

Mode *Shift*

Philadelphia's Two-Wheeled
Revolution in Progress



May 2011



The Bicycle Coalition of Greater Philadelphia

Make bicycling better through **advocacy** and **education** by promoting biking as a **healthy, low-cost, and environmentally-friendly** form of transportation and recreation.



What the Data Says About Bicycling in Philadelphia



Bicycle Coalition Annual Counts

Bicycling has increased over time

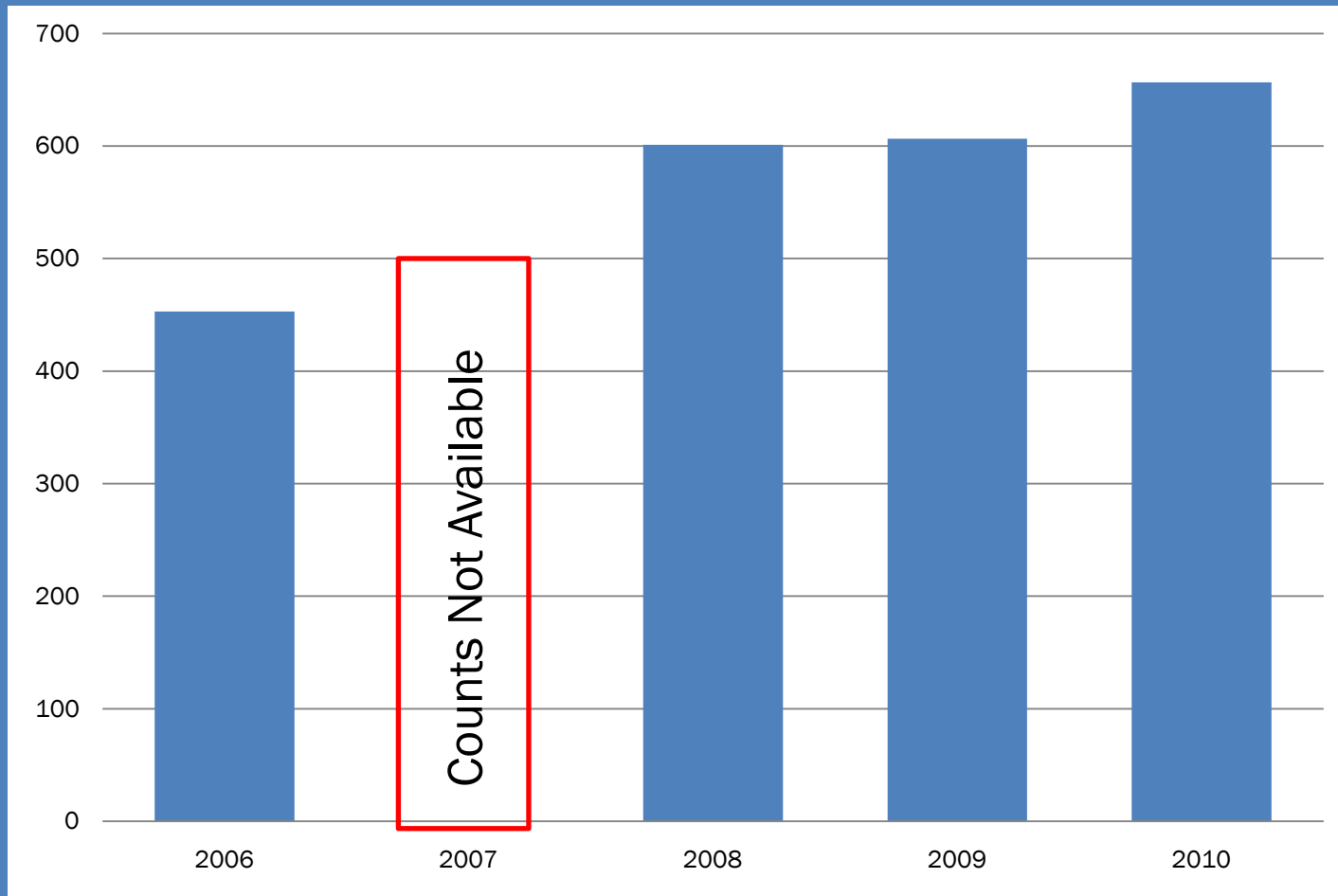
Average Number of Bikes Per Hour For Selected Streets

	1990	2005	2006	2007	2008	2009	2010
Counted Locations							
8th and Pine						85	82
9th and Spruce						120	140
Broad and Chestnut		79	83		126	95	108
Broad and Pine		130	116				259
22nd and Spruce		58	84			180	216
21st and Pine						102	122
38th and Spruce			129	163	188	204	202
Walnut St Bridge	32	74	118	94	137	226	241
South St Bridge	60	70	107	114	160		
Chestnut St Bridge	18	52	74	108	121	179	186
Market St Bridge	19	46	73	68	68	80	86
Spring Garden Bridge			59		115	97	124
JFK Bridge		16	23			25	20
Schuylkill Crossings Total (w/Spring Garden + JFK)			453		601	607	657
Schuylkill Crossings Total (without Spring Garden)	129	258	394	384	486	509	532
Schuylkill Crossings Average Counts (with Spring Garden)		61	86	96	120	145	159
Average Number of Bikes Per Hour for all Counted	32	66	87	109	131	127	149

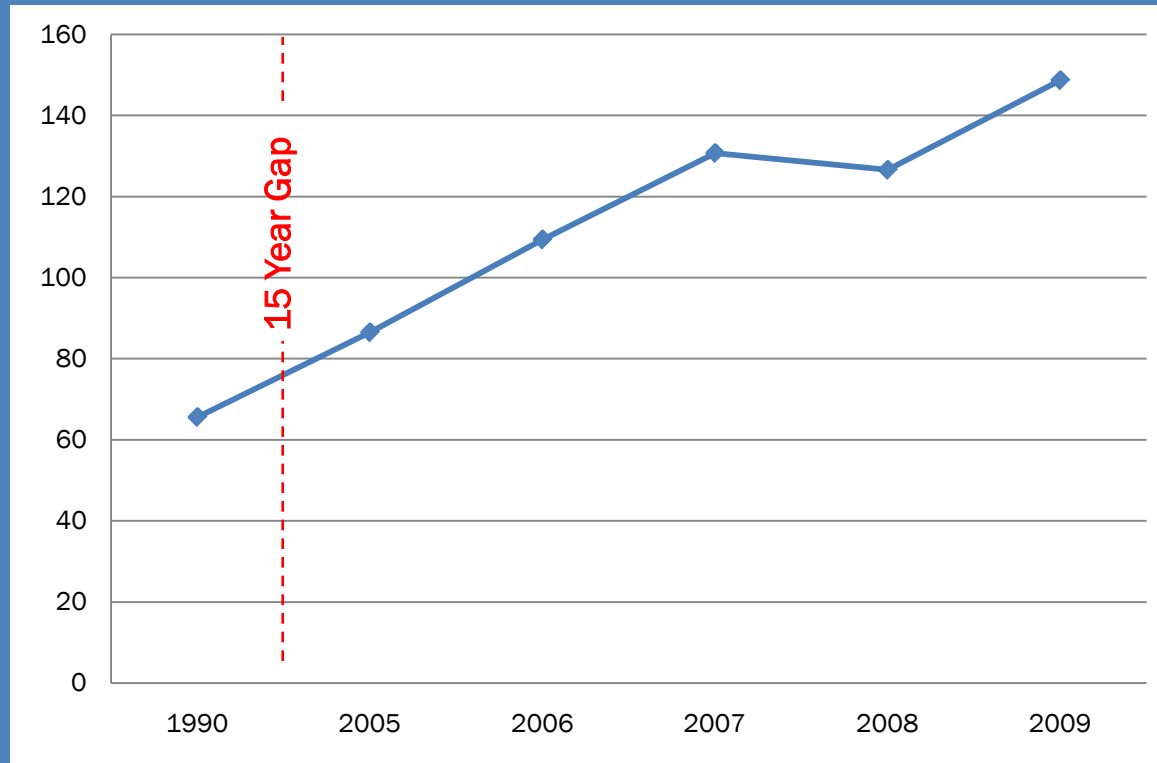
Rates of Change In Bikes Per Hour

	2009 to 2010	2005 to 2010	1990 to 2010
Broad and Chestnut	14%	37%	
Broad and Pine		99%	
22nd and Spruce	20%	272%	
Walnut St Bridge	7%	227%	653%
Chestnut St Bridge	4%	255%	931%
Market St Bridge	8%	86%	352%
JFK Bridge	-19%	25%	
Schuylkill Bridge Average Counts (with Spring Garden)	-10%	117%	
Average Number of Bikes Per Hour for all Counted Locations	17%	127%	361%

