



New Jersey Network Screening Lists, 2023

NJTPA - Pedestrian/Bicycle Intersection List (2016-2020 Crashes)

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

Print Date: Friday, November 3, 2023
Delivery Date: August 10, 2023

Crash Filtering Criteria

Table with 6 columns: Source Table, Query Logic, Source Table Field, Readable Field, Query Values, Description. Contains filtering rules for Safety Voyager Accidents Table.

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.

The New Jersey Department of Transportation, its officers, employees or agents shall not be liable for damages or losses of any kind arising out of or in connection with the use or performance of information, including but not limited to, damages or losses caused by reliance upon the accuracy or timeliness of any such information.

Equivalent Property Damage Only (ePDO) Score Weights. Table with columns: Crash Severity, KABCO Scale, 2022 Dollars, ePDO Value (K-A), eC Value (K-A).

ePDO Total = (K)\*ePDO\_e + (A)\*[ePDO\_b] + (B)\*[ePDO\_c] + (C)\*[ePDO\_d] + (D)\*[ePDO\_e]

eC Total = (K)\*[eC\_e] + (A)\*[eC\_b] + (B)\*[eC\_c] + (C)\*[eC\_d] + (D)\*[eC\_e]

EJ Area Thresholds. Table with columns: Category, Threshold Value, Percentage.

Main data table with columns: Rank (ePDO), County Rank (ePDO), MPO, County, Municipality, SRI, Milepost, Route Name, Minor Route, Crashes by Severity (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, EJ Screen - Census Block Group Population (Lowest Value), EJ Screen - Minority % (Highest Value), EJ Screen - Low-Income % (Highest Value).



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Crash Filtering Criteria table with columns: Source Table, Query Logic, Source Table Field, Readable Field, Query Values, Description. Includes filters for Safety Voyager Accidents Table and various geographic and crash-related criteria.

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Equivalent Property Damage Only (ePDO) Score Weights table. Columns: Crash Severity, KABCO Scale, 2022 Dollars, ePDO Value (K-A), eC Value (K-A).

ePDO Total = (K)\*[ePDO\_A]\*[A]\*[ePDO\_B]\*[B]\*[ePDO\_C]\*[C]\*[ePDO\_D]\*[D]\*[ePDO\_O]\*[O]

eC Total = (K)\*[eC\_A]\*[A]\*[eC\_B]\*[B]\*[eC\_C]\*[C]\*[eC\_D]\*[D]\*[eC\_O]\*[O]

EJ Area Thresholds table. Columns: Category, Threshold, Percentage.

Main data table with columns: Rank (ePDO), County Rank (ePDO), MPO, County, Municipality, SRI, Milepost, Route Name, Total Crashes, Crashes by Severity (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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Source Table	Query Logic	Source Table Field	Readable Field	Query Values	Description
Safety Voyager 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	
	OR	crash_type	Crash Type	IN ('13', '14')	13 - Pedestrian; 14 - Pedacyclist
	ped_involved	Pedestrian Involved	> 0	At least one pedestrian involved	
	cyclist_involved	Cyclist Involved	> 0	At least one pedacyclist involved	

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Equivalent Property Damage Only (ePDD) Score Weights				
Crash Severity	KABCO Scale	2022 Dollars	ePDD 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	-

$$ePDD_{Total} = [K]^*ePDD_k + [A]^*ePDD_a + [B]^*ePDD_b + [C]^*ePDD_c + [O]^*ePDD_o$$

$$eC_{Total} = [K]^*eC_k + [A]^*eC_a + [B]^*eC_b + [C]^*eC_c + [O]^*eC_o$$

EJ Area Thresholds		
Minority %	>=	45%
Low-income %	>=	22%

Rank (ePDD)	County Rank (ePDD)	MPO	County	Municipality	Major Route			Minor Route			Crashes by Severity (2017-2020)						Weighted Score (ePDD)	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)
					SRI	Milepost	Route Name	SRI	Milepost	Route Name	Total Crashes	K	A	B	C	O								
6145	280	NJTPA	MONMOUTH	ASBURY PARK CITY	13031052	0.54	COOKMAN AVE	13031036	0.93	Bond Street	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	502	99%	72%
6145	280	NJTPA	MONMOUTH	LONG BRANCH CITY	13251351	0.00	BROADWAY	00000537	67.91	N/A	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	450	62%	56%
6145	280	NJTPA	MONMOUTH	BRIELLE BORO	13081100	0.00	BRANDYWINE E	13081101	0.46	Higgins Avenue	1	0	0	0	0	1	1.00	0.00	NO	YES	Municipal	998	10%	7%
6145	280	NJTPA	MONMOUTH	FREEHOLD BORO	00000537	51.58	ROUTE 537	00000033B	2.92	Park Avenue	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	889	82%	51%
6145	280	NJTPA	MONMOUTH	ASBURY PARK CITY	13000040A	0.05	MONMOUTH COUNTY 40 A	13031013	0.27	Sumerfield Avenue	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	471	99%	72%
6145	280	NJTPA	MONMOUTH	MARLBORO TWP	13000003	9.24	MONMOUTH COUNTY 3	13281048	0.00	Church Lane	1	0	0	0	0	1	1.00	0.00	YES	NO	County	2,525	47%	5%
6145	280	NJTPA	MONMOUTH	WALL TWP	13521414	0.00	GULLY RD	130000181	5.03	Belmar Boulevard	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	976	19%	31%
6145	280	NJTPA	MONMOUTH	NEPTUNE CITY BORO	13341043	0.50	FIFTH AV	13351386	0.65	Union Avenue	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	602	99%	58%
6145	280	NJTPA	MONMOUTH	BRIELLE BORO	13521092	1.50	UNION ST	13081039	0.00	Chester Avenue	1	0	0	0	0	1	1.00	0.00	NO	YES	Municipal	649	10%	18%
6145	280	NJTPA	MONMOUTH	OCEAN TWP	13000015	2.89	MONMOUTH COUNTY 15	13371065	0.00	Orange Street	1	0	0	0	0	1	1.00	0.00	YES	YES	County	441	19%	30%
6145	280	NJTPA	MONMOUTH	ASBURY PARK CITY	13031036	0.90	BOND ST	N/A	N/A	1	0	0	0	0	1	1.00	0.00	YES	YES	Municipal	502	99%	72%	
6145	280	NJTPA	MONMOUTH	WALL TWP	00000524	37.90	ROUTE 524	13521195	0.95	Baileys Corner Road	1	0	0	0	0	1	1.00	0.00	NO	NO	County	1,420	8%	12%
6145	280	NJTPA	MONMOUTH	BELMAR BORO	130000183	3.36	MONMOUTH COUNTY 18 III	13061009	0.00	2nd Avenue	1	0	0	0	0	1	1.00	0.00	NO	YES	County	0	14%	17%