

New Jersey Network Screening Lists, 2023

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

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

Print Date: Friday, October 6, 2023
Delivery Date: August 10, 2023

Crash Filtering Criteria table with columns: Source Table, Query Logic, Source Table Field, Readable Field, Query Values, Description. It details filters for year, county, road system, intersection, crash type, and pedestrian involvement.

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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Equivalent Property Damage Only (ePDO) Score Weights table. Columns: Crash Severity, KABCO Scale, 2023 Dollars, ePDO Value (K-A), eValue (K-A). Rows include Fatal, Incapacitating Injury, Non-incapacitating Injury, Possible Injury, and Property Damage Only.

Formulas for ePDO TOTAL and eC TOTAL calculations based on crash severity weights and counts.

EJ Area Thresholds table. Columns: Minority %, Low-income %, and corresponding percentage thresholds (e.g., >= 45%, >= 22%).

Main data table with columns: Rank (ePDO), County Rank, MPO, County, Municipality, SRI, Mile Post - From, Mile Post - To, Corridor Length, Route, Total Crashes, Weighted Score (ePDO), Is EJ Area?, Is Census Block Group Pop < 1,000?, NIDOT SLD - Lane Count, NIDOT SLD - Roadway Jurisdiction, NIDOT SLD - Functional Class, ARD - Divided By, EJScreens - Census Block Group Population (Lowest Value), EJScreens - Minority % (Highest Value), EJScreens - Low-Income % (Highest Value). Contains 2856 rows of screening data.

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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	Is 'Y'	Y - Yes
		crash_type	Crash Type	IN ('13', '14')	13 - Pedestrian; 14 - Pedacyclist
	OR	ped_involved	Pedestrian Involved	> 0	At least one pedestrian involved
		cyclist_involved	Cyclist Involved	> 0	At least one bicyclist involved

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Equivalent Property Damage Only (ePDO) Score Weights				
Crash Severity	KABCO Scale	2023 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	PDO	\$14,518	1.0000	-

$$ePDO_{TOTAL} = [K] * [ePDO_K] + [A] * [ePDO_A] + [B] * [ePDO_B] + [C] * [ePDO_C] + [PDO] * [ePDO_{PDO}]$$

$$eC_{TOTAL} = [K] * [eC_K] + [A] * [eC_A] + [B] * [eC_B] + [C] * [eC_C] + [PDO] * [0]$$

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

Rank (ePDO)	County Rank	MPO	County	Municipality	SRI	Mile Post - From	Mile Post - To	Corridor Length	Route	Crashes by Severity (2016-2020)					Weighted Score (ePDO)	Weighted Score (eC)	Is EJ Area?	Is Census Block Group Pop. < 1,000?	NJDOT SLD - Lane Count	NJDOT SLD - Roadway Jurisdiction	NJDOT SLD - Functional Class	ARD - Divided By	EJScreen - Census Block Group Population (Lowest Value)	EJScreen - Minority % (Highest Value)	EJScreen - Low-Income % (Highest Value)	
										Total Crashes	K	A	B	C												O
2856	421	NITPA	BERGEN	CARLSTADT BORO	02051080_	0.27	1.23	0.96	GOTHAM PKWY	1	0	0	0	0	1	1.00	0	YES	YES	2	Municipal	Major Collector	None	754	75%	58%
2856	421	NITPA	BERGEN	EAST RUTHERFORD BORO	020005692_	0.00	0.35	0.35	BERGEN COUNTY 569 II	1	0	0	0	0	1	1.00	0	YES	YES	2	County	Minor Arterial	Painted Median	543	100%	78%
2856	421	NITPA	BERGEN	ELMWOOD PARK BORO	02111099_	0.37	0.68	0.31	PHILIP AVE	1	0	0	0	0	1	1.00	0	YES	YES	2	Municipal	Local	None	373	100%	43%
2856	421	NITPA	BERGEN	SADDLE BROOK TWP	020000561_	1.81	2.81	1.00	BERGEN COUNTY 56 I	1	0	0	0	0	1	1.00	0	YES	YES	2	County	Minor Arterial	Painted Median	467	58%	47%
2856	421	NITPA	BERGEN	CLIFFSIDE PARK BORO	02491100_	0.20	0.38	0.18	LAWTON AVE	1	0	0	0	0	1	1.00	0	YES	YES	2	Municipal	Major Collector	None	495	83%	66%