

Carroll County Bicycle-Pedestrian Master Plan



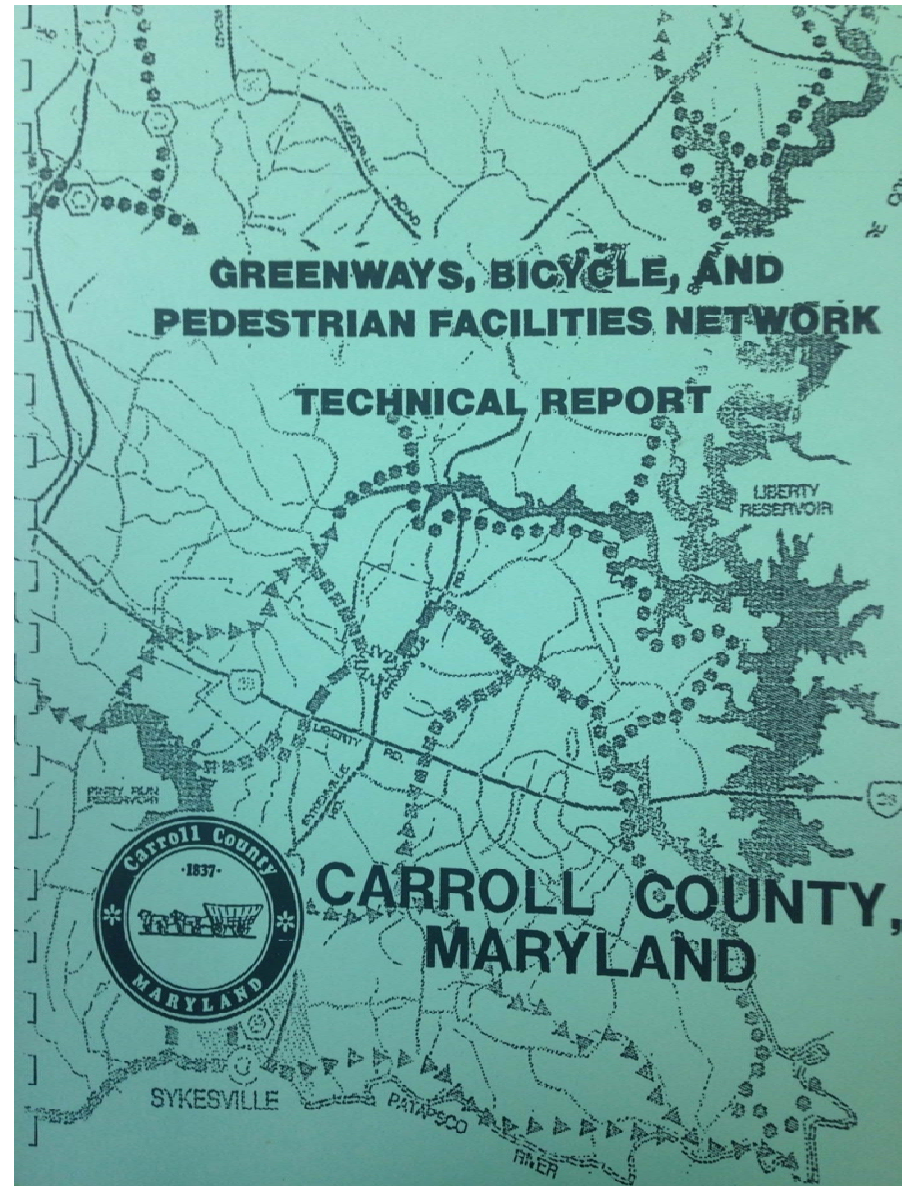
Planning Better Paths to Carroll's Future

Planning and Zoning Commission
December 15, 2015



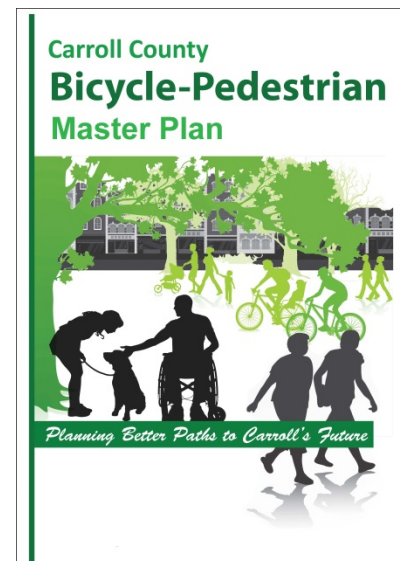
Background

- 1994 Technical Report
 - **Not adopted**
 - Focus: Recreation
- 2014 Freedom Bike-Ped Plan
 - **Not adopted**
 - Certified
- The County's first Bike-Ped Plan
 - Focus: Modality



Progress

- Plan Outline
- Mapping
- Data Collection
 - Sheriff Collision Data (August)
- Outreach
- Interest Survey Draft



Plan Outline

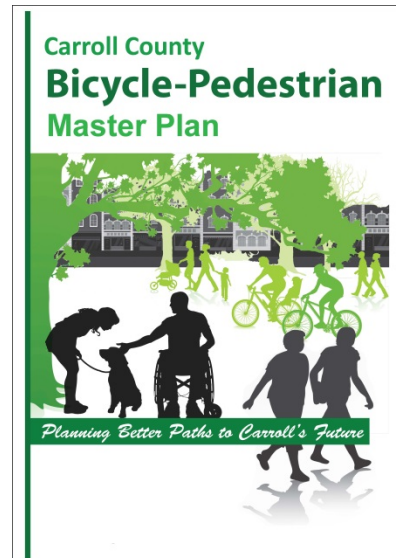
Carroll County Bicycle-Pedestrian-Greenways Master Plan