Total Bikes Per Hour Crossing the Schuylkill River



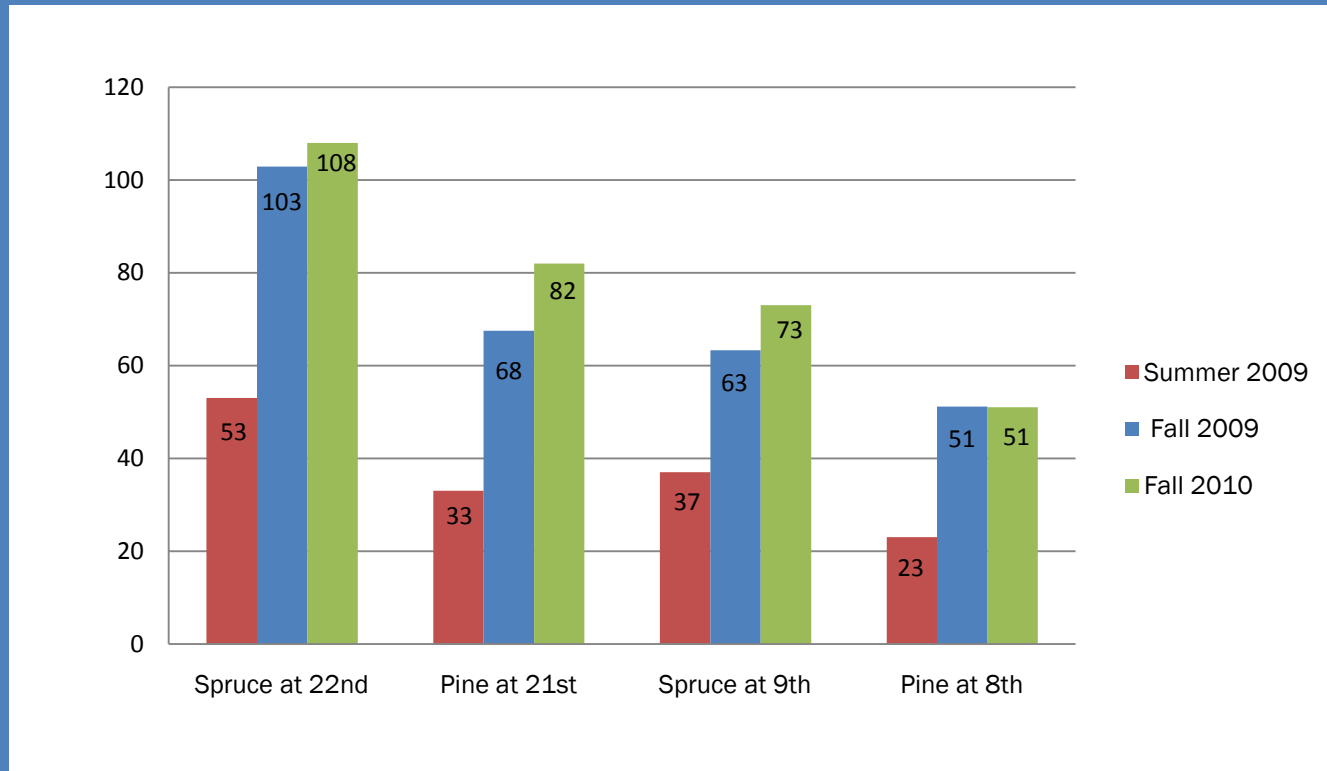
Average Bikes Per Hour In all Counted Locations



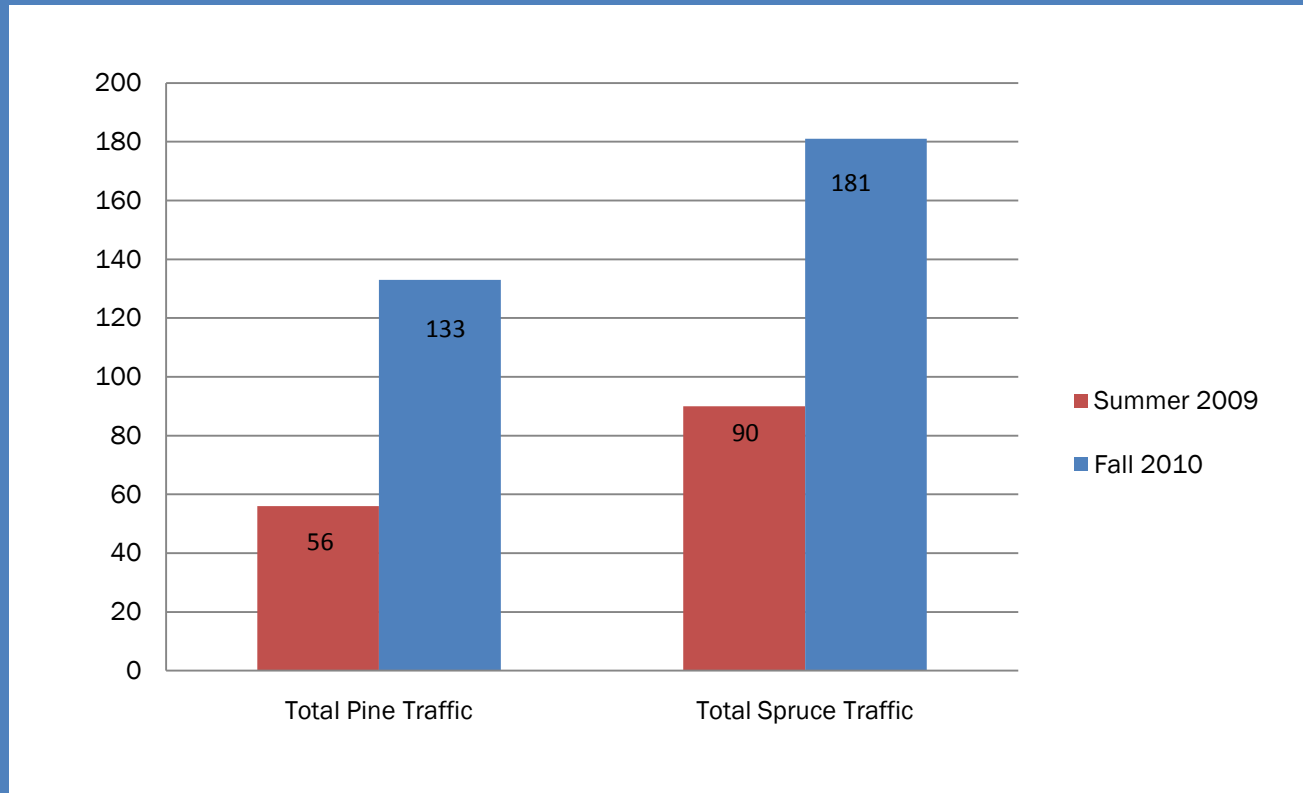
Bike Lanes Increase Bike Traffic

BPH On Pine and Spruce Street Intersections

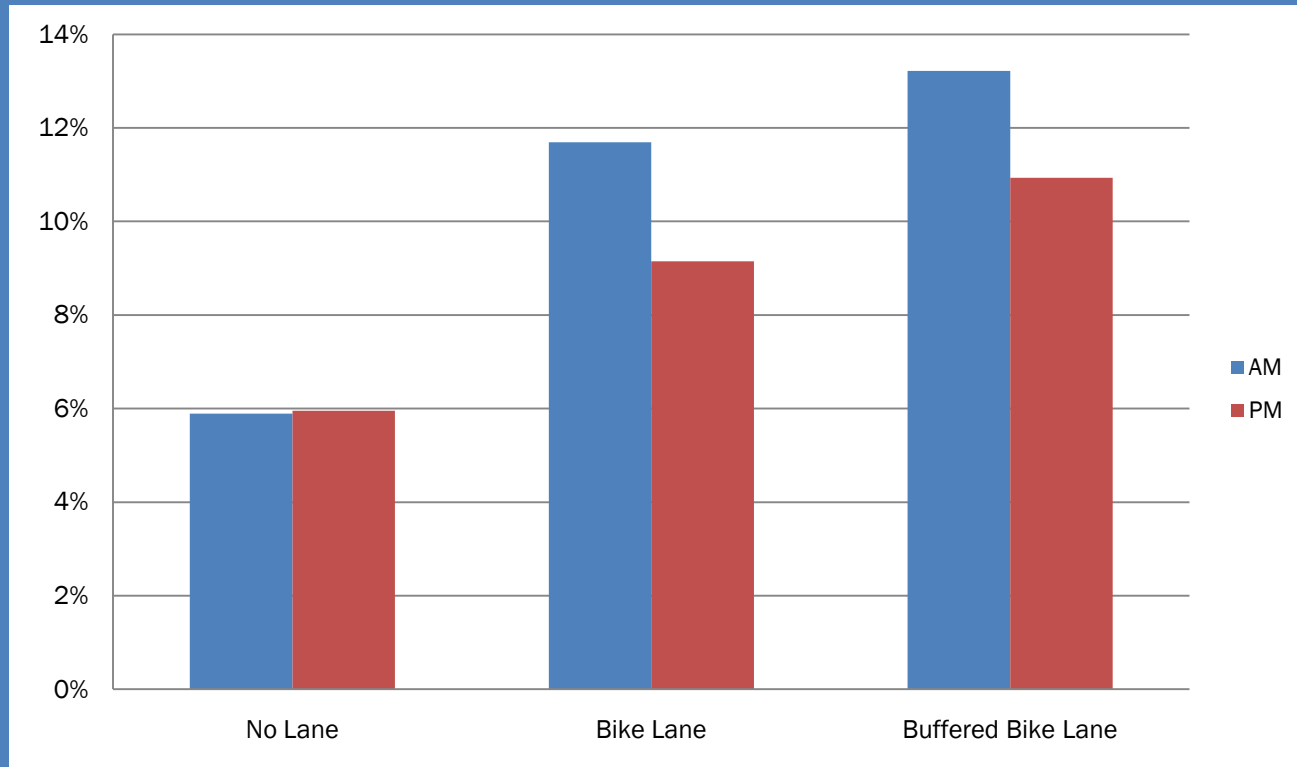
Before and After Installation of Buffered Bike Lanes



Total of Bicyclists per Hour On Pine and Spruce (All Intersections)



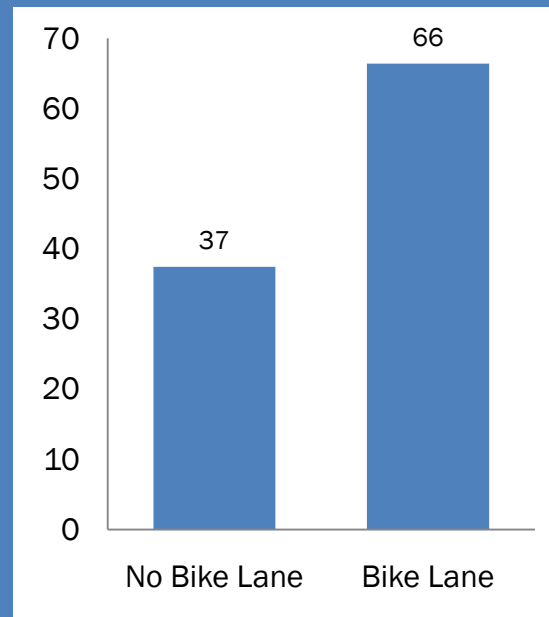
Share of Vehicle Traffic That is Bicycles (All Counted Streets)



Change in Ridership On Selected Streets Since 2005

	2005 to 2006	2005 to 2010
Pine	-1%	237%
Spruce	49%	342%
Broad	-10%	52%
22nd	71%	288%

