Making Delaware the most Bicycle Friendly State

Anthony Aglio
DelDOT Bicycle Coordinator

League of American Bicyclists State Rankings

80 Question Application

* Legislation & Enforcement
* Policies & Programs
* Infrastructure & Funding
* Education & Encouragement
* Evaluation & Planning

State Rankings

* ***2008: Ranked #31***
* 2009: Ranked **#9**
* 2010: Ranked **#10**
* 2011: Ranked **#18**
* 2012: Ranked **#10**
* ***2013: Ranked #5***
* 2014: Ranked **#4**

2014 State Ranking

BICYCLE FRIENDLY STATE 2014 Ranking

Key: Percent of total points available attained by state

80-100%	60-80%	40-60%	20-40%	0-20%

			Points out of 100		Scoring Criteria				
STATE	2014 Rank	2013 Rank	2014 Points	2013 Points	Legislation & Enforcement	Policies & Programs	Infrastructure & Funding	Education & Encouragement	Evaluation & Planning
Washington	1	1	66.8	66.2					
Minnesota	2	4	62.0	56.6					
Wisconsin	3	8	56.9	52.1					
Delaware	4	5	55.7	53.9					
Oregon	5	3	55.2	57.7					
Colorado	6	2	54.1	60.7					
Maryland	7	11	53.8	50.5					
Utah	8	14	53.72	43.1					
California	9	19	53.68	37.6					
Massachusetts	10	6	53.66	53.7					

2014 State Ranking

Infrastructure and Funding

* Transportation Alternatives Program (TAP) funds are spent promptly on bicycling and walking projects, and not transferred.
* Previous years' Transportation Enhancements, Safe Routes to School, and Recreational Trails dollars are being spent on bicycling and walking projects.
* The state uses the full range of federal funding sources on bicycling and walking projects, including:
  * Surface Transportation Program (STP)
  * Congestion Mitigation and Air Quality Improvement Program (CMAQ)
  * Highway Safety Improvement Program
  * Section 402 State and Community Highway Safety Grants
* The state commits state revenue for bicycle and pedestrian projects and programs.
* The whole state highway network has paved shoulders and bike lanes at least 4 feet wide.
* There are many miles of bicycle trails.
* The state uses physical activity as a criteria in project selection and uses Health Impact Assessments.
* The state bicycle route system is signed and marked, is part of the US Bike Route System, and included on an available map.
* Bicycles are allowed on Amtrak trains, regional passenger rail, and state operated buses.

Evaluation and Planning

* More than 1 percent of commuters bike to work.
* State conducts household travel surveys for all trips.
* The state conducts counts of bike/ped/transit/multimodal commuting.
* There are few bicyclist fatalities.
* Bicycle and pedestrian safety are emphasis areas in the state Strategic Highway Safety Plan.
* The state has up to date statewide bicycle and pedestrian plans and is making progress towards implementing them.
* The state has statewide mountain bike trail plan, a trails master plan, and an MOU/MOA regarding mountain bike trails.
* A state bicycle, pedestrian, and/or Safe Routes to School advisory committee meets regularly, with inclusive and interagency participation.
* There are published goals and/or performance measures to increase biking and walking and decrease bicyclist and pedestrian fatalities.
* There is a statewide study on the economic impact of bicycling and walking.
* The plan for reducing carbon emissions encourages bicycle use.

Governor Markell's Challenge

2012 A Bold Challenge:

Create a world-class statewide network of pathways and trails for Delaware's citizens and visitors, to promote biking, hiking, walking and active living.

- Expand the connections between neighborhoods, towns and cities to create more vibrant and active communities.
- Create healthy communities by providing safe and affordable transportation and recreational trail choices.
- Develop new strategies for ongoing maintenance and upgrading of existing trails.

2012 A Bold Challenge:

The Ball Has Been Tossed

* **1st State Trails and Pathways Program**

  "world-class statewide network of pathways and trails"
* **Create Healthy Complete Communities**
* **Complete Projects**
* **Meeting the needs of all users within the current system**

