

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 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. It details filtering rules for Safety Voyager Accidents Table based on year, location, and crash type.

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

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]*[eC PDO]

EJ Area Thresholds

Table with columns: Category, Threshold 1, Threshold 2. Rows: Minority %, Low-income %.

Main data table with columns: Rank (ePDO), County Rank (ePDO), MPO, County, Municipality, SRI, Milepost, Route Name, Minor Route, Crashes by Severity (A, B, C, O), Weighted Score, Weighted Score (eC), Is EJ Area?, Is Census Block Group Pop. < 1,000?, NJDOT SLD - Roadway Jurisdiction of Major, EJScreens - Census Block Group Population (Lowest Value), EJScreens - Minority % (Highest Value), EJScreens - 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 OR	year	Year	BETWEEN 2016 AND 2020	Years 2016, 2017, 2018, 2019, 2020
		mun_cty_co	County	IN ('02', '07', '09', '10', '11', '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	IN ('13', '14')	13 - Pedestrian; 14 - Pedalcyclist
		ped_involved	Pedestrian Involved	> 0	At least one pedestrian involved
		cyclist_involved	Cyclist Involved	> 0	At least one pedalcyclist involved

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	\$926,309	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	D	\$14,518	1.0000	-

$ePDO_{Total} = [K]^2[ePDO_A]^2[A]^2[ePDO_B]^2[B]^2[ePDO_C]^2[C]^2[ePDO_D]^2[D]^2[ePDO_{Other}]$

$eC_{Total} = [K]^2[eC_A]^2[A]^2[eC_B]^2[B]^2[eC_C]^2[C]^2[eC_D]^2[D]^2[eC_{Other}]$

EJ Area Thresholds

Minority %	>=	45%
Low-income %	>=	22%

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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	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	
1746	483	NJTPA	ESSEX	BELLEVILLE TWP	07011282	0.26	JORALEMON ST	07011086	0.00		Dewitt Street	1	0	0	1	0	0	17.20	1.59	YES	YES	Municipal	438	92%	44%
1746	483	NJTPA	ESSEX	NEWARK CITY	00000510	26.67	NEWARK CITY	07091709	1.38	07091709	ROUTE 510	1	0	0	1	0	0	17.20	1.59	YES	YES	Municipal	369	100%	74%
1746	483	NJTPA	ESSEX	NEWARK CITY	07141903	1.33	NEWARK CITY	07141261	0.09	07141261	S 12TH ST	1	0	0	1	0	0	17.20	1.59	YES	YES	Municipal	372	100%	80%
1746	483	NJTPA	ESSEX	EAST ORANGE CITY	07171203	0.86	EAST ORANGE CITY	07191831	1.95	07191831	MAIN ST	1	0	0	1	0	0	17.20	1.59	YES	YES	Municipal	325	100%	88%
1746	483	NJTPA	ESSEX	IRVINGTON TWP	07000603	0.15	IRVINGTON TWP	07091084	0.00	07091084	ESSEX COUNTY 603	1	0	0	1	0	0	17.20	1.59	YES	YES	County	526	100%	80%

