

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

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	
	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

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. Analysis and engineering judgement should be used when applying insights and assessing network locations. The New Jersey Department of Transportation makes no guarantees as to the accuracy, completeness, or content of the information. This list is subject to update as more information becomes available.

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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	0.0000

$ePDO_{TOTAL} = [K]*ePDO_A + [A]*ePDO_B + [B]*ePDO_C + [C]*ePDO_O + [PDO]*ePDO_{PDO}$
 $eC_{TOTAL} = [K]*eC_A + [A]*eC_B + [B]*eC_C + [C]*eC_O + [PDO]*eC_{PDO}$

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
538	94	NJTPA	BERGEN	LEONIA BORO	020000563	3.47	BERGEN COUNTY 56 III	02291082	0.61	Glenwood Avenue	3	0	0	2	1	0	45.24	4.17	YES	YES	County	389	88%	52%
538	94	NJTPA	BERGEN	ORADELL BORO	00000503	10.49	ROUTE 503	02411070	0.43	Park Avenue	3	0	0	2	1	0	45.24	4.17	YES	YES	County	627	72%	38%
538	94	NJTPA	BERGEN	TEANECK TWP	020000563	1.31	BERGEN COUNTY 56 III	02501402	1.75	Queen Anne Road	3	0	0	2	1	0	45.24	4.17	YES	YES	County	537	79%	25%

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Table with columns: Source Table, Query Logic, Source Table Field, Readable Field, Query Values, Description. Details filtering rules for Safety Voyager Accidents Table based on year, county, road system, and crash type.

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, 2022 Dollars, ePDO Value (K=A), and eC Value (K=A).

ePDO TOTAL = [K]*[ePDO_A]*[A]*[ePDO_B]+[B]*[ePDO_C]+[C]*[ePDO_D]+[D]*[ePDO_PDD]

eC TOTAL = [K]*[eC_A]*[A]*[eC_B]+[B]*[eC_C]+[C]*[eC_D]+[D]*[eC_PDD]

EJ Area Thresholds table showing Majority % (>= 45%) and Low-Income % (>= 22%).

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Main data table with columns: Rank (ePDO), County Rank (ePDO), MPO, County, Municipality, SRI, Milepost, Major Route (Route Name), Minor Route (Route Name), Crashes by Severity (Total Crashes, K, A, B, C, O), Weighted Score (ePDO), Weighted Score (eC), 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), and EIScreen - Low-Income % (Highest Value).