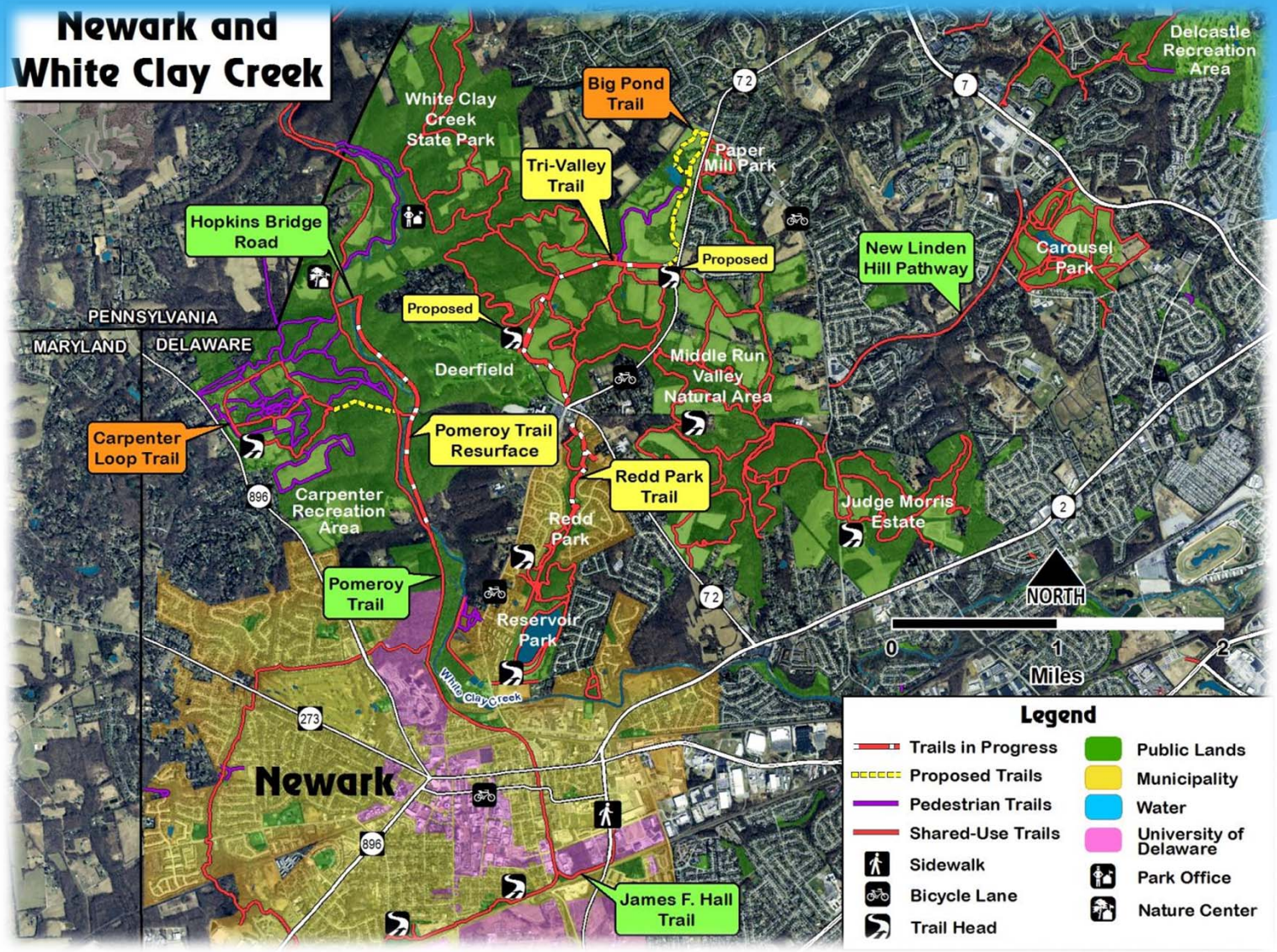
Answering The Call

Trails and Pathways (New Castle County)

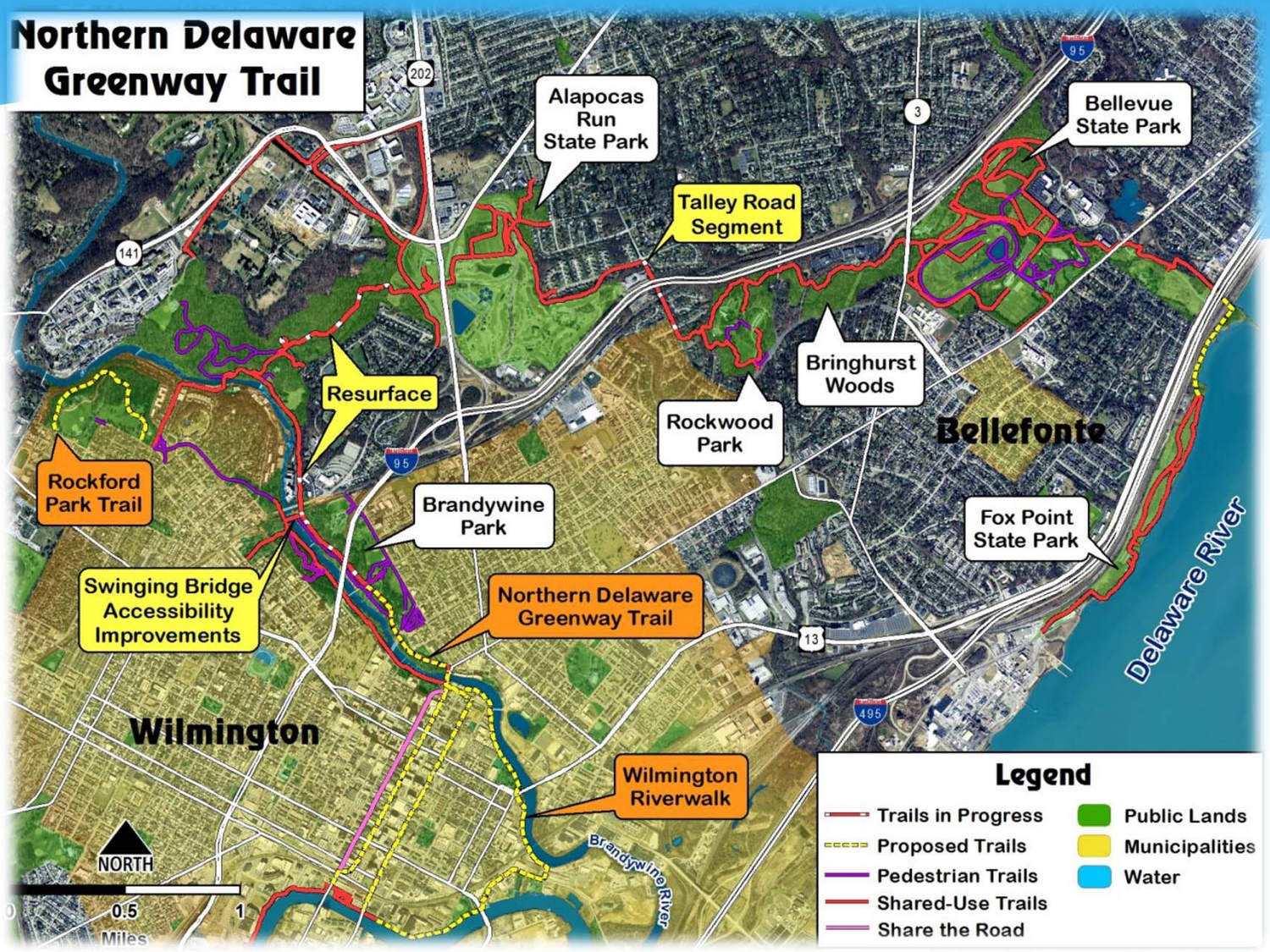
- Pomeroy Trail
- Northern DE Greenway (Talley Rd)
- New Castle Industrial Track
- 273 Pathway
- Michael Castle Trail on the C & D

