

Middlesex County

Analysis Inputs

Middlesex County has high bicycle trip potential throughout the county in every municipality. Very high trip potential communities include North Brunswick Township, City of New Brunswick, Piscataway Township, Middlesex Borough, Dunellen Borough, South Plainfield Borough, Highland Park Borough, Edison Township, Metuchen Borough, Woodbridge Township, Carteret Borough, and City of Perth Amboy. There are pockets of high demand (with a bike trip potential score of 70+) in large parts of Plainsboro Township, Cranbury Township, Old Bridge Township, Sayreville Borough, East Brunswick Township, Milltown Borough, and City of South Amboy, as well as western Monroe Township and South Brunswick Township. The regional network connects to all these communities.

High-crash intersections and corridors from the Network Screening Analysis are largely concentrated in City of New Brunswick, plus several high-crash locations in Edison Township, Woodbridge Township, City of Perth Amboy, and Plainsboro Township. The half-mile regional network buffer overlaps with all Network Screening Analysis crash locations.

Table 9 shows the most predominant EJ populations in Middlesex County by census block. Most of Middlesex County has at least one category of Overburdened Community. OBC census block groups consist largely of minority populations, which are present in every municipality except Cranbury Township. These groups are located in most of Plainsboro Township, South Brunswick Township, North Brunswick Township, Piscataway Township, South Plainfield Borough, and Woodbridge Township; as well as significant portions of Monroe Township, Old Bridge Township, East Brunswick Township, Sayreville Borough, Metuchen Borough, Carteret Borough, and City of South Amboy. Most of City of New Brunswick and City of Perth Amboy have low-income/minority populations and there are scattered areas of low-income/minority populations in North Brunswick Township, Middlesex Borough, Dunellen Borough, Edison Township, Woodbridge Township, Carteret Borough, and Old Bridge Township. The regional network covers most of these areas. Additionally, there are small pockets of low-income groups in Monroe Township, South River Borough, East Brunswick Township, Milltown Borough, Edison Township, City of New Brunswick, Middlesex Borough, and Old Bridge Township; as well as small pockets of low-income/minority/limited English populations in East Brunswick Township, North Brunswick Township, City of New Brunswick, and City of Perth Amboy, all of which overlap with the regional network.

Table 9. Overburdened Communities in Middlesex County

OBC Category	Number of census blocks
Low Income	9
Low Income and Minority	68
Low Income, Minority, and Limited English	7
Minority	321

Public Feedback

There were 25 webmap responses in Middlesex County distributed across Plainsboro Township, South Brunswick Township, Middlesex Borough, Piscataway Township, Edison Township, Metuchen Borough, Woodbridge Township, City of Perth Amboy, City of South Amboy, Sayreville Borough, and Old Bridge Township. Some comments noted locations where people wanted to walk and bike, such as Route 1 and New Road in South Brunswick Township, and Scotts Corner Road in Plainsboro Township. Several comments in Piscataway Township focused on the need for an I-287 crossing, which the regional network provides. Other comments

focused on connections to or along the Middlesex Greenway (between Metuchen Borough and Woodbridge Township), envisioned East Coast Greenway and September 11th National Memorial Trail (along Raritan River between Edison Township and Woodbridge Township), the Henry Hudson Trail (in Monmouth County), and proposed connection between Roosevelt Park Path and Merrill County Park Path (between Edison Township and Woodbridge Township). Connections included local parks such as Roosevelt Park Path and Merrill County Park Path. The regional network addresses many of the webmap suggestions.

