



# Presentation to the Five Points Transportation Study Working Group

**July 27, 2020**

# DeIDOT bicycle program

- **Bicycle-friendly accomplishments**
- **What DeIDOT has done to support bicycling and to improve infrastructure and safety**
- **Trail crossings at roadways**
- **Bicycle safety countermeasures**
- **Delaware bicycle laws**
- **Connections to trails**

# BICYCLE-FRIENDLY ACCOMPLISHMENTS



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# Bicycle-friendly accomplishments



## BICYCLE FRIENDLY STATE

- 2008 - #31
- 2009 - #9
- 2010 - #10
- 2011 - #18
- 2012 - #10
- 2013 - #5
- 2014 - #4
- 2015 - #3
- 2016 - #3
- 2017 - #7
- 2018 - #7
- 2019 - #6



## Bicycle-Friendly Communities



# Bicycle-friendly accomplishments



**City of Newark**

**Delaware Department  
of Transportation**

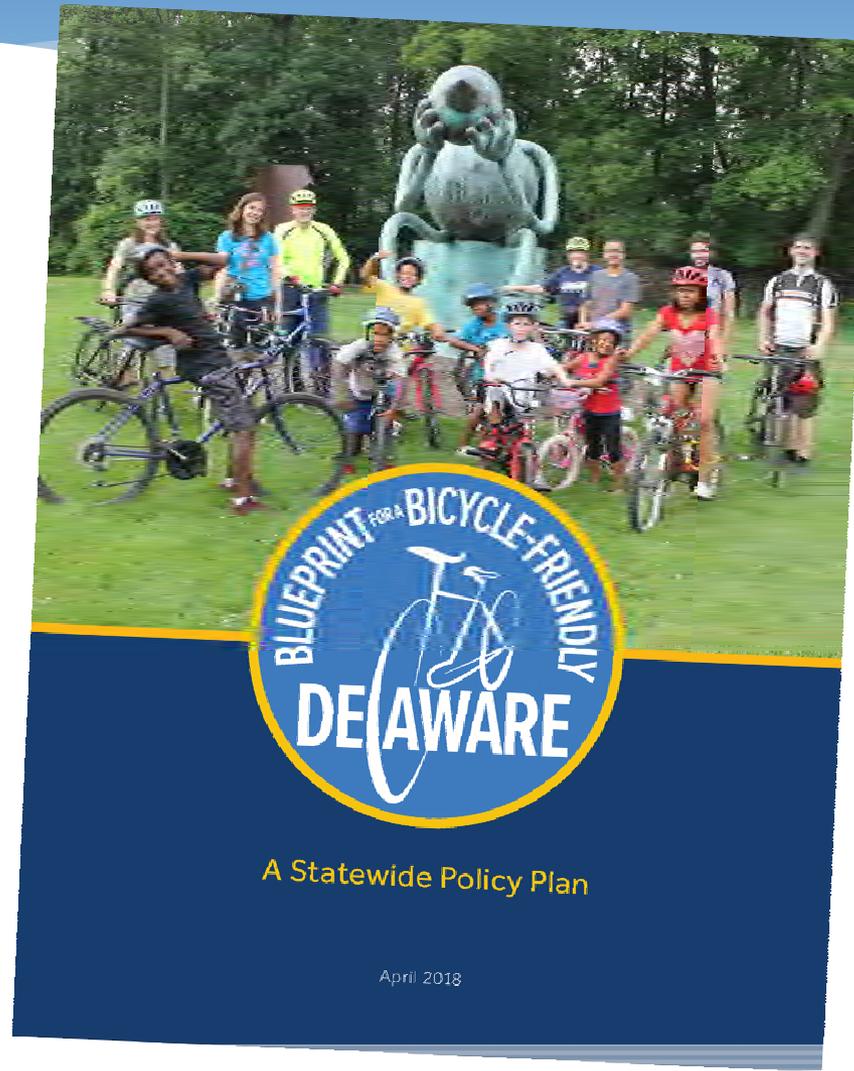
# BICYCLING SUPPORT, INFRASTRUCTURE AND SAFETY IMPROVEMENTS



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# Support, infrastructure, safety



# BIKE AT THE BEACH

## Delaware



Map at [www.bikeatthebeach.com](http://www.bikeatthebeach.com)

Use this map online at [bikeatthebeach.com](http://bikeatthebeach.com), and please leave feedback!





# Junction & Breakwater Trail



# Georgetown-Lewes Trail



# Georgetown-Lewes Trail



# Cape Henlopen State Park



# Savannah Road



## Route 1 sidewalks



# Division of Transportation Solutions <sup>17</sup>

- **Plantation Road Improvements, Robinsonville Road to US 9**
- **Realignment of Old Orchard Road at Wescoats Corner**
- **SR 1, Minos Conaway Road Grade Separated Intersection**

# CROSSINGS



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# Crossings



Old Orchard Road



Minos Conaway Road

# BICYCLE SAFETY



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# Bicycle safety



**Obeying Bicycle Laws Will Keep You Safe!**

Riding a bicycle is a great way to get exercise and see the beautiful sights of the First State! While on your bike, however, keep in mind that there are certain laws that every cyclist must follow. These laws ensure the safety of the cyclists, motorists, and pedestrians.

