

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						
Source Table	Query Logic	Source Table Field	Readable Field	Query Values	Description	
Safety Voyager Accidents Table	AND	year	Year	BETWEEN 2016 AND 2020 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	
		mun_cty_co	County			
OR		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	

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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	\$246,666	17.1973	1.5854
Possible Injury	C	\$157,482	10.8476	1.0000
Property Damage Only	O	\$14,518	1.0000	-

$$ePDO_{TOTAL} = (K)^n * (ePDO_A)^n * (ePDO_B)^n * (ePDO_C)^n * (ePDO_O)^n * (ePDO_{TOTAL})$$

$$eC_{TOTAL} = (K)^n * (eC_A)^n * (eC_B)^n * (eC_C)^n * (eC_O)^n * (eC_{TOTAL})$$

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	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											
1	1	NJTPA	ESSEX	IRVINGTON TWP	07000603	1.47	ESSEX COUNTY 603	07091006	0.00		Maple Avenue	25	0	4	1	15	5	412.58	37.57	YES	YES	County	331	100%	98%		
2	2	NJTPA	ESSEX	NEWARK CITY	00000510	28.84	ROUTE 510	07141904	0.85		Dr Martin Luther King Jr Boulevard	11	0	2	0	8	1	201.62	18.49	YES	YES	Municipal	454	100%	100%		
3	3	NJTPA	ESSEX	EAST ORANGE CITY	00000508	7.95	ROUTE 508	07191831	1.46		South Harrison Street	9	1	1	1	3	3	166.57	15.08	YES	YES	County	418	100%	72%		
4	4	NJTPA	ESSEX	NEWARK CITY	00000510	29.42	ROUTE 510	07141914	0.33		Park Place	11	0	1	2	6	2	158.40	14.42	YES	YES	Municipal	718	100%	69%		
5	1	NJTPA	HUDSON	WEST NEW YORK TOWN	09121076	0.34	60TH ST	09121045	0.43		Palisade Avenue	6	0	2	0	4	0	157.23	14.49	YES	YES	Municipal	205	100%	95%		
6	5	NJTPA	ESSEX	NEWARK CITY	00000510	29.27	ROUTE 510	07141865	1.33		Broad Street	6	0	2	1	2	1	153.73	14.08	YES	YES	Municipal	718	100%	100%		
7	1	NJTPA	SOMERSET	BOUND BROOK BORO	00000527	53.48	ROUTE 527	08004079	1.08		Hamilton Street	5	1	1	1	2	0	152.73	14.08	YES	YES	County	602	88%	43%		
8	6	NJTPA	ESSEX	MONTCLAIR TWP	07000655	1.63	ESSEX COUNTY 655	07131116	0.40		North Fullerton Avenue	4	0	2	2	0	0	148.23	13.66	YES	YES	County	496	53%	69%		
9	7	NJTPA	ESSEX	NEWARK CITY	07141865	0.49	BROAD ST	07141121	0.00		Brunswick Street	7	0	1	3	3	0	141.05	13.00	YES	YES	Municipal	352	100%	94%		
10	1	NJTPA	BERGEN	FORT LEE BORO	00000505	7.74	N/A	N/A	N/A		N/A	8	0	1	3	2	2	132.20	12.00	YES	YES	County	563	77%	51%		
11	8	NJTPA	ESSEX	NEWARK CITY	07091882	0.48	AVON AVE	07141903	2.01		South 12th Street	7	0	1	3	2	1	131.20	12.00	YES	YES	Municipal	331	100%	98%		
12	1	NJTPA	PASSAIC	PATERSON CITY	16081533	0.00	BROADWAY	16081447	0.24		Broadway	7	0	1	1	5	0	128.35	11.83	YES	YES	Municipal	72	100%	83%		
13	9	NJTPA	ESSEX	NEWARK CITY	07141844	0.47	FERRY ST	07141908	0.12		Jackson Street	7	0	1	2	3	1	124.85	11.42	YES	YES	Municipal	615	100%	93%		
