

New Jersey Network Screening Lists, 2023

NJTPA - Pedestrian Intersection List (2016-2020 Crashes)

Developed by GPI for the New Jersey Department of Transportation (NJDOT)

Print Date: Friday, November 10, 2023
Delivery Date: August 10, 2023

Crash Filtering Criteria

Table with columns: Source Table, Query Logic, Source Table Field, Readable Field, Query Values, Description. Details filtering logic for Safety Voyager Accidents Table.

Equivalent Property Damage Only (ePDO) Score Weights

Table mapping Crash Severity (Fatal, Incapacitating Injury, Non-incapacitating Injury, Possible Injury, Property Damage Only) to KABCO Scale (K, A, B, C, O) and resulting 2022 Dollars, ePDO Value (K=A), and eC Value (K=A).

ePDO TOTAL = [K]\*[ePDO\_K]+[A]\*[ePDO\_A]+[B]\*[ePDO\_B]+[C]\*[ePDO\_C]+[O]\*[ePDO\_O]

eC TOTAL = [K]\*[eC\_K]+[A]\*[eC\_A]+[B]\*[eC\_B]+[C]\*[eC\_C]+[O]\*[eC\_O]

EJ Area Thresholds

Table showing EJ Area Thresholds for Minority % and Low-Income % with corresponding values (e.g., >= 45%, >= 22%).

The Network Screening List is based upon a programmatic analysis of statewide locations utilizing data supplied by third party sources. Because of limitations in the data supplied and the method used to develop the list, users should be aware that the rankings of locations and data for locations may be incorrect and/or incomplete.

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Main data table with columns: Rank (ePDO), County Rank (ePDO), MPO, County, Municipality, SRI, Milepost, Route Name, Minor Route, Route Name, Total Crashes (K, A, B, C, O), Weighted Score (ePDO), Weighted Score (eC), Is EJ Area?, Is Census Block Group Pop. < 1,000?, NJDOT SLD - Roadway Jurisdiction of Major Route, EJScreen - Census Block Group Population (Lowest Value), EJScreen - Minority % (Highest Value), EJScreen - Low-Income % (Highest Value).











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## Crash Filtering Criteria

| Source Table                      | Query Logic | Source Table Field | Readable Field      | Query Values  | Description   |
|-----------------------------------|-------------|--------------------|---------------------|---|---|
| Safety Voyager<br>Accidents Table | AND         | year               | Year                | BETWEEN 2016 AND 2020   | Years 2016, 2017, 2018, 2019, 2020  |
|                                   |             | mun_cty_co         | County              | IN ('02', '07', '09', '10', '12', '13', '14', '15', '16', '18', '19', '20', '21') | 02 - Bergen; 07 - Essex; 09 - Hudson; 10 - Hunterdon; 12 - Middlesex; 13 - Monmouth; 14 - Morris; 15 - Ocean; 16 - Passaic; 18 - Somerset; 19 - Sussex; 20 - Union; 21 - Warren |
|                                   |             | road_sys_code      | Road System         | IN ('05', '06', '07', '08')   | 05 - County; 06 - County Authority; 07 - Municipal; 08 - Municipal Authority Park or Institution  |
|                                   |             | intersection       | At Intersection     | = 'Y'   | Y - Yes   |
|                                   |             | crash_type         | Crash Type          | = '13'  | 13 - Pedestrian   |
|                                   | OR          | ped_involved       | Pedestrian Involved | > 0   | At least one pedestrian involved  |
|                                   |             | cyclist_involved   | Cyclist Involved    | = 0 OR IS NULL  | No pedacyclist involved   |

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| Equivalent Property Damage Only (ePDO) Score Weights |             |              |                  |                |
|--|-------------|--------------|------------------|----------------|
| Crash Severity                                       | KABCO Scale | 2022 Dollars | ePDO Value (K=A) | eC Value (K=A) |
| Fatal  | K           | \$14,277,743 | 56.9173          | 5.2470         |
| Incapacitating Injury                                | A           | \$826,309    | 56.9173          | 5.2470         |
| Non-incapacitating Injury                            | B           | \$249,666    | 17.1973          | 1.5854         |
| Possible Injury                                      | C           | \$157,482    | 10.8476          | 1.0000         |
| Property Damage Only                                 | O           | \$14,518     | 1.0000           | -              |

