

# Mercer County Bicycle Demand vs. Improvement Cost Based on LF Cost and WSP Bicycle Demand Model

| Factor                          | Weight |
|---------------------------------|--------|
| Pop Density                     | 18%    |
| Job Density                     | 17%    |
| <b>Key Destinations</b>         |        |
| School Access                   | 4%     |
| University Access               | 8%     |
| Park Access                     | 4%     |
| Commercial Access               | 8%     |
| Bus Access                      | 3%     |
| Train Access                    | 8%     |
| <b>Equity Factors</b>           |        |
| Under 18 Density                | 6%     |
| Over 64 Density                 | 1%     |
| Zero Car HH Density             | 8%     |
| IP Ratio < 1.25 Density         | 5%     |
| Bike to Work Density            | 6%     |
| Walk or Transit to Work Density | 4%     |

The WSP "Demand Score" in this map shows a combination of elements that look at a variety of factors that influence demand for bicycle travel ranging from socio-economic factors to environmental factors to demographic and population geography factors.

Demographic factors such as population density under 18 and over 64, zero car household density, bike/ walk/ transit to work density as well as an income-poverty ratio density were used. In addition, geographic factors such as population density, job density, school/ university access, park access, commercial access, and bus/ train access were used. [SEE CHART ABOVE FOR WEIGHTS]

### Legend

- 1.57 - 2.08
- 2.09 - 2.58
- 2.59 - 3.08
- 3.09 - 3.58
- 3.59 - 4.08
- 4.09 - 4.58
- 4.59 - 5.09
- 5.10 - 5.59
- 5.60 - 6.09
- 6.10 - 6.59
- 6.60 - 7.09
- 7.10 - 7.59
- 7.60 - 8.10
- 8.11 - 8.60
- 8.61 - 9.10

### Improvement Linear Foot Cost

- \$0.00 - \$2.00
- \$2.01 - \$5.00
- \$5.01 - \$10.00
- \$10.01 - \$15.00
- \$15.01 - \$25.00
- \$25.01 - \$35.00
- \$35.01 - \$50.00
- \$50.01 - \$70.00
- \$70.01 - \$90.00
- \$90.01 - \$120.00
- \$120.01 - \$140.00
- \$140.01 - \$200.00



Mercer County Department of Planning  
Demand Score Analysis Data from WSP  
& The Greater Mercer Trail Plan (2019)  
DRAFT CONCEPT MAP: April 17, 2019

