**Figure 10: Cyclist training**  
Photo Credit: WABA



## **I. Develop pedestrian and bicycle safety education and enforcement programs in all jurisdictions.**

1. Promote pedestrian and bicycle safety education programs for children, beginning at the earliest possible age.
  - a. Establish pedestrian and bicycle safety programs at the elementary school level, including classroom and on-bicycle instruction.
  - b. Develop and distribute pedestrian and bicycle safety information materials designed to teach beginning cyclists and young pedestrians.
  - c. Emphasize the use of bicycle helmets as a means of injury reduction, lights after dark, reflectors, and reflective clothing for pedestrians.

2. Improve cycling skills and pedestrian safety habits of adults and young adults.
  - a. Produce and distribute information on bicycle usage and safety.
  - b. Emphasize the use of helmets for rider protection, lights after dark, reflectors, and reflective clothing for pedestrians.
3. Increase motorist awareness and accommodation of bicyclists and pedestrians, and bicyclist and pedestrian awareness and accommodation of motorists.
  - a. Include bicycle and pedestrian information in automobile drivers' training classes, driver's manuals, and license exams, and through the media.
  - b. Coordinate public media campaigns with law enforcement



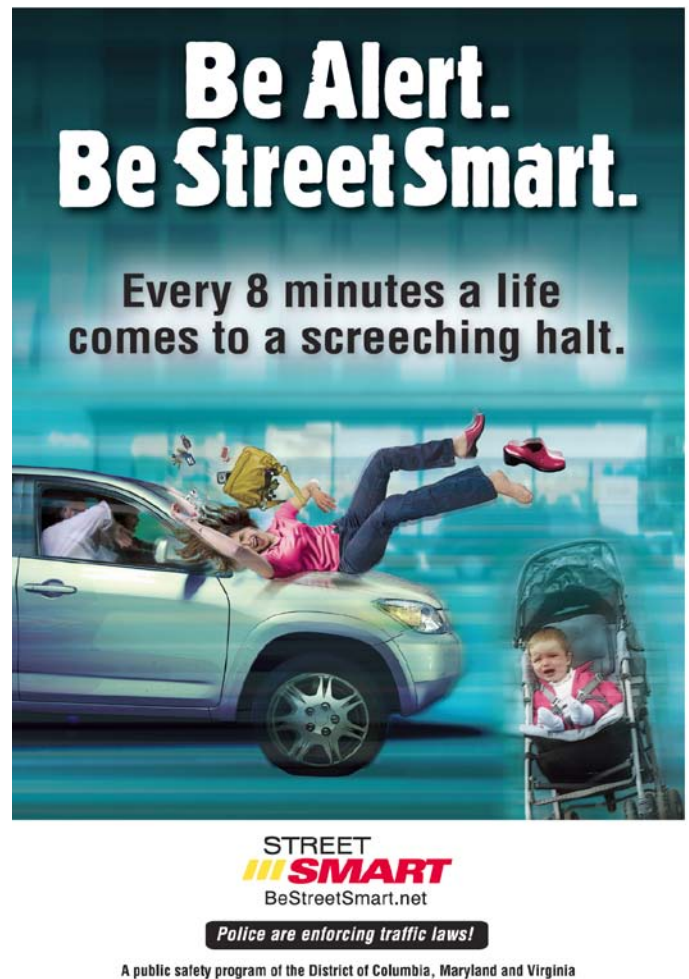
**Figure 11: Trail Patrol, C & O Canal Park**

4. Encourage jurisdictional uniformity of traffic laws relating to bicycling and walking. Encourage conformity with such regulations as the Uniform Vehicle Code.
5. Encourage consistent bicycle law enforcement to assure safe bicycling and walking.
  - a. Emphasize the enforcement of traffic laws dealing with offenses known to cause crashes between bicycles and motor vehicles, such as wrong way bicycling, and ignoring stop signs or stop lights.
  - b. Emphasize enforcement of traffic laws dealing with offenses known to cause crashes between pedestrians and motor vehicles, such as motorists failing to yield to pedestrians, and pedestrians disobeying “Don’t walk” signals.

*Volunteer Patrols  
can help with  
Trail Security*

6. Improve bicycle and pedestrian accident reporting and analysis procedures at the state and regional levels, to provide jurisdictions with a better understanding of accident causes and countermeasures.
7. Provide increased law enforcement presence along regional off-road trail networks and encourage inter-jurisdictional cooperation and coordination to provide for the safety and security of all pedestrians and bicyclists.

*The regional “[Street Smart](#)” Pedestrian and Bicycle Safety Campaign urges motorists and pedestrians to “Be Alert”*



**Figure 12: Street Smart Poster**

## **J. Encourage Walking and Bicycling**

Each jurisdiction and agency should encourage walking and bicycling, and promote the perception of both as legitimate forms of travel, in the way most appropriate to that organization. Examples include:

- a. Have walk and bike-friendly policies for employees. Let employees know that walking and bicycling is both permitted and encouraged. Organize/support/participate in events such as [Bike to Work Day](#), [Car-Free Day](#), etc.
- b. Carry out pedestrian and cyclist education programs that also encourage walking and bicycling, such as [Safe Routes to School](#).

- c. Provide high-quality information to the public on the benefits of walking and bicycling, and where and how it can be done in your community, through programs such as [WalkArlington](#) and [BikeArlington](#). Partner with employers, transportation demand managers, and advocacy groups.
- d. As part of a comprehensive transportation demand management program, provide financial incentives for employees to walk and bicycle.
- e. For States and Metro regions, consider investing in paid media campaigns.

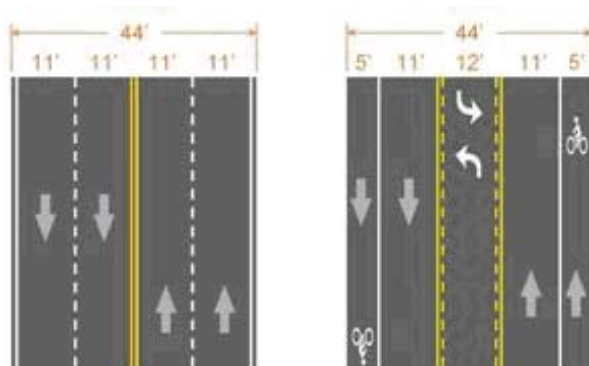
**K. Each jurisdiction should develop a high visibility bicycle or pedestrian project to demonstrate the effectiveness of bicycling and walking as a short distance transportation mode.**



**Figure 13: Lawyers Road Before Road Diet**  
Photo credit: VDOT



**Figure 14: Lawyers Road After Road Diet**



**Figure 15: Before and After Illustration**

*VDOT recently completed a model Road Diet project in Reston, VA, shrinking Lawyer's Road from four lanes to two plus a turn lane and bike lanes*



1. Ensure that projects are feasibly implemented, and supported by the community and the government agencies responsible for implementation.
2. Undertake extensive publicity and promotion for each facility or service included in the project.
3. Conduct an extensive analysis of the effectiveness of each project following the demonstration period.

**L. Each agency should designate a bicycle coordinator and a pedestrian coordinator to oversee bicycle and pedestrian programs.**

Experience has shown that without a designated staff person or persons responsible over for overseeing their implementation, pedestrian and bicycle programs and policies are not implemented effectively. Staffing levels should be proportional to the size of the agency and volume of work.

All TPB member jurisdictions with active pedestrian and bicycle programs designate a lead staff person or coordinator.



## **Chapter 7**

### **The 2035 Bicycle and Pedestrian Network**



**The Regional Bicycle and Pedestrian Network in 2040**

The *Bicycle and Pedestrian Plan for the National Capital Region* includes approximately 336 bicycle and pedestrian facility improvement projects from across the region. If every project in the plan is implemented, in 2040 the region will have added approximately 450 miles of bicycle lanes and 630 miles of shared-use path. The overall network length (allowing for some dual bike lane/sidepath facilities) will increase by over 1000 miles.

In addition, hundreds of miles of signed on-road bicycle routes will be created. In many cases roads are designated for improvement as bicycle routes, but the exact nature of the improvement – bike lane, widened shoulders, wide outside lane, shared lane markings, signs – has not yet been determined.

Twenty major pedestrian intersection improvements will be carried out, and ten pedestrian/bicycle bridges or tunnels will be built. Hundreds of intersections will receive new crosswalk signals, and ongoing sidewalk improvement programs will retrofit sidewalks in areas where they are missing.

A new bicycle and pedestrian crossing over the Potomac will be created at the American Legion Bridge, and the bridges over the Anacostia River will be improved for pedestrians and bicyclists. In addition, twenty-one major streetscaping projects will improve pedestrian and bicycle access and amenities in places such as H Street NE, Tysons Corner, Ballston-Rosslyn, and Columbia Pike.

Table 7-1 below summarizes the new facility mileage that will be added by 2040 if this plan is implemented in full.

<b>Table 7-1: Miles of Bicycle/Pedestrian Facilities in the Washington Region</b>				
Facility Type	Total in 2005	Completed 2006- May 2010	Planned New Facilities/Upgrades	Total in 2040
Bicycle Lane	56	35	450	541
Shared-Use Path	490	53	630	1173
<b>Total</b>	<b>546</b>	<b>88</b>	<b>1125</b>	<b>1714</b>

**Progress Since 2006**

Seventy-three projects from the 2006 Bicycle and Pedestrian Plan have been completed. This total does not count projects on which significant progress has been made, unless for reporting purposes the project was split into phases, and the earlier phases reported as complete.

The region is currently adding about 13 miles of shared-use path and nine miles of bike lane per year. At the current pace of construction the region will have completed about 390 miles of shared use path, and 270 miles of bike lane by 2040, or a little more than half the planned network.

At the same time sixteen major pedestrian intersection improvements, nine streetscaping projects, and five pedestrian bridges or tunnels were completed.

Notable projects finished since 2006 include the pedestrian bridge over Route 50 at 7 corners, the Woodrow Wilson Bridge, the College Park Trolley Trail, and the DC Bike Station at Union Station.

Mileage of sidewalk construction was not tracked, but there are ongoing sidewalk retrofit and pedestrian safety programs in all the major inner jurisdictions. Privately provided facilities are also not counted.

Of the 73 projects completed, 37 had a total reported cost of \$64,914,000. The rest were part of larger projects, or had no cost reported.

## **Funding**

While many of these projects have no identified funding source, and are not expected to be built soon, some are very close to being realized. Of the 336 planned projects, twenty are under construction, fifty-seven are fully funded, and another sixty-six have some funding identified.

Under “Complete Streets” policies, most bicycle and pedestrian projects are now built as part of larger transportation projects. Of the 359 transportation projects in the [FY 2010-2015 Transportation Improvement Program](#), 161 include some form of bicycle and pedestrian accommodation, while 17 projects were identified as being specifically bicycle or pedestrian.

## **Cost Estimates**

Cost estimates were provided by the agencies for about 30% of the planned projects. For most of the planned projects that have not yet been designed, no meaningful project-level estimates can be made. Many of the projects which have cost estimates are part of a larger project. In a combined project it is nearly impossible to disentangle the portion of the cost attributable to bicycle or pedestrian features.

Given the difficulties of getting actual cost estimates for each project, we have imputed a range of regional costs for the plan based on an assumed typical cost per mile or per

project. The total cost of improvements listed in the plan is estimated at about \$1 billion (2010 dollars).

Facility Type	Imputed Cost Range per Mile or per Project	Miles or Number of Projects with Assigned Cost	Imputed Cost
Multi-Use Path	\$500 - \$2,000	630 miles	\$315,000 - \$1,260,000
Bicycle Lane	\$10 \$30	450 miles	\$4,500 - \$13,500
Pedestrian/Bicycle Bridge/Tunnel	\$4,000 - \$6,000	10 projects	\$40,000 - \$60,000
Pedestrian Intersection Improvement	\$300 - \$600	20 projects	\$6,000 - \$12,000
Streetscape	\$2,000 - \$4,000	21 project	\$42,000 - \$84,000
Total			\$407,500 - \$1,429,500

No comparable “financially unconstrained” plan exists for other types of transportation projects over the next 30 years. The six-year, FY 2010-2015 Transportation Improvement Program includes \$17.6 billion worth of transportation projects and programs, an amount which is widely seen as inadequate for the region’s transportation needs. Assuming the region continues to fund transportation at the same real level for the next 30 years, fully funding the bicycle and pedestrian plan over the same period would cost about 1.2% of the total transportation budget.

**Explanation of Project listings**

Appendix A lists the plan projects, organized alphabetically by state and jurisdiction. Facility type, responsible agencies, limits, length, and cost are also included. Note that due to the nature of bicycle and pedestrian facility improvements, the list in Appendix A is expected to change annually, as projects are added or removed.

The project list is drawn from a database that includes more extensive information, including project status, agency project ID number, facility lengths, facility alignment, description, project status, project web site, date of (projected) completion, date the record was last updated, and project manager name and contact information. Agency staff may enter via a password-protected web site to enter, edit, and delete project information, making the process of keeping the database accurate simple. A public access version of this on-line version of this database can be found at <http://www.mwcog.org/bikepedplan/>.

Over time the database has proven useful in tracking the progress of bicycle and pedestrian projects at a regional level. A sample database entry and a data dictionary are found in Appendix B.

This project list is intended to be a list of significant planned bicycle and pedestrian projects in the Washington region. Agencies were encouraged to submit projects for inclusion if they were one mile or more in length, or cost more than \$400,000. Small sidewalk projects are not included unless they were part of a larger pedestrian or bicycle project.

Figures 7-1 and 7-2 show the location of major bicycle and pedestrian projects throughout the region. Pedestrian/bicycle bridge or tunnel projects, multi-use paths greater than three miles in length, and projects estimated by their sponsors to cost more than \$500,000 are mapped, except for area projects that cannot be mapped in a meaningful way. About a quarter of the plan projects are mapped. Project details can be found in the project list in Appendix A, which groups the projects by state and jurisdiction.

Tables 7-3 and 7-4 list the mapped projects. Table 7-3 lists the mapped projects by line number. Line numbers are sequential numbers on the left side of the project table in Appendix A. Since projects in Appendix A are grouped by state and jurisdiction, projects in Table 7-3 are also grouped by state and jurisdiction.

Projects are labeled on the maps with their “Project ID”, a permanent identification number. To find the project name from the Project ID number on the label, use Table-7-4, which lists the mapped projects by Project ID number.

**Table 7-3: Mapped Bicycle and Pedestrian Projects  
By Line Number**

<b>Line Number</b>	<b>Project ID</b>	<b>Project Name</b>	<b>Project Type</b>
1	635	11 <sup>th</sup> Street SE Bridges and Intersection	Bridge
2	173	Anacostia Riverwalk Trail	Shared-Use Path
14	62	Great Streets Minnesota Avenue NE	Streetscape
18	197	Metropolitan Branch Trail	Shared-Use Path
19	73	New Pedestrian Bridge over Anacostia Freeway	Bridge
20	93	Oxon Run Trail Restoration	Shared-Use Path
22	38	Pedestrian Tunnel	Bridge
24	178	Rock Creek Park Trail	Shared-Use Path
28	637	Theodore Roosevelt Bridge Rehabilitation	Bridge
30	75	Union Station Bike Station	Bicycle Parking



Line Number	Project ID	Project Name	Project Type
31	181	Watts Branch Trail	Shared-Use Path
35	385	College Park Trolley Trail	Shared-Use Path
39	551	East Street Rail Trail	Shared-Use Path
41	538	Bush Creek Trail	Shared-Use Path
43	535	Monocacy River Greenway Future Phases	Shared-Use Path
48	529	H&F Trolley Trail Phase II	Shared-Use Path
49	537	I-270 Transitway	Shared-Use Path
51	545	Emmitsburg Railroad Trail	Shared-Use Path
52	543	Middletown-Myersville Trolley Trail	Shared-Use Path
56	542	Walkersville-Woodsboro Corridor II	Shared-Use Path
58	41	American Legion Bridge	Pedestrian/Bicycle Bridge
62	241	Bethesda Bikeway and Pedestrian Facilities	Streetscape
66	17	Bowie Mill Road	Bike Lane
68	20	Briggs Chaney Road East	Shared-Use Path
69	203	Briggs Chaney Road West	Bike Lane
71	250	Clarksburg Road (MD 121)/Stringtown Road	Shared-Use Path
72	144	Clopper Road/Diamond Avenue (MD 117)	Shared-Use Path, Bike Lane
78	28	Darnestown Road (MD 28) - North	Shared-Use Path, Bike Lane
79	158	Democracy Boulevard	Shared-Use Path
87	223	Falls Road (MD 189)	Shared-Use Path
90	136	Forest Glen Pedestrian Bridge	Pedestrian/Bicycle Bridge
93	22	Frederick Road (MD 355) - Upcounty	Shared-Use Path
95	94	Georgia Avenue (MD 97) - North	Shared-Use Path
98	263	Germantown Road (MD 118)	Shared-Use Path
101	66	Goshen Road/Brink Road	Shared-Use Path

<b>Line Number</b>	<b>Project ID</b>	<b>Project Name</b>	<b>Project Type</b>
105	12	ICC Bike Path	Shared-Use Path
109	39	Macarthur Boulevard	Shared-Use Path
110	2	Matthew Henson Trail	Shared-Use Path
115	72	Mid-County Highway	Shared-Use Path
118	90	Muddy Branch Road	Shared-Use Path
119	104	Muncaster Mill Road (MD 115)/Norbeck Road	Shared-Use Path
126	207	New Hampshire Avenue	Shared-Use Path
149	101	River Road (MD190)	Shared-Use Path
154	10	Seven Locks Road	Shared-Use Path
162	88	University Boulevard	Shared-Use Path
174	188	Addison Road	Bike Lane
177	111	Anacostia River Trail (Prince George's)	Shared-Use Path
179	247	Auth Road	Shared-Use Path
187	125	Chesapeake Beach Rail-Trail	Shared-Use Path
189	5	Collington Branch	Shared-Use Path
191	192	Folly Branch Trail	Shared-Use Path
196	52	Henson Creek Trail Extension	Shared-Use Path
203	592	MD 193	Shared-Use Path, Bike Lane
216	78	Piscataway Creek Trail	Shared-Use Path
218	198	Prince George's Connector	Shared-Use Path
224	186	Ritchie Marlboro Road	Shared-Use Path
229	213	Tinkers Creek Trail	Shared-Use Path
231	100	US 1	Shared-Use Path, Bike Lane
234	249	Western Branch Trail	Shared-Use Path