Average Hourly Count of Riders On Streets With and Without Bike Lanes

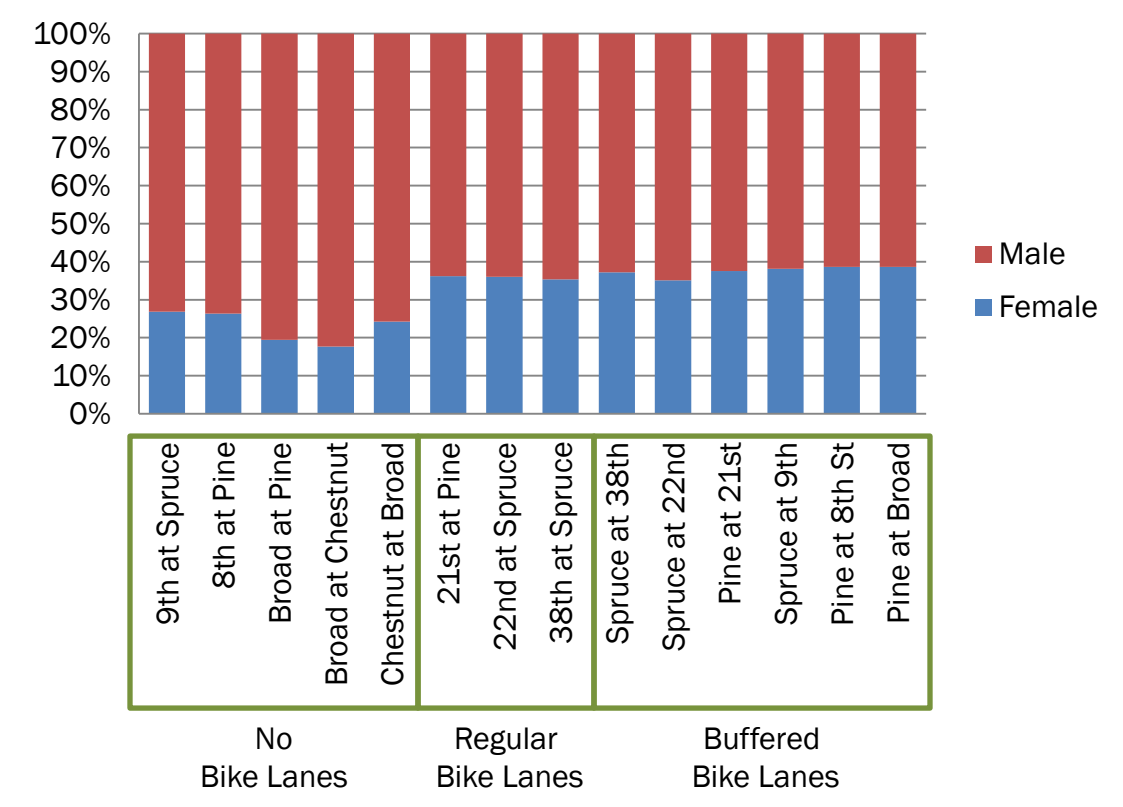


Gender Split and Behavior

Location	Percent Female	Percent Helmets	Percent Sidewalk	Percent Wrong Way	Percent Helmets Male	Percent Helmets Female
Spring Garden St Bridge	37%	64%	3%	1%	57%	76%
JFK Bridge	18%	48%	34%	2%	48%	18%
Market St Bridge	22%	33%	43%	0%	25%	61%
Chestnut St Bridge	37%	65%	16%	1%	58%	78%
Walnut St Bridge	38%	48%	7%	1%	44%	54%
38th and Spruce	36%	57%	11%	1%	49%	71%
Broad and Chestnut	20%	28%	14%	2%	23%	48%
Broad and Pine	28%	37%	13%	1%	30%	56%
22nd and Spruce	36%	60%	1%	1%	54%	72%
21st and Pine	37%	60%	3%	1%	53%	71%
9th and Spruce	33%	40%	3%	1%	34%	55%
8th and Pine	34%	42%	9%	2%	37%	51%
2010 Average	32%	50%	13%	1%	44%	59%
2006 Average	38%	31%	24%	3%	N/A	N/A

*Streets with Bike Lanes
Attract More Females*

Male/Female Split On Different Types of Bicycle Facilities

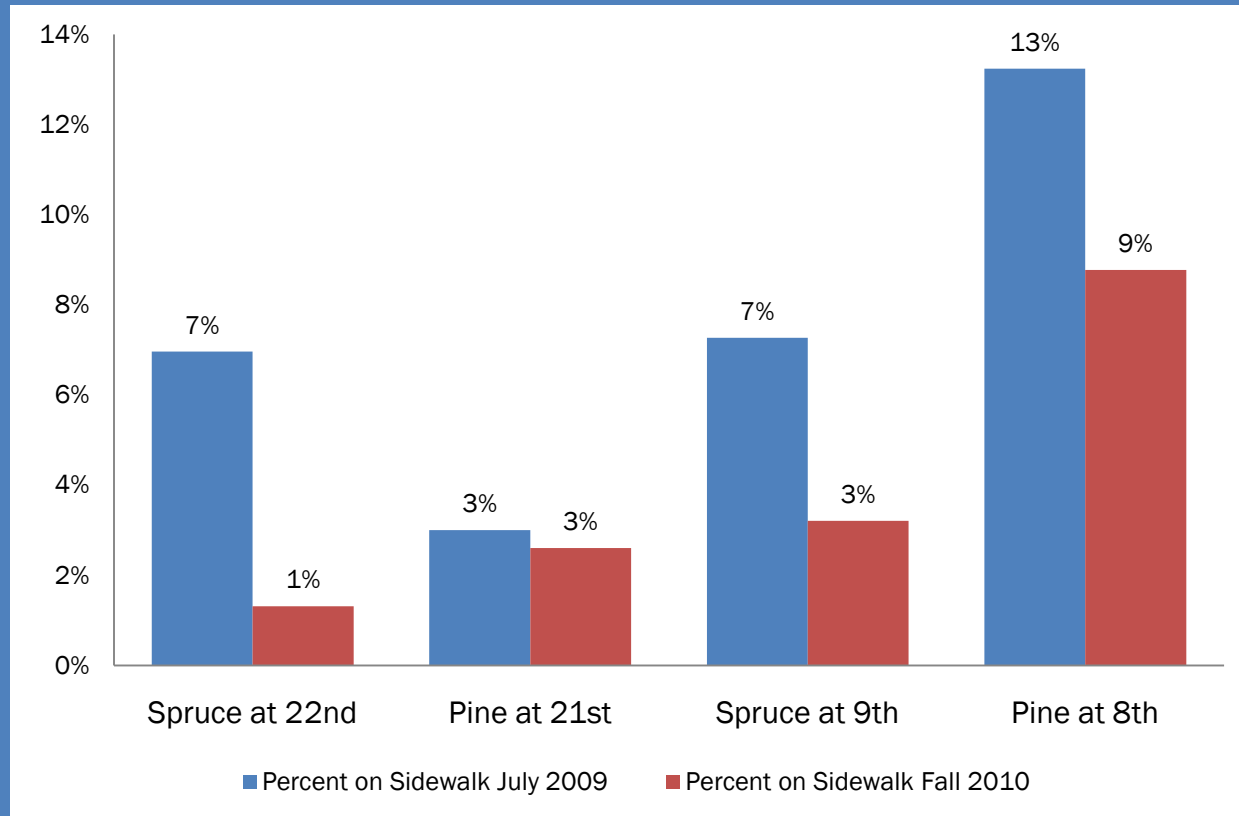


Women are an “Indicator Species” For bicycle-friendly cities

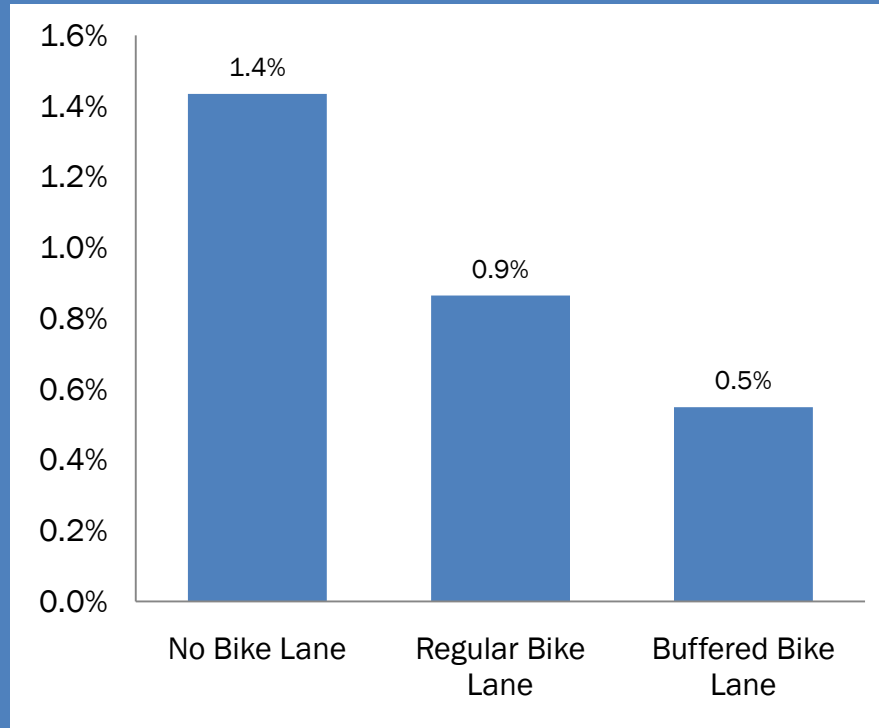


Bike Lanes Improve Cyclist Behavior

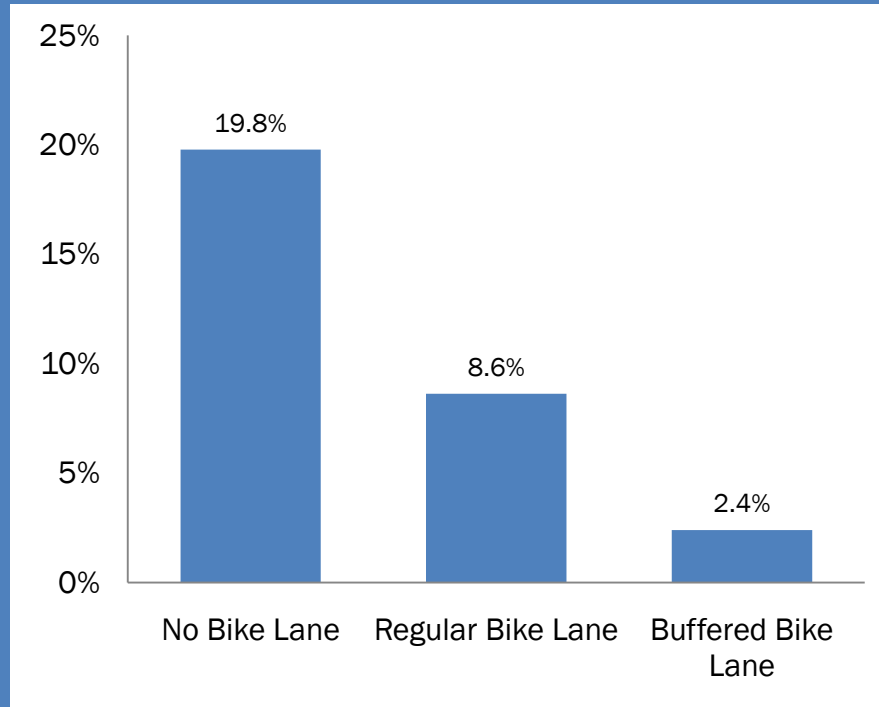
Impact of Spruce and Pine Sidewalk Riding July 2009 to October 2010