14	2	NJTPA	PASSAIC	PATERSON CITY	16000649	1.25	PASSAIC COUNTY 649	16081492	1.08		Park Avenue	6	0	1	2	3	0	123.85	11.42	YES	YES	County	509	100%	83%		
15	3	NJTPA	PASSAIC	WANAUQUE BORO	00000511	21.90	ROUTE 511	16011104	1.19		2nd Avenue	6	1	0	2	3	0	123.85	11.42	YES	YES	County	771	42%	32%		
16	1	NJTPA	UNION	CRANFORD TWP	20000615	3.54	UNION COUNTY 615	200313632	0.27		Lincoln Avenue East	7	1	0	3	1	2	121.36	11.00	YES	YES	County	649	51%	26%		
17	2	NJTPA	BERGEN	LEONIA BORO	02000563	3.47	BERGEN COUNTY 56 III	02291082	0.61		Glenwood Avenue	6	0	1	3	1	1	120.36	11.00	YES	YES	County	389	88%	52%		
18	10	NJTPA	ESSEX	IRVINGTON TWP	07000603	0.84	ESSEX COUNTY 603	07091101	0.20		Civic Sq	11	0	0	3	6	2	118.68	10.76	YES	YES	County	553	100%	80%		
19	1	NJTPA	MIDDLESEX	PERTH AMBOY CITY	12000681	0.40	MIDDLESEX COUNTY 68 I	12161185	0.92		Mead Street	6	0	1	1	4	0	117.51	10.83	YES	YES	County	670	62%	46%		
20	11	NJTPA	ESSEX	MILLBURN TWP	00000527	71.19	ROUTE 527	00000577	0.22		Springfield Avenue	6	0	1	1	4	0	117.51	10.83	YES	YES	County	670	62%	46%		
21	12	NJTPA	ESSEX	NEWARK CITY	07141885	2.14	18TH AVE	07141895	2.02		Bergen Street	7	1	0	2	2	2	115.01	10.42	YES	YES	County	202	100%	97%		
22	2	NJTPA	HUDSON	JERSEY CITY	09061559	0.50	COLUMBUS DR	09061721	0.19		Marin Boulevard	3	1	1	0	0	1	114.83	10.49	YES	YES	Municipal	0	99%	45%		
23	2	NJTPA	HUDSON	JERSEY CITY	00000501	27.35	ROUTE 501	09061682	0.44		Seaview Avenue	3	0	2	0	0	1	114.83	10.49	YES	YES	County	498	100%	71%		
24	13	NJTPA	ESSEX	NEWARK CITY	07141819	1.34	PORT ST	07141820	0.06		Doremas Avenue	2	0	2	0	0	0	113.83	10.49	YES	NO	Municipal	1,391	88%	0%		
25	3	NJTPA	ESSEX	NEWARK CITY	07141405	0.00	GARRISON ST	07141905	0.40		Wilson Avenue	2	0	2	0	0	0	113.83	10.49	YES	NO	Municipal	1,127	94%	55%		
26	3	NJTPA	BERGEN	MARLTON BORO	00000621	1.16	BERGEN COUNTY 62 I	00000621	2.47		Englewood	2	0	2	0	0	0	113.83	10.49	YES	YES	County	216	78%	32%		
27	3	NJTPA	ESSEX	EAST ORANGE CITY	00000510	26.33	ROUTE 510	07051095	0.00		Sunnyside Trail	2	0	2	0	0	0	113.83	10.49	YES	YES	County	417	100%	74%		
28	16	NJTPA	ESSEX	NEWARK CITY	07141844	0.28	FERRY ST	07141362	0.16		Jefferson Street	5	0	1	2	2	0	113.01	10.42	YES	YES	Municipal	615	100%	93%		
29	16	NJTPA	ESSEX	NEWARK CITY	07141865	1.03	BROAD ST	07141290	0.16		Franklin Street	5	0	1	2	2	0	113.01	10.42	YES	YES	Municipal	718	100%	100%		
30	18	NJTPA	ESSEX	IRVINGTON TWP	07000603	1.39	ESSEX COUNTY 603	07091053	0.00		Bruen Avenue	7	1	0	0	5	1	112.16	10.25	YES	YES	County	311	100%	98%		
31	4	NJTPA	BERGEN	FAIR LAWN BORO	02000676	1.10	BERGEN COUNTY 76	02171401	1.25		Plaza Road	6	0	1	1	3	1	107.66	9.83	YES	YES	County	377	48%	30%		