236	196	Woodrow Wilson Bridge	Pedestrian/Bicycle Bridge
237	553	Rhode Island Avenue Trolley Trail Extension	Shared-Use Path
<b>Line Number</b>	<b>Project ID</b>	<b>Project Name</b>	<b>Project Type</b>
255	604	Carlin Springs Road Bridge Replacement	Bridge
256	608	Columbia Pike Complete Streets	Streetscape
257	612	Comple Streets R-B Corridor	Streetscape
264	311	I-395 Shirlington Underpass, Four Mile Run Trail	Pedestrian/Bicycle Bridge
266	598	Long Bridge Esplanade Park Bridge	Bridge
267	607	Old Dominion Drive Complete Streets	Streetscape
268	310	Old Dominion Drive Complete Streets Phase I	Streetscape/Pedestrian
272	110	Route 110 Trail	Shared-Use Path
275	179	VA 120 (Glebe Road)	Streetscape/Pedestrian
276	65	VA 120 (S Glebe Road)	Streetscape/Pedestrian
278	600	Washington Boulevard Trail Phase II	Shared-Use Path
279	27	Rosslyn Circle Crossing	Pedestrian Intersection Improvement
280	192	Mount Vernon Trail Extensio	Shared-Use Path
282	129	Duke Street Pedestrian Bridge	Pedestrian/Bicycle Bridge
285	34	Eisenhower Trail	Shared-Use Path
286	98	Holmes Run Greenway	Pedestrian/Bicycle Tunnel
288	217	King Street/Beauregard/Walter Reed Interchange	Pedestrian Intersection Improvement
297	566	Four Mile Run Pedestrian Bridge	Bridge
298	71	Woodrow Wilson Bridge - VA	Pedestrian/Bicycle Bridge
299	58	Accotink Gateway Connector Trail	Shared-Use Path
322	402	Columbia Pike	Shared-Use Path
324	30	Cross County Trail	Shared-Use Path
326	405	Danbury Forest	Pedestrian/Bicycle Bridge
328	176	Fairfax County Parkway Trail	Shared-Use Path
331	516	Gallows Road On-Road Bicycle Facility	Bike Lanes
333	49	Great Falls Street Trail	Shared-Use Path
340	442	Leesburg Pike at South Jefferson	Pedestrian Intersection Improvement

344	449	Little River Turnpike	Pedestrian Intersection Improvement
352	555	Pohick VRE Trail	Shared-Use Path
354	479	Richmond Highway Pedestrian and Bicycle Improvements	Pedestrian Intersection Improvement
365	290	Trap Road	Pedestrian/Bicycle Bridge
		US 50 Install Median Barrier and Fence	Streetscape/Pedestrian
370	256	US 50 Pedestrian Bridge	Pedestrian/Bicycle Bridge
371	85	US 50 Pedestrian Improvements	Streetscape/Pedestrian
380	309	Old Ox Road Widening	Shared-Use Path
383	224	VA 846 Sterling Boulevard	Streetscape/Pedestrian
384	259	W&OD Trail Extension	Shared-Use Path
387	211	Route 123 Widening	Shared-Use Path
390	306	Bus 234 Add Signalized Crosswalks	Streetscape/Pedestrian
392	171	Linton Hall Road Widening	Shared-Use Path
396	164	Route 28 Trail Extension	Shared-Use Path
397	102	VA 234 Bike Trail	Shared-Use Path
406	70	Pedestrian Study and Improvements	Streetscape/Pedestrian
407	184	Ped and Bike Path Network	Streetscape/Pedestrian
408	227	Potomac Avenue	Streetscape/Pedestrian
<b>Line Number</b>	<b>Project ID</b>	<b>Project Name</b>	<b>Project Type</b>

**Table 7-4: Mapped Bicycle and Pedestrian Projects  
By Project ID**

Project ID	Line Number	Project Name	Project Type
2	110	Matthew Henson Trail	Shared-Use Path
5	189	Collington Branch	Shared-Use Path
10	154	Seven Locks Road	Shared-Use Path
12	105	ICC Bike Path	Shared-Use Path
17	66	Bowie Mill Road	Bike Lane
20	68	Briggs Chaney Road East	Shared-Use Path
22	93	Frederick Road (MD 355) - Upcounty	Shared-Use Path
27	279	Rosslyn Circle Crossing	Pedestrian Intersection

			Improvement
28	78	Darnestown Road (MD 28) - North	Shared-Use Path, Bike Lane
30	324	Cross County Trail	Shared-Use Path
Project ID	Line Number	Project Name	Project Type
34	285	Eisenhower Trail	Shared-Use Path
38	22	Pedestrian Tunnel	Bridge
39	109	Macarthur Boulevard	Shared-Use Path
41	58	American Legion Bridge	Pedestrian/Bicycle Bridge
49	333	Great Falls Street Trail	Shared-Use Path
52	196	Henson Creek Trail Extension	Shared-Use Path
58	299	Accotink Gateway Connector Trail	Shared-Use Path
62	14	Great Streets Minnesota Avenue NE	Streetscape
65	276	VA 120 (S Glebe Road)	Streetscape/Pedestrian
66	101	Goshen Road/Brink Road	Shared-Use Path
70	406	Pedestrian Study and Improvements	Streetscape/Pedestrian
71	298	Woodrow Wilson Bridge - VA	Pedestrian/Bicycle Bridge
72	115	Mid-County Highway	Shared-Use Path
73	19	New Pedestrian Bridge over Anacostia Freeway	Bridge
75	30	Union Station Bike Station	Bicycle Parking
78	216	Piscataway Creek Trail	Shared-Use Path
85	371	US 50 Pedestrian Improvements	Streetscape/Pedestrian
88	162	University Boulevard	Shared-Use Path
90	118	Muddy Branch Road	Shared-Use Path
93	20	Oxon Run Trail Restoration	Shared-Use Path
94	95	Georgia Avenue (MD 97) - North	Shared-Use Path
98	286	Holmes Run Greenway	Pedestrian/Bicycle Tunnel
100	231	US 1	Shared-Use Path, Bike Lane
101	149	River Road (MD190)	Shared-Use Path
102	397	VA 234 Bike Trail	Shared-Use Path
104	119	Muncaster Mill Road (MD 115)/Norbeck Road	Shared-Use Path

110	272	Route 110 Trail	Shared-Use Path
111	177	Anacostia River Trail (Prince George's)	Shared-Use Path
125	187	Chesapeake Beach Rail-Trail	Shared-Use Path
<b>Project ID</b>	<b>Line Number</b>	<b>Project Name</b>	<b>Project Type</b>
129	282	Duke Street Pedestrian Bridge	Pedestrian/Bicycle Bridge
136	90	Forest Glen Pedestrian Bridge	Pedestrian/Bicycle Bridge
144	72	Clopper Road/Diamond Avenue (MD 117)	Shared-Use Path, Bike Lane
158	79	Democracy Boulevard	Shared-Use Path
164	396	Route 28 Trail Extension	Shared-Use Path
171	392	Linton Hall Road Widening	Shared-Use Path
173	2	Anacostia Riverwalk Trail	Shared-Use Path
176	328	Fairfax County Parkway Trail	Shared-Use Path
178	24	Rock Creek Park Trail	Shared-Use Path
179	275	VA 120 (Glebe Road)	Streetscape/Pedestrian
181	31	Watts Branch Trail	Shared-Use Path
184	407	Ped and Bike Path Network	Streetscape/Pedestrian
186	224	Ritchie Marlboro Road	Shared-Use Path
188	174	Addison Road	Bike Lane
192	191	Folly Branch Trail	Shared-Use Path
192	280	Mount Vernon Trail Extensio	Shared-Use Path
196	236	Woodrow Wilson Bridge	Pedestrian/Bicycle Bridge
197	18	Metropolitan Branch Trail	Shared-Use Path
198	218	Prince George's Connector	Shared-Use Path
203	69	Briggs Chaney Road West	Bike Lane
207	126	New Hampshire Avenue	Shared-Use Path
211	387	Route 123 Widening	Shared-Use Path
213	229	Tinkers Creek Trail	Shared-Use Path
217	288	King Street/Beauregard/Walter Reed Interchange	Pedestrian Intersection Improvement
223	87	Falls Road (MD 189)	Shared-Use Path
224	383	VA 846 Sterling Boulevard	Streetscape/Pedestrian
227	408	Potomac Avenue	Streetscape/Pedestrian

241	62	Bethesda Bikeway and Pedestrian Facilities	Streetscape
247	179	Auth Road	Shared-Use Path
249	234	Western Branch Trail	Shared-Use Path
<b>Project ID</b>	<b>Line Number</b>	<b>Project Name</b>	<b>Project Type</b>
250	71	Clarksburg Road (MD 121)/Stringtown Road	Shared-Use Path
256	370	US 50 Pedestrian Bridge	Pedestrian/Bicycle Bridge
259	384	W&OD Trail Extension	Shared-Use Path
263	98	Germantown Road (MD 118)	Shared-Use Path
290	365	Trap Road	Pedestrian/Bicycle Bridge
306	390	Bus 234 Add Signalized Crosswalks	Streetscape/Pedestrian
309	380	Old Ox Road Widening	Shared-Use Path
310	268	Old Dominion Drive Complete Streets Phase I	Streetscape/Pedestrian
311	264	I-395 Shirlington Underpass, Four Mile Run Trail	Pedestrian/Bicycle Bridge
385	35	College Park Trolley Trail	Shared-Use Path
402	322	Columbia Pike	Shared-Use Path
405	326	Danbury Forest	Pedestrian/Bicycle Bridge
442	340	Leesburg Pike at South Jefferson	Pedestrian Intersection Improvement
449	344	Little River Turnpike	Pedestrian Intersection Improvement
479	354	Richmond Highway Pedestrian and Bicycle Improvements	Pedestrian Intersection Improvement
516	331	Gallows Road On-Road Bicycle Facility	Bike Lanes
529	48	H&F Trolley Trail Phase II	Shared-Use Path
535	43	Monocacy River Greenway Future Phases	Shared-Use Path
537	49	I-270 Transitway	Shared-Use Path
538	41	Bush Creek Trail	Shared-Use Path
542	56	Walkersville-Woodsboro Corridor II	Shared-Use Path
543	52	Middletown-Myersville Trolley Trail	Shared-Use Path

545	51	Emmitsburg Railroad Trail	Shared-Use Path
551	39	East Street Rail Trail	Shared-Use Path
553	237	Rhode Island Avenue Trolley Trail Extension	Shared-Use Path
555	352	Pohick VRE Trail	Shared-Use Path
566	297	Four Mile Run Pedestrian Bridge	Bridge
592	203	MD 193	Shared-Use Path, Bike Lane
598	266	Long Bridge Esplanade Park Bridge	Bridge
600	278	Washington Boulevard Trail Phase II	Shared-Use Path
604	255	Carlin Springs Road Bridge Replacement	Bridge
607	267	Old Dominion Drive Complete Streets	Streetscape
608	256	Columbia Pike Complete Streets	Streetscape
612	257	Complete Streets R-B Corridor	Streetscape
635	1	11 <sup>th</sup> Street SE Bridges and Intersection	Bridge
637	28	Theodore Roosevelt Bridge Rehabilitation	Bridge
<b>Project ID</b>	<b>Line Number</b>	<b>Project Name</b>	<b>Project Type</b>



# Figure 7-1 Major\* Bicycle and Pedestrian Projects



**Legend**

**Planned Spot Improvement**

- G
- | Complete

**Planned New Facility**

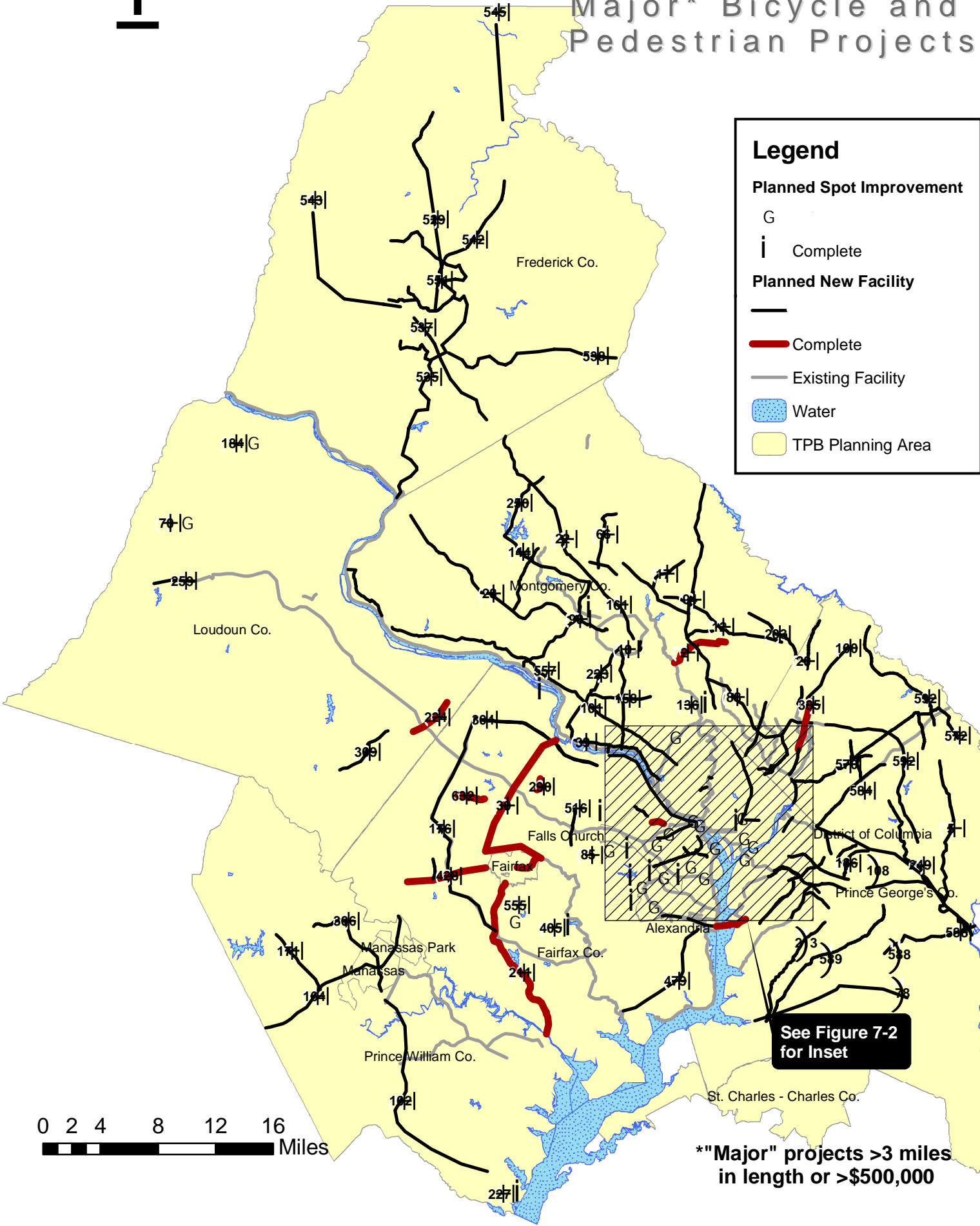
- Complete
- Existing Facility

**Water**

- Water

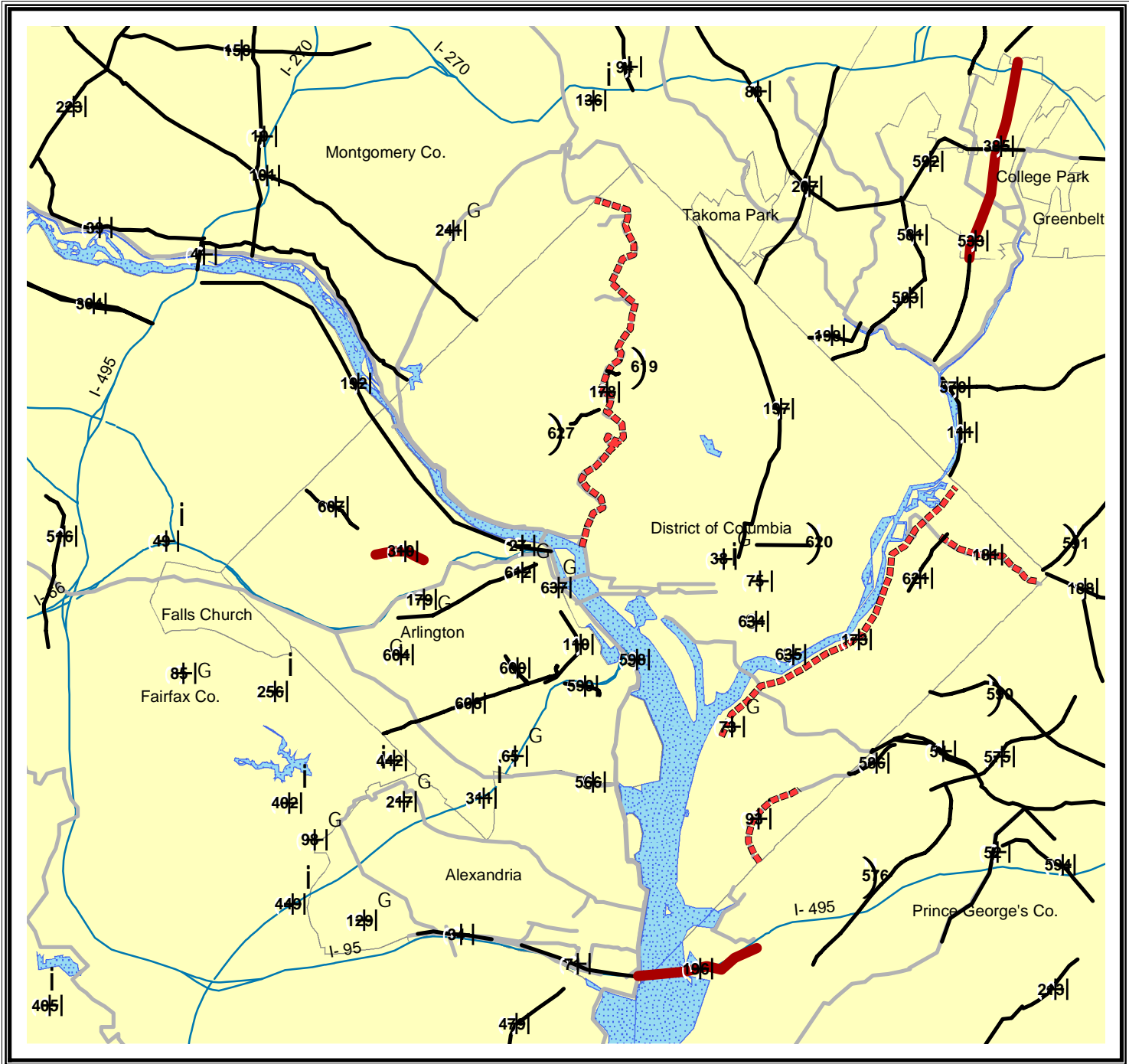
**TPB Planning Area**

- TPB Planning Area



**See Figure 7-2  
for Inset**

**\*\*"Major" projects >3 miles  
in length or >\$500,000**



**Legend**

**Planned Spot Improvement**

G

i

Complete

----- Planned Facility Upgrade

———— Planned New Facility

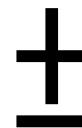
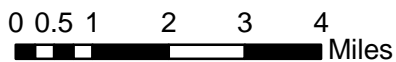
———— Existing Facility

———— Major Highways

Water

TPB Planning Area

Figure 7-2: Major\* Bicycle and Pedestrian Projects in the Central Washington Region



\*"Major" projects > 2 miles in length or > \$500,000

# **Appendix A**

## **Bicycle and Pedestrian Projects**

Of the Long-Range Bicycle and Pedestrian Plan  
For the National Capital Region

This appendix contains a complete list of the projects in the Bicycle and Pedestrian Plan for the National Capital Region. Below is a guide to the printed project list. Appendix B contains a data dictionary for the electronic database, which contains more information than this printed list, as well as a sample data entry form.