-Planning Better Paths to Carroll's Future

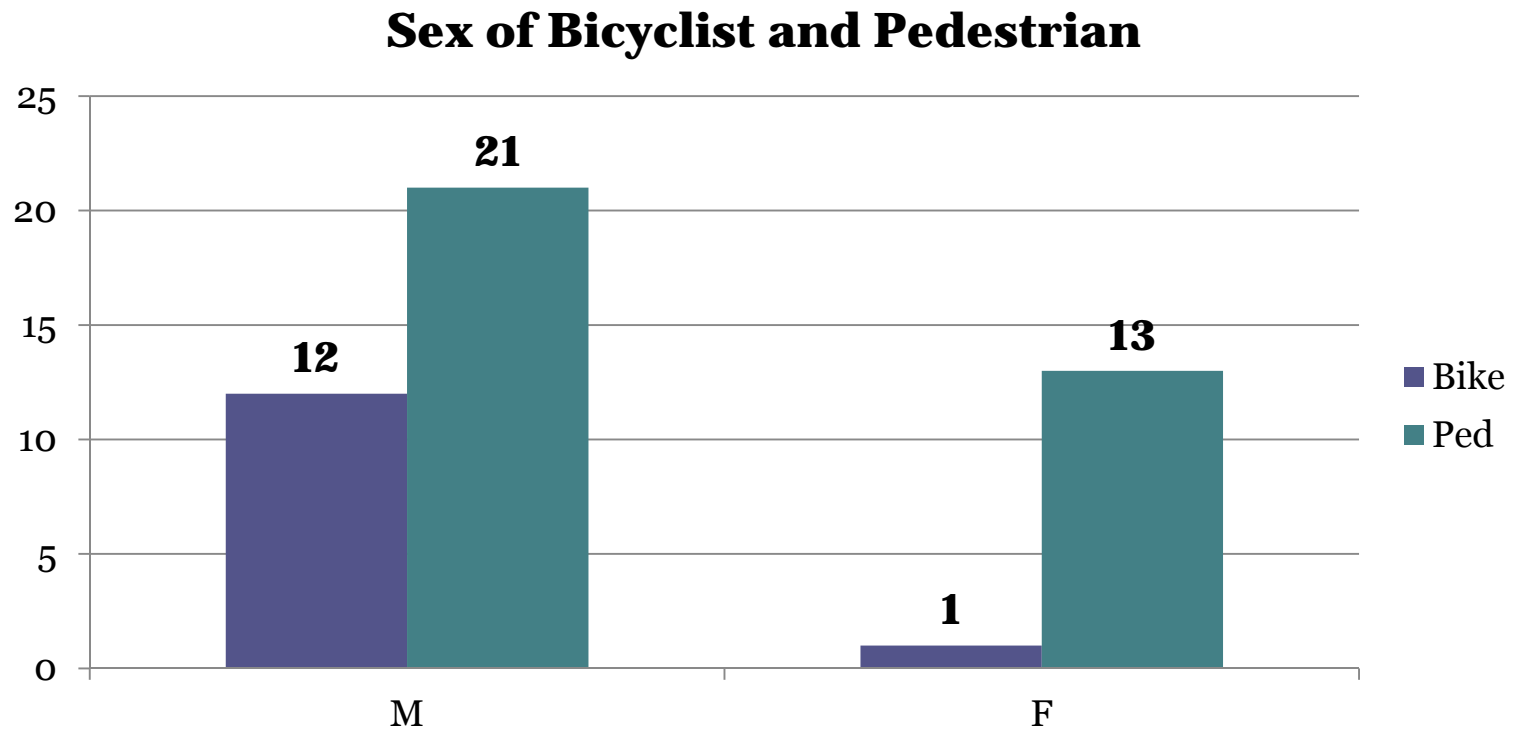
Chapter 1: Introduction, Background, Plan Development	X
Chapter 2: Plan Vision, Goals and Measures	X
Community Outreach	X
User Survey and Results	X
Chapter 3: Existing Conditions and Possible Connections.....	X
Existing Paths	X
<i>Bicycle Lanes and Routes.....</i>	<i>X</i>
<i>Sidewalks.....</i>	<i>X</i>
<i>Shared Use Paths</i>	<i>X</i>
<i>Off-Road Trails</i>	<i>X</i>
Gaps in the Route	X
Natural Areas and Greenway Connections	X
Creating Linkages	X
Chapter 4: Making Connections-Beyond the Path	X
Quality of Life	X
<i>Health and Welfare</i>	<i>X</i>
<i>Safety and Education</i>	<i>X</i>
<i>Understanding Collisions.....</i>	<i>X</i>
<i>Preventing Collisions</i>	<i>X</i>
Access	X
<i>ADA Compliance</i>	<i>X</i>
<i>User Conflicts.....</i>	<i>X</i>
<i>Solutions</i>	<i>X</i>
Heritage and Economic Development	X
<i>Tourism and Scenic Paths.....</i>	<i>X</i>
<i>Historic Connections.....</i>	<i>X</i>
<i>Business Centers.....</i>	<i>X</i>
<i>Making Adequate Bike and Pedestrian Accommodations</i>	<i>X</i>
Engagement	X
<i>Public Participation</i>	<i>X</i>
<i>Public Officials</i>	<i>X</i>
<i>Strategies</i>	<i>X</i>
Chapter 5: Transportation Alternative	X
Linkages with Fixed Routes.....	X
Paths to Education.....	X
<i>Higher Education Links</i>	<i>X</i>
<i>Safe Routes to Schools.....</i>	<i>X</i>
Chapter 6: Design Alternatives	X
Types of Use	X
<i>Bicycle Lanes and Routes.....</i>	<i>X</i>
<i>Sidewalks.....</i>	<i>X</i>
<i>Shared Use Paths</i>	<i>X</i>
<i>Off-Road Trails</i>	<i>X</i>
Chapter 7: Implementation Strategies and Funding Mechanisms	X
Maps:	
Figures:	
Tables:	
Appendices:	