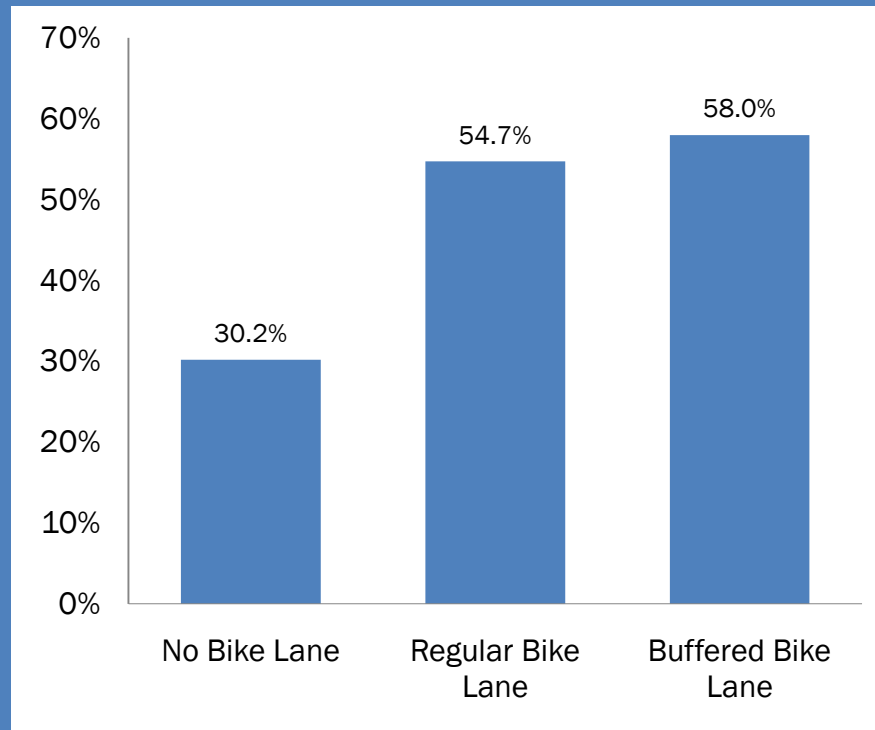
Wrong-Way Riding



Sidewalk Riding

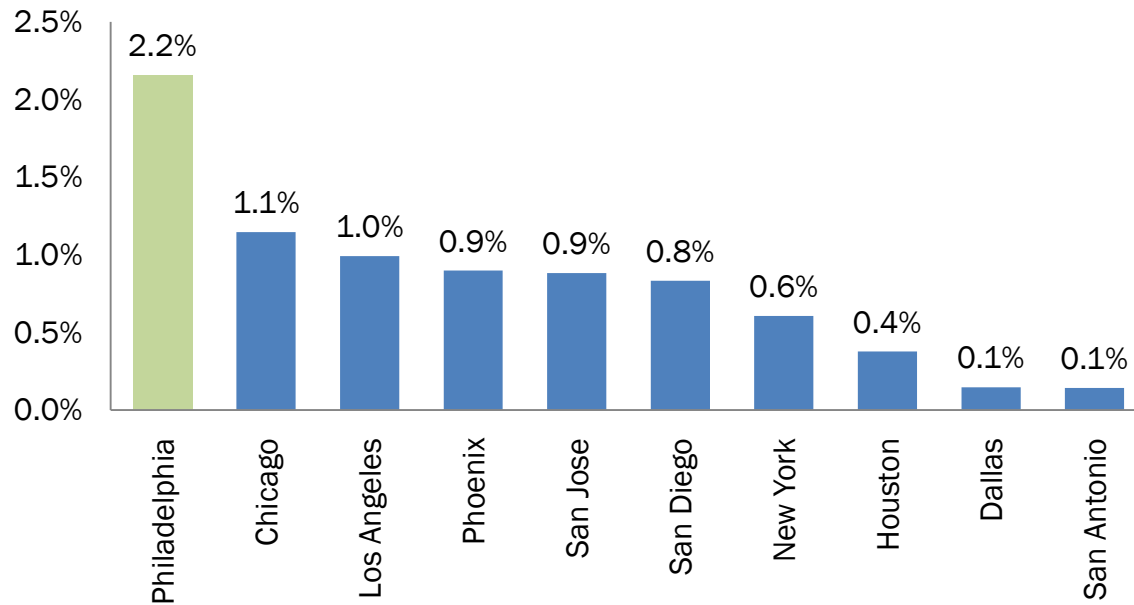


Helmet Use

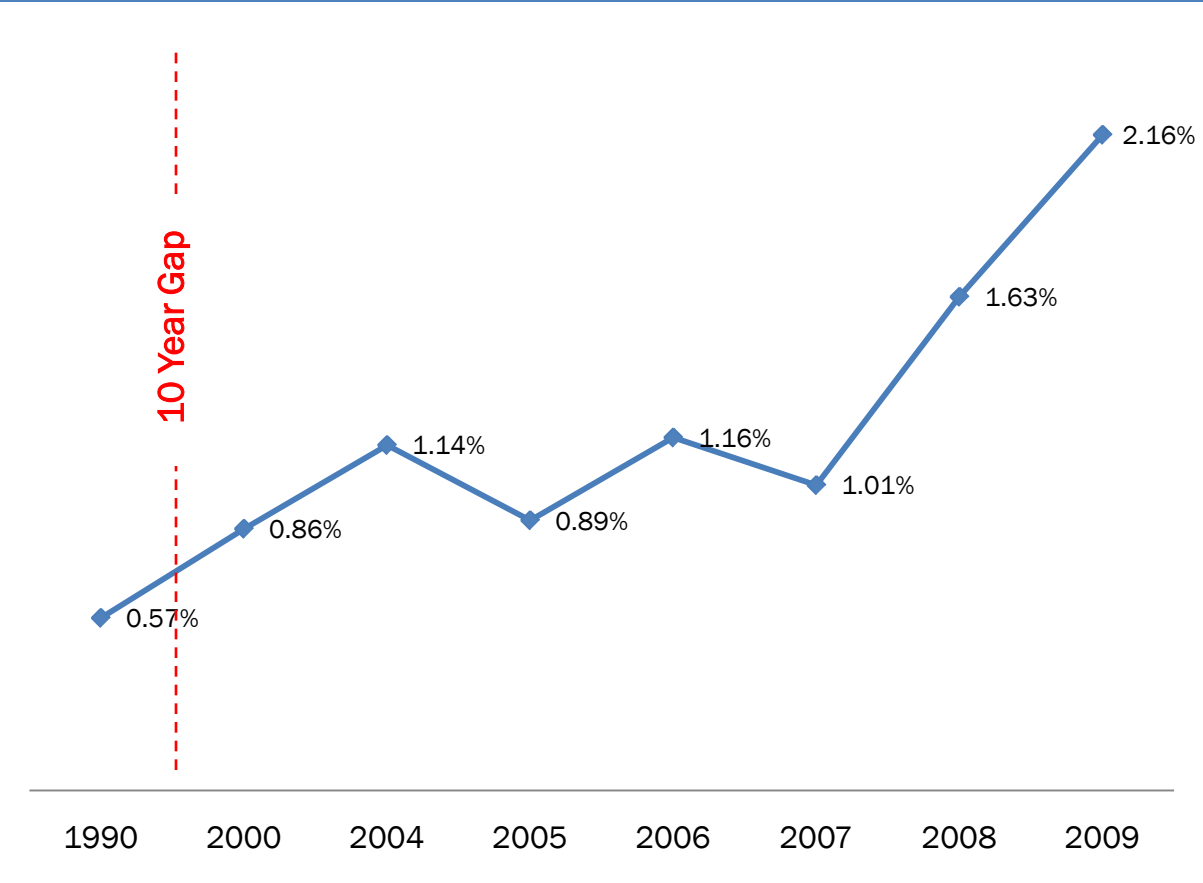


U.S. Census Data on Bicycle Mode Share for Philadelphia

Twice the Mode Share As the Next Big City Among Large U.S. Cities

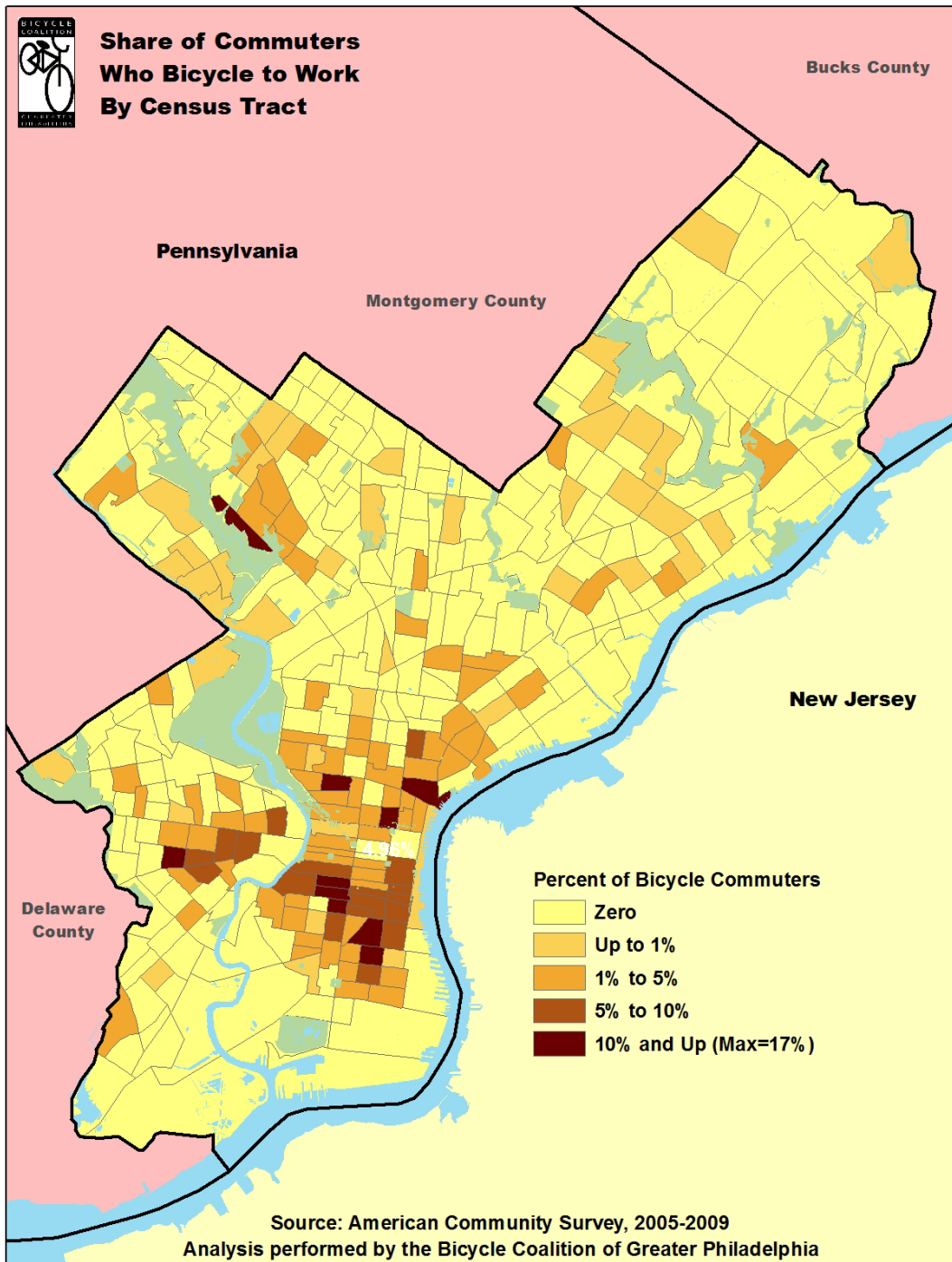


Philadelphia's Bicycle Mode Share increased 151% b/w 2000 and 2009





Share of Commuters Who Bicycle to Work By Census Tract