Systems

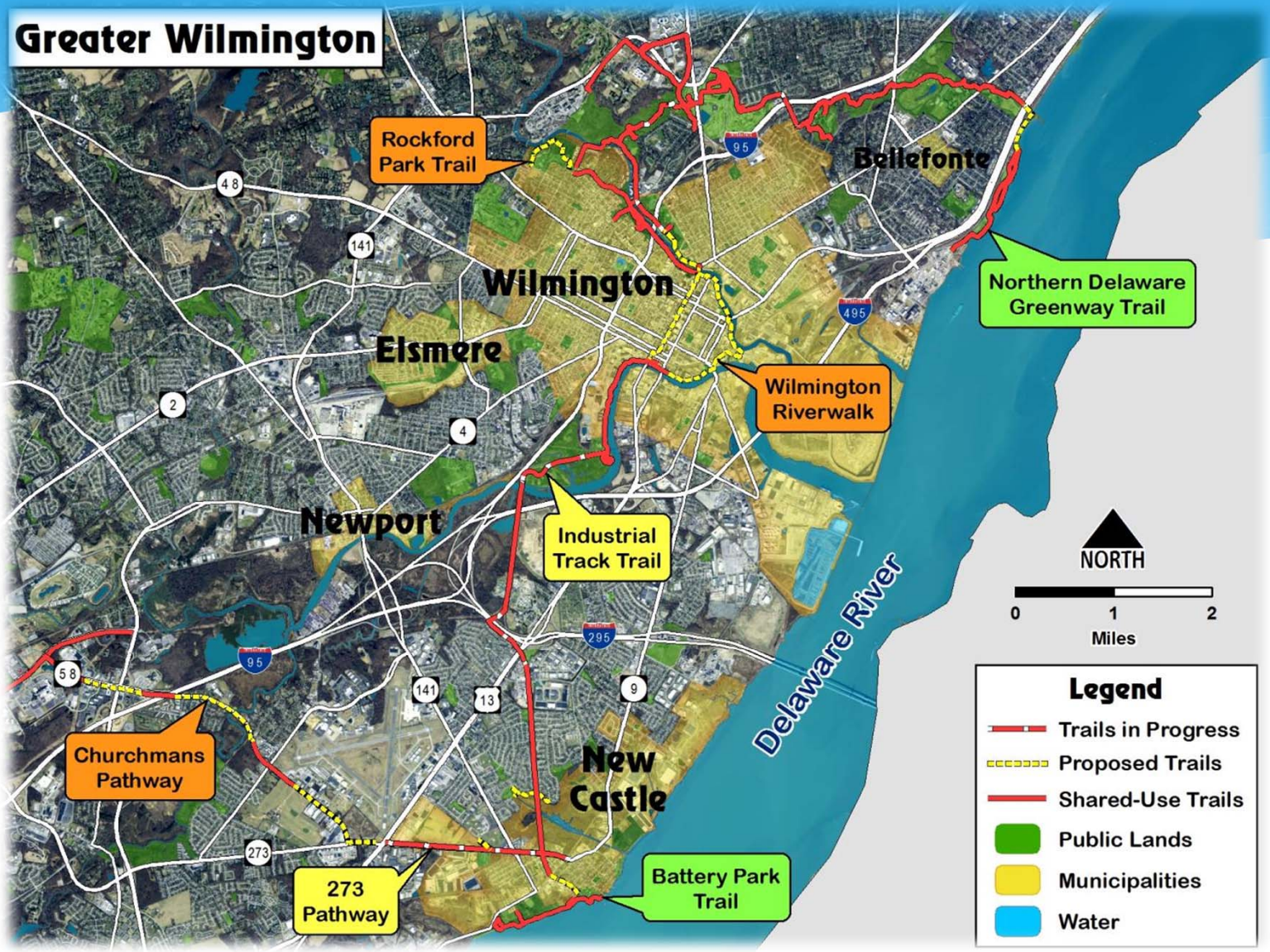
Systems


Newark and White Clay Creek
White Clay Creek State Park
Big Pond Trail
Tri-Valley Trail
Paper Mill Park
Delcastle Recreation Area
Hopkins Bridge Road
New Linden Hill Pathway
Carousel Park
Proposed
Proposed
PENNSYLVANIA
MARYLAND
DELAWARE
Deerfield
Middle Run Valley Natural Area
Carpenter Loop Trail
Pomeroy Trail Resurface
Redd Park Trail
Carpenter Recreation Area
Redd Park
Judge Morris Estate
Pomeroy Trail
Reservoir Park
NORTH
0
1
2
Miles
White Clay Creek
Newark
James F. Hall Trail
Legend
Trails in Progress
Proposed Trails
Pedestrian Trails
Shared-Use Trails
Sidewalk
Bicycle Lane
Trail Head
Public Lands
Municipality
Water
University of Delaware
Park Office
Nature Center

Systems


Northern Delaware Greenway Trail
Alapocas Run State Park
Talley Road Segment
Bellevue State Park
Resurface
Bringhurst Woods
Rockwood Park
Bellefonte
Rockford Park Trail
Brandywine Park
Fox Point State Park
Delaware River
Swinging Bridge Accessibility Improvements
Northern Delaware Greenway Trail
Wilmington
Wilmington Riverwalk
Brandywine River
NORTH
0.5
1
Miles
Legend
Trails in Progress
Proposed Trails
Pedestrian Trails
Shared-Use Trails
Share the Road
Public Lands
Municipalities
Water