Data

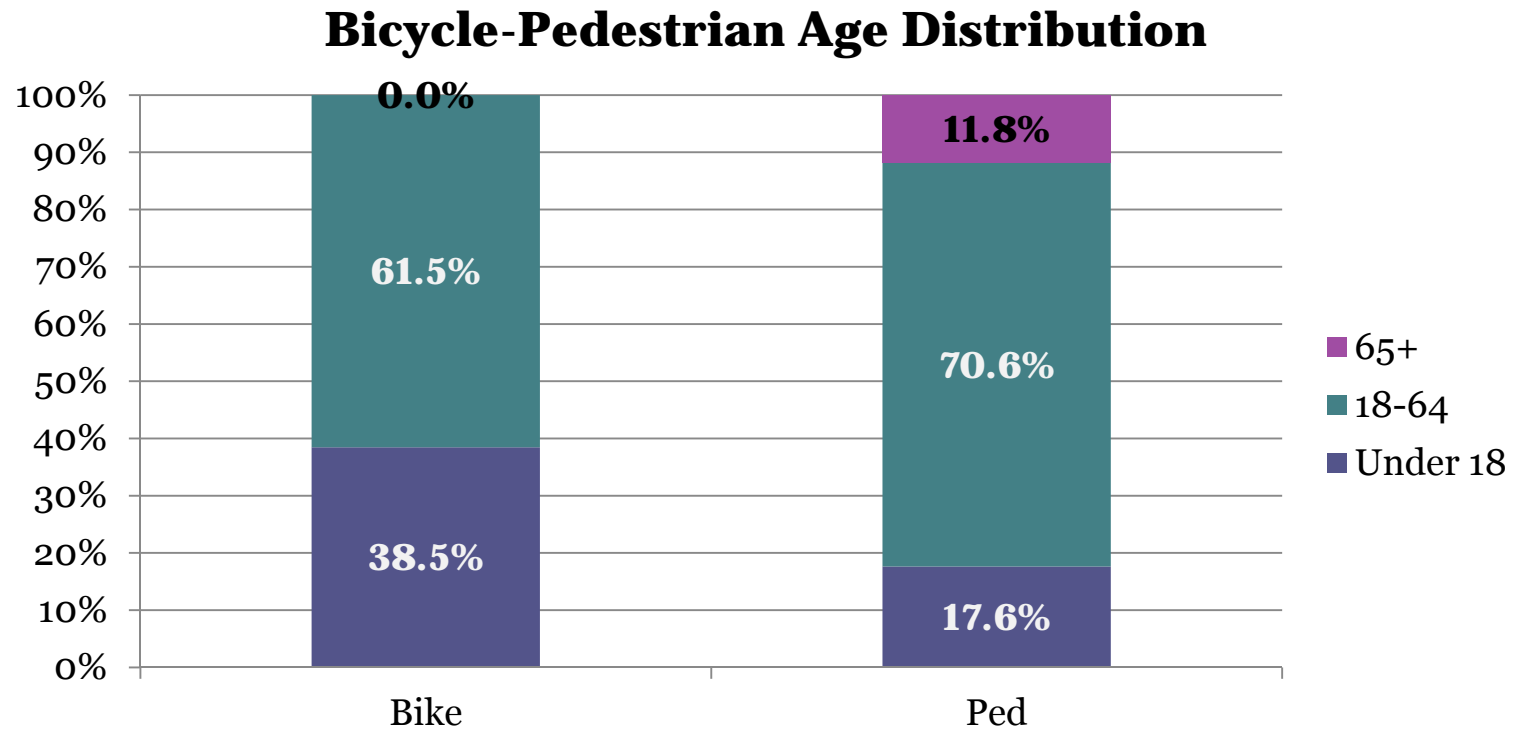
- 47 collision Records
 - 13 Bicycle Collisions
 - 34 Pedestrian Collisions
- Covers: January 1, 2012 – August 2015