PROJECT LIST DATA DICTIONARY																	
Field	Explanation																
Line Number	Sequential series of numbers next to each project in Appendix A. These numbers are not permanently attached to any particular project; they change when projects are deleted.																
Project ID	A permanent identifying number assigned to each project in the plan. Used to label the projects on the map.																
Agency Project ID	The sponsoring agency's project identifying number																
Project Name	Descriptive name provided by the sponsoring agency																
From	Project Limits																
To	Project Limits																
Length (Miles)	Length of the project from start to finish in miles. Example: if a project consists of four miles of road with a continuous bike lane and sidewalk, the project length is four miles. For projects that have no length, such as bicycle racks, the listed length is zero.																
Responsible Agencies	Agencies responsible for implementing the project or otherwise involved																
Bike Lane	Bike lanes are striped lanes at least 4' wide in the public right-of-way, marked for the exclusive use of bicyclists																
Multi-Use Path	A paved or hard-surface path separated from traffic, officially designated for bicycles and other non-motorized users. Should be at least 8' wide.																
Sidewalk	Sidewalks are usually less than 8' wide, and are not designed for bicyclists.																
Type of Spot/Area Improvement	For non-linear projects. The pull-down menu gives the following options: <table border="0" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Type of Improvement</th> <th style="text-align: left; border-bottom: 1px solid black;">Code Letter</th> </tr> </thead> <tbody> <tr> <td>1. Pedestrian Intersection Improvement</td> <td>I</td> </tr> <tr> <td>2. Pedestrian/Bicycle Bridge or Tunnel</td> <td>B</td> </tr> <tr> <td>3. Traffic Calming</td> <td>TC</td> </tr> <tr> <td>4. Streetscape/Pedestrian Improvements</td> <td>S</td> </tr> <tr> <td>5. Bicycle Parking</td> <td>PK</td> </tr> <tr> <td>6. Bicycle Route Marking</td> <td>BR</td> </tr> <tr> <td>7. Other</td> <td>O</td> </tr> </tbody> </table>	Type of Improvement	Code Letter	1. Pedestrian Intersection Improvement	I	2. Pedestrian/Bicycle Bridge or Tunnel	B	3. Traffic Calming	TC	4. Streetscape/Pedestrian Improvements	S	5. Bicycle Parking	PK	6. Bicycle Route Marking	BR	7. Other	O
Type of Improvement	Code Letter																
1. Pedestrian Intersection Improvement	I																
2. Pedestrian/Bicycle Bridge or Tunnel	B																
3. Traffic Calming	TC																
4. Streetscape/Pedestrian Improvements	S																
5. Bicycle Parking	PK																
6. Bicycle Route Marking	BR																
7. Other	O																
In CLRP	Project is in the Financially Constrained Long-Range Transportation Plan for the National Capital Region, and therefore is officially considered to have funding available to																

	support project completion.												
In TIP	Project is in the most recent National Capital Region Transportation Improvement Program with specific funding amounts identified for program completion.												
<b>Field</b>	<b>Explanation</b>												
Status	<p>The pull-down menu offers the following options:</p> <table> <thead> <tr> <th></th> <th><u>Code Letter</u></th> </tr> </thead> <tbody> <tr> <td>1. Fully Funded<sup>1</sup></td> <td>F</td> </tr> <tr> <td>2. Partially Funded</td> <td>P</td> </tr> <tr> <td>3. Unfunded</td> <td>U</td> </tr> <tr> <td>4. Under Construction</td> <td>UC</td> </tr> <tr> <td>5. Complete</td> <td>C</td> </tr> </tbody> </table>		<u>Code Letter</u>	1. Fully Funded <sup>1</sup>	F	2. Partially Funded	P	3. Unfunded	U	4. Under Construction	UC	5. Complete	C
	<u>Code Letter</u>												
1. Fully Funded <sup>1</sup>	F												
2. Partially Funded	P												
3. Unfunded	U												
4. Under Construction	UC												
5. Complete	C												
Cost	In thousands of dollars. As many projects in the plan may not be built for many years, and have not been fully scoped, this can be a very rough estimate. If a project is part of a larger project the total project cost is <i>not</i> listed, only that portion of the cost which is attributable to the bicycle or pedestrian facility. Use of a rule of thumb for such estimates was acceptable, i.e. 3% of total project cost. Many projects do not have a cost estimate available.												

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<sup>1</sup> “Funded” indicates that the sponsoring agency has considered funding for completion of this project to be reasonably available within projected funding sources. “Unfunded” indicates, that while the project has been identified, there is no projected funding to support its completion at this time.

# 2010 Draft Bike/Ped Plan Project List

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
1	635 11th Street SE Bridges and Intersection			1	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	
2	173 Anacostia Riverwalk Trail	Potomac River	Maryland	20	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		\$20,000
3	215 Bicycle Lanes			30	DDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$600
4	56 Bicycle Parking Racks				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		\$500
5	74 Bicycle Route Signs				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$300
6	619 Blagden Avenue Hiker and Biker Trail - EA	Matthewson Drive	Beach Drive	0.4	DDOT, National Park Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	P	
7	613 Capital Bikeshare - District of Columbia				DDOT, Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	
8	636 Capitol Hill Transportation Study Inf. Improvement			0	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$4,200
9	142 Cultural/Heritage Trail System				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	U	\$0
10	622 District-Wide Bicycle and Pedestrian Program				DDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$3,300
11	634 Garfield Park Canal Park 2nd Street SE	Garfield Park	Canal Park	0	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		\$2,400
12	625 Great Streets - Georgia Avenue				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$16,140
13	620 Great Streets - H Street NE Streetscape	3rd Street NE	14th Street NE	1	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$62,000
14	621 Great Streets - Minnesota Avenue NE	A Street SE	Sheriff Road NE	1	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	F	\$7,000
15	626 Great Streets - Nannie Helen Burroughs				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$12,300
16	638 I-295 bridges over S. Capitol St. SE			0	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	
17	627 Klinge Road Reconstruction	Porter Street	Woodley Road	1	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$9,100
18	197 Metropolitan Branch Trail	Union Station	Takoma Park	7	DDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	U	\$20,000
19	73 New Pedestrian Bridge	Over Anacostia Freeway	Near Firth Sterling		DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$2,000
20	93 Oxon Run Trail Restoration	South Capitol Street	Southern Avenue	2	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$1,500
21	628 Pavement Markings & Traffic Calming				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$34,390

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLR	In TIP	Status	Cost
22	38 Pedestrian Passageway/Tunnel	1st Street Metro Station Kiosk	1st Street, N.E. (Under H Street Overpass)	1	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$13,000
23	623 Replace Pedestrian Bridge over Kenilworth Ave			1	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$6,800
24	178 Rock Creek Park Trail			4	DDOT, National Park Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$2,500
25	97 Safe Routes to School Program				DDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$5,000
26	639 Safety Improvements Citywide			0	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	TC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	
27	96 Sidewalk Construction				DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		\$2,000
28	637 Theodore Roosevelt Bridge Rehabilitation			1	DDOT	<input type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	
29	624 Transportation Enhancements				DDOT	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$13,800
30	75 Union Station Bike Station	(Union Station)			DDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$4,000
31	181 Watts Branch Trail	Minnesota Ave	62nd Street, NE	2	DDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$3,000

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
32	617 Capital Bikeshare Region-Wide				DDOT, Arlington, City of Alexandria, Montgomery	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="checkbox"/>	<input type="checkbox"/>	P	\$22,284
33	568 WMATA Bicycle Parking Project			0	WMATA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	P	\$1,165

**DRAFT**

Key to Codes

B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
 PK = Bicycle Parking R = Bicycle Route Marking S = Streetscape U = Unfunded UC = Under Construction



Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
34	258	Boundary Channel	Bridge Trails		National Park Service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

**DRAFT**

Key to Codes

B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
 PK = Bicycle Parking R = Bicycle Route Marking S = Streetscape U = Unfunded UC = Under Construction

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
35	385 College Park Trolley Trail	Paducah Road	Albion Road	4	City of College Park	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	R	<input type="checkbox"/>	<input type="checkbox"/>	C	\$500

**DRAFT**

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B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
36	532 Carroll Creek Trail	Rocky Springs Road	Monocacy River	0	City of Frederick	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$10,000
37	552 Citywide Sidewalk Retrofit	City of Frederick	City of Frederick	0	City of Frederick	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$240
38	531 Rock Creek Trail	Stonegate Park	US Route 15	0	City of Frederick	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$1,000

**DRAFT**

Key to Codes

B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
 PK = Bicycle Parking R = Bicycle Route Marking S = Streetscape U = Unfunded UC = Under Construction

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
39	551 East Street Rail Trail	Carroll Creek	Tuscarora Creek	0	City of Frederick, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$2,000

**DRAFT**

Key to Codes

B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
40	530 Ballenger Creek Trail	Ballenger Creek Park	Monocacy River	0	Frederick County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$3,200
41	538 Bush Creek Trail	Monocacy River	Montgomery County Line	0	Frederick County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,300
42	558 Frederick County Safe Routes to Schools	Countywide	Countywide	0	Frederick County, Frederick County Public Schools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$350
43	535 Monocacy River Greenway Future Phases	Ballenger Creek Trail	Potomac River	0	Frederick County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$7,000
44	547 On-Street Bikeways Countywide	Countywide	Countywide	0	Frederick County, MD SHA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$3,000

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
45	512 H&F Trolley Trail Phase II	Water Street	Moser Road	0	Frederick County, Frederick County Div. of Parks & Rec; City of Fred	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$7,000
46	534 Monocacy River Greenway Phase I	Tuscarora Creek	Ballenger Creek Trail	0	Frederick County, Frederick County Div. of Parks & Rec; City of Fred	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$5,500
47	533 Tuscarora Creek Trail	Yellow Springs Road	Monocacy River	0	Frederick County, Frederick County Div. of Parks & Rec; City of Fred	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,250

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
48	529 H&F Trolley Trail Phase III	Thurmont	Frederick	0	Frederick County, Frederick County Div. of Parks & Rec; City of Fred	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$6,000

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
49	537 I-270 Transitway	City of Frederick	Montgomery County Line	0	Frederick County, Frederick County Div. of Parks & Rec	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$5,000
50	536 Sugarloaf – Little Bennett Trail	Little Bennett Regional Park	Monocacy River	0	Frederick County, Frederick County Div. of Parks & Rec; City of Fred	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$375

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/ Area	In CLRP	In TIP	Status	Cost
51	545 Emmitsburg Railroad Trail	Rocky Ridge	Emmitsburg	0	Frederick County, Frederick County Div. of Parks & Rec / Emmitsburg	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$3,250

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
52	543 Middletown – Myersville Trolley Trail	Frederick	Myersville	0	Frederick County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$5,000
53	544 Middletown Greenway	Middletown	Middletown	0	Frederick County, Frederick County Div. of Parks & Rec; Middletown	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$3,000

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
54	539 B&O Trail	Mount Airy	Mount Airy	0	Frederick County, Town of Mt. Airy, Carroll County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
55	540 Walkersville – Woodsboro Corridor I	Monocacy River	Israel Creek	0	Frederick County, Frederick County Div. of Parks & Rec; MDOT; Woodsb	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,000
56	542 Walkersville – Woodsboro Corridor III	Monocacy River	Woodsboro - Railroad	0	Frederick County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$5,500

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
57	9 ADA Compliance Transportation Access	Countywide			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$15,881
58	41 American Legion Bridge	Macarthur Blvd	Fairfax County Line		MDOT, MCDOT, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
59	153 Annual Bikeway Program	Countywide			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$1,650
60	231 Annual Sidewalk Program	countywide			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$10,027
61	234 Bel Pre Road - east	Georgia Avenue (MD97)	Layhill Road (MD182)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
62	241 Bethesda Bikeway and Pedestrian Facilities	Bethesda CBD			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$3,500
63	92 Bethesda Trolley Trail	Twinbrook Metro Station	Norfolk/Rugby Ave. intersection (Bethesda)		MCDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$0
64	190 Bethesda Trolley Trail	South Drive	Twinbrook Metrorail station		MCDOT, MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$0
65	33 Bethesda Trolley Trail-NIH connector	Battery Lane	Cedar Lane		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
66	17 Bowie Mill Road	Muncaster Mill Road (MD115)	Olney-Laytonsville Road (MD108)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
67	232 Bradley Boulevard (MD191)	Persimmon Tree Road	Wisconsin Avenue (MD355)	6	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$0
68	20 Briggs Chaney Road East	Old Columbia Pike	Prince George's County line		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
69	203 Briggs Chaney Road West	New Hampshire Avenue	Old Columbia Pike		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
70	35 CCT-Black Hill connector	Crystal Rock Drive	Black Hill Regional Park		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
71	250 Clarksburg Road (MD121)/ Stringtown Road	Clopper Road (MD117)	MidCounty Highway	5	MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
72	144 Clopper Road/Diamond Avenue (MD117)	Summit Avenue	Clarksburg Road (MD121)	3	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
73	31 Columbia Pike (US29) North	New Hampshire Avenue/ Lockwood Drive	Spencerville Road (MD198)	7	MDOT, MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
74	57 Corridor Cities Transitway bike path	Shady Grove Metrorail Station	Frederick Road (MD355)		MCDOT, MTA	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
75	261 Crabbs Branch Way	Gude Drive	Shady Grove Road		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
76	630 Dale Drive Sidewalk	Mansfield Road	Hartsford Avenue	0.4	MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$4,675
77	140 Darnestown Road - south	Key West Avenue (MD28)	Wootton Parkway		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
78	28 Darnestown Road (MD28) - North	Seneca Road	Great Seneca Highway (MD119)	5	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
79	158 Democracy Boulevard	Falls Road (MD189)	Old Georgetown Road		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
80	25 Doctor Bird Road/Norwood Road (MD182)	Layhill Road (MD182)	Olney-Sandy Spring Road (MD108)		MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
81	174 East Jefferson Street	Montrose Road	Rollins Avenue		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
82	238 Ednor Road/Layhill Road	Norbeck Road (MD28)	New Hampshire Avenue (MD650)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
83	244 Elm Street	Exeter Road	Wisconsin Avenue (MD355)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
84	165 Executive Boulevard	Woodglen Road/North Bethesda Trail	Montrose Road		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
85	67 Fairland Road - West	Randolph Road	Columbia Pike (US 29)		MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
86	107 Fairland Road East	Columbia Pike (US29)	Prince George's County line		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
87	223 Falls Road (MD189)	MacArthur Boulevard	Wootton Parkway	5	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$20,865
88	240 Father Hurley Boulevard/Ridge Road	Germantown Road (MD118)	Brink Road		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$0
89	245 Fieldcrest Road	Woodfield Road (MD124)	Olney-Laytonsville Road (MD108)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
90	136 Forest Glen Pedestrian Bridge	west side of Georgia Avenue at Locust Grove Road	west side of Georgia Avenue at Forest Glen Road		MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$0
91	43 Forest Glen Road - central	Belvedere Place	Sligo Creek Trail		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
92	141 Frederick Road (MD355)	Gude Drive	Watkins Mill Road	5	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
93	22 Frederick Road (MD355)-Upcounty	Watkins Mill Road	Frederick County line		MCDOT, MDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
94	204 Georgetown Branch Trail	Bethesda CBD	Silver Spring Metrorail station		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$0
95	94 Georgia Avenue (MD97) - North	Olney-Laytonsville Road (MD108)	Glenmont Metrorail station	6	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
96	1 Georgia Avenue (MD97) - Upcounty	Brookeville Bypass	Howard County line		MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
97	242 Georgia Avenue (MD97)-Brookeville	Olney-Sandy Spring Road (MD108)	Brookeville Road	2	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
98	263 Germantown Road (MD118)	Darnestown Road (MD28)	Frederick Road (MD355)	7	MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
99	127 Glenallen Avenue	Randolph Road	Kemp Mill Road		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
100	151 Goldboro Road (MD614)	MacArthur Boulevard	Bradley Boulevard (MD191)	2	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
101	66 Goshen Road/Brink Road	MidCounty Highway	(Woodfield Road (MD124)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0