32	19	NJTPA	ESSEX	NEWARK CITY	07141865	1.10	NEWARK CITY 56 I	00000510	29.27		Market Street	5	0	1	1	3	0	106.66	9.83	YES	YES	Municipal	718	100%	100%		
33	20	NJTPA	NEWARK CITY	00000505	3.45	CLIFTON CITY	07141900	3.16		Clifton Avenue	8	0	0	1	8	0	103.98	9.59	YES	YES	County	633	100%	63%			
34	5	NJTPA	BERGEN	TEANECK TWP	02000600	1.18	BERGEN COUNTY 60	02601141	0.00		American Legion Drive	5	1	0	2	1	1	103.16	9.42	YES	YES	County	528	72%	44%		
35	21	NJTPA	ESSEX	MONTCLAIR TWP	07081356	0.53	GLENRIDGE AVE	07131014	0.00		Pine Street	4	0	1	2	1	0	102.16	9.42	YES	YES	Municipal	464	98%	55%		
36	21	NJTPA	ESSEX	NEWARK CITY	07141241	0.50	12TH AVE	07141895	2.93		Bergen Street	4	0	1	2	1	0	102.16	9.42	YES	YES	Municipal	454	100%	100%		
37	2	NJTPA	UNION	PLAINFIELD CITY	20000601	1.57	PLAINFIELD CITY 601	00000531	8.26		Park Avenue	4	0	1	2	1	0	102.16	9.42	YES	YES	County	931	100%	74%		
38	4	NJTPA	PASSAIC	PASSAIC CITY	16000619	0.25	PASSAIC COUNTY 619	16071120	0.05		Essex Street	4	0	1	2	1	0	102.16	9.42	YES	YES	Municipal	371	100%	97%		
39	21	NJTPA	ESSEX	NEWARK CITY	07000603	3.30	ESSEX COUNTY 603	07091883	1.48		Covert Street	4	0	1	2	1	0	102.16	9.42	YES	YES	Municipal	202	100%	100%		
40	24	NJTPA	ESSEX	IRVINGTON TWP	07141885	0.90	18TH AVE	07091879	0.69		Eastern Parkway	6	0	0	1	4	1	101.31	9.25	YES	YES	Municipal	371	100%	98%		
41	25	NJTPA	ESSEX	NEWARK CITY	00000510	27.24	ROUTE 510	07141163	1.44		South 19th Street	5	0	1	0	4	0	100.31	9.25	YES	YES	Municipal	369	100%	74%		
42	25	NJTPA	ESSEX	EAST ORANGE CITY	00000508	8.81	ROUTE 508	07141876	0.64		South Munn Avenue	5	0	1	0	4	0	100.31	9.25	YES	YES	County	48	100%	74%		
43	27	NJTPA	HUDSON	NUTLEY TWP	07000645	2.69	ESSEX COUNTY 645	07000648	0.87		Centre Street																

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

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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 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								
97	7	NJTPA	UNION	NEW PROVIDENCE BORO	20000647	1.44	UNION COUNTY 647	20111001	1.44	Central Avenue	3	0	1	0	2	0	78.61	7.25	NO	NO	County	1,182	38%	13%
97	2	NJTPA	MIDDLESEX	NEW BRUNSWICK CITY	12141213	0.20	HANDY ST	12141062	0.00	Drift Street	3	0	1	0	2	0	78.61	7.25	YES	NO	Municipal	1,016	97%	87%
97	7	NJTPA	UNION	ELIZABETH CITY	20000623	1.34	UNION COUNTY 623	200413861	0.29	West Grand Street	3	0	1	0	2	0	78.61	7.25	YES	YES	Municipal	577	100%	74%
97	55	NJTPA	ESSEX	NEWARK CITY	07141865	0.73	BROAD ST	07141913	2.25	Chestnut Street	3	0	1	0	2	0	78.61	7.25	YES	YES	Municipal	352	100%	83%

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	-

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

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

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