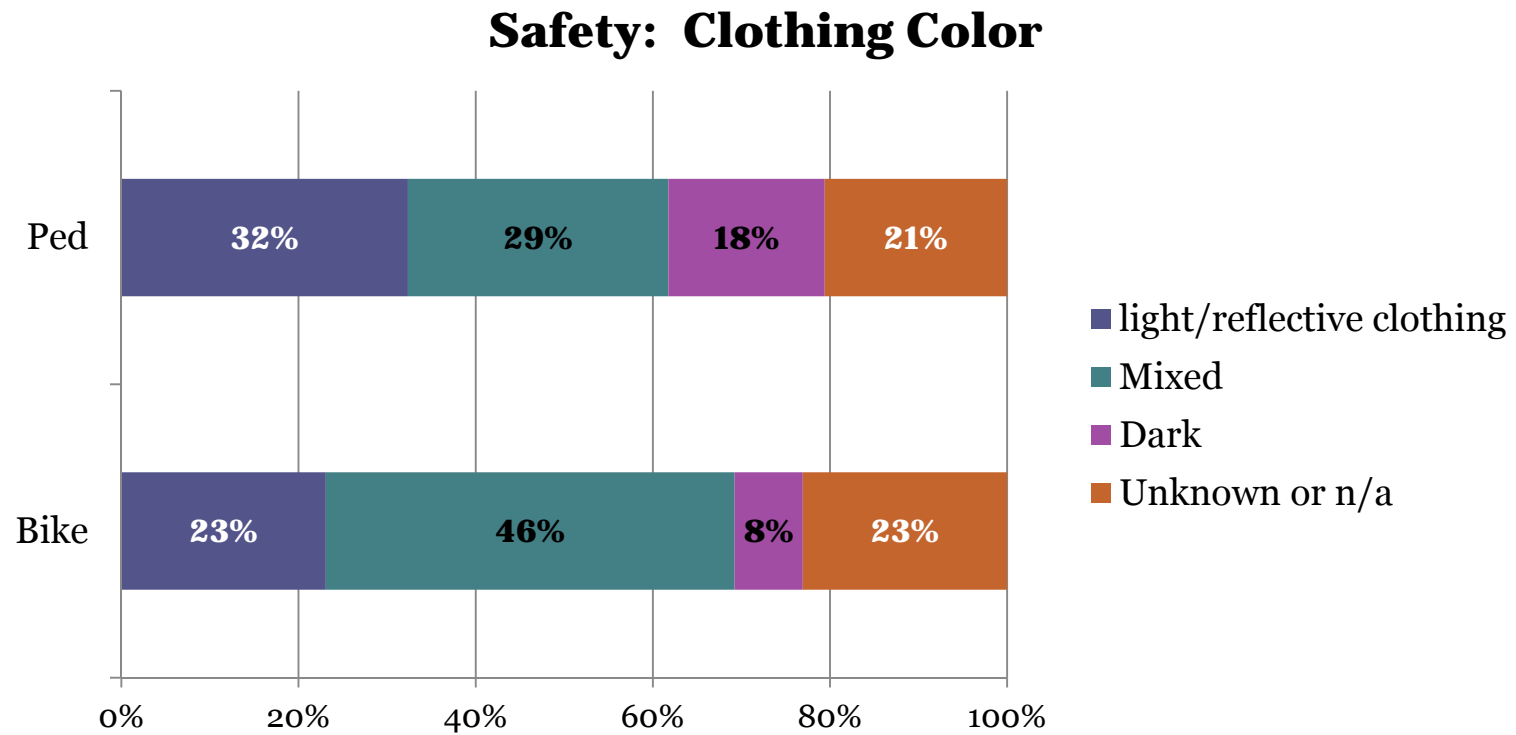
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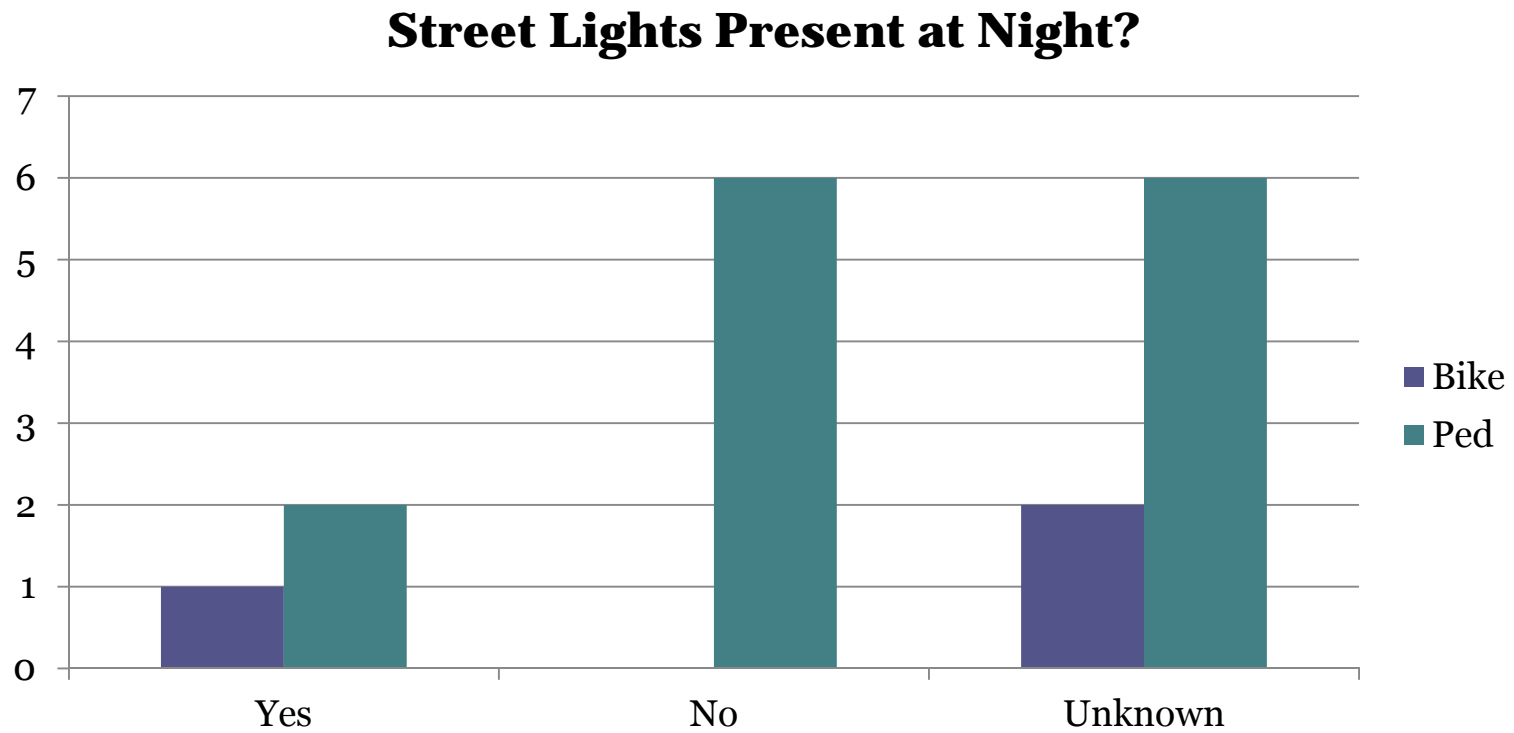
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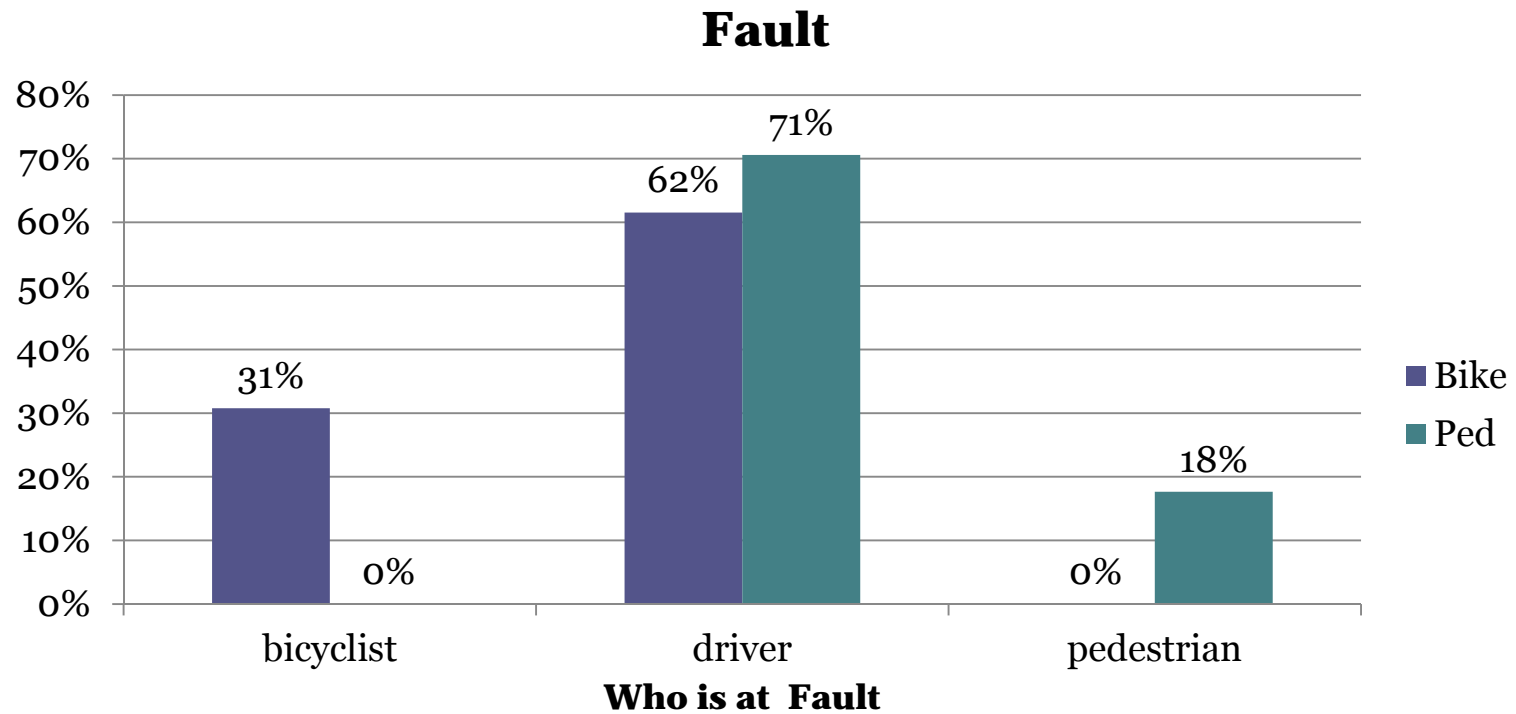