Existing Network and Proposed Improvements

The Middlesex Greenway is the only regionally significant trail in Middlesex County, which runs east-west from Woodbridge Township to Metuchen Borough via Edison Township. The Middlesex Greenway Access Plan¹⁹ recommends bike and pedestrian access improvements on several roadways around the Greenway, as well as several proposed trail connections that would extend or connect to the trail. The regional network aligns with the proposal to provide a northeast-southwest connection perpendicular to the trail around Route 1. Additionally, the network would provide a north-south perpendicular connection across the trail, linking several communities in the western part of the county to the Middlesex Greenway. There are some bike paths and planned bike lanes in Plainsboro Township, East Brunswick Township, and Piscataway Township – which would connect to the regional network. There are also several parks with trails throughout the county, such as Thompson Park in Monroe Township, Roosevelt Park in Edison Township, Davidson’s Mill Pond Park in South Brunswick Township, and William Warren Park in Woodbridge Township. The regional network makes connections to each of these parks. Overall, proposed corridors have the potential to connect all of Middlesex County’s communities, creating many more options for people walking and bicycling.

The proposed network overlaps with two NJ TRANSIT commuter lines and several stops in Middlesex County:

- Northeast Corridor: Edison, Metropark
- North Jersey Coast Line: South Amboy, Perth Amboy, Woodbridge

This overlap provides a strong opportunity to improve first- and last-mile connections from transit stations to population centers within Middlesex County. Additionally, a major north-south regional network connection from Woodbridge Township to South Brunswick Township (via Edison Township, Metuchen Borough, City of New Brunswick, North Brunswick Township) could serve as an alternative to transit along the Northeast Corridor when there are delays or other service issues.

Table 10 lists all roads in Middlesex County’s regional network. It includes road name, municipality, and length of each segment. Network segments that are less than 0.25 miles in length are not listed. Many network segments are on high-volume state highway corridors; as such they are not presently conducive to active transportation. However, walk/bike potential does exist in these areas, and more suitable parallel routing could be explored, such as sidepaths, trails, and other separated facilities, as well as improved transit service for longer distance connections. Local roads that parallel the regional network may also be used as alternate low-stress routes during network implementation.

¹⁹ Together North Jersey (2014). Middlesex Greenway Access Plan and Health Impact Assessment. Retrieved from <https://s3.us-east-1.amazonaws.com/rpa-org/pdfs/TNJ-Middlesex-Greenway-Access-Plan.pdf>

Table 10: Middlesex County Regional Network Corridors

Road Name	County/NJ/US Route	Municipality	Start Point	End Point	Length (Miles)
Industrial Road	N/A	Borough of Carteret	Harrison Avenue, Roosevelt Avenue	Peter J. Sica Industrial Highway, Roosevelt Avenue	1.65
Roosevelt Avenue	CR 602	Borough of Carteret	N/A	N/A	1.64
Roosevelt Avenue	CR 602, CR 604	Borough of Carteret	Arthur Avenue, Edwin Street, Port Reading Avenue	Industrial Road, Peter J. Sica Industrial Highway	0.77
New Market Road	CR 665	Borough of Dunellen	South Washington Avenue	Lakeview Avenue, William Street	1.05
North Avenue	NJ 28	Borough of Dunellen	Bound Brook Road, Grove Street	Jefferson Avenue, West Front Street	0.69
River Road	CR 622	Borough of Highland Park	N/A	N/A	0.52
Woodbridge Avenue	CR 514	Borough of Highland Park	N/A	N/A	1.02
Raritan Avenue	CR 514, NJ 27	Borough of Highland Park	Albany Street Bridge	6th Avenue, North 6th Avenue, Woodbridge Avenue	0.75
Gatzmer Avenue	CR 522, CR 615	Borough of Jamesburg	Half Acre Road	Browns Hall Road, Dayton Road, Pergola Street	0.38
Warrenville Road	N/A	Borough of Middlesex	Bound Brook Road, Smalley Avenue	N/A	0.49
River Road	CR 622	Borough of Middlesex	N/A	Lincoln Boulevard	0.83
Lincoln Boulevard	CR 607, CR 622	Borough of Middlesex	East Main Street	South Lincoln Avenue	2.23
Bound Brook Road	NJ 28	Borough of Middlesex	North Lincoln Avenue, South Lincoln Avenue	Grove Street, North Avenue	1.16
South Lincoln Avenue	CR 607	Borough of Middlesex	Bound Brook Road, North Lincoln Avenue	Lincoln Boulevard	0.45
Washington Road	CR 535	Borough of Sayreville	Main Street, Raritan Street, Washington Avenue	Vet Memorial Bridge	4.32
Park Avenue	CR 531	Borough of South Plainfield	N/A	Oak Tree Road	1.70
Main Street	CR 535	Borough of South River	Vet Memorial Bridge	Cranbury Road, Old Bridge Turnpike	1.42
Johnson Drive	N/A	City of New Brunswick	N/A	N/A	0.35
N/A	N/A	City of New Brunswick	N/A	N/A	0.35