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102	44 Greencastle Road - east	Robey Road	Prince George's County line		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
103	122 Grosvenor Connector	Beach Drive	Metro station		MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
104	113 Hines Road-North Branch connector	Rock Creek's North Branch Trail	Cashell Road		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
105	12 ICC bike path	I-370 terminus	Prince George's County line		MDOT, M-NCPPC, MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
106	45 Layhill Road (MD182)	Georgia Avenue (MD97)	Norbeck Road (MD28)	2	MDOT, Montgomery County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
107	128 Lockwood Drive	Columbia Pike (US29)	New Hampshire Avenue (MD650)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
108	146 Long Draft Road	Quince Orchard Road	Clopper Road (MD117)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
109	39 MacArthur Boulevard	I-495	Oberlin Avenue	4	MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$7,610
110	2 Matthew Henson Trail	Rock Creek Trail (west of Viers Mill Rd.)	East of Georgia Ave. (Alderton Road)		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$5,142
111	251 MD198/MD28 shared use path	New Hampshire Avenue (MD 650)	Old Columbia Pike	3	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
112	42 MD384 connector to Silver Spring Metro Station	16th Street	East-West Highway	1	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
113	15 Metropolitan Branch Trail	Silver Spring Metro/Transit Center	Montgomery College Campus Takoma Park		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
114	106 Metropolitan Branch Trail	Silver Spring Metro Station	DC Line		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
115	72 MidCounty Highway	ICC	Frederick Road (MD355)		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
116	172 Middlebrook Road	Father Hurley Boulevard	MidCounty Highway		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
117	86 Montrose Road/Parkway	Falls Road	Veirs Mill Road (MD586)		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$0
118	90 Muddy Branch Road	Darnestown Road (MD28)	Clopper Road (MD117)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
119	104 Muncaster Mill Road (MD115)/ Norbeck Road (MD28)	Woodfield Road	Georgia Avenue (MD97)	5	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
120	169 Nebel Street - north	Old Georgetown Road	Randolph Road		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
121	160 Nebel Street - south	Nicholson Lane	Old Georgetown Road		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
122	149 Nebel Street extended	Randolph Road	Chapman Avenue		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
123	154 Needwood Road	Redland Road	Muncaster Mill Road (MD115)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0

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124	89 New Hampshire Avenue	DC Line	I-495	4	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
125	134 New Hampshire Avenue (MD650) - Ashton	Ednor Road	Olney-Sandy Spring Road (MD108)	2	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
126	207 New Hampshire Avenue (MD650) - Colesville	Randolph Road	Spencerville Road (MD198)	4	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
127	252 New Hampshire Avenue (MD650) - Ednor	Spencerville Road (MD198)	Ednor Road	2	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
128	120 New Hampshire Avenue (MD650) - Hillandale	I-495	Lockwood Drive	1	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
129	47 Nicholson Lane/Parklawn Drive	Nebel Street	Twinbrook Parkway		MCDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
130	87 Norbeck Road (MD28)	Georgia Avenue (MD97)	Layhill Road	3	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$0	
131	205 North Bethesda Trail Bridges	crossings of I-495 and I-270			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$0
132	79 Norwood Road	Layhill Road (MD182)	New Hampshire Avenue (MD650)		MCDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
133	208 Observation Drive	Germantown Road (MD118)	Frederick Road (MD355)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
134	62 Old Baltimore Road/New Cut Road	Clarksburg Road (MD121)	Frederick Road (MD355)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
135	257 Old Columbia Pike	E. Randolph Road	MD 198		MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$0	
136	228 Olney-Laytonville Road (MD108) - Laytonville	Laytonville Town boundary	Olney Mill Road		MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
137	236 Olney-Sandy Spring Road (MD108) - Ashton	Layhill Road (MD182)	Howard County line	2	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
138	194 Pedestrian Safety Program	Countywide			MCDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$9,600	
139	126 Persimmon Tree Road	Oaklyn Drive	Falls Road (MD189)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
140	95 Piney Meetinghouse Road	River Road (MD190)	Darnestown Road		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
141	112 Quince Orchard Road	Dufief Mill Road	Darnestown Road (MD28)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
142	150 Randolph Road - central	Parklawn Drive	Veirs Mill Road (MD586)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
143	119 Randolph Road - east	Veirs Mill Road (MD586)	Kemp Mill Road/ Northwest Branch Trail		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
144	206 Randolph Road - west	Rockville Pike (MD355)	Parklawn Drive		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
145	183 Redland Road - east	Needwood Road	Muncaster Mill Road (MD115)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
146	59 Redland Road - west	Shady Grove Metrorail station	Needwood Road		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
147	156 Richter Farm Road	Great Seneca Highway (MD119)	Clopper Road (MD117)		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$0	



Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
148	221 Riffleford Road	Darnestown Road (MD28)	Germantown Road (MD118)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
149	101 River Road (MD190)	DC line	Seneca Road (MD112)	13	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
150	157 Rock Creek Trail-Forest Glen Metro connector	Stoneybrook Road	Seminary Road		MCDOT, Montgomery County, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
151	138 Rock Springs Connector	Democracy Boulevard	Tuckerman Lane		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
152	187 Rockville Pike (MD355) - north	Halpine Road	Veirs Mill Road (MD586)/ Norbeck Road (MD28)		City of Rockville, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
153	200 Seneca Road	River Road (MD190)	Darnestown Road (MD28)		MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
154	10 Seven Locks Road	Montrose Road	Bradley Blvd.		MCDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$1,567
155	152 Shady Grove Road - east	Frederick Road (MD355)	Muncaster Mill Road (MD115)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$0
156	170 Shady Grove Road - west	Darnestown Road	Frederick Road (MD355)		MCDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$0
157	209 Silver Spring Green Trail	Silver Spring Metro Station	Sligo Creek Hiker-Biker Trail		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$6,334
158	68 Spencerville Road (MD198) - Fairland	Old Columbia Pike	Prince George's County line	2	MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
159	117 Tilden Lane	Nicholson Lane	Hounds Way		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
160	46 Tuckerman Lane	Old Georgetown Road	Rockville Pike (MD355)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
161	76 Twinbrook Parkway	Frederick Road (MD355)	Veirs Mill Road (MD586)		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
162	88 University Boulevard	Georgia Avenue	Prince George's County Line		MCDOT, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
163	220 Viers Mill Road (MD586) - west	Twinbrook Parkway	Matthew Henson Trail	2	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
164	229 Watkins Mill Road	Frederick Road (MD355)	MidCounty Highway		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
165	81 Wayne Avenue Green Trail	Spring Street	Sligo Creek Trail		MCDOT, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
166	233 West Cedar Lane	Old Georgetown Road	Beach Drive		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$0
167	40 Western Avenue	River Road	Chevy Chase Circle		MCDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
168	185 Westlake Drive	Westlake Terrace	Tuckerman Lane		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$0
169	230 Westlake Terrace/Fernwood Road/Green Tree Road	Rockledge Drive	Old Georgetown Road		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
170	84 Willard Avenue Bike Lanes	Willard Avenue Park	Wisconsin Avenue		MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
171	121 Wilson Lane (MD188) - west	MacArthur Boulevard	Elmore Lane	2	MCDOT, MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
172	260	Wisconsin Avenue Path	Bradley Lane		Oliver Lane	MCDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$0
173	83	Woodmont Avenue	Bethesda Avenue		Battery Lane	MCDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	\$0

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Key to Codes

B=Bridge or Tunnel C = Complete F = Fully Funded I = Intersection Improvement O = Other P = Partially Funded  
 PK = Bicycle Parking R = Bicycle Route Marking S = Streetscape U = Unfunded UC = Under Construction

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
174	188 Addison Road	MD 214	Walker Mill Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,343
175	581 Adelphi Road Sidewalks and Bike Lanes	MD 193	MD 410	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,400
176	77 Allentown Road	MD 5	Old Fort Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	
177	111 Anacostia River Trail	Bladensburg Marina	Wash. D.C. line		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$500
178	247 Auth Road	MD 337 (Allentown Road)	MD 5 (Branch Avenue)		Prince Georges County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	\$450
179	594 Auth Road Sidewalks and Bike Lanes	MD 337	Auth Way	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,000
180	155 Bock Road	Livingston Road	Tucker Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
181	133 Brinkley Road	Allentown Road	St. Barnabas road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
182	53 Cabin Branch Trail	MD 214	Cheverly Metro		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$260
183	108 Cabin Branch Trail	Presidential Corporate Center	Western Branch		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,350
184	588 Charles Branch Trail	Rosaryville Creek	Western Branch	0	M-NCPPC, Prince Georges County, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$4,000
185	124 Chesapeake Beach Rail-Trail	Capital Beltway	Upper Marlboro		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,080
186	135 Chesapeake Beach Rail-Trail	MD 704	Addison Road Metro		M-NCPPC, Prince Georges County, City of Seat Pleasant	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$200
187	125 Chesapeake Beach Rail-Trail	MD 214	Capital Beltway		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$650
188	573 Chestnut Avenue/Highbridge Road Sidepath	MD 450	MD 564	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,512

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLR	In TIP	Status	Cost
189	5 Collington Branch Trail	MD 214	Upper Marlboro		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$2,000
190	23 East Coast Greenway American Discovery Trail	Washington D.C.	Anne Arundel County		MDOT, M-NCPPC, Prince Georges County	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
191	55 Folly Branch Trail	Bald Hill Branch	Glenwood Park Neighborhood Park		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,000
192	218 Fort Foote Road	Oxon Hill Road (north)	Oxon Hill Road (south)		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
193	163 Fort Washington Road	MD 210	Fort Washington National Park		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
194	168 Good Luck Road	MD 193	MD 201		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
195	569 Gunpowder Road Sidepath and Bike Lanes	MD 212	MD 198	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$2,000
196	52 Henson Creek Trail extension	Brinkley Road	Branch Avenue Metro		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$1,367
197	580 Iverson Street Sidewalks and Bike Lanes	MD 5	Iverson Place	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$700
198	582 Jamestown Road Sidewalks and Bike Lanes	MD 500	Ager Road	0	Prince Georges County, M-NCPPC	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,000
199	571 Jericho Park Road Sidepath and Bike Lanes	MD 197	Race Track Road	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$385
200	587 Little Paint Branch Trail Extension	Cherry Hill Road	Sellman Road	0	M-NCPPC, Prince Georges County, DPW&T	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$5,000
201	6 Livingston Road	Oxon Hill Road	MD 210		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	
202	109 MD 193	MD 564	Montgomery Co. line		MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
203	592 MD 197 Sidepath	MD 198	Rockledge Drive	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$18,000
204	589 MD 223 Sidepath	MD 4	Livingston Road	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$15,000
205	590 MD 4 Sidepath	I-495	Southern Avenue	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$4,000

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLR	In TIP	Status	Cost
206	570 MD 450 Sidepath and/or wide sidewalks	Seabrook Road	US 1	0	MDOT, SHA	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$3,000
207	116 MD 564 Sidepath and Bike Lanes	MD 197	MD 450		Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$4,000
208	578 MD 564 Sidepath and Bike Lanes	MD 197	MD 450	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$10,000
209	591 MD 704 Sidepath and Bike Lanes	MD 450	Eastern Avenue	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$60,000
210	574 Mitchellville Road Sidepath	Mt. Oak Road	US 301	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$768
211	577 Old Chapel Road Sidewalk and Bikeway	MD 197	Race Track Road	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$2,000
212	235 Old Fort Road	MD 210	Fort Washington Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
213	51 Oxon Hill Road	MD 210	Livingston Road		Prince Georges County, DPW&T	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$0
214	139 Oxon Hill Road (MD 414)	MD 210	St. Barnabas Road		MDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$350
215	586 Oxon Run Trail	Southern Avenue	Naylor Road	0	M-NCPPC, Prince Georges County, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,100
216	78 Piscataway Creek Trail	Dower House Branch near Chellenham	Potomac River		M-NCPPC, Prince Georges County, National Park Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$2,300
217	115 Potomac Heritage On-Road Bicycle Route	Oxon Cove Park	Piscataway		Prince Georges County, DPW&T	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0
218	198 Prince George's Connector	Chillum Road	Gallatin Street		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	\$400
219	585 Princess Garden Parkway Sidewalks and Bike Lanes	MD 450	Good Luck Road	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$700
220	579 Prospect Hill Sidewalks and Bike Lanes	Hillmeade Road	MD 953	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$800
221	583 Queens Chapel Road Sidewalks and Bike Lanes	MD 410	Eastern Avenue	0	MDOT, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$5,000
222	572 Race Track Road Sidepath and Bike Lanes	MD 450	MD 197	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,900

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
223	593 Ritchie Branch Trail	Marlboro Pike	Walker Mill Road	0	M-NCPPC, Prince Georges County, M-NCPPC	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,000	
224	186 Ritchie Marlboro Road	Old Marlboro Pike	Capital Beltway		Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,100	
225	575 Silver Hill Road Sidewalks and Bike Lanes	MD 5	Walker Mill Road	0	MDOT, DPW&T	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,680	
226	576 St. Barnabas Road Sidewalks and Bike Lanes	Silver Hill Road	Livingston Road	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,500	
227	54 Suitland Parkway Trail	Washington D.C.	MD 4	6	National Park Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
228	21 Temple Hills Road	Saint Barnabas Road	Piscataway Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
229	213 Tinkers Creek Trail	MD 5	Piscataway Creek		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,600	
230	253 Tucker Road	Saint Barnabas Road	Allentown Road		Prince Georges County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
231	100 US 1	Sunnyside Avenue	Contee Road		MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$1,000	
232	118 US 1 (College Park)	Sunnyside Avenue	Albion Road		MDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0	
233	201 WB&A Spur Trail	WB&A Trail	Fran Uhler Natural Area		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
234	249 Western Branch Trail	Lottsford Road	Upper Marlboro		M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$3,100	
235	584 Whitfield Chapel Road Sidewalks and Bike Lanes	MD 704	MD 450	0	Prince Georges County, M-NCPPC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$800	
236	196 Woodrow Wilson Bridge	Oxon Hill Road	Virginia		M-NCPPC, Prince Georges County, MDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$0

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/ Area	In CLRP	In TIP	Status	Cost
237	553 Rhode Island Avenue Trolley Trail Extension	College Park	Armentrout Drive	0	M-NCPPC, Prince Georges County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$1,500

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
238	559 Accessible Pedestrian Signals	Citywide project		0	City of Rockville	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$750	
239	24 Bicycle Route System Improvements	Citywide project			City of Rockville	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$1,057	
240	167 Millennium Trail South - Wootton Parkway	W. Edmonston Dr	Veirs Mill Rd	1	City of Rockville, Maryland State Highway Administration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$905	
241	161 Ped/Bike Bridge Over I-270 along MD 28	Adclare Rd and Nelson Street	Darnestown Road	2	City of Rockville, Maryland State Highway Administration	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input type="checkbox"/>	C	\$4,714
242	216 Pedestrian Safety	Citywide project			City of Rockville	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$1,670	
243	560 Rockville Intermodal Access - Baltimore Road	Rockville Town Center	City limit	0	City of Rockville	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$4,000	
244	143 Sidewalks	Citywide project			City of Rockville	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$1,337	



Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
245	50 Carroll Avenue Bike Lanes	DC Line	Piney Branch Road		MDOT, Takoma Park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$0

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246	546 Emmitsburg Greenway Trail	Emmitsburg	Emmitsburg	0	Frederick County, Town of Emmitsburg	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,500

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247	609 Arlington Blvd. Irving St. HSIP	Arlington Boulevard	Irving Street		Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$473
248	610 Arlington Blvd. Park Drive HSIP	Arlington Boulevard	Park Drive		Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$495
249	601 Arlington Blvd. Trail improvements	Pershing Drive	Washington Blvd.	1	Arlington County, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$800
250	123 Arlington Boulevard Ped and Bike Trail	N. Meade Street /Arl. Blvd. Bridge	Service Rd		Arlington County, Arlington County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	P	\$120
251	599 Army Navy Drive/Joyce St. bike facilities	S. Joyce Street	12th Street South	1	Arlington County, FHWA, VDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,000
252	611 Arterial Street Safety improvements				Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	F	\$800
253	48 Bike Lane Implementation			8	Arlington County	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	UC	\$120
254	618 Capital Bikeshare - Arlington				Arlington County, DDOT	<input type="checkbox"/>	<input type="checkbox"/>	O	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
255	604 Carlin Springs Rd. bridge replacement	Carlin Springs Rd.	North George Mason Drive	0	Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input type="checkbox"/>	F	\$550
256	608 Columbia Pike Complete Streets	Frederick St.	Fairfax County Line	3	Arlington County	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$2,000
257	612 Complete Streets (R-B corridor)				Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	F	\$300
258	383 CUSTIS TRAIL WESTOVER UNDERPASS @ I-66				Arlington County	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	C	\$75
259	605 Doctor's Run Trail	South Quincy Street	South George Mason Drive	0	Arlington County	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	U	\$500
260	313 General Trail Improvements			0	Arlington County	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	UC	\$130
261	514 Glebe Road Bridge Replacement	500' south of Route 50	500' north of route 50	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	F	\$1,950
262	518 Glebe Road Pedestrian Crossings	Fairfax Drive	North Carlin Springs Road	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$2,780
263	19 Hoffman - Boston Connector	S. Queen St.	Army Navy Country Club (Private Drive)	0	Arlington County	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,000
264	311 I-395 Shirlington Underpass, Four Mile Run Trail	Shirlington Rd	West Glebe Rd	0	Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	C	\$2,000
265	602 Kirkwood Rd. sidewalks	Lee Highway	14th Street North	1	Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$400
266	598 Long Bridge Park Esplanade Bridge	Boundary Drive	GW Parkway	0	Arlington County, FHWA, VDOT, NPS	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input type="checkbox"/>	U	\$2,000