Bicycle safety laws are strictly enforced in Delaware, so be sure to study them carefully!

For Delaware bicycle laws go to [www.deldot.gov/Programs/bike](http://www.deldot.gov/Programs/bike)

**Bicycle Maps**  
*are available from this:*

**Delaware Department of Transportation**

800 Bay Road  
Dover, DE 19903  
800-652-5600

[www.deldot.gov/Programs/bike](http://www.deldot.gov/Programs/bike)



**Bicycle Riders.... Know the Law Before You Ride!**




**Delaware is Serious About Enforcing Bike Safety Laws**

- Use Hand Signals**  

- Right Way to Turn Left**  
 Ride on right, carefully move to the left of the lane for left hand turn.  

- Always Ride in the Same Direction as Traffic**  

- Use Proper Safety Equipment**  


- Obey All Traffic Signs & Signals**  

- Don't Drink & Ride!**  
 Drinking and driving laws are the same for cars and bikes. Do not use a cell phone when riding a bike.
- Headphones Must Not Cover Both Ears!**  


# BICYCLE LAWS



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# Bicycle laws

- Delaware's bicycle laws are found in Title 21 of the Delaware Code, Chapter 41, Subchapter XII
- They are summarized in the Delaware Bicycle Laws brochure at [www.deldot.gov/programs/bike](http://www.deldot.gov/programs/bike)
- Today we'll focus on key parts of the Bicycle Friendly Delaware Act of 2017



## Delaware Bicycle Laws

21. When riding at night, a bicycle shall be equipped with reflective material visible from both sides for at least 500 feet, or a lighted lamp visible from both sides for at least 500 feet, from a motor vehicle with lawful low beam head lamps.

22. A bicycle and its rider may be equipped with additional lights and reflectors.

23. A bicycle shall be equipped with brakes that are capable of stopping the bicycle within 25 feet from a speed of 10 mph on dry, smooth, level pavement.

24. A bicycle sold at retail shall have a permanent identification number stamped or cast on its frame.

25. Persons riding a bicycle shall not wear ear or a headset covering both ears. Persons who are hard of hearing should wear a hearing aid while riding a bicycle.

26. Human powered vehicles are activated by means of foot pedals and the driver normally rides astride.

Adult cycles are included but all children's cycles are excluded as are all toys and all vehicles that require the driver to place a foot on the ground to cause motion.



27. Persons shall not ride a bicycle on a highway while under the influence of intoxicating liquor and/or narcotic drugs to a degree which renders such a person a hazard.

28. Bicycle racing on a highway shall only be permitted when approved by DeDOT or local authorities.

29. Persons involved in a bicycle race that has been approved by DeDOT may be exempted from compliance with traffic laws provided that traffic control is adequate to assure the safety of all highway users.

30. "Delaware Yield" permits bicyclists to yield at stop signs (when the coast is clear) instead of requiring a complete stop. Bicyclists are still required to stop a red light.

Other Considerations

Bicyclists should be aware of their surroundings and the effect their travel might have on others. For example, if a bicyclist notices that a line of vehicles has formed behind the bicycle because it is moving more slowly than other vehicles using the road, the bicyclist should turn off the roadway at a safe location in order to permit the other vehicles to proceed.



## Delaware Bicycle Laws

August 2018



**For More Information please contact:**  
 The Delaware Department of Transportation  
 Statewide and Regional Planning  
 P.O. Box 778  
 800 Bay Road  
 Dover, DE 19903  
 (302) 760-2133

Or visit the Delaware Bicycle Council website at  
[www.delbicycledc.org/TCouncilmembers](http://www.delbicycledc.org/TCouncilmembers)

### Title 21, Delaware Code, Chapter 41, Subchapter XII

1. Parents and guardians shall not authorize or permit violation of these laws by the child or ward.

2. Persons riding a bicycle shall have all the rights and responsibilities as drivers of other vehicles.

3. No bicycle shall carry more persons than it was designed to carry, except an adult rider which may carry a child securely attached in a backpack or sling.

4. Persons under 18 years of age must wear a properly fitted and fastened bicycle helmet while operating or riding upon a bicycle on any property open to the public or used by the public for vehicular or pedestrian purposes.

5. A trailer or semi-trailer may be securely attached to a bicycle.

6. Persons riding a bicycle, coaster, roller skates, sled or toy vehicle shall not cling to another vehicle upon the highway.

7. A bicycle shall be ridden "far enough to the right as judged safe by the bicycle operator" except:
 

- When passing another bicycle or vehicle going in the same direction.
- When making a left-hand turn.
- When avoiding parked or moving vehicles, loads or moving objects, animals, surface hazards, etc.
- When the lane is too narrow for a bicycle and a vehicle to travel safely side by side within the same lane.