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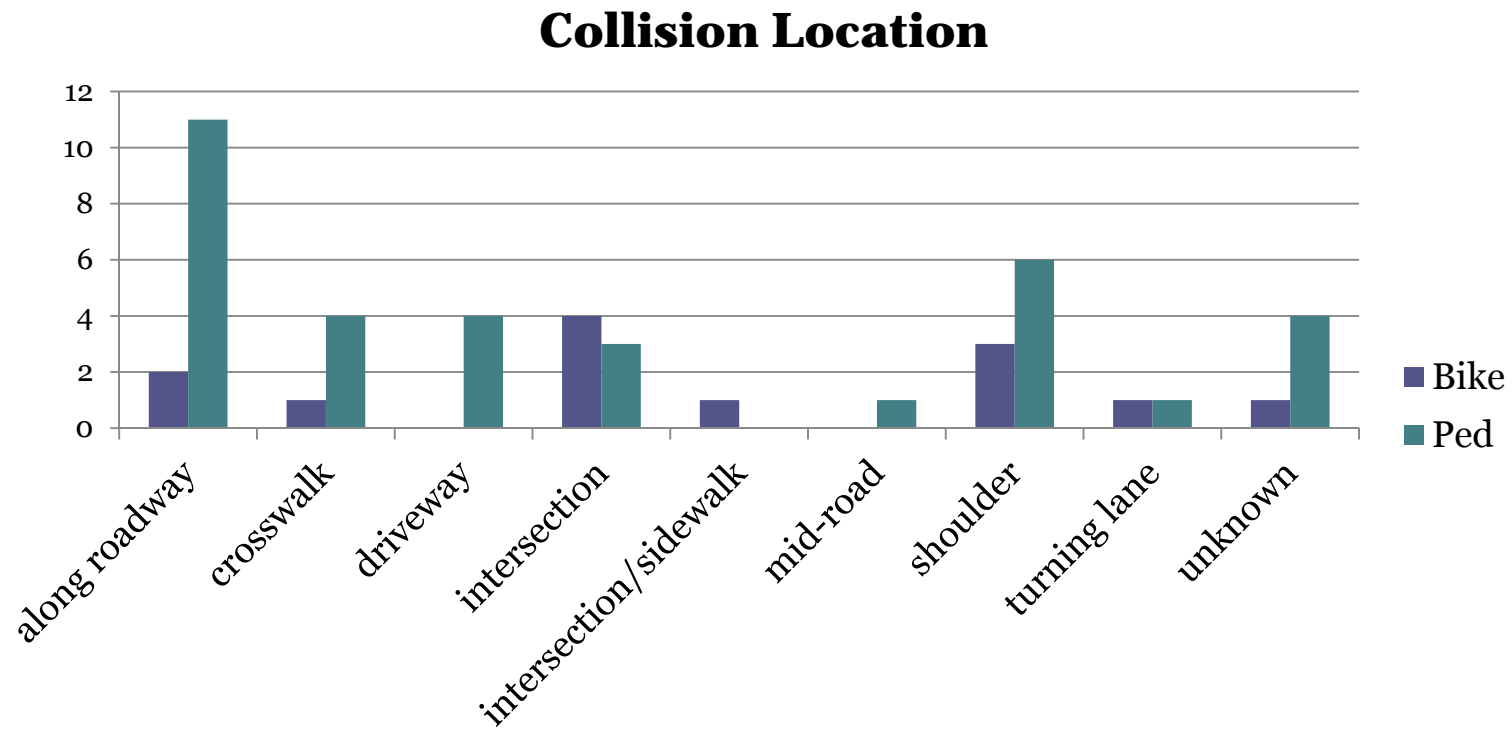
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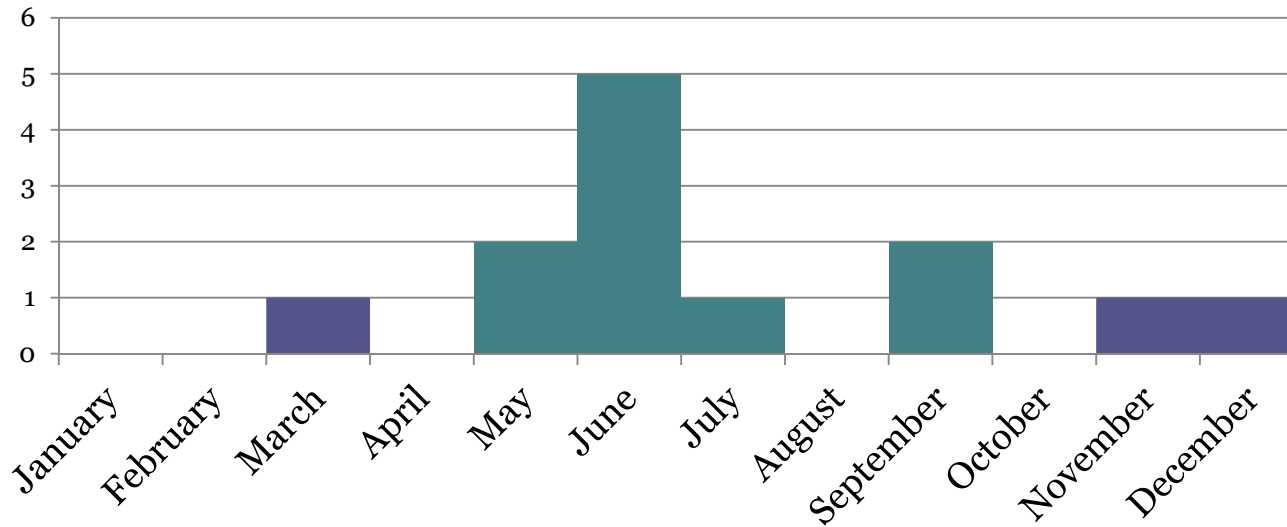