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
267	607 Old Dominion Drive Complete Streets	N. Glebe Rd.	Fairfax Co. line	1	Arlington County, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$2,000
268	310 Old Dominion Drive Complete Streets (phase I)	Lee Highway	N. Glebe Rd.	0	Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	C	\$1,000
269	219 Old Jefferson Davis Highway/ Mount Vernon Trail CO				National Park Service	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		
270	147 Potomac Yard/Four Mile Run Trail				Arlington County	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	U	\$350
271	606 Priority Bus Stop improvements				Arlington County, WMATA	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$450
272	110 Route 110 Trail	Memorial Dr	Pentagon North Parking Lot	1	Arlington County, National Park Service	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	P	\$504
273	603 Shirlington Rd. bridge replacement	Shirlington Rd.	Four Mile Run		Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,000
274	384 Sidewalk Projects				Arlington County, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$1,000
275	179 VA 120 (Glebe Road)	N. Randolph Street	Fairfax Drive		Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$1,000
276	65 VA 120 (S Glebe Road)	@ 27th Street	@ Ramp from I-395 to West Glebe Road		Arlington County	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$100
277	315 Washington Blvd Trail Phase I	Arlington Blvd	Walter Reed	0	Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	C	\$350
278	600 Washington Blvd. Trail (phase II)	S. 2nd Street	Columbia Pike	1	Arlington County, FHWA, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$1,400

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279	27 Rosslyn Circle Crossing	N. Lynn St	Ft. Myer Dr	0	Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	\$1,000

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280	192 Mount Vernon Trail Extension	Beltway	Theodore Roosevelt Island		National Park Service, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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281	564 Bicycle Parking/Sharing/Racks-on-Buses	various	various	0	City of Alexandria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P	\$2,300
282	129 Duke Street Pedestrian Bridge	Cameron Station	Ben Brennman Park	1	City of Alexandria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$750
283	80 Duke Street Pedestrian Improvements	Duke Street	Carlyle Avenue	1	City of Alexandria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$195
284	561 Eisenhower Ave Complete Street	Stovall	Holland	0	City of Alexandria, VDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$14,000
285	34 Eisenhower Multi-Use Trail	Cameron Run East	Telegraph Road	2	City of Alexandria	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$1,600
286	98 Holmes Run Greenway Tunnels/Grade Separation	N Chambliss	N Ripley	1	City of Alexandria	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$7,000
287	37 I-95/I-495 Woodrow Wilson Memorial Bridge - Trail	Prince George's County, MD	Mount Vernon Trail, Alexandria	2	City of Alexandria	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$24,400
288	217 King Street/Beauregard Intersection	Beauregard/Walter Reed Dr.	28th Street	1	City of Alexandria, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$11,000
289	565 Old Cameron Run Channel Trail	Mill Road	South Payne Street	0	City of Alexandria	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$1,000
290	563 On-Street Bikeways	various	various	0	City of Alexandria	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P	\$2,500
291	130 Pedestrian Improvements on Mount Vernon	Glebe Road	Four Mile Run	0	City of Alexandria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	F	\$500
292	26 Potomac Yard Park/Landbay K	Braddock Road Metro	Four Mile Run	2	City of Alexandria, VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$9,000
293	562 Safe Routes to School	citywide	citywide	0	City of Alexandria, VDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$4,300
294	99 Sidewalk/Trail Construction- Holmes Run/Chambliss	Citywide	Citywide	1	City of Alexandria, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$750
295	64 Transit Facilities Pedestrian Improvements	citywide	citywide	6	City of Alexandria, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$750
296	131 Wilkes Street Tunnel	South Royal	South Union	0	City of Alexandria	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$770

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297	566 Four Mile Run Pedestrian and Bicycle Bridge	S Eads	Commonwealth Ave	0	Arlington County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$6,000

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298	71 Woodrow Wilson Bridge Project	Md State Line	Telegraph Road	2	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	B	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC 2,500,000

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299	58 Accotink Gateway Connector Trail	Daniel's Run	Pickett Road	1	VDOT, City of Fairfax	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$1,762	
300	521 Route 29 Spot Improvements			0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$6,677	
301	175 US 29 (Lee Highway) Fairfax Circle	@ US 50			VDOT, City of Fairfax	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$11,586

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302	262 Old Town Manassas City Square, Walkways, & Crosswa	Phase I and Phase II			VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$557

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303	63 Manassas Drive Sidewalk	Andrew Drive	Euclid Avenue		VDOT, City of Manassas Park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$195

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304	8 Bicycle Parking (M-70A)	District-wide			VDOT	<input type="checkbox"/>	<input type="checkbox"/>	PK	<input type="checkbox"/>	<input type="checkbox"/>	C	
305	180 Interstate Bicycle Route 1				VDOT	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		\$0
306	225 NOVA signal Program	District-wide			VDOT	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	\$9,000

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307	103 Accotink Gateway Connector Trail	King Arthur Drive	Wakefield Park	1	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$2,619
308	264 Accotink Stream Valley Trail - Dam to Hunter Villa	Lake Accotink Park	Hunter Village Drive	0	Fairfax County Park Authority	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$400
309	267 Arlington Boulevard	Graham Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	F	
310	386 Arlington Boulevard	Patrick Henry Drive		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	C	
311	387 Arlington Boulevard Pedestrian Bridge	Peyton Randolph Drive	Seven Corners Shopping Center	0	Fairfax County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	C	\$5,200
312	166 Beulah Street	Franconia Road	Franocia-Springfield Parkway	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$15,094
313	391 Braddock Road	Rolling Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	F	
314	389 Braddock Road	Guinea Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	F	
315	392 Braddock Road	Wakefield Chapel Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	F	
316	191 Burke Lake Road Widening	Fairfax County Parkway	Lee Chapel Road	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$7,000
317	395 Centreville Road	Green Trails Boulevard		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	C	
318	396 Centreville Road	New Braddock Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	
319	397 Centreville Road	Sunrise Valley Drive		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	C	
320	394 Centreville Road	Compton Road		0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	C	
321	557 Clarks Branch Bridge at Riverbend Park	Clarks Branch		0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	B	<input type="checkbox"/>	C	\$500
322	402 Columbia Pike	Powell Lane	Homes Run	0	Fairfax County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	C	\$1,106
323	403 Cross County Trail			0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
324	30 Cross County Trail	Great Falls Park to Alban Road	Lake Accotink Dam to Hunter Village Drive segment	5	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$1,060
325	404 Cub Run Valley Stream Connections	Samuels Pine Rd	Cub Run Rec Center / Schneider's Branch	0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$625
326	405 Danbury Forest	Lake Accotink Park	Danbury Forest Dr	0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$376
327	407 Dolley Madison Boulevard	Great Falls Street/Lewinsville Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	C	

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLR	In TIP	Status	Cost	
328	176 Fairfax County Parkway	123	7	10	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$122,000	
329	408 Fairfax County Parkway	Old Keene Mill Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
330	595 Fairfax County Pedestrian Program			0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	\$58,000
331	516 Gallows Road On Road Bicycle Facility	Lee hwy	Old Courthouse Road	0	VDOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$1,099	
332	304 Georgetown Pike Multi-Use Path	I-495	Route 7	2	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$845	
333	49 Great Falls Street Trail	Crutchfeild Street	Hutchinson Street		Fairfax County, VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$596	
334	421 Holmes Run Stream Valley	Columbia Pike	Glenn Hills Park / Alexandria	0	Fairfax County Park Authority	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$1,268	
335	18 Huntington Metro Station Vicinity	Pedestrian Improvements			VDOT, Coalition for Smarter Growth	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$174
336	548 I-495 HOT Lanes	I-95	MD State Line	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	1,647,493	
337	632 Lawyers Road	Reston Parkway	Myrtle Lane	0	VDOT, Reston	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	\$5	
338	428 Lee Highway	Monument Drive		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C		
339	439 Leesburg Pike	Magarity Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
340	442 Leesburg Pike	South Jefferson Street		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
341	443 Leesburg Pike	Tyco Road/Westwood Center Drive		0	Fairfax County, WMATA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F		
342	444 Leesburg Pike	Tysons Square Center Entrance		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	
343	445 Lewinsville Road	Balls Hill Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
344	449 Little River Turnpike	Oasis Drive	Beauregard	0	VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$933
345	448 Little River Turnpike	Braddock Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
346	255 Lorton Road Widening	US 1	Route 748	1	VDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$9,000	
347	455 North Kings Highway	Huntington Metro		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	
348	193 NoVi (Northern Vienna) Trail	Phase I			VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$303	
349	460 Old Keene Mill Road	Shiplott Boulevard		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
350	461 Old Keene Mill Road	Sydenstricker Road		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/ Area	In CLR	In TIP	Status	Cost	
351	554 Pohick Stream Valley CCT reroute	Dominion Powerline Easement	Forest View	0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$650	
352	555 Pohick VRE Trail	Burke Station VRE	Burke Village Shopping Center	1	Fairfax County Park Authority, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	U	\$1,270	
353	484 Richmond Highway	Old Mill Road/Mt. Vernon Memorial Highway		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	C	
354	479 Richmond Highway Pedestrian Safety Improvements	Ladson Ln, Lukens Ln, Backlick Rd, Kings,	Belford Drive S., Frye Road, Mohawk Lane	0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	P	
355	280 Roberts Road	Braddock Road	Shenandoah Lane	0.3	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P		
356	214 Route 1 widening	Telegraph Road	Lorton Road	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$23,326	
357	524 Route 29 Bridge Replacement over Rocky Run			0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$15,000	
358	527 Route 50 Intersection Improvements @ Patrick Henry			0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	\$786	
359	105 Route 7 Widening	Rolling Holly Drive	Tyco Road	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$37,263	
360	556 Spring Hill Rec Center Connector	Spring Hill Recreation Center	Spring Hill Farm HOA	0	Fairfax County Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		\$120	
361	284 Stringfellow Road	Fair Lakes Boulevard	Route 50	2	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$46,000	
362	285 Sunset Hills Road	Plaza America		0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
363	515 Telegraph Road Widening	Leaf Road	South Kings Hwy	0	VDOT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$97,000	
364	199 Trail and Pedestrian Improvements	Fairfax County wide			VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$1,600
365	290 Trap Road	Wolf Trap Farm Park	Beulah Road	1	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$2,242	
366	177 Tysons Corner	Pedestrian Improvements Identified by	the HJR 276 Committee		VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$123
367	292 Tysons Priority Access Improvement Projects			0	Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
368	305 US 29 Widening	WEST MERRILEE DRIVE	ROUTE I-495	1	VDOT, Fairfax	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$119,000	
369	137 US 50 install median barrier & fence	VA 7	Patrick Henry Drive	0	VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$601
370	256 US 50 Pedestrian Bridge	Vicinity of the Seven Corners Shopping Center			VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$5,353



Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
371	85 US 50 Pedestrian Improvements	Jaguar Trail	Seven Corners		VDOT, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$3,000
372	189 VA 193 - Georgetown Pike Trail	Innsbruck Road	River Bend Road	4	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$1,468
373	14 Walker Road Trail	Columbine Street	Colvin Run Road	2	VDOT, Fairfax County	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$447
374	239 West Ox Road (route 608)	Ox Trail Road	Lawyers Road	2	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$11,300

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
375	60 Sugarland Run Trail	W&OD Trail	Fairfax County's Sugarland Run Trail	1	VDOT, Town of Herndon	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$531

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLR	In TIP	Status	Cost	
376	528 Atlantic Blvd	Church Road (Rt. 625)	Magnolia Road (Rt. 1525)	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$24,000	
377	269 BATTLEFIELD PARKWAY - 4 LANES ON 6 LANE R/W	KINCAID BOULEVARD	ROUTE 7	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$30,000	
378	519 Clarks Gap Ped Signals			0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$1,500	
379	270 Loudoun Cnty Pkwy WIDEN UNPVD 2 LN TO 4 LNS DIV ON	1.9 MILES SOUTH ROUTE	0.5 MILE SOUTH ROUTE 7	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$12,000	
380	309 Old Ox Road Widening (Rt. 606)	Mills Road (Rt. 621)	Dulles Greenway (Rt. 267)	5	VDOT,	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$49,450	
381	271 PACIFIC BOULEVARD (MPO PROJECT	AUTOWORLD DRIVE (NORTHERN TERMINUS	SEVERN WAY	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$10,000	
382	526 Route 7 Sidewalk	NORTH SIDE OF WEST MAIN STREET; NORTH 28TH STREET;	NORTH 33RD STREET	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$845	
383	224 VA 846 (Sterling Boulevard Landscaping)	VA 28	US 7		VDOT, Loudoun County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$53
384	259 W&OD Trail Extension	W&OD Trail End (Purcellville)	Round Hill	3	VDOT, Loudoun County	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$1,700	
385	69 W&OD/White's Ferry Connection to C&O	W&OD	Potomac River at White's Ferry		VDOT, Northern Virginia Regional Park	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/ Area	In CLRP	In TIP	Status	Cost
386	16 US 50 widening	Pleasant valley Drive	Lee Road	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$48,247

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
387	211 123 Widening	Davis Road	South Burke Lake Road	9	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	C	\$6,181

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
388	308 234 Off-Road Multi Use Trail	Lake Jackson Drive	PW Parkway	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$662	
389	525 Balls Ford Road Widening	Bus 234	234	0	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P		
390	306 Bus 234 Add Signalized Crosswalks	All Major Intersections	All Major Intersections		VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input type="checkbox"/>	<input type="checkbox"/>	F	\$650
391	307 Bus 234 Sidewalk/Ramps Improvments	Balls Ford Road	Godwin Drive		VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	I	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$515
392	171 Linton Hall Road Widening	Glenkirk Road	Devlin Road	3	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	UC	\$8,000	
393	523 Old Bridge Road Sidewalk	Mohican	Oakwood Drive	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	UC	\$749	
394	522 Old Bridge Road Sidewalk	Titania	Crickett	0	VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	F	\$1,672	
395	517 Route 234 and Rotue 1 Interchange	.4 miles east of route 1	.4 Miles west of Route 1	0	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$87,000	
396	164 Route 28 Trail Extension	Fauquier Co. Line	Vint Hill Road	7	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$6,500	
397	102 VA 234 Bike Trail	US 1 to I-95 &	Montclair to vic. Manassas	9	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	U	\$1,161	

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
398	226 Multiple Sidewalk Enhancements	Purcellville			VDOT	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	F	\$500
399	254 PURCELLVILLE - BICYCLE ACCESS TO HIGH SCHOOL & W&O	Main Street	W&OD Trail	1	VDOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	F	\$460

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
400	248 Pedestrian/Bicycle Plaza & Pathways	Town of Clifton	- Phase II		VDOT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$70

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
401	11 Main Street	Town of Hamilton (Improvements)			VDOT, Town of Hamilton	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$47

Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
402	210 Town of Haymarket (Streetscaping)	Phase 1			VDOT, Town of Haymarket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	C	\$1,008
403	4 Town of Haymarket Streetscaping	Washington Street	Phase II		VDOT, Town of Haymarket	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	F	\$2,026

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
404	549 Folly Lick Trail Connection	North of Herndon Pkwy at existing Folly Lick Trail	Future Herndon Monroe Metrorail station	0	Town of Herndon, Fairfax County	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	P	\$2,000
405	550 W&OD Trail Crossing/Crestview Drive Overpass	W&OD Trail at Crestview Drive	W&OD Trail at Crestview Drive	0	Town of Herndon, Northern Virginia Regional Park Authority	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	P	\$1,125

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost
406	70 PEDESTRIAN STUDY & IMPROVEMENTS	Town of Hillsboro	On 704		VDOT	<input type="checkbox"/>	<input type="checkbox"/>	S	<input type="checkbox"/>	<input type="checkbox"/>	P	\$15,348

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
407	184 Ped & Bike Path Network	Town of Lovettsville		6	VDOT, Town of Lovettsville	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	P	\$450

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Project ID	Project/Facility Name	From	To	Length (Miles)	Responsible Agencies	Bike Path	Side walk	Spot/Area	In CLRP	In TIP	Status	Cost	
408	227 Potomac Avenue	CSX Railroad	Potomac River		VDOT, Town of Quantico	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$871
409	61 Potomac Transportation Facility	AMTRAK / VRE Station	Potomac River		VDOT, Town of Quantico	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	C	\$512

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## Appendix B

### Data Dictionary and Sample Database Entry Form

For the Regional Database of Bicycle and Pedestrian Projects in the Long-Range  
Bicycle and Pedestrian Plan for the National Capital Region

FIELD	EXPLANATION
COG Project ID	COG's internal identifying number for the project in this database
Agency Project ID	The responsible agency's project identifying number
Project Name	Descriptive name provided by the sponsoring agency
From	Project Limits
To	Project Limits
Length of Project	Length of the project from start to finish. Example: if a project consists of four miles of road with a continuous bike lane and sidewalk, the project length is four miles.
Jurisdiction(s)	Jurisdiction(s) in which the project is located
State	State or States in which the project is located.
Agency	Lead agency that is responsible for implementing the project
Secondary Agency	Other agency involved in the project
Cost	In thousands of dollars. As many projects in the plan may not be built for many years, and have not been fully scoped, this can be a very rough estimate. If a project is part of a larger project the total project cost is <i>not</i> listed, only that portion of the cost which is attributable to the bicycle or pedestrian facility. Use of a rule of thumb for such estimates was acceptable, i.e. 3% of total project cost. Many projects do not have a cost estimate available.
URL for more project information	If the project has a web site, or if the agency has more detail on its web site, the URL may be listed.
Project Manager Name	If the project has a project manager, his or her name may be listed.
Project Manager's Phone	
Project Manager's E-mail	
Project is in the CLRP	Project is in the Financially Constrained Long-Range Transportation Plan for the National Capital Region, and therefore is officially considered to have funding available to support project completion.
Project is in the TIP	Project is in the most recent National Capital Region Transportation Improvement Program with specific funding amounts identified for program completion.