$$ePDO_{TOTAL} = [K]^* [ePDO_k] + [A]^* [ePDO_a] + [B]^* [ePDO_b] + [C]^* [ePDO_c] + [PDO_o] * [ePDO_{100}]$$

$$eC_{TOTAL} = [K]^* [eC_k] + [A]^* [eC_a] + [B]^* [eC_b] + [C]^* [eC_c] + [PDO_o] * [0]$$

| EJ Area Thresholds |    |     |
|--------------------|----|-----|
| Minority %         | >= | 45% |
| Low-Income %       | >= | 22% |

| Rank (ePDO) | County Rank (ePDO) | MPO   | County  | Municipality  | Major Route |          |                    | Minor Route |          |                  | Crashes by Severity (2017-2020) |   |   |   |   | Weighted Score (ePDO) | Weighted Score (eC) | is EJ Area? | Is Census Block Group Pop. < 1,000? | NJDOT SLD - Roadway Jurisdiction of Major Route | EIScreen - Census Block Group Population (Lowest Value) | EIScreen - Minority % (Highest Value) | EIScreen - Low-Income % (Highest Value) |     |
|-------------|--------------------|-------|---------|---------------|-------------|----------|--------------------|-------------|----------|------------------|---------------------------------|---|---|---|---|-----------------------|---------------------|-------------|-------------------------------------|---|---|---------------------------------------|---|-----|
|             |                    |       |         |               | SRI         | Milepost | Route Name         | SRI         | Milepost | Route Name       | Total Crashes                   | K | A | B | C |                       |                     |             |                                     |   |   |                                       |   | O   |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000649    | 1.38     | PASSAIC COUNTY 649 | 16081182    | 0.00     | Elison Place     | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 509                                   | 100%                                    | 83% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000649    | 0.80     | PASSAIC COUNTY 649 | 16081491    | 0.76     | 20th Avenue      | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 509                                   | 100%                                    | 81% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16081496    | 1.26     | RIVER ST           | 16000647    | 2.71     | Straight Street  | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | Municipal   | 72                                    | 100%                                    | 83% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000601    | 6.03     | PASSAIC COUNTY 601 | 16081041    | 0.00     | Newark Avenue    | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 0                                     | 99%                                     | 73% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16081511    | 0.01     | NAGLE ST           | 16000638    | 0.00     | Murray Avenue    | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | Municipal   | 0                                     | 98%                                     | 76% |
| 2432        | 296                | NJTPA | PASSAIC | PASSAIC CITY  | 16000601    | 2.54     | PASSAIC COUNTY 601 | 16000601_S  | 2.54     | Main Avenue      | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 543                                   | 100%                                    | 97% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000648    | 0.75     | PASSAIC COUNTY 648 | 16081173    | 0.00     | Crosby Place     | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 790                                   | 100%                                    | 83% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000646    | 3.40     | PASSAIC COUNTY 646 | 16081318    | 0.17     | Don Bosco Avenue | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 72                                    | 100%                                    | 90% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000649    | 1.66     | PASSAIC COUNTY 649 | 16081118    | 0.68     | 12th Avenue      | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 707                                   | 100%                                    | 83% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16081269    | 0.10     | E 13TH ST          | 16000652    | 1.15     | 5th Avenue       | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | Municipal   | 507                                   | 100%                                    | 81% |
| 2432        | 296                | NJTPA | PASSAIC | PASSAIC CITY  | 16000601    | 2.68     | PASSAIC COUNTY 601 | 16071687    | 1.25     | Passaic Avenue   | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 823                                   | 100%                                    | 97% |
| 2432        | 296                | NJTPA | PASSAIC | WAYNE TWP     | 00000504    | 10.27    | ROUTE 504          | 16141446    | 0.62     | Hinchman Avenue  | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | NO  | County  | 1,424                                 | 57%                                     | 30% |
| 2432        | 296                | NJTPA | PASSAIC | PATERSON CITY | 16000638    | 0.77     | PASSAIC COUNTY 638 | 00000019    | 2.69     | NJ 19            | 1                               | 0 | 0 | 0 | 1 | 0                     | 10.85               | 1.00        | YES                                 | YES   | County  | 0                                     | 100%                                    | 81% |