





**New Jersey Network Screening Lists, 2019**

Middlesex - Pedestrian/Bicycle Intersection List (2012-2016 Crashes)

Developed by GPI, Jacobs, and MBO Engineering for the New Jersey Department of Transportation (NJDOT)

Submitted: Wednesday, May 1, 2019

Printed: Friday, May 31, 2019

**Crash Filtering Criteria**

Table with 3 columns: Filter, Criteria, Values. Includes Year (2012-2016), Road Sys Code (5-8), Intersection (1), Crash Type (13-14), and Pedestrian involvement (>0).

**Equivalent Property Damage Only (ePDO) Score Weights**

Table with 5 columns: Crash Severity, KABCO Scale, 2016 Dollars, ePDO Value (K=A), eC Value (K=A). Rows include Fatal, Incapacitating, Non-incapacitating, Possible Injury, and Property Damage Only.

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]

Main data table with 18 columns: County Rank, Rank (Weighted Score), MPO, County, Town, Major Route (SRI, Milepost, Route Name), Minor Route (SRI, MP, Route Name), Crashes by Severity (2012-2016) (Total Crashes, K, A, B, C, No Injury), Roadway System, Weighted Score (ePDO), Weighted Score (eC).















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### Crash Filtering Criteria

Crash	AND	Year	IN [2012, 2013, 2014,2015,2016]	Years 2012, 2013, 2014, 2015, 2016
		County	IN [2,7,9,10,12,13,14,15,16,18,19,20,21]	2 - Bergen; 7 - Essex; 9 - Hudson; 10 - Hunterdon; 12 - Middlesex; 13 - Monmouth; 14 - Morris; 15 - Ocean; 16 - Passaic; 18 - Somerset; 19 - Sussex; 20 - Union; 21 - Warren
		Road_Sys_Code	IN [5,6,7,8]	5 - County; 6 - County Authority; 7 - Municipal; 8 - Mun Authority
		Intersection	IN [1]	1 - At Intersection
		Crash_Type	IN [13,14]	13 - Pedestrian; 14 - Pedalcyclist
Pedestrian		Total_Peds_Involved	>0	At least one pedestrian/bicyclist involved

### Equivalent Property Damage Only (ePDO) Score Weights

Crash Severity	KABCO Scale	2016 Dollars	ePDO Value (K=A)	eC Value (K=A)
Fatal	K	\$11,295,400	55.0420	5.2150
Incapacitating	A	\$655,000	55.0420	5.2150
Non-incapacitating	B	\$198,500	16.6807	1.5804
Possible Injury	C	\$125,600	10.5546	1.0000
Property Damage Only	PDO	\$11,900	1.0000	-

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

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

County Rank	Rank (Weighted Score)	MPO	County	Town	Major Route			Minor Route			Crashes by Severity (2012-2016)						Roadway System	Weighted Score (ePDO)	Weighted Score (eC)
					SRI	Milepost	Route Name	SRI	MP	Route Name	Total Crashes	K	A	B	C	No Injury			
426	5065	NJTPA	MIDDLESEX	NEW BRUNSWICK CITY	12141035	0.20	Lee Avenue	12141025	0.39	Nnp	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	NEW BRUNSWICK CITY	12141023	0.47	Hale Street	12141034	0.40	Throop Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	PISCATAWAY TWP	12111166	1.91	Lakeview Avenue	120006651	2.60	Stelton Road	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	EDISON TWP	12052043	0.51	Grove Avenue	12051944	0.65	Wintergreen Ave East	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	EDISON TWP	12051640	0.37	Grove Avenue	12051625	0.00	Livingston Avenue	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	EAST BRUNSWICK TWP	12041394	0.14	Fetyko Avenue	12041397	0.18	Highland Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	CARTERET BORO	12011083	0.67	Hermann Avenue	12011045	0.42	Edgar Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	NEW BRUNSWICK CITY	12000693	1.07	Jersey Avenue	12141213	0.00	Handy Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	NEW BRUNSWICK CITY	12000691	0.98	Livingston Avenue	12141213	0.35	Handy Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	WOODBRIIDGE TWP	12251937	0.31	Loretta Street	12251191	0.11	South Charles Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	SOUTH BRUNSWICK TWP	12000679	2.30	Georges Road	12000681	0.68	Kingston Lane	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	METUCHEN BORO	12000669	0.94	Central Avenue	12101211	0.00	Durham Avenue	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	PERTH AMBOY CITY	120006581	0.96	Market Street	12161161	0.52	Hobart Street	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	PERTH AMBOY CITY	12000653	0.59	Amboy Avenue	12161084	0.00	Paderewski Avenue	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	WOODBRIIDGE TWP	12000650	0.07	Middlesex Avenue	12251846	0.34	Laguardia Avenue	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	PERTH AMBOY CITY	12000616	2.59	New Brunswick Avenue	12161174	0.00	Elm Street	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	PERTH AMBOY CITY	12000616	2.04	New Brunswick Avenue	12161072	0.21	Groom Street	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	WOODBRIIDGE TWP	12000604	7.25	Port Reading Avenue	12251407	0.00	6th Avenue	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	WOODBRIIDGE TWP	12000604	3.35	Oak Tree Road	12251845	0.14	Hillcrest Avenue	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	SOUTH PLAINFIELD BORO	12000603	2.80	Plainfield Avenue	120006021	0.00	Maple Avenue	1	0	0	0	0	1	Municipal	1.00	0.00
426	5065	NJTPA	MIDDLESEX	SOUTH PLAINFIELD BORO	12000603	2.38	Hamilton Boulevard	12221335	0.95	New Market Avenue	1	0	0	0	0	1	County	1.00	0.00
426	5065	NJTPA	MIDDLESEX	CARTERET BORO	120006022	2.06	Roosevelt Avenue	12011043	0.47	Lincoln Avenue	1	0	0	0	0	1	Municipal	1.00	0.00