Project is Part of a Larger Project	Is the project part of a larger project, i.e. a highway, bridge, or transit project?																
Length of Bike Lane	Bike lanes are striped lanes at least 4' wide in the public right-of-way, marked for the exclusive use of bicyclists. If a bike lane is found on both sides of the street for four miles, it should be reported as four miles of bike lane, not eight.																
Length of Multi-Use Path	A paved or hard-surface path separated from traffic, officially designated for bicycles and other non-motorized users. Should be at least 8' wide.																
Length of Sidewalk	Sidewalks are usually concrete, less than 8' wide, and have other design characteristics (street furniture, limited sight-lines) that render them unsuitable for all but the slowest bicyclists.																
Type of Spot/Area Improvement	For non-linear projects. The pull-down menu gives the following options: <table border="0" style="margin-left: 40px;"> <thead> <tr> <th style="text-align: left;"><u>Type of Improvement</u></th> <th style="text-align: left;"><u>Code Letter</u></th> </tr> </thead> <tbody> <tr> <td>1. Pedestrian Intersection Improvement</td> <td>I</td> </tr> <tr> <td>2. Pedestrian/Bicycle Bridge or Tunnel</td> <td>B</td> </tr> <tr> <td>3. Traffic Calming</td> <td>TC</td> </tr> <tr> <td>4. Streetscape/Pedestrian Improvements</td> <td>S</td> </tr> <tr> <td>5. Bicycle Parking</td> <td>P</td> </tr> <tr> <td>6. Bicycle Route Marking</td> <td>BR</td> </tr> <tr> <td>7. Other</td> <td>O</td> </tr> </tbody> </table>	<u>Type of Improvement</u>	<u>Code Letter</u>	1. Pedestrian Intersection Improvement	I	2. Pedestrian/Bicycle Bridge or Tunnel	B	3. Traffic Calming	TC	4. Streetscape/Pedestrian Improvements	S	5. Bicycle Parking	P	6. Bicycle Route Marking	BR	7. Other	O
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4. Streetscape/Pedestrian Improvements	S																
5. Bicycle Parking	P																
6. Bicycle Route Marking	BR																
7. Other	O																
Path Alignment	Is the multi-use path along a road, or is it on its own right-of-way? This field is meant to distinguish between side-paths, which are built adjacent to a road and cross numerous driveways and intersections, and a multi-use path on its own right of way, such as an old railroad, canal tow-path, or stream valley. Paths built along limited-access highways and parkways such as the Mount Vernon Trail should be listed as being built on an independent route, since they have few intersection or driveway conflicts, and are set back some distance from the roadway for most of their length.																
Status	The pull-down menu offers the following options: <table border="0" style="margin-left: 40px;"> <thead> <tr> <th></th> <th style="text-align: left;"><u>Code Letter</u></th> </tr> </thead> <tbody> <tr> <td>1. Fully Funded<sup>1</sup></td> <td>F</td> </tr> <tr> <td>2. Partially Funded</td> <td>P</td> </tr> <tr> <td>3. Unfunded</td> <td>U</td> </tr> <tr> <td>4. Under Construction</td> <td>UC</td> </tr> <tr> <td>5. Complete</td> <td>C</td> </tr> </tbody> </table>		<u>Code Letter</u>	1. Fully Funded <sup>1</sup>	F	2. Partially Funded	P	3. Unfunded	U	4. Under Construction	UC	5. Complete	C				
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2. Partially Funded	P																
3. Unfunded	U																
4. Under Construction	UC																
5. Complete	C																

<sup>1</sup> "Funded" indicates that the sponsoring agency has considered funding for completion of this project to be reasonably available within projected funding sources. "Unfunded" indicates, that while the project has been identified, there is no projected funding to support its completion at this time.



	This database is meant to list planned facilities rather than existing facilities, but since 2006 many of the projects in the plan have been completed.
Year of Completion or Implementation	If the project has been completed or implemented, in what year did that happen?
Project Within a Regional Activity Center	Is the project located with in a regional activity center or cluster? See the link for on-line information on activity centers and clusters. A paper map of centers and clusters, which is easier to read than the one on the web, will be sent to anyone who requests one.
Project is Between Regional Activity Centers	Project connects one regional activity center or cluster with another
Maintenance	Project is primarily maintenance or reconstruction of an existing facility
Project Connects to a Transit Facility	Project connects to a metrorail station, commuter rail station, or transit center
BikeNetConnect	Bicycle Network Connectivity. Does the project improve the connectivity of the regional bicycle network? Does it connect to any existing bicycle facilities?
Pedestrian Safety Project	Is the primary purpose of this project to improve pedestrian safety?
Project Identified as a Regional Priority*	Is the project one of the regional priority unfunded bicycle and pedestrian projects recommended by the Transportation Planning Board for consideration in the TIP?



# Transportation Planning Board

## National Capital Region Bicycle and Pedestrian Plan

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### Bike Ped Plan

Related Records: [Agency](#)

<b>COG Project ID</b>	167967369
<b>Agency Project ID</b>	
<b>Project Name</b>	Metropolitan Branch Trail
<b>From</b>	Union Station
<b>To</b>	Takoma Park
<b>Length of Project</b>	<input type="text" value="7"/> (miles)
<b>Description</b>	Construct a 7 mile trail along the red line from U 
<b>Jurisdiction (s)</b>	Washington
<b>State</b>	<input type="text" value="DC"/>
<b>Agency</b>	<input type="text" value="DDOT"/>
<b>Secondary Agency</b>	

<b>Cost</b>	\$ <input type="text" value="20000"/> (In Thousands)
<b>URL for More Project Information</b>	<input type="text" value="www.metbranchtrail.com"/>
<b>Project Manager's Name</b>	<input type="text" value="Chris Holben"/>
<b>Project Manager's Phone</b>	<input type="text" value="202 671 2638"/>
<b>Project Manager's Email</b>	<input type="text" value="chris.holben@dc.gov"/>
<b>Project Is In the CLRP</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Corresponding CLRP Project ID</b>	<input type="text"/>
<b>Project Is In the TIP</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Corresponding TIP Project ID</b>	<input type="text"/>
<b>Project Is Part of a Larger Project</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<b>Length of Bike Lane</b>	<input type="text" value="2"/> (miles)
<b>Length of Multi-Use Path</b>	<input type="text" value="5"/> (miles)
<b>Length of Sidewalk</b>	<input type="text"/> (miles)
<b>Type of Spot/Area Improvement</b>	<input type="text"/>

nt	
Path Alignment	<input type="text"/>
Status	Partially Funded <input type="text"/>
Year of Completion or Implementation	2009 <input type="text"/>
Project Within a Regional Activity Center	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <a href="#">Information on Regional Activity Centers</a>
Project Is Between Regional Activity Centers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Maintenance	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Project Connects To a Transit Facility	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
BikeNetConnect	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pedestrian Safety Project	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Project Is In Local Plan	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Project Identified as a 2005 Regional Priority	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Comments

Record  
Last  
Modified  
On



## **Appendix C**

Completed Projects from the 2006 Bicycle and Pedestrian  
Plan

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COGProjectID	AgencyID	Project Name	From	To	Description	Jurisdiction	State	Agency
310	TAOD	Old Dominion Drive Complete Streets (phas	Lee Highway	N. Glebe Rd.	CONSTRUCT CURB & G	Arlington County	VA	Arlington County
311	BK39	I-395 Shirlington Underpass, Four Mile Run	Shirlington R	West Glebe P	Construction of a new trail	Arlington County	VA	Arlington County
315	BK88	Washington Blvd Trail Phase I	Arlington Blv	Walter Reed	CONSTRUCT BIKE TRAIL	Arlington County	VA	Arlington County
383	BK59	CUSTIS TRAIL WESTOVER UNDERPASS @ I-66			REALIGN BIKE TRAIL AN	Arlington County	VA	Arlington County
37	i	I-95/I-495 Woodrow Wilson Memorial Bridge	Prince Geor	Mount Verno	Trail Crossing along the W	City of Alexandria	VA	City of Alexandria
80	b	Duke Street Pedestrian Improvements	Duke Street	Carlyle Avenu	Intersection and sidewalk i	City of Alexandria	VA	City of Alexandria
131	l	Wilkes Street Tunnel	South Royal	South Union	Tunnel serves as ped-bike	City of Alexandria	VA	City of Alexandria
385		College Park Trolley Trail	Paducah Ro	Albion Road	Phase 1 - Is a completed,	City of College Park	MD	City of College Park
24	9C61	Bicycle Route System Improvements	Citywide project		This project funds the impl	Rockville	MD	City of Rockville
161	3E60	Ped/Bike Bridge Over I-270 along MD 28	Adclare Rd a	Darnestown I	This project funds pedestri	Rockville	MD	City of Rockville
167	3C60	Millennium Trail South - Wootton Parkway	W. Edmonst	Veirs Mill Rd	This project funds a one-n	Rockville	MD	City of Rockville
75	ZU0	Union Station Bike Station	(Union Station)		Design and construct a big	Washington	DC	DDOT
181		Watts Branch Trail	Minnesota A	62nd Street,	Linear park along Watts B	Washington	DC	DDOT
49		Great Falls Street Trail	Crutchfeild S	Hutchinson S	Facilitate pedestrian acces	Fairfax County	VA	Fairfax County
386	XL	Arlington Boulevard	Patrick Henry Drive		Intersection improvement,	Fairfax County	VA	Fairfax County
387	XL	Arlington Boulevard Pedestrian Bridge	Peyton Rand	Seven Corne	Pedestrian bridge and tie-i	Fairfax County	VA	Fairfax County
395	XL	Centreville Road	Green Trails Boulevard		Intersection improvements	Fairfax County	VA	Fairfax County
396	XL	Centreville Road	New Braddock Road		Intersection improvements	Fairfax County	VA	Fairfax County
397	XL	Centreville Road	Sunrise Valley Drive		Intersection improvements	Fairfax County	VA	Fairfax County
402	UPC50108	Columbia Pike	Powell Lane	Homes Run	600 linear feet of 8' walkw	Fairfax County	VA	Fairfax County
407	XL	Dolley Madison Boulevard	Great Falls Street/Lewinsv		Intersection improvements	Fairfax County	VA	Fairfax County
408	XL	Fairfax County Parkway	Old Keene Mill Road		Intersection improvements	Fairfax County	VA	Fairfax County
428	XL	Lee Highway	Monument Drive		Intersection improvements	Fairfax County	VA	Fairfax County
439	XL	Leesburg Pike	Magarity Road		Add missing sidewalk alon	Fairfax County	VA	Fairfax County
442	XL	Leesburg Pike	South Jefferson Street		Intersection improvements	Fairfax County	VA	Fairfax County
445	XL	Lewinsville Road	Balls Hill Road		Intersection improvements	Fairfax County	VA	Fairfax County
448	XL	Little River Turnpike	Braddock Road		Intersection improvements	Fairfax County	VA	Fairfax County
460	XL	Old Keene Mill Road	Shiplett Boulevard		Intersection improvements	Fairfax County	VA	Fairfax County
461	XL	Old Keene Mill Road	Sydenstricker Road		Intersection improvements	Fairfax County	VA	Fairfax County
484	XL	Richmond Highway	Old Mill Road/Mt. Vernon M		Intersection improvements	Fairfax County	VA	Fairfax County
264	XL	Accotink Stream Valley Trail - Dam to Hunt	Lake Accotin	Hunter Villag	Build multi-use trail from d	Fairfax County	VA	Fairfax County Park Authority
394	XL	Centreville Road	Compton Road		Intersection improvements	Fairfax County	VA	Fairfax County Park Authority
404	XL	Cub Run Valley Stream Connections	Samuels Pin	Cub Run Rec	Build two connections into	Fairfax County	VA	Fairfax County Park Authority
405	XL	Danbury Forest	Lake Accotin	Danbury Fore	Build multi-use trail and ne	Fairfax County	VA	Fairfax County Park Authority
421	XL	Holmes Run Stream Valley	Columbia Pil	Glenn Hills P	Build multi-use trail & five	Fairfax County	VA	Fairfax County Park Authority
554	XL	Pohick Stream Valley CCT reroute	Dominion Po	Forest View	Provide two new fair-weather	Fairfax County	VA	Fairfax County Park Authority
557	XL	Clarks Branch Bridge at Riverbend Park	Clarks Branch		90' pedestrian/ equestrian	Fairfax County	VA	Fairfax County Park Authority
512		H&F Trolley Trail Phase II	Water Street	Moser Road	This trail would follow the	Frederick County, City of	MD	Frederick County
2		Matthew Henson Trail	Rock Creek	East of Georgia Ave. (Alderton Road)		Montgomery County	MD	MCDOT

136	509976	Forest Glen Pedestrian Bridge	west side of	west side of	This project consists of an	Montgomery County	MD	MCDOT
156	SP-65	Richter Farm Road	Great Senec	Clopper Road	To be built incrementally b	Montgomery County	MD	MCDOT
185	BL-5	Westlake Drive	Westlake Te	Tuckerman L	Provides connections to R	Montgomery County	MD	MCDOT
204	SP-6	Georgetown Branch Trail	Bethesda CE	Silver Spring	Existing, but surface is ten	Montgomery County	MD	MCDOT
205	509587	North Bethesda Trail Bridges	crossings of I-495 and I-27		Construct bicycle/pedestria	Montgomery County	MD	MCDOT
240	SP-68	Father Hurley Boulevard/Ridge Road	Germantown	Brink Road	Provides connection to Ge	Montgomery County	MD	MCDOT
196		Woodrow Wilson Bridge	Oxon Hill Ro	Virginia	This trail was completed in	Prince George's County	MD	M-NCPPC, Prince Georges County
577	23.00	Old Chapel Road Sidewalk and Bikeway	MD 197	Race Track R	This project consists of a s	Prince George's County	MD	Prince Georges County
8		Bicycle Parking (M-70A)	District-wide		M - 70A Implement Bicycle	District-wide	VA	VDOT
18	70736	Huntington Metro Station Vicinity	Pedestrian Improvements		Install pedestrian crossing	Fairfax County	VA	VDOT
30	00063578	Cross County Trail	Great Falls F	Lake Accotin	The Cross County Trail is	Fairfax County	VA	VDOT
58	00016090	Accotink Gateway Connector Trail	Daniel's Run	Pickett Road	Facility for bikes and pede	City of Fairfax	VA	VDOT
60	00052449	Sugarland Run Trail	W&OD Trail	Fairfax Coun	Construct an 8 foot paved	Herndon	VA	VDOT
61	00017600	Potomac Transportation Facility	AMTRAK / V	Potomac Rive	Construct a timber-deck tr	Town of Quantico	VA	VDOT
63	00056456	Manassas Drive Sidewalk	Andrew Drive	Euclid Avenu	Install sidewalk, curb, and	City of Manassas Park	VA	VDOT
137	56780	US 50 install median barrier & fence	VA 7	Patrick Henry	RTE 50 - INSTALL FENCE	Fairfax County	VA	VDOT
166	5554	Beulah Street	Franconia R	Franocia-Spr	This 1.3-mile section of Be	Fairfax County	VA	VDOT
177	70602	Tysons Corner	Pedestrian Ir	the HJR 276	Construct nine improveme	Fairfax County	VA	VDOT
191	5565	Burke Lake Road Widening	Fairfax Cour	Lee Chapel R	The Virginia Department o	Fairfax County	VA	VDOT
210	00016637	Town of Haymarket (Streetscaping)	Phase 1		Town of Haymarket Street	Town of Haymarket	VA	VDOT
211	13532 + 14	123 Widening	Davis Road	South Burke Lake Road		Prince William and Fairfax	VA	VDOT
214	12906	Route 1 widening	Telegraph R	Lorton Road	Multi-use Trail added in the	Fairfax County	VA	VDOT
224	00063583	VA 846 (Sterling Boulevard Landscaping)	VA 28	US 7	Landscape to improve cor	Loudoun County	VA	VDOT
227	00060040	Potomac Avenue	CSX Railroa	Potomac Rive	Landscape, streetscape, e	Town of Quantico	VA	VDOT
239		West Ox Road (route 608)	Ox Trail Roa	Lawyers Roa	Widen West Ox Road from	Fairfax County	VA	VDOT
255	98	Lorton Road Widening	US 1	Route 748		Fairfax County	VA	VDOT
256	56866	US 50 Pedestrian Bridge	Vicinity of the Seven Corne		Construct a pedestrian brid	Fairfax County	VA	VDOT
262	00018782	Old Town Manassas City Square, Walkway	Phase I and Phase II		Construct Old Town pavili	City of Manassas	VA	VDOT
269	18992	BATTLEFIELD PARKWAY - 4 LANES ON	KINCAID BO	ROUTE 7		Loudoun County	VA	VDOT
270	58922	Loudoun Cnty Pkwy WIDEN UNPVD 2 LN	1.9 MILES S	0.5 MILE SOUTH ROUTE 7		Loudoun County	VA	VDOT
290	72295	Trap Road	Wolf Trap Fa	Beulah Road	Feasibility and PE for ped	Fairfax County	VA	VDOT
449	63717	Little River Turnpike	Oasis Drive	Beauregard	Signalize intersection and	Fairfax County	VA	VDOT
519	60864	Clarks Gap Ped Signals				Loudoun County	VA	VDOT
632		Lawyers Road	Reston Park	Myrtle Lane	Road diet, bike lanes	Fairfax County	VA	VDOT
COGProjectID	AgencyID	Project Name	From	To	Description	Jurisdiction	State	Agency

## Appendix D Cordon Counts

Table 2-3  
2002 Metro Core Cordon Count  
Inbound Bicycles and Outbound Bicycles (outbound 1999 and 2002 only)  
1986 - 2002  
6:30 - 9:30 A.M. and 3:30 - 6:30 P.M. (P.M. 1999 and 2002 only)