Road Name	County/NJ/US Route	Municipality	Start Point	End Point	Length (Miles)
George Street	CR 527, NJ 172	City of New Brunswick	N/A	N/A	0.49
French Street	CR 644, NJ 27	City of New Brunswick	N/A	N/A	1.10
Hamilton Street	CR 514	City of New Brunswick	George Street, Johnson Drive	Woodbridge Street	0.76
Easton Avenue	CR 514, CR 527	City of New Brunswick	Albany Street, French Street	N/A	1.27
Somerset Street	NJ 27	City of New Brunswick	School Avenue	How Lane, Lincoln Highway, Veronica Avenue	0.56
Donald Goodkind Bridge	US 1	City of New Brunswick	N/A	N/A	0.37
Paul Robeson Boulevard	N/A	City of New Brunswick	Suydam Street	George's Road, Sandford Street	0.35
Morris Goodkind Bridge	US 1	City of New Brunswick	N/A	N/A	0.36
State Street	CR 611	City of Perth Amboy	New Brunswick Avenue, Smith Street	West Avenue	2.84
Convery Boulevard	NJ 35	City of Perth Amboy	N/A	N/A	2.29
Smith Street	CR 656	City of Perth Amboy	Convery Boulevard	Front Street	1.38
Main Street	CR 684	City of South Amboy	N/A	N/A	1.30
Upper Main Street	N/A	City of South Amboy	N/A	N/A	0.42
Washington Avenue	CR 670, CR 684	City of South Amboy	Main Street, Raritan Street, Washington Road	Main Street, Thompson Street	0.62
South Main Street	CR 535, CR 539, CR 615	Township of Cranbury	North Main Street	N/A	1.23
North Main Street	CR 535	Township of Cranbury	South Main Street	N/A	1.31
Dey Road	CR 614	Township of Cranbury	Scotts Corner Road	South River Road	3.25
North Main Street	CR 539	Township of Cranbury	N/A	Brick Yard Road	0.32
Cranbury Road	CR 535	Township of East Brunswick	N/A	N/A	0.86
N/A	SR 18	Township of East Brunswick	N/A	N/A	10.24
Cranbury Road	CR 535	Township of East Brunswick	N/A	N/A	3.15
N/A	US 1	Township of Edison	N/A	N/A	8.28
Woodbridge Avenue Extension	CR 514	Township of Edison	N/A	N/A	0.15
Plainfield Avenue	CR 529	Township of Edison	N/A	Mindy Lane, Stelton Road	2.04