Systems


Greater Wilmington
Rockford Park Trail
Bellefonte
Northern Delaware Greenway Trail
Wilmington
Elsmere
Wilmington Riverwalk
Newport
Industrial Track Trail
Delaware River
NORTH
0
1
2
Miles
Legend
Trails in Progress
Proposed Trails
Shared-Use Trails
Public Lands
Municipalities
Water
Churchmans Pathway
New Castle
273 Pathway
Battery Park Trail

Answering The Call

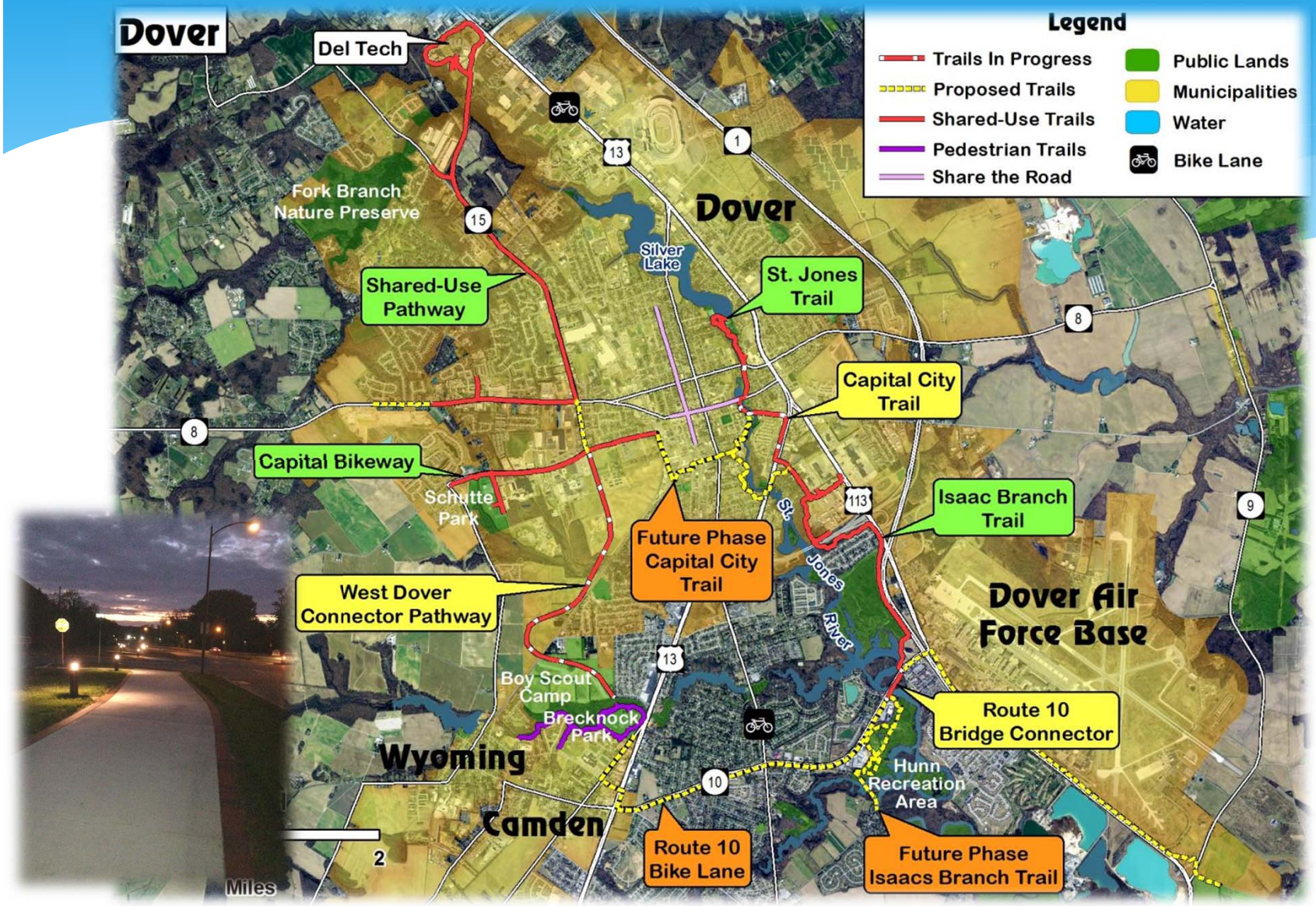
Trails and Pathways (Kent County)

Capital City Trail Phase I,II & III

Milford Riverwalk

Route 10 Bridge Connector

Systems


Legend
Trails In Progress
Proposed Trails
Shared-Use Trails
Pedestrian Trails
Share the Road
Public Lands
Municipalities
Water
Bike Lane
Dover
Del Tech
Fork Branch Nature Preserve
Dover
Silver Lake
Shared-Use Pathway
St. Jones Trail
Capital City Trail
Capital Bikeway
Schutte Park
Future Phase Capital City Trail
Isaac Branch Trail
St. Jones River
West Dover Connector Pathway
Dover Air Force Base
Boy Scout Camp
Brecknock Park
Route 10 Bridge Connector
Wyoming
Hunn Recreation Area
Camden
Route 10 Bike Lane
Future Phase Isaacs Branch Trail
2
Miles