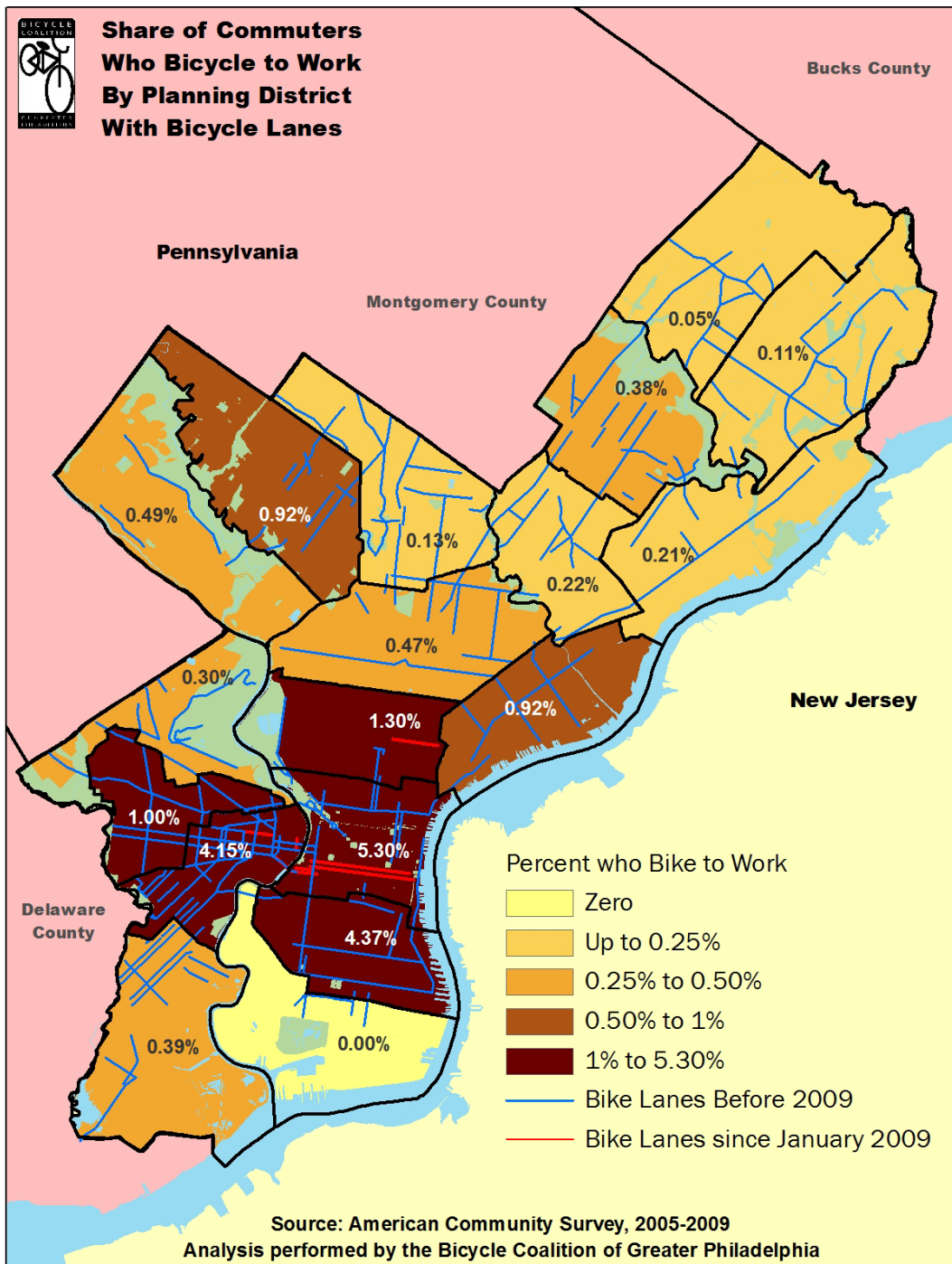


Source: American Community Survey, 2005-2009
Analysis performed by the Bicycle Coalition of Greater Philadelphia



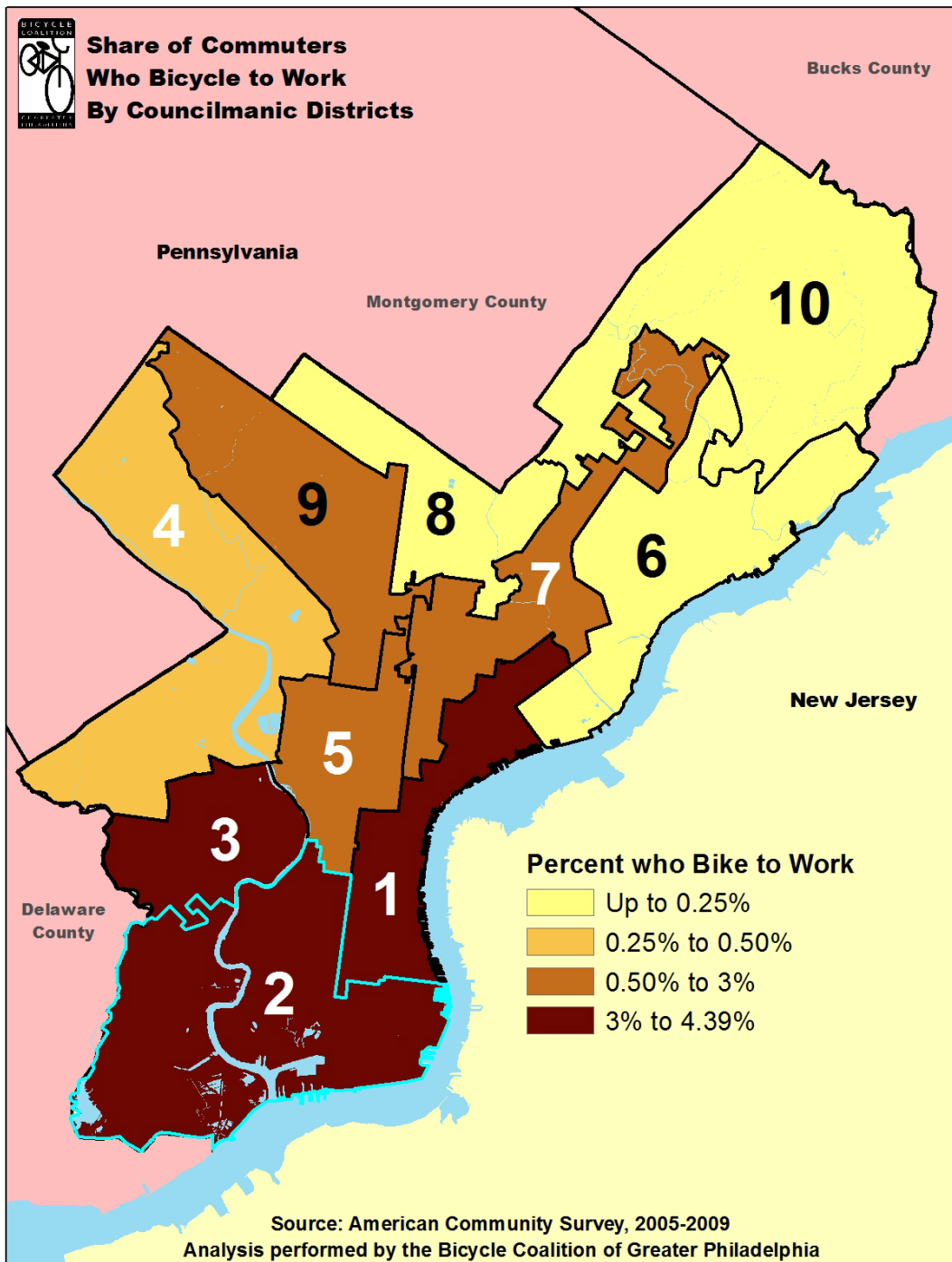


Share of Commuters Who Bicycle to Work By Planning District With Bicycle Lanes





Share of Commuters Who Bicycle to Work By Councilmanic Districts



Source: American Community Survey, 2005-2009
Analysis performed by the Bicycle Coalition of Greater Philadelphia