8. A bicycle may be ridden near the left-hand edge of the roadway only on one-way roadways with two or more lanes and no more than 30 mph posted speed limit.

9. Persons riding a bicycle upon a roadway shall not travel more than two abreast. On a laned roadway bicyclist shall ride within a single lane. Riding two or more abreast is permitted on paths or parts of the roadway set aside for the exclusive use of bicycles.

10. Persons riding a bicycle shall have both hands available to operate the bicycle. At least one hand shall be kept on the handlebars at all times. A one-armed person may ride a bicycle and must use mechanical turn signals.

11. Left turns shall be permitted according to:
 

- Normal motor vehicle left turn procedures,
- Approach the turn on the right edge of the roadway, cross the intersecting roadway, stop out of the way of traffic, yield to all vehicles and pedestrians, obey all traffic control devices and then proceed in a new direction.
- Special traffic control devices.
- While not specified in the law, another important option, especially for children, is to dismount and cross the intersection as a pedestrian.

12. Right and left turn signals shall be used not less than 100 feet from turn and while stopped waiting to turn. Such signals may be used intermittently, rather than continuously, if the hand giving the signal is needed to control the bicycle.

13. Turn and stop/stop signals shall be given as shown in the diagram.

14. Persons shall not ride a bicycle on a sidewalk or crosswalk where prohibited by official signs or markings. A person riding a bicycle on a sidewalk or in a crosswalk shall yield to pedestrians and give an audible signal before overtaking. In addition, Subchapter 12-A states that bicycles cannot be operated or driven on controlled access highways, except where appropriately marked by the Department of Transportation.

15. Persons riding a bicycle on a sidewalk, or pushing a bicycle across the road at a crosswalk shall have all the rights and responsibilities of a pedestrian.

16. A bicycle may be parked on a sidewalk except when prohibited by official signs or when impeding the normal, reasonable movement of sidewalk traffic.

17. Bicycles may be parked where vehicle parking is allowed, but may not be parked in such a way as to obstruct the movement of a legally parked motor vehicle.

18. A uniformed police officer may stop, inspect and seize a bicycle that is suspected to be unsafe or to have improper equipment.

19. When riding at night, a bicycle shall be equipped with a front, white light visible for at least 500 feet from a motor vehicle with lawful low beam head lamps.

20. Every bicycle shall be fitted with a rear, red reflector visible from at least 500 feet from a motor vehicle with lawful low beam head lamps.

# Bicycle Friendly Delaware Act

- **Bicycle traffic signals are defined and enabled as an engineering tool for DeIDOT**
- **Requires that motorists change lanes when passing bicycles where travel lanes are too narrow to share**
- **Clarifies how far to the right bicyclists must ride**

# Bicycle Friendly Delaware Act

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- **Motorists may not honk horns at bicyclists except in cases of imminent danger**
- **Bicyclists are permitted to ride two abreast**
- **Bicyclists may yield at stop signs when the way is clear rather than coming to a full stop (the “Delaware Yield”)**

# CONNECTIONS TO TRAILS



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# Connections to trails

- **Five Points Transportation Study recommendation D-2:**
  - Study the feasibility of potential connections for walking and bicycling between existing neighborhoods, along streets, and to trails

# Connections to trails

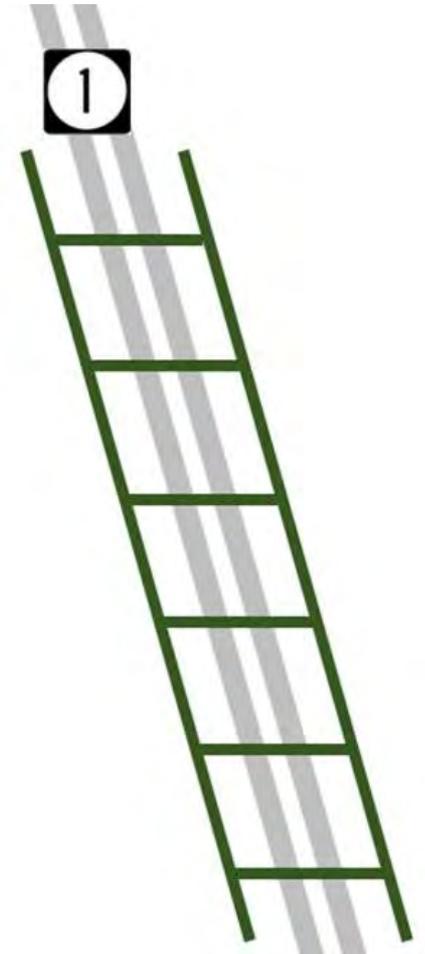


# Connections to trails



# Connections to trails

- **SR 1 Low-Stress Bikeways Study goals:**
  - Identify continuous low-stress bikeway routes on either side of SR 1
  - Identify low-stress crossings of SR 1 that enable property access and connect the two routes
  - Develop recommendations for which segments should be prioritized for design and construction





Questions?