Road Name	County/NJ/US Route	Municipality	Start Point	End Point	Length (Miles)
Oak Tree Road	CR 604	Township of Edison	Green Street, Lincoln Highway	Park Avenue	3.73
Union Valley Road	CR 615	Township of Monroe	Applegarth Road, Cranbury Station Road	Union Valley-Half Acre Road	0.97
Forsgate Drive	CR 612, NJ 32	Township of Monroe	Buckelew Avenue, East Railroad Avenue	N/A	3.44
Rhode Hall Road	CR 522	Township of Monroe	Cranbury-South River Road, Ridge Road	Browns Hall Road	1.00
Half Acre Road	CR 615	Township of Monroe	Prospect Plains Road	Gatzmer Avenue	2.37
Union Valley-Half Acre Road	CR 615	Township of Monroe	Union Valley Road	Prospect Plains Road	1.25
Matchaponix Avenue	CR 612	Township of Monroe	Pergola Avenue, Spotswood-Gravel Hill Road	Texas Road	1.94
Butcher Road	CR 619	Township of Monroe	Applegarth Road	Disbrow Hill Road	1.04
Prospect Plains Road	CR 614	Township of Monroe	N/A	N/A	3.15
Pergola Avenue	CR 612	Township of Monroe	Buckelew Avenue	Matchaponix Avenue, Spotswood-Gravel Hill Road	1.61
Perrineville Road	CR 625	Township of Monroe	Prodelin Way	Prospect Plains Road	3.90
Applegarth Road	CR 619	Township of Monroe	Butcher Road	Cranbury Station Road, Union Valley Road	2.40
George's Road	NJ 171, US 130	Township of North Brunswick	Paul Robeson Boulevard, Sandford Street	US 130	5.66
Lincoln Highway	NJ 27	Township of North Brunswick	Gallop Lane	N/A	1.65
Lincoln Highway	NJ 27	Township of North Brunswick	Larose Avenue	N/A	0.52
Spring Valley Road	N/A	Township of Old Bridge	N/A	N/A	0.60
Old Bridge Matawan Road	CR 516	Township of Old Bridge	N/A	N/A	6.19
Texas Road	CR 520	Township of Old Bridge	Matchaponix Avenue	Marlboro Road	2.98
Marlboro Road	CR 520	Township of Old Bridge	Texas Road	N/A	0.42
N/A	NJ 35	Township of Old Bridge	US 9	County Road	4.24
N/A	US 9	Township of Old Bridge	Texas Road	NJ 35	8.09
Washington Avenue	CR 665	Township of Piscataway	N/A	N/A	0.48
River Road	CR 622	Township of Piscataway	N/A	N/A	0.21
River Road	CR 622	Township of Piscataway	N/A	Orange	1.48

Road Name	County/NJ/US Route	Municipality	Start Point	End Point	Length (Miles)
River Road	CR 622	Township of Piscataway	Hoes Lane West, Johnson Drive	Runyon Avenue	1.74
Promenade Boulevard	N/A	Township of South Brunswick	N/A	N/A	1.35
Monmouth Junction Road	CR 522	Township of South Brunswick	N/A	N/A	1.35
Monmouth Junction Road	CR 522	Township of South Brunswick	N/A	N/A	2.29
New Road	N/A	Township of South Brunswick	N/A	N/A	2.84
N/A	US 130	Township of South Brunswick	N/A	N/A	5.97
Cranbury-South River Road	CR 535	Township of South Brunswick	Cranbury Road, Dunhams Corner Road, Helmetta Boulevard	Rhode Hall Road, Ridge Road	1.86
US 130	US 130	Township of South Brunswick	George's Road	N/A	0.53
Lincoln Highway	NJ 27	Township of South Brunswick	Main Street, Raymond Road	N/A	0.51
Lincoln Highway	NJ 27	Township of South Brunswick	N/A	N/A	0.44
Main Street	NJ 27	Township of South Brunswick	Kingston Terrace	Lincoln Highway, Raymond Road	0.25
St. George's Avenue	NJ 35	Township of Woodbridge	N/A	N/A	2.24
Randolph Avenue	CR 602	Township of Woodbridge	Blair Road, Roosevelt Avenue	Hart Street	0.39
Green Street	CR 604	Township of Woodbridge	N/A	Lincoln Highway, Oak Tree Road	1.36
Port Reading Avenue	CR 604	Township of Woodbridge	N/A	Arthur Avenue, Edwin Street, Roosevelt Avenue	1.98
Port Reading Avenue	CR 604	Township of Woodbridge	Rahway Avenue	Watson Avenue	0.28
Rahway Avenue	CR 514, CR 604	Township of Woodbridge	East Green Street, Green Street	Randolph Avenue, Woodbridge Road	2.74
Amboy Avenue	CR 653, NJ 35	Township of Woodbridge	Convery Boulevard	St. George's Avenue	1.69
West Avenue	CR 611	Township of Woodbridge	State Street	Port Reading Avenue	1.38
Green Street	CR 604	Township of Woodbridge	Barron Avenue	Amboy Avenue	0.28

Figure 15: Middlesex County Regional Network