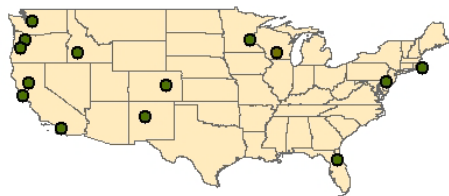
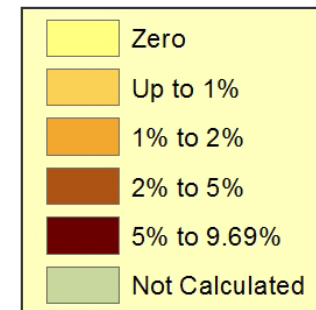
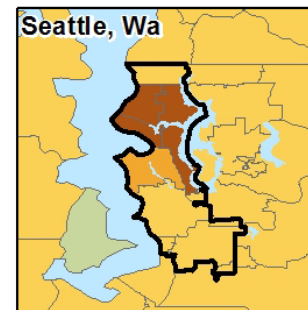
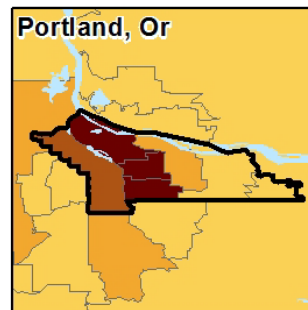
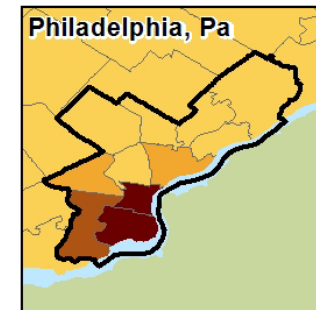
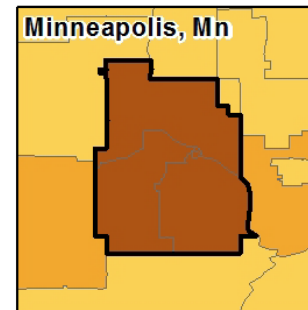
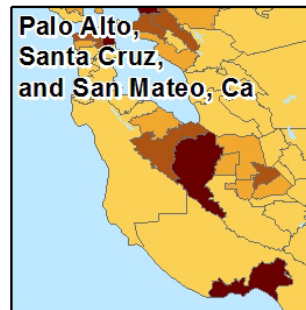
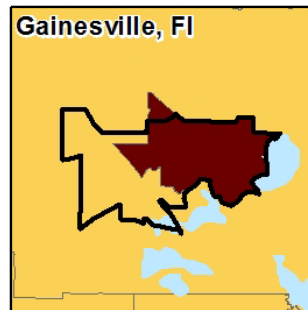
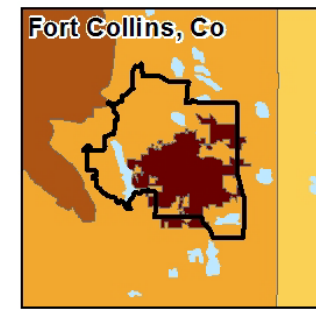
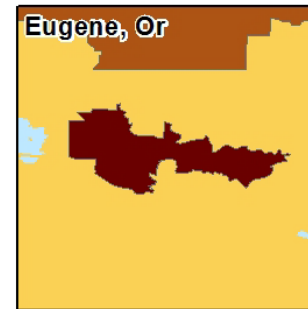
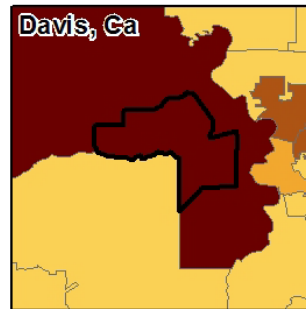
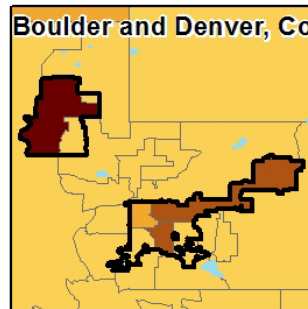
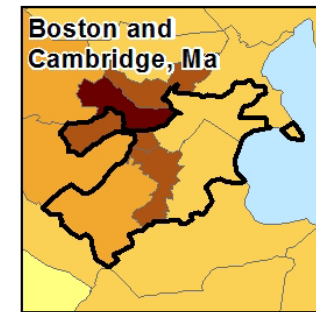
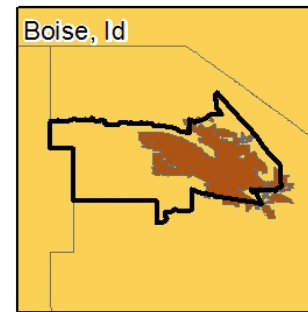
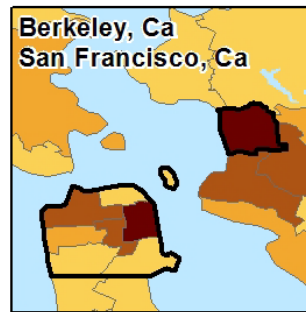
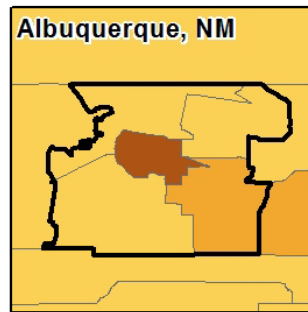




Top 25 Communities for Commuting by Bicycle

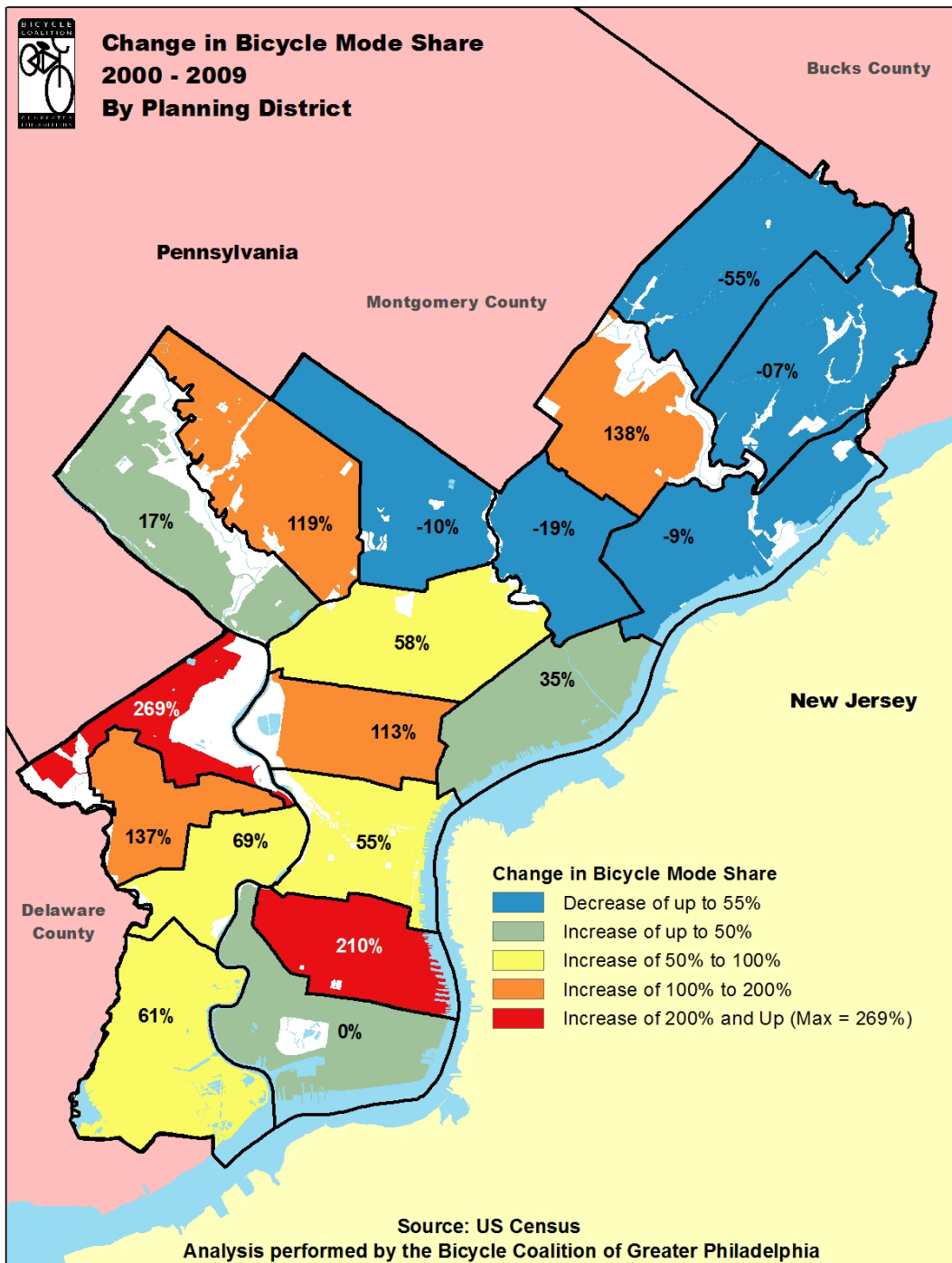
The 25 PUMA areas with the largest bike commuter share are found in or around the following locations:

1. Boulder, Co (9.7%)
2. Portland, Or (9.2%)
3. Fort Collins, Co (8.0)
4. Davis-Woodland, Ca (7.4)
5. Berkeley, Ca (6.9%)
6. Cambridge, Ma (6.9)
7. Portland, Or (6.9%)
8. Portland, Or (6.9%)
9. Eugene-Springfield, Or (6.4%)
10. Palo Alto-Stanford, Ca (6.4%)
11. San Francisco, Ca (6.1)
12. Santa Barbara, Ca (6.1%)
13. Gainesville, Fl (6.1%)
14. Santa Cruz, Ca (5.8%)
15. Central Philadelphia, Pa (5.4%)
16. South Philadelphia, Pa (5.2%)
17. San Francisco, Ca (4.8%)
18. Madison, Wi (4.6%)
19. Boise, Id (4.4%)
20. San Mateo County, Ca (4.3%)
21. Minneapolis, Mn (4.2%)
22. Minneapolis, Mn (4.1%)
23. Minneapolis, Mn (4.1%)
24. Albuquerque, NM (4.1%)
25. Seattle, Wa (4.1%)