Answering The Call

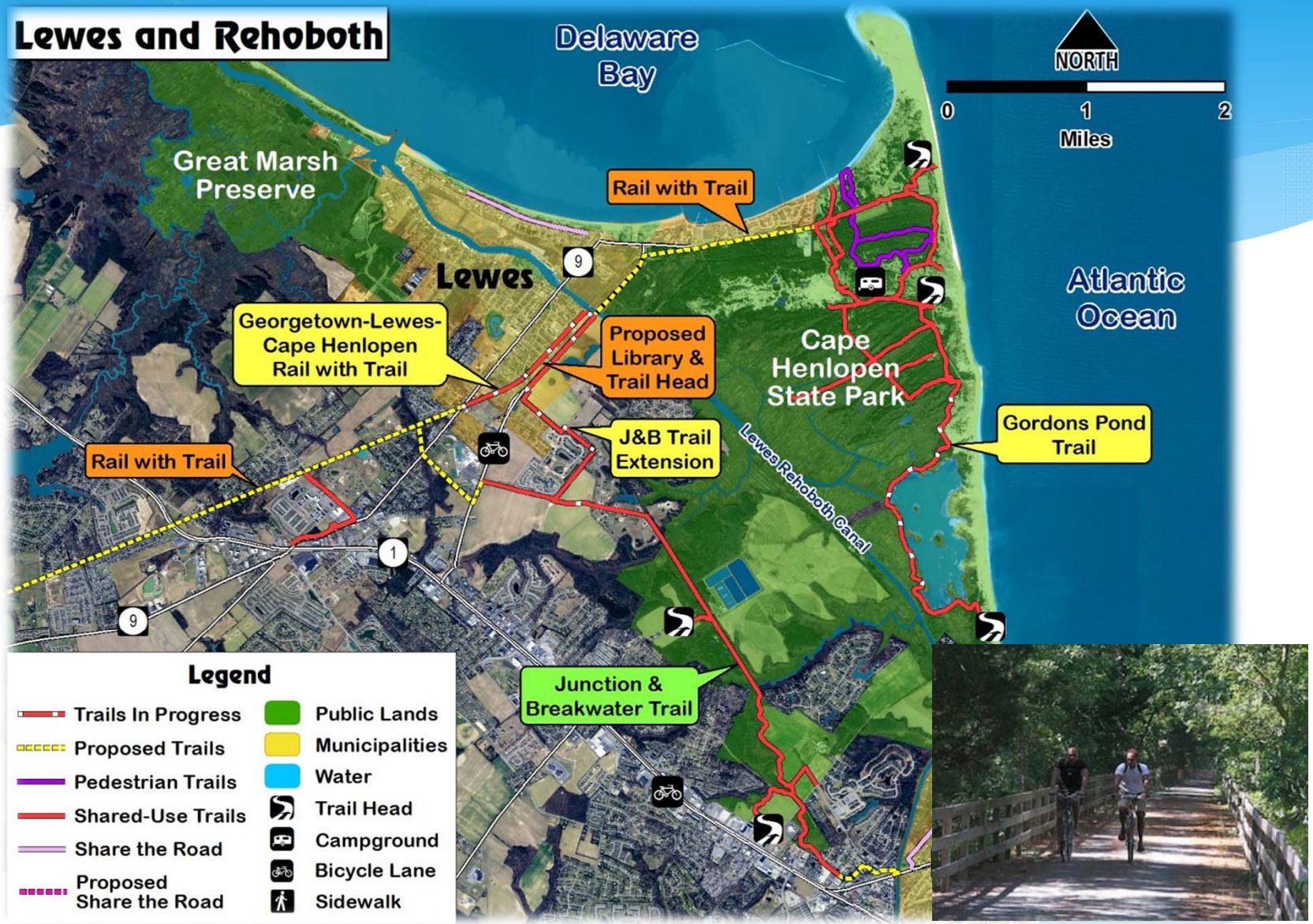
Trails and Pathways (Sussex County)

Junction Breakwater Extension

Fred Hudson Pathway

Georgetown to Lewes Rail with Trail

Systems


Lewes and Rehoboth
Delaware Bay
NORTH
0
1
2
Miles
Great Marsh Preserve
Rail with Trail
Lewes
9
Atlantic Ocean
Georgetown-Lewes-Cape Henlopen Rail with Trail
Proposed Library & Trail Head
Cape Henlopen State Park
J&B Trail Extension
Gordons Pond Trail
Rail with Trail
Lewes Rehoboth Canal
1
9
Junction & Breakwater Trail
Legend
Trails In Progress
Proposed Trails
Pedestrian Trails
Shared-Use Trails
Share the Road
Proposed Share the Road
Public Lands
Municipalities
Water
Trail Head
Campground
Bicycle Lane
Sidewalk