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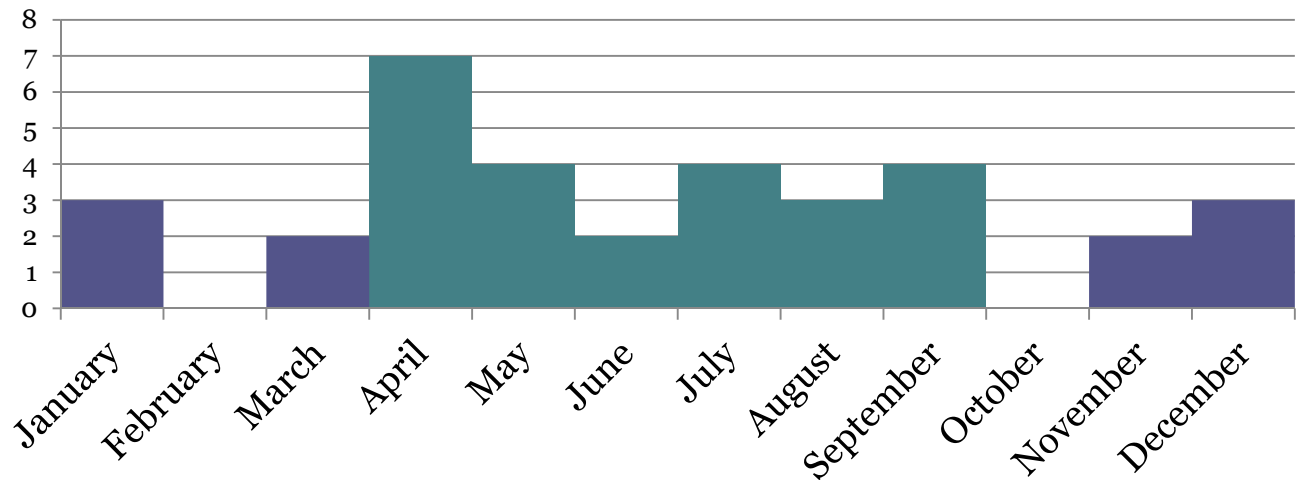
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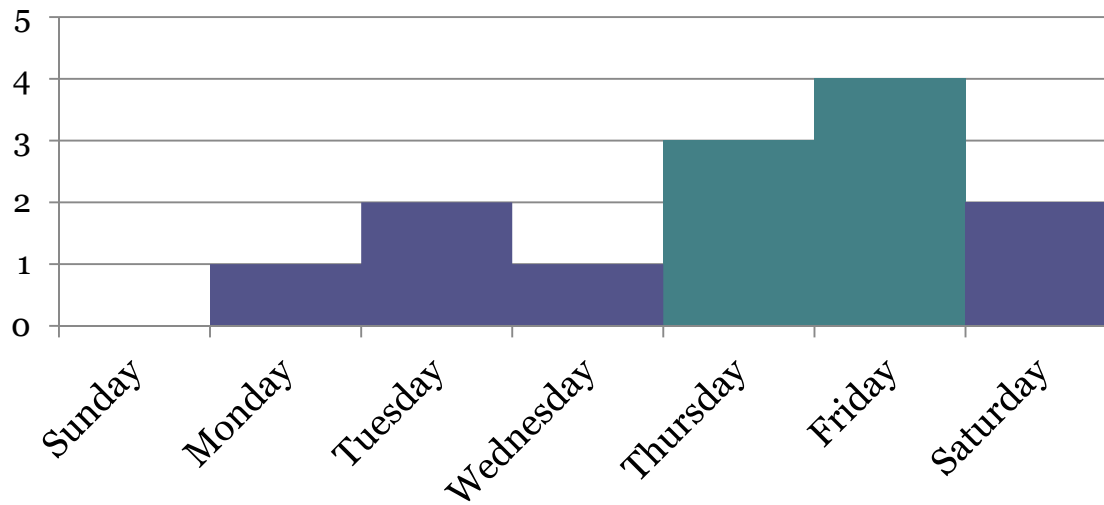
Bicycle Crash Frequency by Month