Change in Bicycle Mode Share 2000 - 2009 By Planning District



Source: US Census

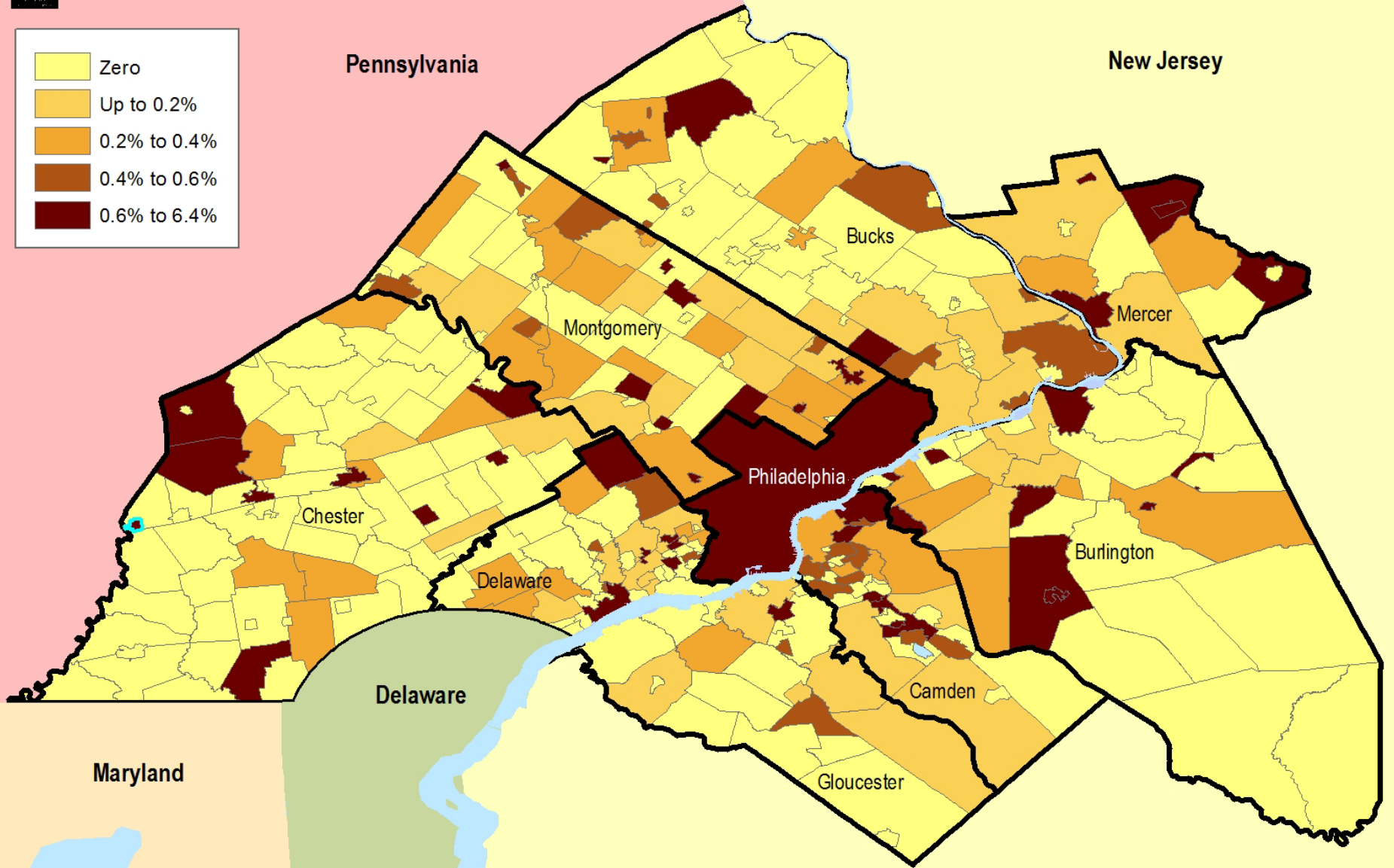
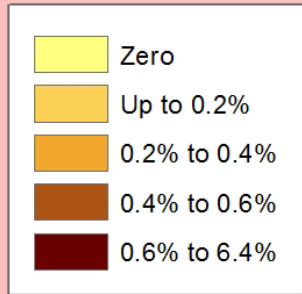
Analysis performed by the Bicycle Coalition of Greater Philadelphia



U.S. Census Data on Bicycle Mode Share for Philadelphia Suburbs

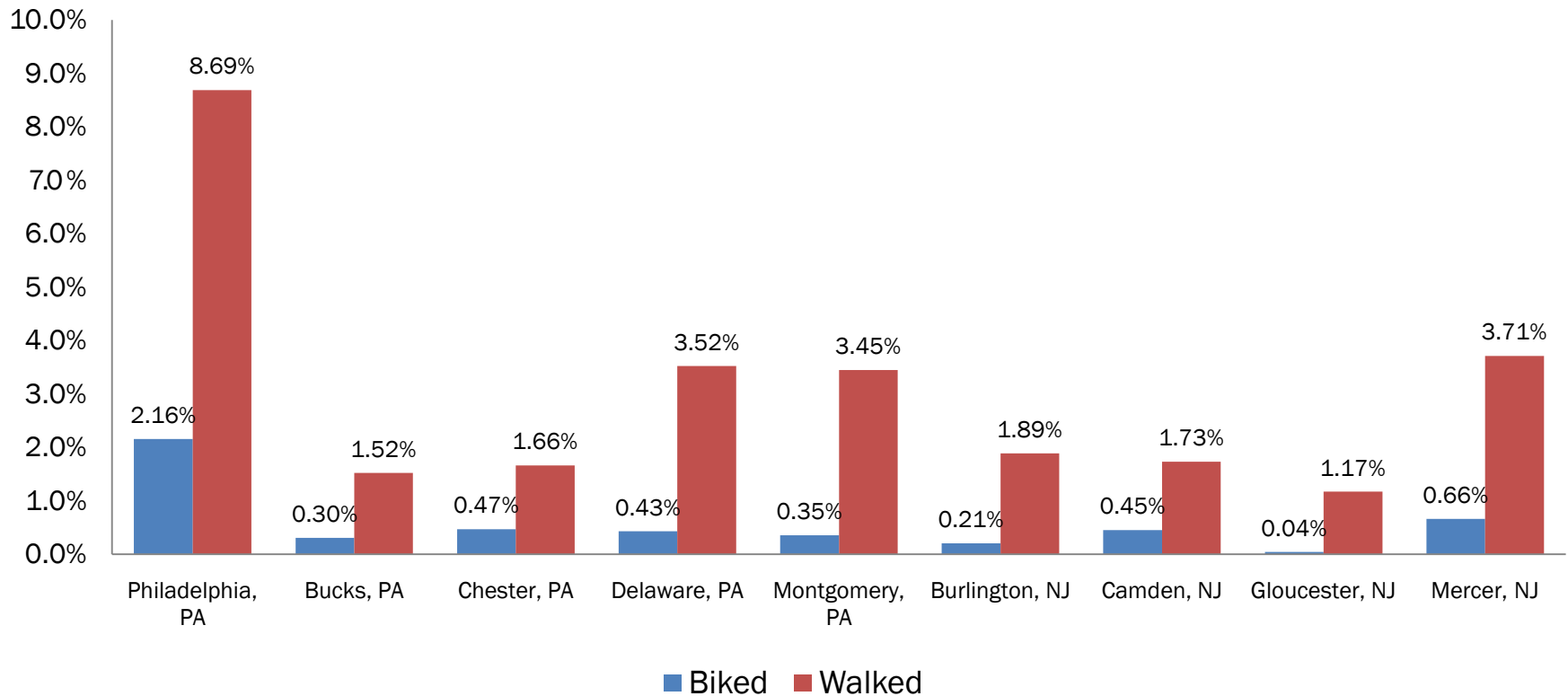


Share of Commuters Who Bicycle to Work In the 9 County Greater Philadelphia Region

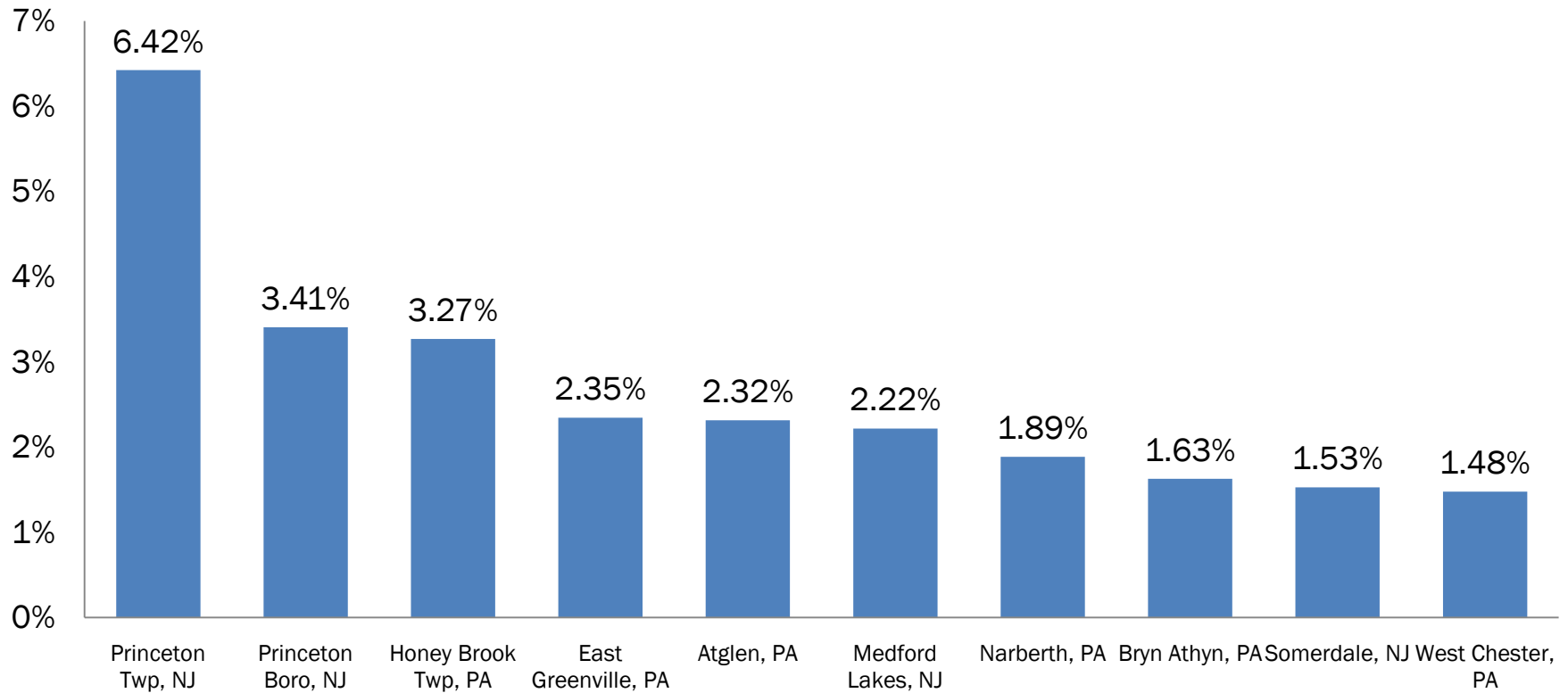


Source: American Community Survey, 2005-2009
Analysis performed by the Bicycle Coalition of Greater Philadelphia