Answering The Call

Every Mode Projects

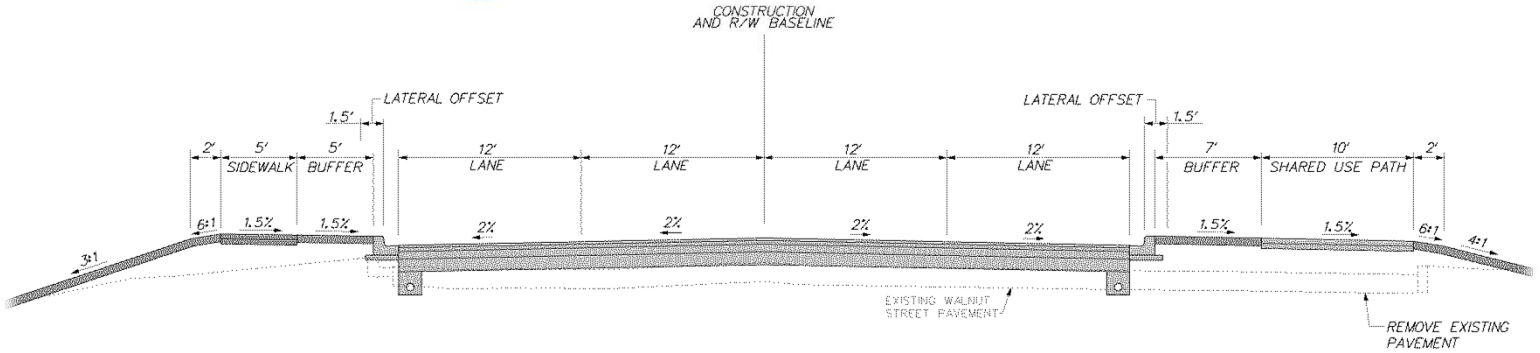
Elkton Rd

Claymont

Indian River Bridge

West Dover Connector

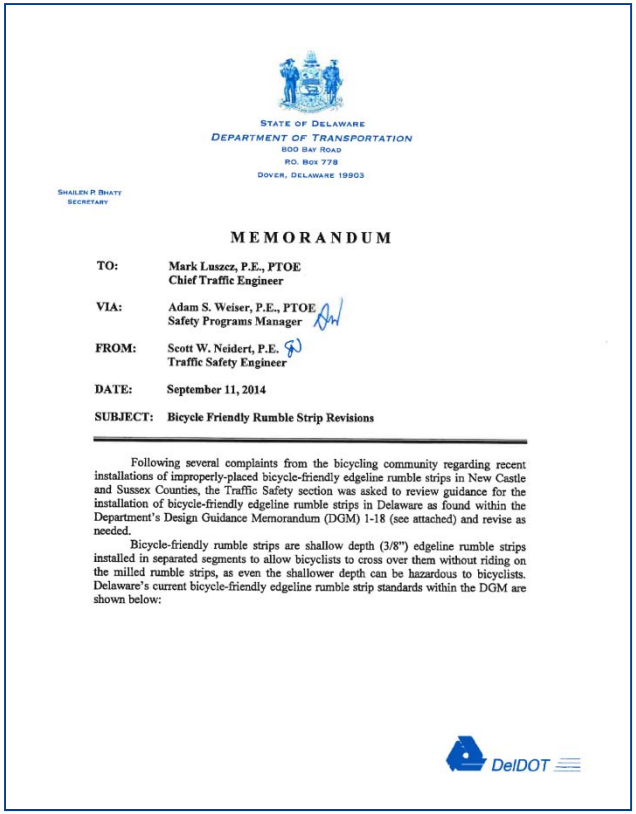
Christina River Bridge



Answering The Call

Responsiveness to Complaints

- Sweeping
- Share the Road Signage
- Rumble Strip Design Guidance
- Tar and Chip Stone Pile Sweeping



STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION
800 BAY ROAD
P.O. BOX 778
DOVER, DELAWARE 19903

SHAILEN P. BHATT
SECRETARY

MEMORANDUM

TO: Mark Luszcz, P.E., PTOE
Chief Traffic Engineer

VIA: Adam S. Weiser, P.E., PTOE
Safety Programs Manager

FROM: Scott W. Neidert, P.E.
Traffic Safety Engineer

DATE: September 11, 2014

SUBJECT: Bicycle Friendly Rumble Strip Revisions

Following several complaints from the bicycling community regarding recent installations of improperly-placed bicycle-friendly edgeline rumble strips in New Castle and Sussex Counties, the Traffic Safety section was asked to review guidance for the installation of bicycle-friendly edgeline rumble strips in Delaware as found within the Department's Design Guidance Memorandum (DGM) 1-18 (see attached) and revise as needed.

Bicycle-friendly rumble strips are shallow depth (3/8") edgeline rumble strips installed in separated segments to allow bicyclists to cross over them without riding on the milled rumble strips, as even the shallower depth can be hazardous to bicyclists. Delaware's current bicycle-friendly edgeline rumble strip standards within the DGM are shown below:

DelDOT

Things To Work On

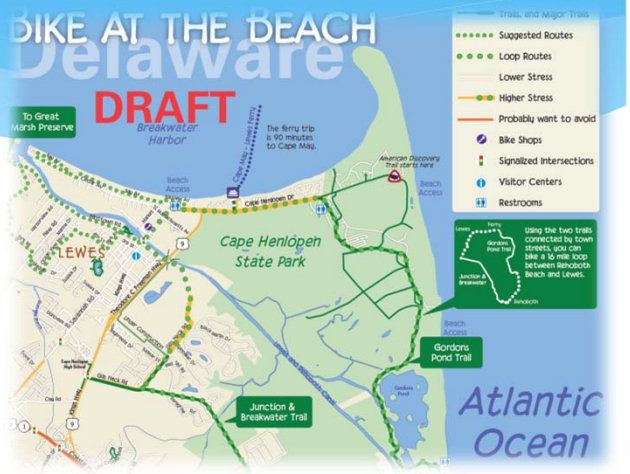
What we are still getting complaints about

- Pork Chop Island Placement
- Tying in Facilities
- Lack of Signage & Markings for Bicyclists

Rolling On – Moving Forward

Ensure we are meeting needs of all users

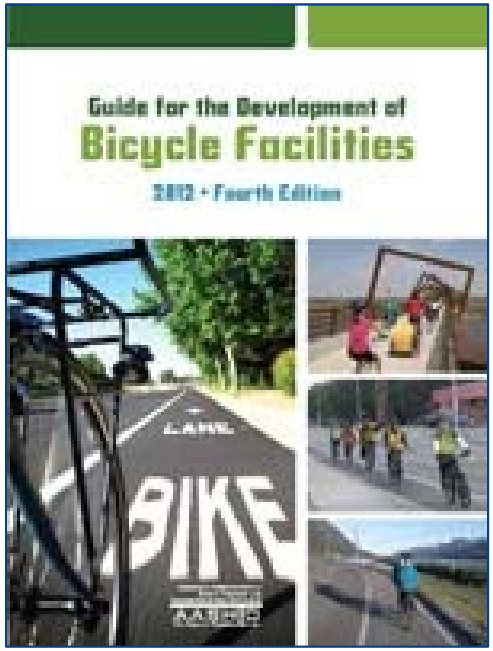
- Developing Networks for bicyclists
  - Lowering Traffic Stress
    - Using low volume low and low speed streets
    - Separating Bicycles from high speed traffic
    - Trail and Pathway connections