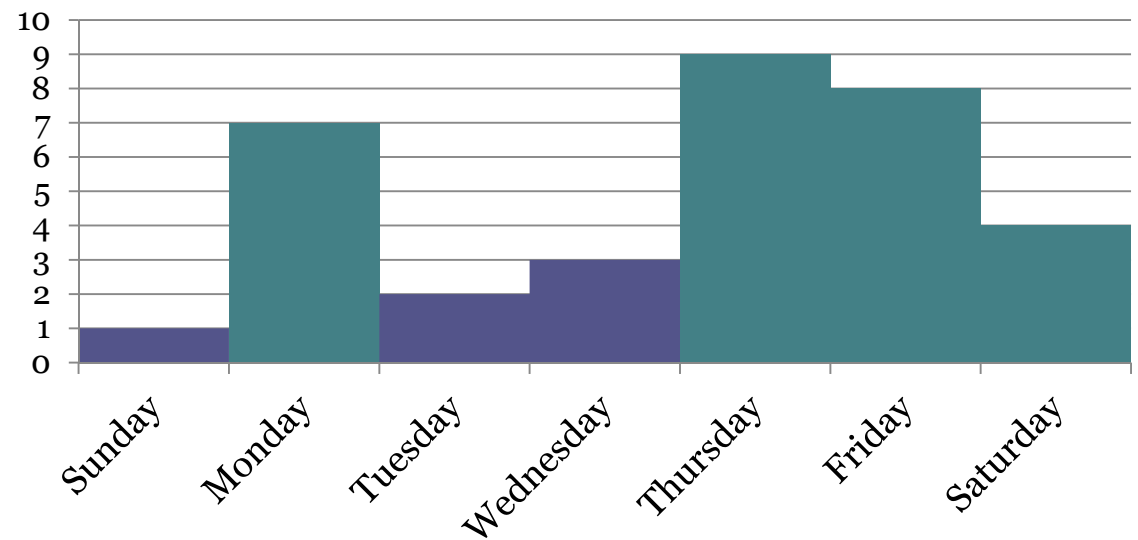
Pedestrian Crash Frequency by Month



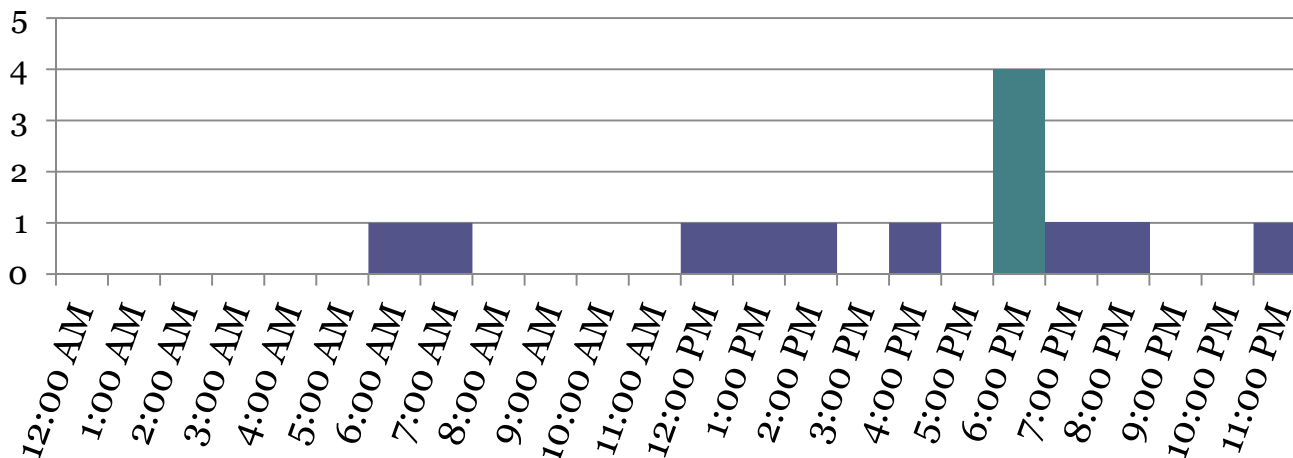
Bicycle Crash Frequency by Day



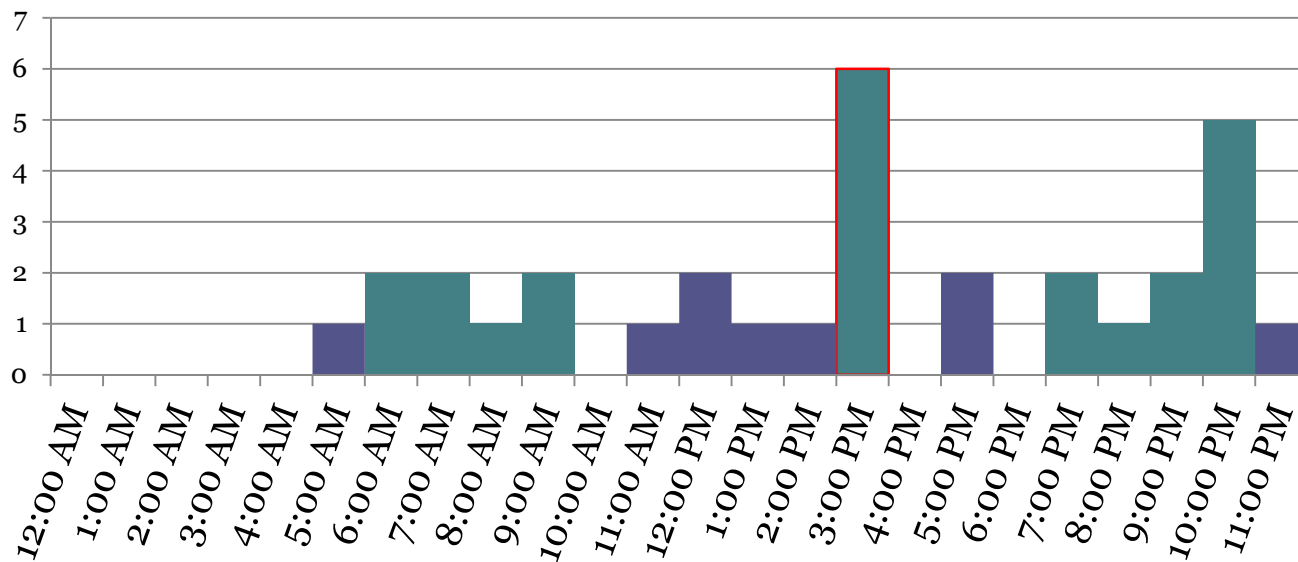
Pedestrian Crash Frequency by Day



Bicycle Crash Frequency by Hour

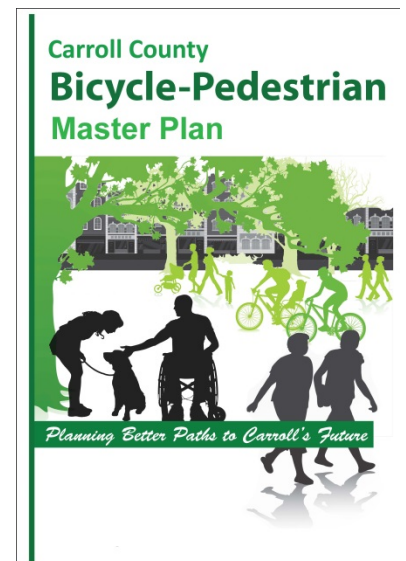


Pedestrian Crash Frequency by Hour



Outreach

- Commissioner Frazier
- Baltimore Metropolitan Council (BMC)
- Carroll County Sheriff Office
- Municipal Sheriff Offices
- Public Works
- County GIS Staff





Interest Survey

- Purpose
 - To determine the interest of those in Carroll County wishing to use bicycle and pedestrian facilities



Carroll County Bicycle-Pedestrian Interest Survey

* Required

In what City do you live? *

Select the city of your current residence.

What is your age? *

Select the range where your age falls.

- ☐ Under 18
- ☐ 18-24
- ☐ 25-34
- ☐ 35-44
- ☐ 45-54
- ☐ 55-64
- ☐ 65 and over

What is your sex? *

- ☐ Female
- ☐ Male

What is your family makeup? *

A family consists of two or more people (one of whom is the householder) related by birth, marriage, or adoption residing in the same housing unit. (U.S. Census)

- ☐ Single, no kids at home
- ☐ Married, no kids at home
- ☐ Single Parent, with kid(s) at home < 18 y/o
- ☐ Married, with kid(s) at home < 18 y/o
- ☐ 2 Parents, with kid(s) at home <18 y/o



Carroll County Bicycle-Pedestrian Interest Survey



Planning

Do you think Carroll County should plan for PEDESTRIAN trails that are accessible to the community as a mode of transportation?

- ☐ Yes
- ☐ No

Do you think Carroll County should plan for BICYCLE trails that are accessible to the community as a mode of transportation?