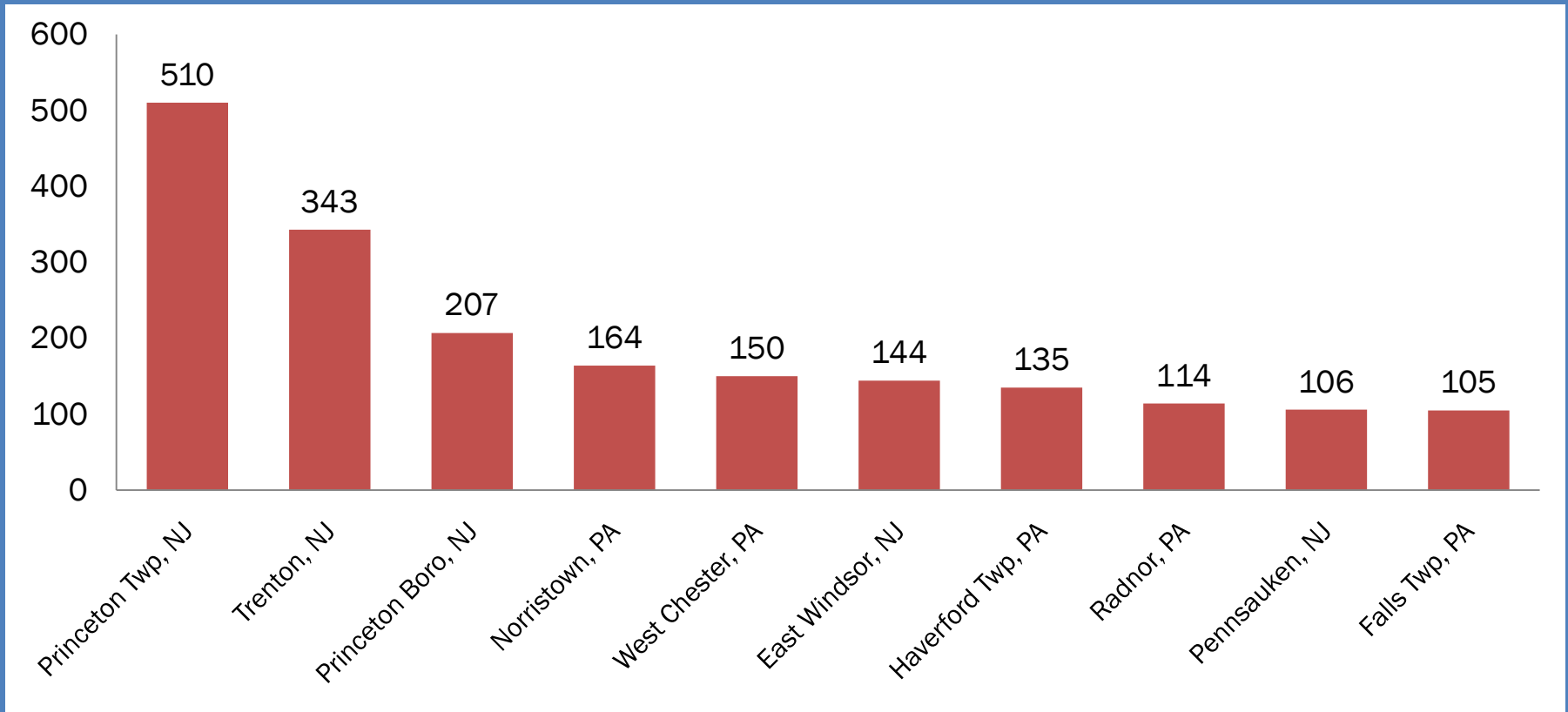
2009 Bike and Walk Mode Share For 9 Counties Greater Philadelphia



Percent of Bicycle Commuters Top 10 Regional Municipalities



Total Number of Bicycle Commuters Top 10 Regional Municipalities



Policy Recommendations



Implement north-south buffered bike lanes in Center City.



Develop innovative infrastructure for South Philly.



Add more facilities to the neighborhoods where bicycling is growing.



Launch sophisticated education, encouragement and enforcement programs.



Increase staff capacity and resources in the Streets Dept and Mayor's Office of Transportation.



Increase funding for bicycling and walking for counties and municipalities.



Eliminate PennDOT red tape.

Resources for Designers

Philadelphia Pedestrian and Bicycle Plan

 PHILADELPHIA PEDESTRIAN & BICYCLE PLAN

PROJECT DESCRIPTION REPORTS & DOCUMENTS RESOURCES & LINKS CONTACT US

HOW TO GET INVOLVED

There are many opportunities to get involved in the development of Philadelphia's Pedestrian and Bicycle Plan, including public meetings and an online questionnaire.

[Send us your feedback](#)

WELCOME

The Philadelphia City Planning Commission (PCPC) and Philadelphia Department of Health and Human Services are preparing a Pedestrian and Bicycle Plan for the City of Philadelphia. Improving pedestrian and bicycle safety and mobility is an important element of the City's ongoing efforts to become more sustainable. The Pedestrian and Bicycle Plan complements the new Comprehensive Plan *Philadelphia 2035*, as well as many other planning initiatives.

The project is being completed in two phases. The first phase, completed in fall 2010, encompasses Center City, North Philadelphia, Northwest Philadelphia, and South Philadelphia. To view the Phase I Plan, [CLICK HERE](#). The second phase, currently underway, encompasses Southwest Philadelphia, West Philadelphia, Olney/Oak Lane, Northeast Philadelphia, and the River Wards.

This project was made possible by funding from the Department of Health and Human Services and Get Healthy Philly, an initiative of the Philadelphia Department of Public Health, and by a grant from the Delaware Valley Regional Planning Commission's Transportation and Community Development Initiative.

[CLICK HERE to view community meeting information](#)

- ▶ HOW TO GET INVOLVED
- ▶ CALENDAR
- ▶ COMMUNITY WALK
- ▶ NEWS
- ▶ QUESTIONNAIRE

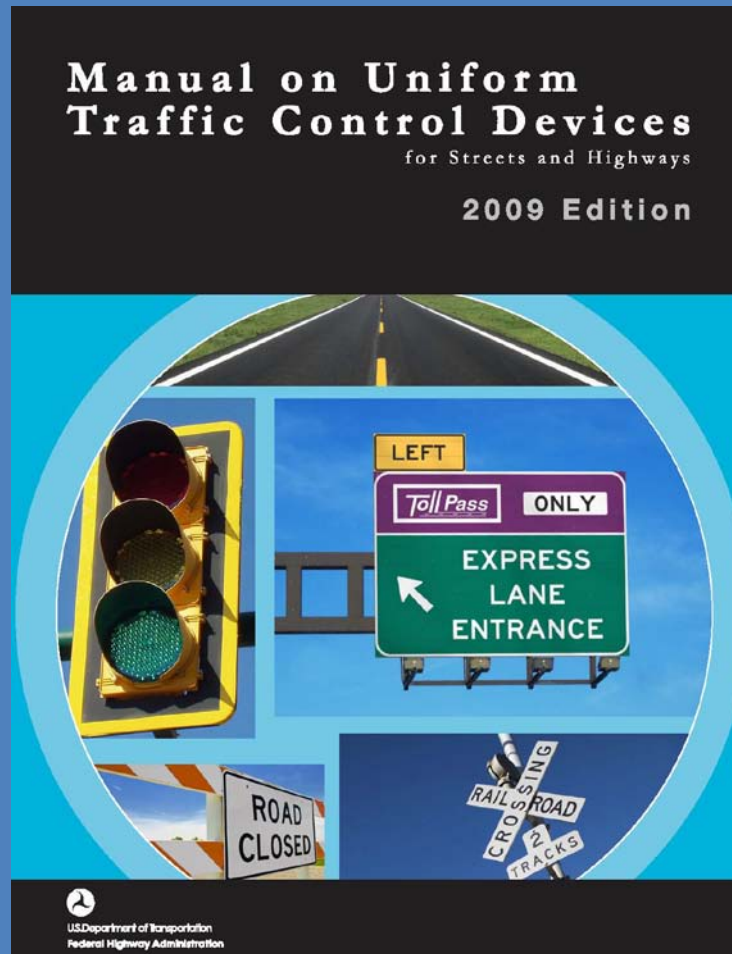
[About PCPC](#) [About Get Healthy Philly](#) [Home](#) [Site Map](#) [Contact](#)

<http://tooledesign.com/philadelphia>



Manual on Uniform Traffic Control Devices



American Association of State Highway and Transportation Officials

DRAFT

***AASHTO Guide for the Planning,
Design, and Operation of
Bicycle Facilities***



For Review and Comment by:

Subcommittee on Design
Subcommittee on Traffic Engineering
Technical Committee on Geometric Design
Technical Committee on Nonmotorized Transportation

**American Association of State Highway
and Transportation Officials**

February 2010

National Association of City Transportation Officials



Happy Cycling!



bicyclecoalition.org