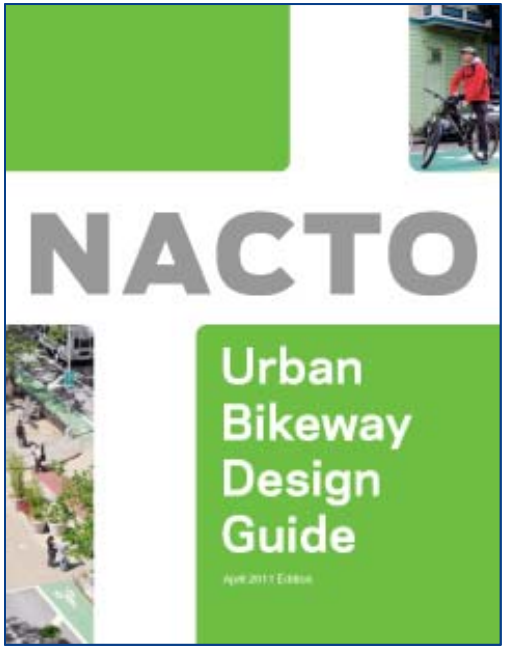


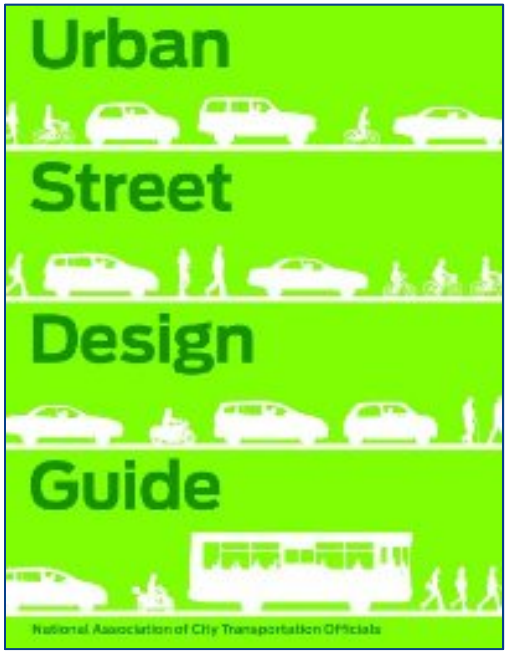
Rolling On – Moving Forward

Ensure we are meeting needs of all users

* Using New Guidance Documents for Bicycle Facilities



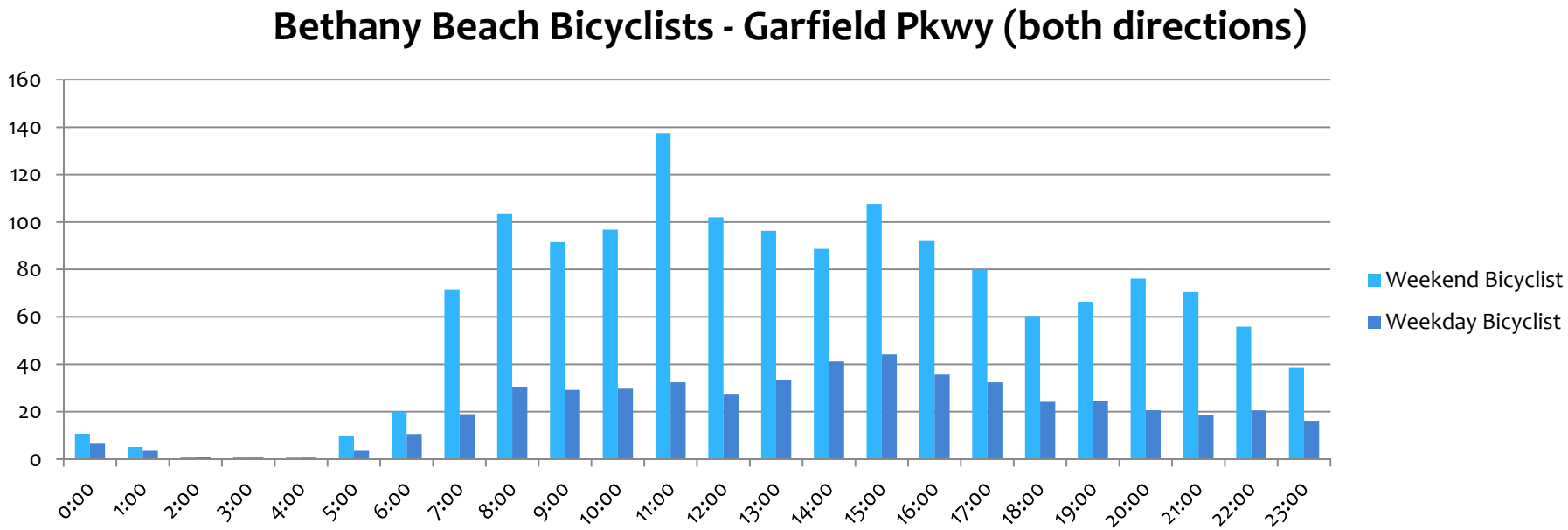




Rolling On – Moving Forward

Ensure we are meeting needs of all users

* Bicycle and Pedestrian Counting



Rolling On – Moving Forward

Ensure we are meeting needs of all users