Locations	1986	1987	1988	1990	1993	1996	1999		2002	
							A.M. inbound	P.M. Outbound	A.M. inbound	P.M. Outbound
D.C. (Sectors 4-9)	474	470	568	771	799	920	1,152	1,025	1,379	1,113
Va. (Sectors 1-3)	N/C	N/C	N/C	N/C	N/C	N/C	409	565	645	425
Totals Crossing Cordon Line	--	--	--	--	--	--	1,561	1,590	2,024	1,538
14th Street Bridge	131	78	107	139	157	211	197	197	300	238
Memorial Bridge	49	124	146	219	120	232	220	104	104	143
T. Roosevelt Bridge	14	13	2	7	25	59	81	62	18	89
Key Bridge	123	92	104	106	64	86	124	93	103	92
Totals Crossing Potomac	317	307	359	471	366	588	622	456	525	562

*N/C - not counted*

**Numbers in this table are not statistically significant when combined with other Metro Core Cordon Count data**

<b>TABLE 2-4 BICYCLE COUNT ON RADIAL TRANSPORTATION FACILITIES CROSSING THE CAPITAL BELTWAY</b>			
<b>Inbound Bicycle Traffic 6:30 - 9:30 A.M.</b>			
<b>Year</b>	<b>1995</b>	<b>1998</b>	<b>2001</b>
<b>Count</b>	<b>220</b>	<b>263</b>	<b>214</b>



## **Appendix E**

Origin Station Sorted by Walk Mode of Access



Station Name	Walk	Bike	Drive	Drop off	Metrobus	DASH	C. Rail	ART	DC CIRC	FFX CUE	FFX CONN	RIDE ON	Oth. Bus	PG BUS	Carpool	Taxi
CAPITOL SOUTH	95.0%	0.3%	2.1%	0.9%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.2%
JUDICIARY SQ.	94.2%	0.4%	2.3%	1.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
FARRAGUT NORTH	93.7%	0.2%	1.2%	0.9%	2.3%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.0%
FEDERAL CENTER	93.7%	0.2%	2.4%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.4%
FEDERAL TRIANGLE	93.2%	0.4%	2.7%	0.6%	1.7%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.8%	0.0%	0.4%	0.0%
ARCHIVES-NAVY MEMORIA	93.0%	0.0%	1.7%	0.7%	3.6%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.2%
FARRAGUT WEST	92.2%	0.4%	1.4%	0.5%	4.2%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.1%
COURT HOUSE	90.7%	0.4%	4.0%	1.5%	1.9%	0.0%	0.0%	0.3%	0.0%	0.2%	0.0%	0.0%	0.4%	0.0%	0.4%	0.2%
MCPHERSON SQUARE	90.4%	0.6%	2.2%	1.2%	4.7%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%	0.0%	0.2%	0.1%
METRO CENTER	90.4%	0.1%	2.1%	1.8%	3.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	1.6%	0.0%	0.3%	0.3%
GALLERY PLACE	89.9%	0.3%	1.8%	1.6%	5.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.4%	0.0%	0.2%	0.4%
SMITHSONIAN	89.7%	0.3%	2.9%	2.3%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	0.0%	1.2%	0.2%
MT. VERNON SQUARE	88.8%	1.1%	3.5%	3.5%	1.6%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%
WATERFRONT	88.1%	1.2%	3.1%	4.5%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
WOODLEY PARK ZOO	87.8%	1.6%	2.1%	2.8%	3.9%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.5%
U STREET	86.7%	0.5%	2.0%	3.1%	7.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
FOGGY BOTTOM	86.3%	0.7%	1.9%	2.2%	4.2%	0.0%	0.0%	0.0%	0.5%	0.1%	0.0%	0.0%	3.6%	0.0%	0.3%	0.2%
VIRGINIA SQUARE	86.2%	0.6%	6.4%	4.6%	1.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	0.1%
EASTERN MARKET	85.8%	1.0%	4.5%	3.4%	5.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
DUPONT CIRCLE	85.4%	0.4%	1.0%	1.5%	6.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	4.8%	0.0%	0.2%	0.1%
CLEVELAND PARK	84.2%	0.4%	6.1%	1.7%	7.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
NAVY YARD	83.6%	0.0%	2.7%	5.6%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	0.0%	0.9%	0.0%
SHAW HOWARD U	83.4%	0.3%	3.3%	3.3%	8.1%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.3%	0.0%	0.6%	0.2%
VAN NESS	82.5%	0.9%	3.8%	4.2%	7.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.7%	0.0%	0.4%	0.1%
CLARENDON	81.8%	1.3%	9.2%	4.6%	1.5%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.9%	0.0%
NEW YORK AVE	81.2%	1.2%	4.1%	4.4%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	0.0%	0.3%	0.0%
L'ENFANT PLAZA	79.9%	0.3%	3.1%	2.2%	3.5%	0.0%	4.7%	0.0%	0.3%	0.0%	0.0%	0.0%	5.0%	0.0%	0.8%	0.3%
COLUMBIA HEIGHTS	79.2%	0.4%	1.0%	2.4%	14.6%	0.0%	0.0%	0.3%	1.2%	0.0%	0.0%	0.0%	0.6%	0.0%	0.2%	0.0%
CRYSTAL CITY	79.0%	0.6%	3.5%	2.6%	6.4%	0.0%	5.4%	0.2%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0.1%	0.1%
ARLINGTON CEMETERY	75.8%	0.0%	7.4%	6.5%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.9%
BALLSTON	73.0%	0.4%	7.0%	5.3%	9.2%	0.0%	0.0%	2.6%	0.2%	0.0%	0.0%	0.0%	1.6%	0.0%	0.6%	0.2%
EISENHOWER AVENUE	72.7%	0.6%	5.4%	13.3%	0.6%	5.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	1.0%	0.0%
ROSSLYN	71.7%	0.3%	3.2%	7.8%	9.1%	0.0%	0.0%	1.1%	0.1%	0.0%	0.0%	0.0%	6.3%	0.0%	0.5%	0.0%
BETHESDA	70.4%	0.8%	9.3%	7.6%	1.7%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	8.1%	1.6%	0.0%	0.3%	0.1%
STADIUM ARMORY	69.2%	0.2%	12.2%	4.3%	13.4%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
MEDICAL CENTER	68.9%	2.0%	3.3%	5.8%	8.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	5.8%	5.3%	0.0%	0.6%	0.0%
FRIENDSHIP HEIGHTS	68.5%	0.9%	7.0%	5.7%	10.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	6.2%	1.3%	0.0%	0.3%	0.0%
NATIONAL AIRPORT	65.4%	0.2%	13.7%	7.9%	4.1%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	0.2%	1.8%
KING STREET	65.4%	0.5%	2.5%	8.9%	5.0%	13.8%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	2.9%	0.0%	0.3%	0.3%
BRADDOCK ROAD	63.4%	1.6%	6.1%	8.2%	6.0%	11.8%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	2.2%	0.0%	0.0%	0.3%
WHITE FLINT	62.7%	0.6%	15.8%	8.2%	2.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	9.0%	0.6%	0.0%	0.7%	0.1%
Daily Total	62.1%	0.5%	13.7%	5.5%	9.9%	0.4%	1.7%	0.1%	0.2%	0.1%	0.5%	1.5%	2.7%	0.2%	0.6%	0.2%
PENTAGON CITY	61.8%	0.7%	7.5%	5.9%	11.8%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	11.2%	0.0%	0.1%	0.2%
GEORGIA AVENUE	61.5%	0.3%	4.0%	4.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
UNION STATION	60.7%	0.5%	2.0%	2.6%	4.5%	0.0%	27.4%	0.0%	0.5%	0.0%	0.0%	0.0%	1.2%	0.0%	0.2%	0.3%
TENLEY TOWN	60.2%	0.8%	7.5%	6.5%	9.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	14.7%	0.0%	0.9%	0.0%
POTOMAC AVENUE	54.6%	0.8%	5.0%	3.9%	35.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
BENNING ROAD	52.9%	0.0%	9.4%	11.3%	26.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
BROOKLAND CUA	52.3%	0.0%	6.9%	7.0%	22.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.0%	0.0%	0.0%	0.0%

TAKOMA PARK	52.1%	0.9%	9.8%	8.3%	12.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	15.0%	1.2%	0.0%	0.1%	0.1%
SILVER SPRING	51.3%	0.7%	9.2%	5.6%	19.8%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	10.4%	1.5%	0.0%	0.4%	0.1%
DEANWOOD	49.0%	0.7%	23.8%	10.3%	15.8%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
TWINBROOK	46.3%	2.7%	32.5%	6.8%	2.3%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	7.2%	0.2%	0.0%	1.6%	0.0%
PRINCE GEORGE'S PLAZA	41.9%	1.3%	22.6%	3.6%	24.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%	3.3%	0.3%	0.0%
WEST HYATTSVILLE	41.3%	4.0%	27.9%	9.0%	9.9%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.2%	5.2%	1.5%	0.5%
FOREST GLEN	40.4%	1.8%	37.8%	12.9%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%	1.0%	0.0%	1.2%	0.2%
EAST FALLS CHURCH	39.8%	3.0%	22.3%	17.4%	10.7%	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%	3.1%	0.0%	1.8%	0.4%
WHEATON	38.3%	0.7%	36.6%	9.5%	8.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	4.6%	0.3%	0.0%	1.5%	0.0%
PENTAGON	37.3%	0.1%	3.9%	5.9%	42.2%	3.2%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	4.8%	0.0%	1.6%	0.1%
CONGRESS HEIGHTS	36.4%	1.1%	15.1%	12.4%	34.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
MINNESOTA AVENUE	36.0%	0.0%	12.7%	9.1%	41.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%
CAPITOL HEIGHTS	29.9%	0.0%	33.5%	12.4%	13.9%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%	7.0%	1.7%	0.9%
ROCKVILLE	29.5%	1.1%	22.4%	14.8%	5.2%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	20.4%	0.7%	0.0%	1.3%	0.2%
GROSVENOR	28.9%	0.5%	48.4%	10.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.8%	0.0%	0.0%	2.0%	0.4%
RHODE ISLAND AVENUE	27.1%	0.2%	22.0%	9.2%	39.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	1.0%	0.0%	0.8%	0.0%
DUNN LORING	23.8%	1.8%	38.0%	17.1%	8.2%	0.0%	0.0%	0.3%	0.2%	0.0%	4.9%	0.0%	3.9%	0.0%	1.0%	0.8%
FORT TOTEN	22.8%	0.0%	13.2%	12.9%	49.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.7%	0.5%
SUITLAND	20.8%	0.0%	42.9%	8.8%	21.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	1.9%	0.6%	1.4%
NAYLOR ROAD	20.6%	0.0%	29.0%	14.9%	29.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.4%	0.3%
COLLEGE PARK	20.6%	1.8%	37.2%	9.8%	10.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.4%	0.0%	1.3%	0.2%
CHEVERLY	19.8%	0.8%	43.3%	17.6%	13.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%	1.9%	1.8%	0.8%
HUNTINGTON	18.7%	0.7%	46.8%	9.0%	5.1%	0.0%	0.0%	0.0%	0.1%	0.1%	13.6%	0.0%	4.4%	0.0%	1.2%	0.3%
ANACOSTIA	17.8%	0.6%	13.7%	5.3%	55.4%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	6.5%	0.0%	0.1%	0.0%
VAN DORN STREET	14.0%	0.9%	18.4%	17.9%	4.4%	10.6%	0.0%	0.3%	0.0%	0.0%	13.2%	0.0%	18.2%	0.0%	1.4%	0.7%
GLENMONT	12.9%	0.5%	48.6%	17.0%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.7%	0.7%	0.0%	0.9%	0.2%
LARGO TOWN CENTER	11.4%	0.3%	61.5%	11.8%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	1.4%	0.4%
VIENNA	11.0%	0.6%	52.7%	11.8%	11.0%	0.0%	0.0%	0.0%	0.0%	5.7%	3.4%	0.0%	2.4%	0.0%	1.4%	0.0%
ADDISON RD	10.4%	0.0%	33.6%	12.3%	34.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%	0.6%	1.4%
SOUTHERN AVENUE	10.2%	0.0%	36.1%	8.0%	39.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%	3.5%	1.0%	0.2%
NEW CARROLLTON	9.3%	0.2%	54.2%	12.6%	16.5%	0.0%	2.9%	0.0%	0.2%	0.0%	0.0%	0.0%	0.8%	0.9%	1.3%	1.1%
WEST FALLS CHURCH	8.8%	0.4%	41.4%	12.7%	14.6%	0.0%	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%	18.7%	0.0%	1.4%	1.3%
BRANCH AVENUE	7.4%	0.0%	69.3%	11.8%	7.5%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.4%	1.6%	1.6%	0.3%
LANDOVER	6.7%	0.0%	67.3%	7.5%	16.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.7%	0.0%	0.4%	0.6%
FRANCONIA-SPRINGFIELD	6.7%	0.7%	60.7%	10.8%	3.3%	0.0%	1.3%	0.1%	0.1%	0.1%	8.1%	0.0%	5.7%	0.0%	1.8%	0.7%
MORGAN BLVD	6.0%	0.0%	69.0%	21.7%	0.9%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%
GREENBELT	5.2%	0.2%	60.9%	10.4%	16.7%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	2.9%	1.4%	0.3%
SHADY GROVE	3.7%	0.6%	50.7%	11.6%	2.9%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	21.9%	7.4%	0.0%	1.0%	0.1%
<b>Station Name</b>	<b>Walk</b>	<b>Bike</b>	<b>Drive</b>	<b>Drop off</b>	<b>METROBUS</b>	<b>DASH</b>	<b>C. Rail</b>	<b>ART</b>	<b>DC CIRC</b>	<b>FFX CUE</b>	<b>FFX CONN</b>	<b>RIDE ON</b>	<b>Oth. Bus</b>	<b>PG BUS</b>	<b>Carpool</b>	<b>Taxi</b>



## **Appendix F**

Origin Station Sorted by Bike Mode of Access



Station Name	Bike	Walk	Drive	Drop off	Metrobus	DASH	C. Rail	ART	DC CIRC	FFX CUE	FFX CONN	RIDE ON	Oth. Bus	PG BUS	Carpool	Taxi
WEST HYATTSVILLE	4.0%	41.3%	27.9%	9.0%	9.9%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.2%	5.2%	1.5%	0.5%
EAST FALLS CHURCH	3.0%	39.8%	22.3%	17.4%	10.7%	0.0%	0.0%	1.6%	0.0%	0.0%	0.0%	0.0%	3.1%	0.0%	1.8%	0.4%
TWINBROOK	2.7%	46.3%	32.5%	6.8%	2.3%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	7.2%	0.2%	0.0%	1.6%	0.0%
MEDICAL CENTER	2.0%	68.9%	3.3%	5.8%	8.1%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	5.8%	5.3%	0.0%	0.6%	0.0%
FOREST GLEN	1.8%	40.4%	37.8%	12.9%	1.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.7%	1.0%	0.0%	1.2%	0.2%
COLLEGE PARK	1.8%	20.6%	37.2%	9.8%	10.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	18.4%	0.0%	1.3%	0.2%
DUNN LORING	1.8%	23.8%	38.0%	17.1%	8.2%	0.0%	0.0%	0.3%	0.2%	0.0%	4.9%	0.0%	3.9%	0.0%	1.0%	0.8%
WOODLEY PARK ZOO	1.6%	87.8%	2.1%	2.8%	3.9%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	1.5%
BRADDOCK ROAD	1.6%	63.4%	6.1%	8.2%	6.0%	11.8%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	2.2%	0.0%	0.0%	0.3%
CLARENDON	1.3%	81.8%	9.2%	4.6%	1.5%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%	0.9%	0.0%
PRINCE GEORGE'S PLAZA	1.3%	41.9%	22.6%	3.6%	24.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	3.2%	3.3%	0.3%	0.0%
NEW YORK AVE	1.2%	81.2%	4.1%	4.4%	6.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%	0.0%	0.3%	0.0%
WATERFRONT	1.2%	88.1%	3.1%	4.5%	3.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
MT. VERNON SQUARE	1.1%	88.8%	3.5%	3.5%	1.6%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.6%	0.0%	0.0%	0.0%
ROCKVILLE	1.1%	29.5%	22.4%	14.8%	5.2%	0.0%	4.4%	0.0%	0.0%	0.0%	0.0%	20.4%	0.7%	0.0%	1.3%	0.2%
CONGRESS HEIGHTS	1.1%	36.4%	15.1%	12.4%	34.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
EASTERN MARKET	1.0%	85.8%	4.5%	3.4%	5.0%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
VAN NESS	0.9%	82.5%	3.8%	4.2%	7.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.7%	0.0%	0.4%	0.1%
FRIENDSHIP HEIGHTS	0.9%	68.5%	7.0%	5.7%	10.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	6.2%	1.3%	0.0%	0.3%	0.0%
TAKOMA PARK	0.9%	52.1%	9.8%	8.3%	12.4%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	15.0%	1.2%	0.0%	0.1%	0.1%
VAN DORN STREET	0.9%	14.0%	18.4%	17.9%	4.4%	10.6%	0.0%	0.3%	0.0%	0.0%	13.2%	0.0%	18.2%	0.0%	1.4%	0.7%
BETHESDA	0.8%	70.4%	9.3%	7.6%	1.7%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	8.1%	1.6%	0.0%	0.3%	0.1%
TENLEY TOWN	0.8%	60.2%	7.5%	6.5%	9.3%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	14.7%	0.0%	0.9%	0.0%
CHEVERLY	0.8%	19.8%	43.3%	17.6%	13.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.3%	1.9%	1.8%	0.8%
POTOMAC AVENUE	0.8%	54.6%	5.0%	3.9%	35.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.3%	0.3%
PENTAGON CITY	0.7%	61.8%	7.5%	5.9%	11.8%	0.0%	0.0%	0.8%	0.0%	0.0%	0.0%	0.0%	11.2%	0.0%	0.1%	0.2%
SILVER SPRING	0.7%	51.3%	9.2%	5.6%	19.8%	0.0%	1.1%	0.0%	0.0%	0.0%	0.0%	10.4%	1.5%	0.0%	0.4%	0.1%
HUNTINGTON	0.7%	18.7%	46.8%	9.0%	5.1%	0.0%	0.0%	0.0%	0.1%	0.1%	13.6%	0.0%	4.4%	0.0%	1.2%	0.3%
WHEATON	0.7%	38.3%	36.6%	9.5%	8.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	4.6%	0.3%	0.0%	1.5%	0.0%
FOGGY BOTTOM	0.7%	86.3%	1.9%	2.2%	4.2%	0.0%	0.0%	0.0%	0.5%	0.1%	0.0%	0.0%	3.6%	0.0%	0.3%	0.2%
FRANCONIA-SPRINGFIELD	0.7%	6.7%	60.7%	10.8%	3.3%	0.0%	1.3%	0.1%	0.1%	0.1%	8.1%	0.0%	5.7%	0.0%	1.8%	0.7%
DEANWOOD	0.7%	49.0%	23.8%	10.3%	15.8%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
CRYSTAL CITY	0.6%	79.0%	3.5%	2.6%	6.4%	0.0%	5.4%	0.2%	0.0%	0.0%	0.0%	0.0%	2.2%	0.0%	0.1%	0.1%
VIRGINIA SQUARE	0.6%	86.2%	6.4%	4.6%	1.0%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.4%	0.1%
SHADY GROVE	0.6%	3.7%	50.7%	11.6%	2.9%	0.0%	0.0%	0.0%	0.1%	0.0%	0.0%	21.9%	7.4%	0.0%	1.0%	0.1%
EISENHOWER AVENUE	0.6%	72.7%	5.4%	13.3%	0.6%	5.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.0%	1.0%	0.0%
MCPHERSON SQUARE	0.6%	90.4%	2.2%	1.2%	4.7%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%	0.0%	0.2%	0.1%
ANACOSTIA	0.6%	17.8%	13.7%	5.3%	55.4%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	6.5%	0.0%	0.1%	0.0%
VIENNA	0.6%	11.0%	52.7%	11.8%	11.0%	0.0%	0.0%	0.0%	0.0%	5.7%	3.4%	0.0%	2.4%	0.0%	1.4%	0.0%
WHITE FLINT	0.6%	62.7%	15.8%	8.2%	2.2%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	9.0%	0.6%	0.0%	0.7%	0.1%
Daily Total	0.5%	62.1%	13.7%	5.5%	9.9%	0.4%	1.7%	0.1%	0.2%	0.1%	0.5%	1.5%	2.7%	0.2%	0.6%	0.2%
GROSVENOR	0.5%	28.9%	48.4%	10.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	7.8%	0.0%	0.0%	2.0%	0.4%
GLENMONT	0.5%	12.9%	48.6%	17.0%	8.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	10.7%	0.7%	0.0%	0.9%	0.2%
KING STREET	0.5%	65.4%	2.5%	8.9%	5.0%	13.8%	0.2%	0.0%	0.0%	0.0%	0.1%	0.0%	2.9%	0.0%	0.3%	0.3%
U STREET	0.5%	86.7%	2.0%	3.1%	7.0%	0.0%	0.0%	0.0%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
UNION STATION	0.5%	60.7%	2.0%	2.6%	4.5%	0.0%	27.4%	0.0%	0.5%	0.0%	0.0%	0.0%	1.2%	0.0%	0.2%	0.3%
COLUMBIA HEIGHTS	0.4%	79.2%	1.0%	2.4%	14.6%	0.0%	0.0%	0.3%	1.2%	0.0%	0.0%	0.0%	0.6%	0.0%	0.2%	0.0%
FEDERAL TRIANGLE	0.4%	93.2%	2.7%	0.6%	1.7%	0.0%	0.0%	0.1%	0.1%	0.0%	0.0%	0.0%	0.8%	0.0%	0.4%	0.0%
WEST FALLS CHURCH	0.4%	8.8%	41.4%	12.7%	14.6%	0.0%	0.0%	0.0%	0.2%	0.4%	0.0%	0.0%	18.7%	0.0%	1.4%	1.3%