- ☐ Yes
- ☐ No

[illegible]

For a typical walk, what distance is comfortable for you? *

- ☐ Up to ¼ mile (5 min)
- ☐ Up to ½ mile (10 min)
- ☐ Up to 1 mile (20 min)
- ☐ Up to 1 ½ miles (30 min)
- ☐ Up to 2 miles (40 min)
- ☐ More than 2 miles
- ☐ Not Applicable

Where do you normally walk in Carroll County? Check all that apply. *

- ☐ Sidewalks
- ☐ Paved roads, no shoulder
- ☐ Shoulders of paved roads
- ☐ Unpaved roads
- ☐ Paths or trails (including parks)
- ☐ Grass or fields
- ☐ Not applicable
- ☐ Other:

In Carroll County, what keeps you from walking to a destination more often? Check all that apply. *

- ☐ Nothing. I have no problems walking in Carroll County.
- ☐ Destinations are too far.
- ☐ Terrain/topography
- ☐ I don't feel safe due to walking conditions/traffic
- ☐ I don't have trails or sidewalks/appropriately paved areas.
- ☐ Lack of adequate crosswalks
- ☐ I have physical limitations.
- ☐ Lack of curb ramps and other accessibility features for persons with disabilities
- ☐ I only walk for recreation/leisure
- ☐ I never thought about it before.
- ☐ Other:

**Which of the following improvements would influence you to walk more often in Carroll County?
Select all that apply. ***

- ☐ None. I never plan to walk in Carroll County.
- ☐ None. I have no problems walking in Carroll County.
- ☐ Improved sidewalks (fill in missing pieces, wider, etc.)
- ☐ More walking trails or paths
- ☐ Improved pedestrian crossings including signals, crosswalks, & warning signs
- ☐ Improved curb ramps and accessibility for people with disabilities
- ☐ Slower traffic
- ☐ Improved lighting and other security measures
- ☐ Increased education and enforcement of pedestrian traffic laws
- ☐ Other:

What factors are important when you choose to make a trip by walking? *

1 (one) being the Least Important and 5 (five) being the Most Important

	1	2	3	4	5
There is good infrastructure for walking where I want to go (sidewalks, crossings, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am within walking distance of many important destinations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agreeable weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motorists respecting pedestrians	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel like I am helping the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crossing roadways is safe and easy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking is a quick way to get around	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Walking saves me money	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please list any additional factors.

Let us know any additional comments you have about walking in Carroll County.



Carroll County Bicycle-Pedestrian Interest Survey

* Required

Biking

Do you ride a bike? *

- ☐ Yes
- ☐ No

Biking 2

Do you ride a bike in Carroll County? *

- ☐ Yes
- ☐ No

Biking Habits

Please select how often you bike, on average, to a destination in Carroll County for the following trip purposes. *

	Daily	A few times a week	Once a week	Two to Three times a month	Once a month	A few times a year	Rarely	I only bike in a location other than Carroll County	n/a
Leisure/Fun/Exercise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Shopping/Errands	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Commuting to work/school	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To get to Trail Blazer	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To visit family/friends	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other Destination	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Where do you normally ride a bike in Carroll County? Check all that apply. *

- ☐ Paved roads, on low traffic and low speed streets
- ☐ Paved roads, even if traffic speeds & volumes are higher
- ☐ Sidewalks
- ☐ Bicycle paths or walking paths/trails
- ☐ Shoulders of paved roads
- ☐ Bicycle lanes on paved roads
- ☐ Designated Bikeways
- ☐ Unpaved roads
- ☐ Other:

Biking Habits 2

What time frame is comfortable for you when riding a bike? *

- ☐ 0 - 30 minutes
- ☐ 31 - 60 minutes
- ☐ 61 - 120 minutes
- ☐ 121 minutes or longer

What factors are important when you choose to make a trip by biking? *

1 (one) being the Least Important and 5 (five) being the Most Important

	1	2	3	4	5
There is good infrastructure for biking where I want to go (sidewalks, crossings, etc.)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I am within biking distance of many important destinations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Agreeable weather	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Motorists respecting bicyclists	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
I feel like I am helping the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Crossing roadways is safe and easy	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycling is a quick way to get around	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bicycling saves me money	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Bicycle Facilities and Use

What keeps you from riding a bike to a Carroll County destination more often? Check all that apply. *

- ☐ Nothing. I have no problems biking in Carroll County.
- ☐ Destinations are too far.
- ☐ The hills are too steep.
- ☐ I don't feel safe due to road conditions/traffic.
- ☐ There is a lack of bicycle facilities (bike lanes, paths, wide shoulders, etc.).
- ☐ I have physical limitations.
- ☐ I only bike for recreation/leisure
- ☐ I never thought about it before.
- ☐ Other:

Which of the following improvements would influence you to bike more often in Carroll County? Select all that apply. *

- ☐ None. I never plan to bike in Carroll County.
- ☐ None. I have no problems biking in Carroll County.
- ☐ Bicycle lanes
- ☐ Off-road paths
- ☐ Paved shoulders
- ☐ Wide outside lanes (share lane with cars)
- ☐ More on-road bicycle signage (share the road/bike may use full lane)
- ☐ Better access to Trail Blazer
- ☐ Slower traffic
- ☐ Increase enforcement of traffic laws
- ☐ Education for yourself on how to ride with motor vehicle traffic
- ☐ Education for motorists on how to drive with bicyclists
- ☐ Better bicycle parking, storage, and workplace amenities (showers)
- ☐ More & better bicycle route wayfinding
- ☐ Improved lighting and other security measures
- ☐ Other:

Let us know any additional comments you have about biking in Carroll County.



Carroll County Bicycle- Pedestrian Interest Survey

Thank you for taking the time to fill out our survey!
Results will be published in March 2016.

Carroll County Bicycle-Pedestrian Master Plan



URL

Interest Survey

Planning Better Paths to Carroll's Future

Carroll County is embarking on a countywide Bicycle-Pedestrian Master Plan.

Please help us gauge public interest in these facilities by taking our online survey.

URL

Available January 1 - March 1, 2016

Come back in March for results.

Want to be part of the plan?
Subscribe to email notifications at:

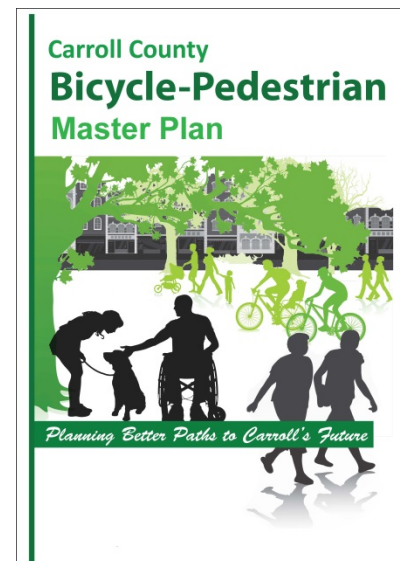
URL



DEPARTMENT OF PLANNING
Planning for success in Carroll County
225 N. Center Street
Westminster, MD 21157
410-386-2145

Next Steps

- Survey Release
 - January – March 2016
- Chapter Drafts
- Mapping and Analysis
- Reaching out to other relevant agencies
 - Carroll County Bicycle Advocacy Committee
 - Citizen Services
 - Suggestions?



Questions?