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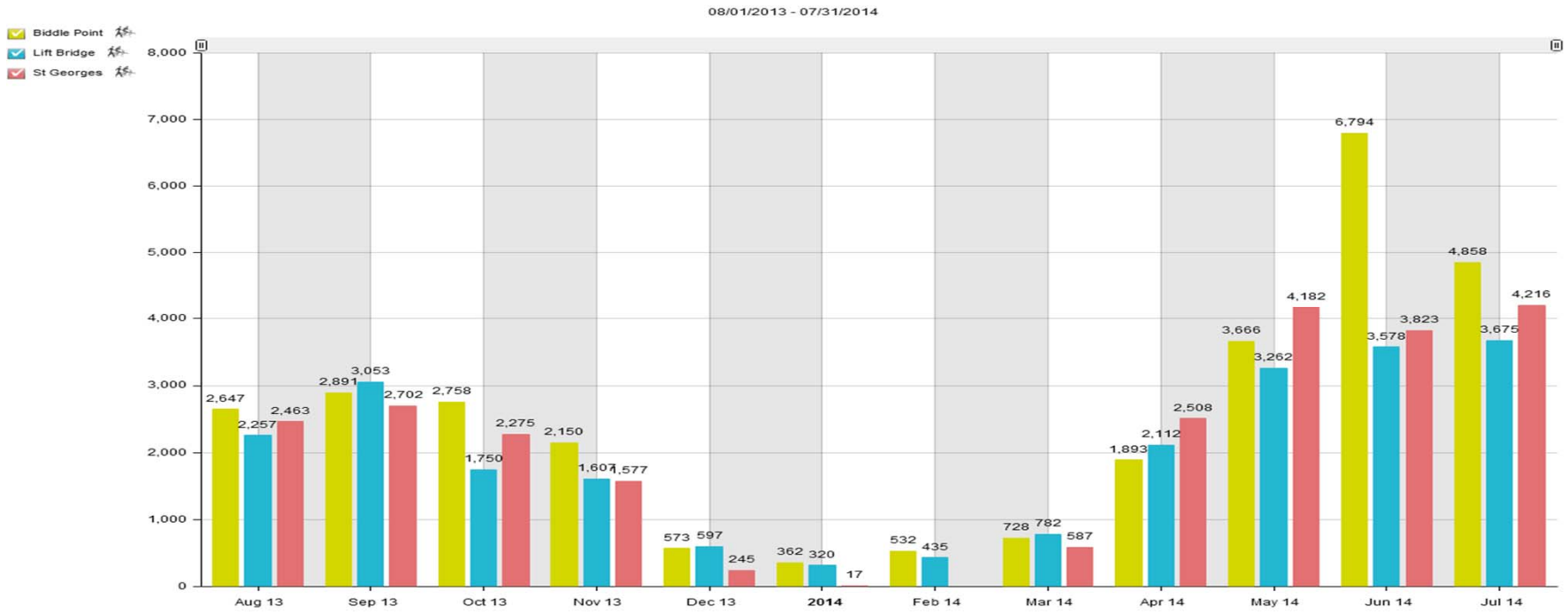
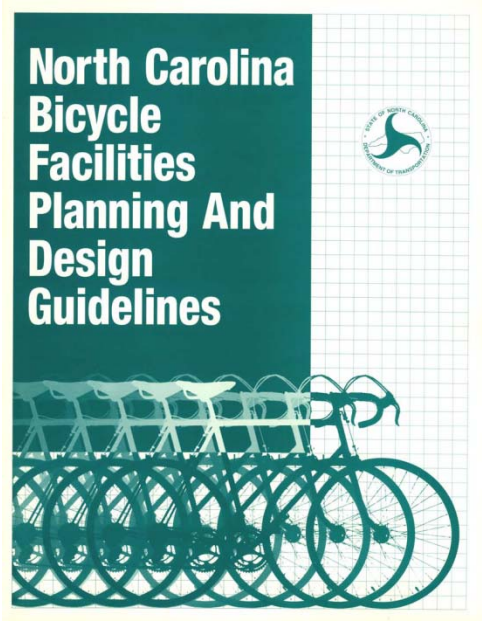
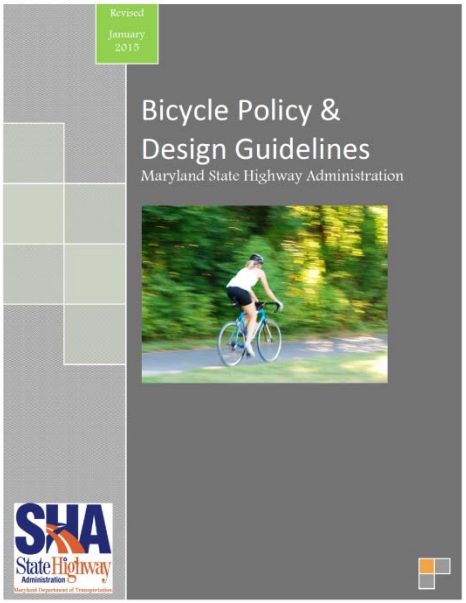


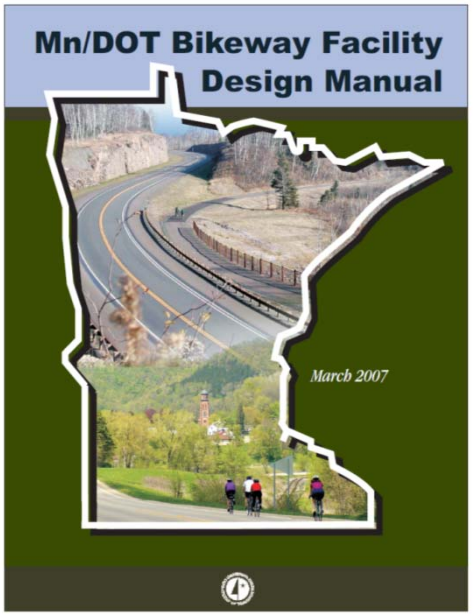
Rolling On – Moving Forward

Ensure we are meeting needs of all users

* Improving & Incorporating Bicycle Design Guidance







Thanks

Information
Anthony.Aglio@state.de.us
760-2509

Bike Maps available at DelDOT.gov