COURT HOUSE	0.4%	90.7%	4.0%	1.5%	1.9%	0.0%	0.0%	0.3%	0.0%	0.2%	0.0%	0.0%	0.4%	0.0%	0.4%	0.2%
DUPONT CIRCLE	0.4%	85.4%	1.0%	1.5%	6.1%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	4.8%	0.0%	0.2%	0.1%
CLEVELAND PARK	0.4%	84.2%	6.1%	1.7%	7.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
BALLSTON	0.4%	73.0%	7.0%	5.3%	9.2%	0.0%	0.0%	2.6%	0.2%	0.0%	0.0%	0.0%	1.6%	0.0%	0.6%	0.2%
JUDICIARY SQ.	0.4%	94.2%	2.3%	1.0%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.1%
FARRAGUT WEST	0.4%	92.2%	1.4%	0.5%	4.2%	0.0%	0.0%	0.1%	0.2%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.1%
LARGO TOWN CENTER	0.3%	11.4%	61.5%	11.8%	12.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	0.0%	1.4%	0.4%
GALLERY PLACE	0.3%	89.9%	1.8%	1.6%	5.0%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	0.4%	0.0%	0.2%	0.4%
CAPITOL SOUTH	0.3%	95.0%	2.1%	0.9%	0.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.2%
L'ENFANT PLAZA	0.3%	79.9%	3.1%	2.2%	3.5%	0.0%	4.7%	0.0%	0.3%	0.0%	0.0%	0.0%	5.0%	0.0%	0.8%	0.3%
GEORGIA AVENUE	0.3%	61.5%	4.0%	4.0%	30.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%
SMITHSONIAN	0.3%	89.7%	2.9%	2.3%	1.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.6%	0.0%	1.2%	0.2%
ROSSLYN	0.3%	71.7%	3.2%	7.8%	9.1%	0.0%	0.0%	1.1%	0.1%	0.0%	0.0%	0.0%	6.3%	0.0%	0.5%	0.0%
SHAW HOWARD U	0.3%	83.4%	3.3%	3.3%	8.1%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.3%	0.0%	0.6%	0.2%
FEDERAL CENTER	0.2%	93.7%	2.4%	1.1%	1.7%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.0%	0.4%
RHODE ISLAND AVENUE	0.2%	27.1%	22.0%	9.2%	39.3%	0.0%	0.0%	0.0%	0.3%	0.0%	0.0%	0.0%	1.0%	0.0%	0.8%	0.0%
NATIONAL AIRPORT	0.2%	65.4%	13.7%	7.9%	4.1%	0.0%	0.0%	0.5%	0.0%	0.0%	0.0%	0.0%	6.1%	0.0%	0.2%	1.8%
GREENBELT	0.2%	5.2%	60.9%	10.4%	16.7%	0.0%	0.9%	0.0%	0.0%	0.0%	0.0%	0.0%	1.1%	2.9%	1.4%	0.3%
FARRAGUT NORTH	0.2%	93.7%	1.2%	0.9%	2.3%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.6%	0.0%	0.3%	0.0%
STADIUM ARMORY	0.2%	69.2%	12.2%	4.3%	13.4%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.4%	0.0%
NEW CARROLLTON	0.2%	9.3%	54.2%	12.6%	16.5%	0.0%	2.9%	0.0%	0.2%	0.0%	0.0%	0.0%	0.8%	0.9%	1.3%	1.1%
PENTAGON	0.1%	37.3%	3.9%	5.9%	42.2%	3.2%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	4.8%	0.0%	1.6%	0.1%
METRO CENTER	0.1%	90.4%	2.1%	1.8%	3.1%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	1.6%	0.0%	0.3%	0.3%
MORGAN BLVD	0.0%	6.0%	69.0%	21.7%	0.9%	0.0%	0.0%	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.3%
LANDOVER	0.0%	6.7%	67.3%	7.5%	16.0%	0.0%	0.0%	0.0%	0.7%	0.0%	0.0%	0.0%	0.7%	0.0%	0.4%	0.6%
BRANCH AVENUE	0.0%	7.4%	69.3%	11.8%	7.5%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.4%	1.6%	1.6%	0.3%
SOUTHERN AVENUE	0.0%	10.2%	36.1%	8.0%	39.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.8%	3.5%	1.0%	0.2%
ADDISON RD	0.0%	10.4%	33.6%	12.3%	34.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.9%	0.6%	1.4%
NAYLOR ROAD	0.0%	20.6%	29.0%	14.9%	29.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	5.3%	0.4%	0.3%
SUITLAND	0.0%	20.8%	42.9%	8.8%	21.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.1%	1.9%	0.6%	1.4%
FORT TOTTEN	0.0%	22.8%	13.2%	12.9%	49.4%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.5%	0.0%	0.7%	0.5%
CAPITOL HEIGHTS	0.0%	29.9%	33.5%	12.4%	13.9%	0.0%	0.0%	0.0%	0.2%	0.0%	0.0%	0.0%	0.5%	7.0%	1.7%	0.9%
MINNESOTA AVENUE	0.0%	36.0%	12.7%	9.1%	41.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.0%	0.2%	0.0%	0.2%	0.0%
BROOKLAND CUA	0.0%	52.3%	6.9%	7.0%	22.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	11.0%	0.0%	0.0%	0.0%
BENNING ROAD	0.0%	52.9%	9.4%	11.3%	26.3%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
ARLINGTON CEMETERY	0.0%	75.8%	7.4%	6.5%	8.6%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.9%	0.0%	0.0%	0.9%
NAVY YARD	0.0%	83.6%	2.7%	5.6%	4.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.7%	0.0%	0.9%	0.0%
ARCHIVES-NAVY MEMORIA	0.0%	93.0%	1.7%	0.7%	3.6%	0.0%	0.0%	0.3%	0.2%	0.0%	0.0%	0.0%	0.4%	0.0%	0.0%	0.2%
<b>Station Name</b>	<b>Bike</b>	<b>Walk</b>	<b>Drive</b>	<b>Drop off</b>	<b>METROBUS</b>	<b>DASH</b>	<b>C. Rail</b>	<b>ART</b>	<b>DC CIRC</b>	<b>FFX CUE</b>	<b>FFX CONN</b>	<b>RIDE ON</b>	<b>Oth. Bus</b>	<b>PG BUS</b>	<b>Carpool</b>	<b>Taxi</b>

# Appendix G

## Links and Resources

**ADC Regional Bicycle Map**  
[www.adcmap.com](http://www.adcmap.com)

**Alexandria Rideshare**  
[www.alexride.org](http://www.alexride.org)

**BikeArlington**  
[www.bikearlington.com](http://www.bikearlington.com)

*Arlington bicycle information.*

**BikeWashington**  
[www.bikewashington.org](http://www.bikewashington.org)

*Bike trails and routes in the Washington region, clubs, and organized rides.*

**Coalition for Smarter Growth**  
[www.smartergrowth.net](http://www.smartergrowth.net)

*An advocacy group for transit-oriented development in the Washington region.*

**College Park Area Bicycle Coalition**  
[www.cpabc.org](http://www.cpabc.org)

*Advocacy group for bicycling in the College Park, MD area.*

**League of American Bicyclists**  
1612 K Street NW, Suite 800  
Washington, D.C. 20006  
(202) 822-1333  
[www.bikeleague.org](http://www.bikeleague.org)

*LAB is a national cycling advocacy group founded in 1880.*

**National Center for Bicycling and Walking**  
[www.bikewalk.org](http://www.bikewalk.org)

*A national advocacy group for walking and bicycling.*

**Metropolitan Washington Council of Governments**  
777 North Capitol Street NE, Suite 300

Washington, D.C. 20002  
(202) 962-3200  
[www.mwcog.org](http://www.mwcog.org)  
[www.commuterconnections.org](http://www.commuterconnections.org)

*Metropolitan planning organization. Offers ridematching and Guaranteed Ride Home services through its Commuter Connections program, publishes a Bike to Work Guide.*

**Pedestrian and Bicycle Information Center**  
[www.bicyclinginfo.org](http://www.bicyclinginfo.org)  
[www.walkinginfo.org](http://www.walkinginfo.org)

*National clearinghouse for information on walking and bicycling.*

**Safe Routes to School**  
[www.saferoutesinfo.org](http://www.saferoutesinfo.org)

**United States Access Board**  
[www.access-board.com](http://www.access-board.com)

*A federal agency dedicated to design that is accessible to persons with disabilities.*

**Virginia Bicycling Federation**  
[www.vabike.org](http://www.vabike.org)

*Advocacy group for Virginia bicycling.*

**WalkArlington**  
[www.walkarlington.com](http://www.walkarlington.com)

*Arlington walking information.*

**Washington Area Bicyclist Association**  
2599 Ontario Rd. NW  
Washington, DC 20009 (202) 518-0524  
[www.waba.org](http://www.waba.org)

*Advocacy group for cycling in the Washington region. Runs a pedestrian and bicycle safety education program.*



## Appendix H

### Glossary of Terms

- BIKE-ON-RAIL PERMIT** Permit issued by the Washington Metropolitan Area Transit Authority permitting transportation of bicycles on Metrorail trains during night and weekend service periods. (no longer required)
- BICYCLE LANE (BIKE LANE)** A portion of a roadway which has been designated by striping, signing and pavement markings for the preferential or exclusive use of bicyclists. Consists of a 4'-6' lane in each direction, with bicycle traffic moving in the same direction as motorized traffic.
- BICYCLE PATH (BIKE PATH)** A bikeway physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right of way or within an independent right of way.
- BICYCLE PARKING** An area dedicated and designed specifically for storing and locking a bicycle. Includes bicycle racks and bicycle lockers.
- BICYCLE ROUTE (BIKE ROUTE)** A segment of a system of bikeways designated by the jurisdiction with appropriate directional and informational markers, with or without specific bicycle route numbers.
- BIKEWAY** Any road, path, or way which in some manner is specifically designated as being open to bicycle travel, regardless of whether such facilities are designated for the exclusive use of bicycles or are to be shared with other transportation modes.
- CLASS I, II or III BIKEWAY** Terms sometimes used to describe different types of bicycle facilities. Class I is a shared-use path, Class II a bicycle lane, and Class III a shared roadway. However, Since there is some disagreement on the exact meaning of these terms, the AASHTO terms (listed above) should be used.

GREENWAY	A linear park or recreation facility of limited width, located along the length of an existing or former public utility or railroad right-of-way, or along a stream bed.
HIKER-BIKER TRAIL	A paved path designed for use by both pedestrians and bicyclists, which is completely separated from vehicular traffic.
METROPOLITAN STATISTICAL AREA	A core area containing a substantial population nucleus, together with adjacent communities having a high degree of social and economic integration with that core. Metropolitan statistical areas comprise one or more entire counties. They are used by the United States Census for the purpose of tabulating, enumerating and publishing data.
RAILS-TO-TRAILS CONSERVANCY	A national membership organization that works to facilitate the acquisition of abandoned railroad lines for use in creating bicycle and pedestrian trails and linear parks.
RAIL-TRAIL	A Shared-Use Path, either paved or unpaved, built within the right-of-way of an existing or former railroad.
REGIONAL ACTIVITY CENTER	A set of locations within the National Capital Region Transportation Planning Board planning area identified by the Council of Government's Planning Director's Technical Advisory Committee as employment centers of regional significance. Five types of Regional Activity Center have been designated, with different employment and residential density criteria for each.
REGIONAL ACTIVITY CLUSTER	An employment center adjacent to a Regional Activity Center, with a lower density than a Regional Activity Center
SHARED ROADWAY	A roadway which is open to both bicycle and motor vehicle travel. This may be an existing roadway, street with wide curb lanes, or road with paved shoulders.
SHARED-USE PATH	A bikeway, at least 8' in width, physically separated from motorized vehicular traffic by an open space or barrier and either within the highway right-of-way or within an independent right-of-way. Shared-Use Paths may also be used by pedestrians, skaters, wheelchair users, joggers, and other non-motorized users.



SIDE-PATH	A shared-used path built within the right-of-way of a non limited-access highway.
SIDEWALK	The portion of a street or highway right-of-way, at least 4' in width, designed for preferential or exclusive use by pedestrians.
SIGNED SHARED ROADWAY	A shared roadway that has been designated as a preferred route for bicycle use using warning, directional, and informational signage.
TRAVELED WAY	The portion of a roadway for the movement of vehicles, exclusive of shoulders.
UNIFORM VEHICLE CODE	The standards for traffic regulations recommended for adoption by state and local jurisdictions, as prepared by the National Committee on Uniform Traffic Laws and Ordinances.
WASHINGTON AREA BICYCLIST ASSOCIATION	A regional membership organization devoted to improving bicycling opportunities and promoting bicycle usage in the metropolitan Washington area.



# Appendix I

## Glossary of Acronyms

AASHTO	American Association of Highway Transportation Officials
ADA	Americans with Disabilities Act
AFA	Access for All Advisory Committee
CLRP	Financially Constrained Long-Range Transportation Plan
CMAQ	Congestion Mitigation and Air Quality Improvement Program
COG	Metropolitan Washington Council of Governments
DDOT	District of Columbia Department of Transportation
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
ISTEA	Intermodal Surface Transportation Efficiency Act of 1991
MDOT	Maryland Department of Transportation
MPO	Metropolitan Planning Organization
MSA	Metropolitan Statistical Area
MTA	Maryland Transit Administration
MUTCD	Manual on Uniform Traffic Control Devices
NCPC	National Capital Planning Commission
NVTC	Northern Virginia Transportation Commission
SAFETEA-LU	Safe, Accountable, Flexible, Efficient Transportation Equity Act: Legacy for Users
SHA	Maryland State Highway Administration
SOV	Single-Occupant Vehicle
SRTS	Safe Routes to School
TCSP	Transportation and Community and System Preservation Pilot Program
TEA-21	Transportation Equity Act for the 21st Century
TIP	Transportation Improvement Program
TPB	National Capital Region Transportation Planning Board
US DOT	U.S. Department of Transportation
VDOT	Virginia Department of Transportation
VMT	Vehicle-Miles Traveled
WABA	Washington Area Bicyclist Association
WMATA	Washington Metropolitan Area Transit Authority

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## Appendix J

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